



# Pumps catalog

**Pumps Series 0**



**Pumps Series 1**



**Pumps Series 2**



**Pumps Series 2,5**



**Pumps Series 2 Special**



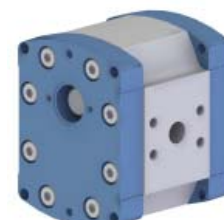
**Pumps Series 2,6**



**Pumps Series 3**



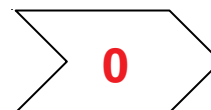
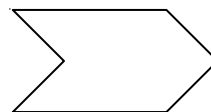
**Pumps Module 3**



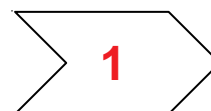
# PUMPS CATALOGUE

## Characteristics and Codifications

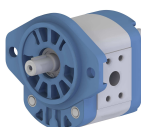
Hydraulic gear pumps  
**Series 0 Flat front body**



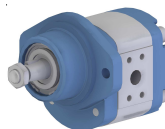
Hydraulic gear pumps  
**Series 1 Flat front body**



Hydraulic gear pumps  
**Series 2 Flat front body**



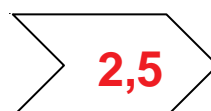
Hydraulic gear pumps  
**Series 2 Thick front body**



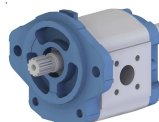
Hydraulic gear pumps  
**Series 2,5 Flat front body**



Hydraulic gear pumps  
**Series 2,5 Thick front body**

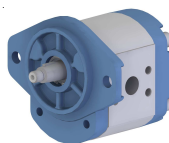


Hydraulic gear pumps  
**"Spécial" Series**

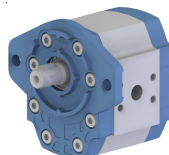


 Consult us for availability

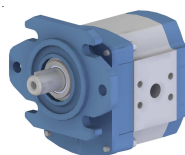
Hydraulic gear pumps  
**Series 2,6 Flat front body**



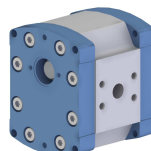
Hydraulic gear pumps  
**Series 3 Flat front body**



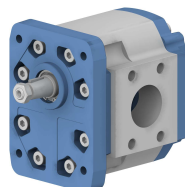
Hydraulic gear pumps  
**Series 3 Thick front body**



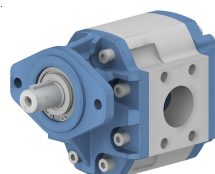
Hydraulic gear pumps  
**"Module 3"**



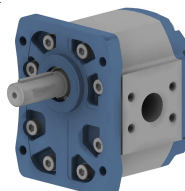
Hydraulic gear pumps  
**Series 5 Flat front body**



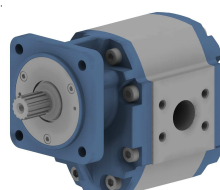
Hydraulic gear pumps  
**Series 5 Thick front body**




Hydraulic gear pumps  
**Series 4 Flat front body**



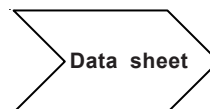
Hydraulic gear pumps  
**Series 4 Thick front body**



 Consult us for availability

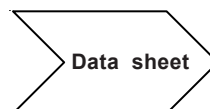
## Characteristics and Codifications

Recommendations for installing and maintenance Pumps



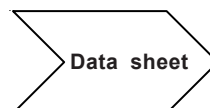
**F.T R 0152**

Oil recommendations



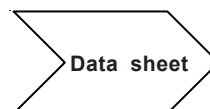
**F.T R 0003**

Recommendation concerning the drive type of Pumps



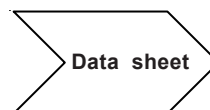
**F.T R 0009**

Codification of single pumps



**F.T R 0011**

Codification of multiple pumps



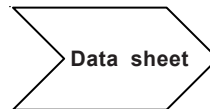
**F.T R 0030**

Pumps Characteristics



**F.T R 0005**

Different mounting possibilities between multiple Pumps



**F.T R 0029**

Our pumps were studied and manufactured to bring you complete satisfaction. They were designed with first quality materials, produced according to modern processes and controlled by strict tests . However, for the best use, it is absolutely necessary to make some arrangements when mounting and when using. The major 10 are the following:

**1- Mounting**

On a rigid support, fixed to the driving motor, make sure of the perfect concentricity of the pump centering with the driving shaft (5/100 maximum, when reading), according to the series. If the front body has a sealing (O-ring on the centering diameter), you may oil the seal during the assembly on the machine. The pump can be placed in whatever position.

**2- Driving**

Apart from the driving torque, no radial nor axial effort must be applied on pump shaft to ensure a good efficiency and a good service. See technical data sheet F.T R 0009 (pump with outrigger bearing excepted).

In an installation with:

- rapid duty cycle.
- frequent pressure variations.
- high working pressure.
- important variation of the hydraulic pump speed.

it is recommended to examin the pump coupling regularly and to slightly lubricate the shaft and the sleeve coupling to avoid frictional oxidation phenomena (fretting).

When the pump is driven with parallel keyed or splined shaft, it is recommended that the shaft be lubricated with bearing grease containing molybdenum disulphide.

**3- Pipes**

Selecting the correct pipe is very important . Apart from flexible hoses, use preferably cold drawn stel tubes, free from calamine and oxidation inside.

Alll hoses must be properly burred and cleaned. No trace of stranger bodies nor dust must be left; make sure of this before the mounting.

- 1) Never hot-bend hoses so as to avoid oxidation disposals.
- 2) Seal hose or pipe end during storage.
- 3) During the mounting, do not leave them on the floor.
- 4) Make sure of their cleanness until the final mounting.

**Suction hose:**

It must be made in such a manner so as to get a maximum oil speed of 2,5 m/s, less if possible, mostly for big flows.

Dimensions readings and approximative characteristics subject to modifications.

**F.T R 0152 1/4**

Below are some flow indications according to the dimensions of hoses:

|           |         |   |             |
|-----------|---------|---|-------------|
| 1 / 4 "   | 8 x 13  | = | 8 l / min   |
| 3 / 8 "   | 12 x 17 | = | 17 l / min  |
| 1 / 2 "   | 15 x 21 | = | 27 l / min  |
| 3 / 4 "   | 21 x 27 | = | 52 l / min  |
| 1 "       | 26 x 34 | = | 80 l / min  |
| 1 " 1 / 4 | 33 x 42 | = | 130 l / min |
| 1 " 1 / 2 | 40 x 49 | = | 190 l / min |
| 2 "       | 50 x 60 | = | 295 l / min |
| 2 " 1 / 2 | 66 x 76 | = | 513 l / min |
| 3 "       | 80 x 90 | = | 750 l / min |

The hose must be as straight as possible. Avoid elbows and connections. Straight angle elbows are prohibited. Narrowing forbidden.

The suction hose must be as short as possible (inferior to 1,50 m ); beyond this length, lower the flow speed and ask our Technical Departments for information.

The level between the suction port and the oil must not exceed 0,75 m when the tank is lower down. It is recommended to place the tank on load, that is to say above the pump.

Do not use soft materials to make hoses, depression and temperature tending to bring sided closer and reduce the flow surface.

Take care of the good screwing of connections to avoid air inlet.

#### **4- Tanks**

Tank capacity must be so that in maximum duty, the oil temperature must stabilize at maximum 50 / 60 ° . The quantity of oil that can be taken to ensure the various cycles must be taken into account.

The purpose of a tank, in addition of being a receiver, is to quickly dissipate the calories stored by the circuit when there is no cooling device beside.

Furthermore, it must allow the oil to clarify from the possible emulsions and consequently to avoid the creation of emulsion.

All hoses leading to tank must dive into the fluid.

The fluid coming back to tank must come back to tank very slowly to avoid disturbances on the suction hose.

Tank must be perfectly clean, realized in teme plate or fitted with an hydrocarbon-resistant inside painting.

It must be designed in order that an inspection flap allows a careful cleaning before mounting and during maintenance.

It must be dustproof.

The shape must be simple, either parallelepipedal or cylindrical.

Dimensions readings and approximative characteristics subject to modifications.

**F.T.R 0152 2/4**

**Level control (tightness of connections)**

One of the maintenance factors is watching the tank level.

According to the tank capacity, a continuous hose or connector leakage may lead to significant pump oil loss.

Consequences are always damaging to the pump: possible air suction, increased circuit temperature, oil-aging, etc .....

It is therefore necessary to examine regularly all circuit connections to make sure that there is no leakag.

**5- Oil filtration**

To ensure the pump a good efficiency and a long life duration, the filtration of the hydraulic fluid is indispensable .

Do not forget that the pump and the various components of the circuit are lubricated by the convoyad fluid.

**At suction :** Fit the suction hose with a suction strainer submerged in the tank, the filtration efficiency of which shall be 125 µ.

Do not use a suction strainer with a higher efficiency owing to possible underfeeding effects on the pump.

Flow capacity: 1 dm2 for a flow of 10 l / min.

**At pressure or at tank return :** Filter having a filtration capacity of 10 or 15 µ. A metal filter can be used.

**6- Air filtration**

Most of the pumps are prematurely aging due to abrasion coming from external elements to the tank . It is indispensable to fit the tank with a true air filter and not a simple breather.

The air filter must have a 5 µ filtration efficiency.

All othe parts of the tank must be airproo .

**7- Pump Protection**

All hydraulic installations must have a pressure relief valve to protect the pump, and this for each direction of rotation.

Several kinds can be employed:

- manually operated.
- differential.
- piloted.

Whatever the type, the following is required:

- quick opening.
- low opening range (lower than 20 bar)
- low closing range (lower than 10 bar)
- It must be pulsationfree.
- Make sure of the flow capacity of the pressure relief valve according to the pump flow.

Dimensions readings and approximative characteristics subject to modifications.

F.T.R 0152 3/4

**8- Fluid to be employed**

A good quality of oil is to be used.

The more important the duty cycle is, the higher the pressure and driving speed are, the more indispensable it is to choose a good quality of fluid.

An oil with viscosity 4 to 5 °E (30 to 40 cSt) to 40 °C must be used.

Take into account the fact that the higher the circuit temperature is, the more necessary it is to choose a high viscosity oil.

In many applications, motor oils can be used; they bring excellent results. For lubrication and life duration, choose class SAE 20 - 40 multigrade oils.

**9- Maximum working temperature**

Maintaining an hydraulic circuit requires a control, particularly of the oil temperature.

In general, it is recommended not to exceed 50 to 60 °C. If the latter temperature is exceeded, it would be necessary either to increase the tank volume, or to use a cooler.

Also check whether circuit obstructions or abnormal rolling of some distribution or regulation devices are not causing the heating.

In case the working or ambient temperature conditions require a working temperature higher than 60 °C, it is then necessary to use a higher viscosity oil (for instance, 5 °E at 70 °C instead of 50 °C).

Ambiant temperature - 15 °C to + 60 °C.

Also make sure that no external heat supply disturbs the functioning of the pump . In this case, inform our Technical Department who will give you useful advices, among others Viton seals for temperatures between 70 and 130 °C will be recommended (example : hydraulic pump in contact with the carter of a diesel motor that can work under temperatures of 120 °C).

**10- Oil aging**

The use of an oil that has lost its lubrication properties is a cause for wear and tear of the pump and of the circuit devices.

Temperature variations, rolling in the distribution and regulation valves cause a molecular modification of the fluid in the more or less long-term.

The rapidity of the aging depends on the oil volume in the circuit, on the important temperature variation and on the rolling under pressure.

According to the energy conversion rate of the circuit, it is necessary to provide for changing oil between 500 and 1000 duty hour .

(N.B: analysis in case of a big quantity of oil).

**11- Additional information**

For any further details, seek advice from our Technical Departments.

Dimensions readings and approximative characteristics subject to modifications.

**F.T.R 0152 4/4**



Dimensions readings and approximative characteristics subject to modifications.

| TYPE                               | ISO       | CASTROL                    | ELF                                | ESSO                      | FINA                 |
|------------------------------------|-----------|----------------------------|------------------------------------|---------------------------|----------------------|
| <b>HM</b>                          | <b>32</b> | HYSPIN<br>AWS 32           | ELFOLNA<br>DS 32                   | NUTO H 32                 | HYDRAN<br>TS 32      |
|                                    | <b>46</b> | HYSPIN<br>AWS 46           | ELFOLNA<br>DS 46                   | NUTO H 46                 | HYDRAN<br>TS 46      |
|                                    | <b>68</b> | HYSPIN<br>AWS 68           | ELFOLNA<br>DS 68                   | NUTO H 68                 | HYDRAN<br>TS 68      |
| <b>HV</b>                          | <b>32</b> | HYSPIN<br>AWH 32           | HYDRELF<br>DS 32                   | UNIVIS N 32               | HYDRAN<br>TSX 32     |
|                                    | <b>46</b> | HYSPIN<br>AWH 46           | HYDRELF<br>DS 46                   | UNIVIS N 46               | HYDRAN<br>TSX 46     |
|                                    | <b>68</b> | HYSPIN<br>AWH 68           | ELFOLNA<br>DS 68                   | UNIVIS N 68               | HYDRAN<br>TSX 68     |
| <b>HE</b>                          | <b>32</b> | CARELUBE<br>HTG 32         |                                    |                           | BIOHYDRAN<br>TMP 32  |
|                                    | <b>46</b> |                            |                                    | UNIVIS BIO<br>SHP 46      | BIOHYDRAN<br>TMP 46  |
|                                    | <b>68</b> |                            |                                    |                           | BIOHYDRAN<br>TMP 68  |
| <b>OILS<br/>DIESELS<br/>MOTORS</b> |           |                            | PERFORMANCE<br>XR 15W-40           | FARM 4<br>15W-40          | KAPPA SUPER<br>10W   |
|                                    |           | RX SUPER<br>PLUS<br>15W-40 | PERFORMANCE<br>SUPER D<br>15W-40   | ESSOLUBE X<br>301 10W     | KAPPA SUPER<br>20W20 |
|                                    |           |                            | PERFORMANCE<br>TROPHY DX<br>15W-40 | ESSOLUBE XT<br>301 15W-40 | KAPPA SUPER<br>15W40 |

| TYPES                              | ISO       | FUCHS<br>LUBRIFIANTS<br>INDUSTRIE | MOBIL             | SHELL                | TOTAL            |
|------------------------------------|-----------|-----------------------------------|-------------------|----------------------|------------------|
| <b>HM</b>                          | <b>32</b> | RENOLIN<br>EXTRA 32S              | MOBIL<br>DTE 24   | TELLUS 32            | AZOLL<br>ZS 32   |
|                                    | <b>46</b> | RENOLIN<br>EXTRA 46S              | MOBIL<br>DTE 25   | TELLUS 46            | AZOLLA<br>ZS 68  |
|                                    | <b>68</b> | RENOLIN<br>EXTRA 68S              | MOBIL<br>DTE 26   | TELLUS 68            | AZOLLA<br>ZS 68  |
| <b>HV</b>                          | <b>32</b> | RENOLIN<br>EQUIGRADE 32           | MOBIL<br>DTE 13 M | TELLUS<br>T et ST 32 | EQUIVIS<br>ZS 32 |
|                                    | <b>46</b> | RENOLIN<br>EQUIGRADE 46           | MOBIL<br>DTE 15 M | TELLUS<br>T et ST 46 | EQUIVIS<br>ZS 46 |
|                                    | <b>68</b> | RENOLIN<br>EQUIGRADE 68           | MOBIL<br>DTE 16 M | TELLUS<br>T et ST 68 | EQUIVIS<br>ZS 68 |
| <b>HE</b>                          | <b>46</b> |                                   |                   | NATURELLE<br>HFE     | HYDROBIO<br>46   |
| <b>OILS<br/>DIESELS<br/>MOTORS</b> |           | TITAN TRUCK<br>15W-40             |                   |                      | RUBIA<br>S 10W   |
|                                    |           | TITAN<br>UNIVERSAL<br>HD 15W-40   |                   | RIMULAX<br>15W - 40  |                  |
|                                    |           | TITAN<br>UNIVERSAL<br>HD 20W-50   |                   |                      |                  |

**OILS TYPE HM** : Refined mineral oils with anti-rust, anti - oxydation and anti - wear properties.  
Application hydraulic systems in general. ( Max pressure 2900 PSI, Max speed 2000 RPM )

**OILS TYPE HV** : Oils type HM with improved viscosity / temperature properties.  
Application car industry, marine equipment, high performance hydraulic ( high pressures and speds ).

**OILS TYPE HE** : Biodegradable hydraulic oils, synthetic base (esters).  
Can be used in all hydraulic equipments requiring a HV oil.

**OILS TYPE HFAE, HFAE, HFB, HFC, HFD** : Water emulsion in oil or synthetic fluid, consult our technical departments.  
The type of elastomer and the compatibility definition must be subject to an agreement between the supplier and the final customer.

**F.T.R 0003**

As the JTEKT-HPI hydraulic pumps are designed with shafts on bush bearings, it is necessary to avoid any axial or radial load and, in order to obtain the best performances and a longer life time, to pay some keen attention to the transmission driving type.

The hereunder sketches show the couplings to realize or to proscribe in order to avoid any kind of damage of the pump.

Recommended couplings :

**F.T R 0009 1/3 2/3**

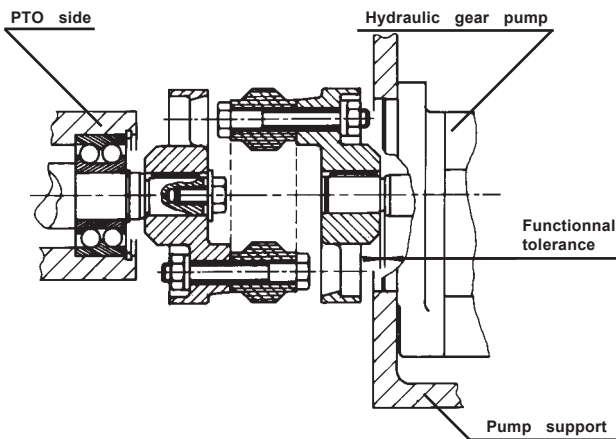
Conditionnally recommended couplings :

**F.T R 0009 2/3 3/3**

Proscribed couplings :

**F.T R 0009 3/3**

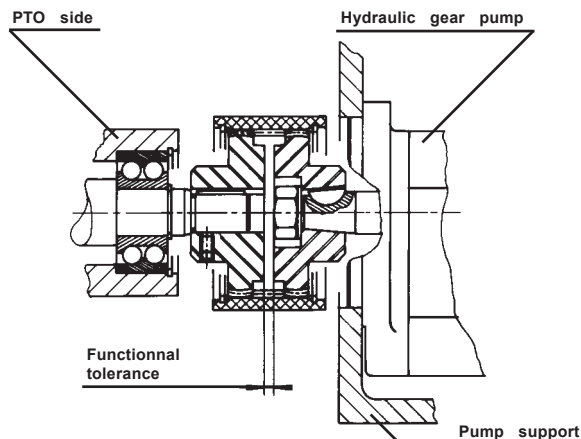
**RECOMMENDED COUPLINGS**



Mounting with elastic 3 parts coupling.

The pump shafts can be :

- Straight keyed shafts
- Tapered shafts
- Splined shafts



Mounting with 3 parts coupling with bulged gear.

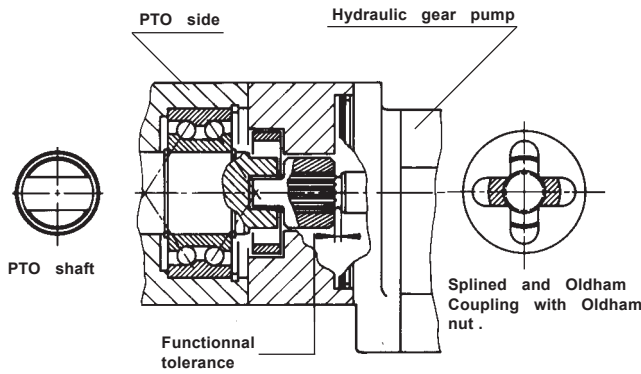
The pump shafts can be :

- Straight keyed shafts
- Tapered shafts
- Splined shafts

Dimensions readings and approximative characteristics subject to modifications.

**F.T R 0009 1/3**

**RECOMMENDED COUPLINGS**

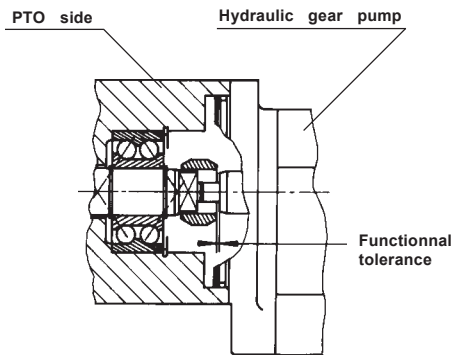


Mounting with coupling and Oldham coupling .

The pump shafts can be :

- Straight keyed shafts
- Tapered shafts
- Splined shafts

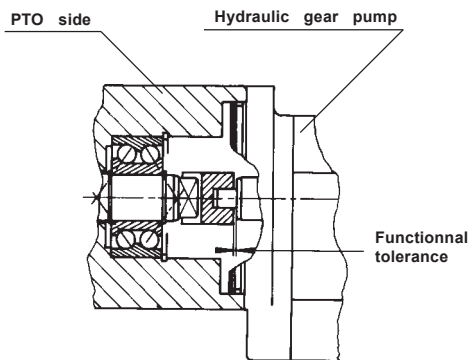
**RECOMMENDED LUBRICATION.**



Mounting with Oldham coupling .

Tang drive shaft on PTO and pump shaft .

**RECOMMENDED LUBRICATION.**

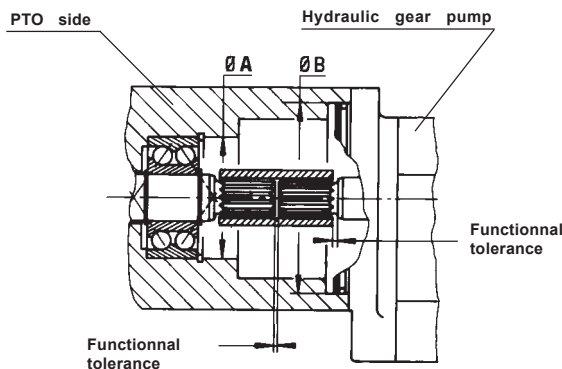


Mounting with Oldham coupling .

Tang drive shaft on PTO and pump shaft .

**RECOMMENDED LUBRICATION.**

**CONDITIONALLY ALLOWED COUPLINGS**



Mounting with splined coupling (Spigot on free flank) .

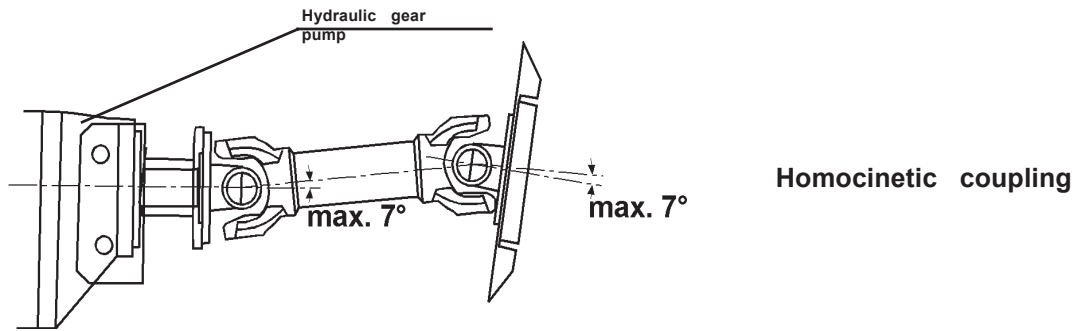
Tolerated coupling provided that there is a perfect concentricity between Ø A and Ø B .

Concentricity  $\leq 0,03$  ( according to the pump type and capacity ) .

Dimensions readings and approximative characteristics subject to modifications.

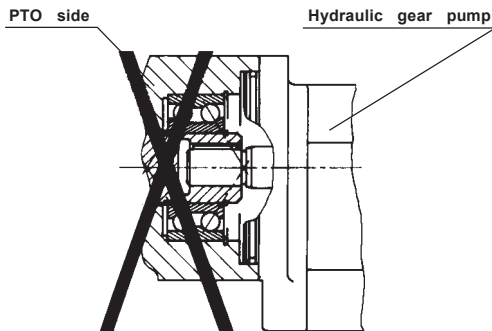
**F.T.R 0009 2/3**

**CONDITIONALLY ALLOWED COUPLINGS**



**PROSCRIBED COUPLINGS**

(Direct drive of the pump shaft on the PTO shaft)

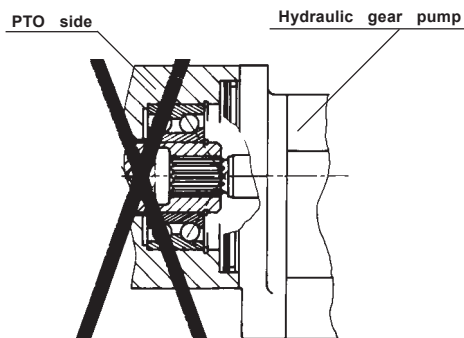


**Straight keyed drive .**

**Hyperstatic mounting .**

**Impossibility to line up properly the pump shaft and the PTO shaft .**

**INEVITABLE PUMP SHAFT - CONSTRAINT**

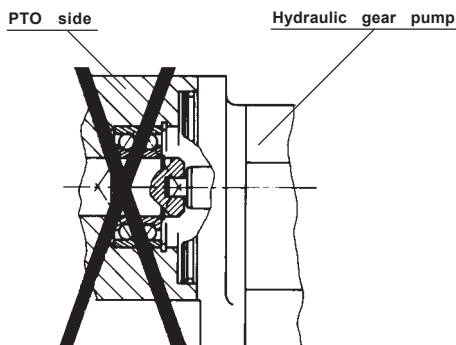


**Splined drive .**

**Hyperstatic mounting .**

**Impossibility to line up properly the pump shaft and the PTO shaft .**

**INEVITABLE PUMP SHAFT - CONSTRAINT**



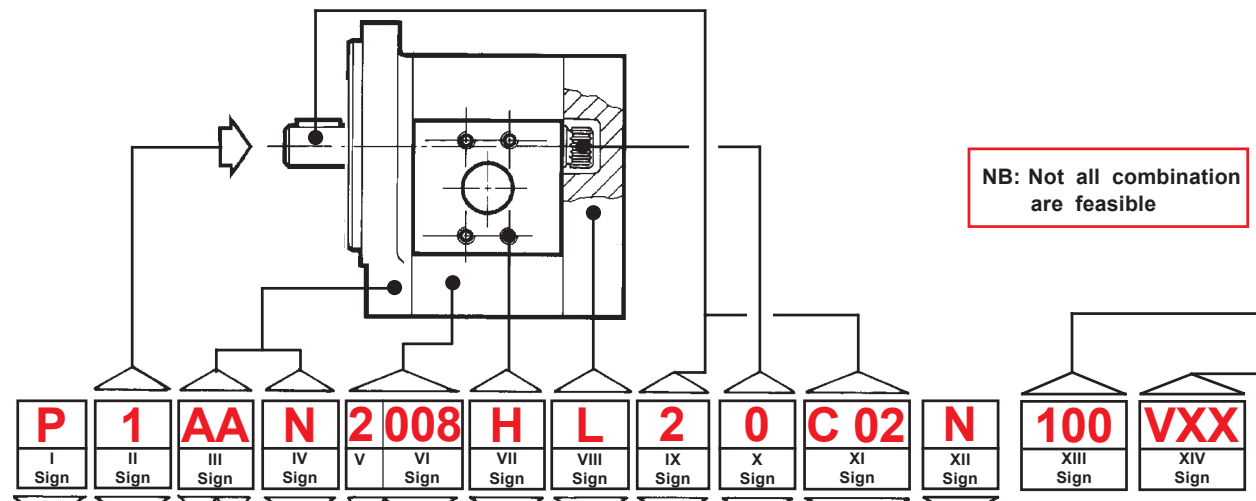
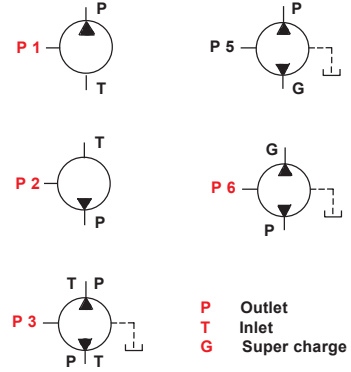
**Tang drive .**

**Pump shaft directly into the PTO shaft .**

**INEVITABLE PUMP SHAFT - CONSTRAINT**

Dimensions readings and approximative characteristics subject to modifications.

**F.T R 0009 3/3**



**NB:** Not all combination are feasible

**CAUTION:**  
The signes XIII and XIV are valid only for the pumps with relief valve.  
(see rear bodies technical data sheet according to the series concerned)

**TYPE**  
Pump **P**  
"Saphir" Pump **S\*** \* Only for series 2 and 2,5

**DIRECTION of ROTATION**  
Clockwise **1**  
Anti clockwise **2**  
2 direction (no preferential direction) **3**  
2 direction for super charge Inlet (Preferential direction 1) **5**  
2 direction for super charge Inlet (Preferential direction 2) **6**

**FRONT BODY MOUNTING FLANGE**  
2 and 4 holes (USA - ISO) **A**  
4 holes (English - Italian) **B**  
2 and 4 holes (French) **C**  
2 and 4 holes (German) **D**  
4 holes **Z**  
A, B, C, D, E, F, J, L, R, W, Z .....

**FLAT FRONT BODY**  
without tighness on spigot joint **N**  
with tighness on spigot joint **K**  
**THICK FRONT BODY WITH FRONT BEARING**  
**Hard Series**  
without tighness on spigot joint **P**  
with tighness on spigot joint **R**  
**Light Series**  
without tighness on spigot joint **X**  
with tighness on spigot joint **Z**  
Power take-off **C**  
Module flange without tighness **\* N**  
Module flange with tighness **\* E**

**TYPE of SERIES**  
Series **0**  
Series **1**  
Series **2**  
Series **2,5**  
Series **2,6**  
Series **3**  
Series **5**  
Series **4**

**CAPACITY (cc / rev)**  
0,25 - 0,50 - 0,75 - 1,00 - 1,25 - 1,50 - 2,00  
(00)1 - (00)2 - (00)3 - (00)4 - (00)5 - (00)6  
(00)4 - (00)6 - (00)8 - (0)10 - (0)12 - (0)14 - (0)15 - (0)17 - (0)18 - (0)22 - (0)26 - (0)30  
12 - 15 - 17 - 18 - 22  
20 - 25 - 27 - 30 - 35 - 40  
(0)20 - (0)25 - (0)31 - (0)40 - (0)50 - (0)60 - (0)71 - (0)80 - (0)90 - 100  
(0)43 - (0)52 - (0)62 - (0)72 - (0)83 - (0)93 - 103 - 125 - 140 - 153  
075 - 110 - 150 - 175 - 212 - 250

(0) - Only for codification purposes

**SHAFT SEAL**  
**N** Nitrile  
**V** Viton  
**S** "Saphir"

**PRIMARY SHAFT CODE**  
see Data sheet

**TYPE of SHAFT**  
Front **1** Tapered  
**2** Straight keyed  
**3** Splinned  
**4** Tang  
Rear **0** without shaft

**REAR BODY**  
**L** not port on rear body (Standard)  
**A** External flow control  
**X** High pressure relief valve, internal pressure  
**T** High pressure relief valve, external pressure  
**V** Low pressure relief valve, internal return  
**W** Low pressure relief valve, external return  
**Q** Internal flow control  
**AR** with block, configuration MBPS  
**J** Pre-arrangement for assembling "Module 3" Series 1, 2, 2,6 and 3

**PORT LOCATION**  
**H** Implantation HPI  
**C** Square location  
**F** Threaded ports  
**Y** ISO location (Norm 6162)  
**S** SAE location (Norm J518c)  
**B** Italian location  
**U** SAE threaded location (Norm J475)  
**X** without ports (with Rear body Typ A)

Dimensions readings and approximative characteristics subject to modifications.

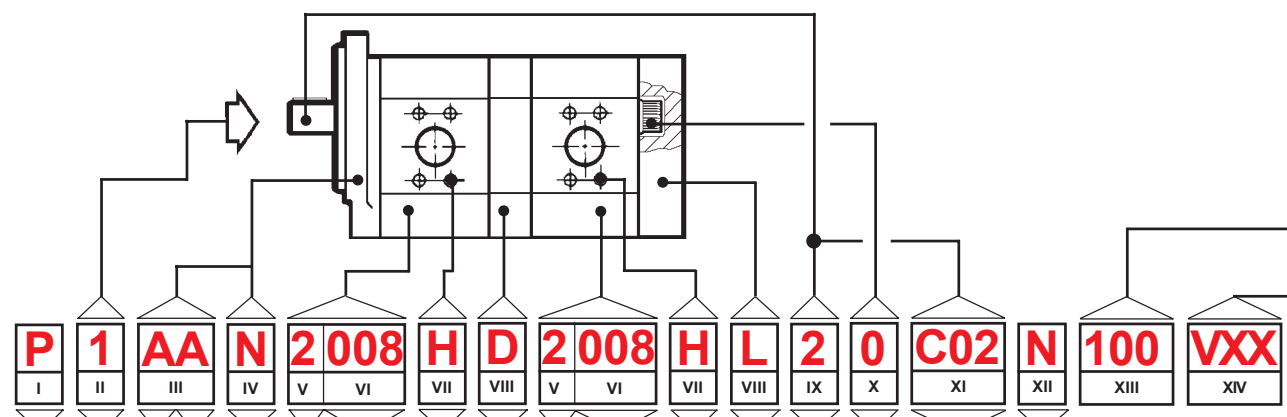
F.T R 0011

\* Only for Series 2 and 2,5

Consult us for availability

**NB: Not all combination are feasible**

**CAUTION:**  
The signes XIII and XIV are valid only for the pumps with relief valve.  
(see rear bodies technical data sheet according to the series concerned)



Pressure  
Rotation speed

- SHAFT SEAL**
- N Nitrile
  - V Viton
- PRIMARY SHAFT CODE**  
see data sheets
- TYPE of SHAFT**
- |                  |  |
|------------------|--|
| <b>Front</b>     | <b>Rear</b>                              |
| 1 Tapered        | 0 without shaft                          |
| 2 Straight keyed | 3 Pre-arrangement for mounting 2nd stage |
| 3 Splinned       |  |
| 4 Tang           |  |

- REAR BODY**
- L not port on rear body (Standard)
  - A External flow control
  - X High pressure relief valve, internal pressure
  - T High pressure relief valve, external pressure
  - V Low pressure relief valve, internal return
  - W Low pressure relief valve, external return
  - Q Internal flow control
  - AR with Block, configuration MBPS
  - J Pre-arrangement for assembling "Module 3" Series 1 - 2 - 2,5 - 2,6 - 3

- JUNCTION BODY**
- A Communication between suction ports
  - D Independant inlet side (Communication of leaks)
  - E Tightness between ports
  - X Adjustable relief valve internal return in preceding pump
  - J Junction "Module 3"

- TYPE**  
Pumpe P
- DIRECTION of ROTATION**
- 1 Clockwise
  - 2 Anti clockwise
- FRONT BODY**
- MOUNTING FLANGE**
- A 2 and 4 holes (USA - ISO)
  - B 4 holes (English - Italian)
  - C 2 and 4 holes (French)
  - D 2 and 4 holes (German)
  - Z 4 holes
  - A, B, C, D, E, F, J, L, R, W, Z.....
  - Variations
- FLAT FRONT BODY**
- without tightness on spigot joint N
  - with tightness on spigot joint K
- THICK FRONT BODY WITH FRONT BEARING**
- Hard Series**
- without tightness on spigot joint P
  - with tightness on spigot joint R
- Light Series**
- without tightness on spigot joint X
  - with tightness on spigot joint Z
  - Power take off C
- Module flange without tightness (\* N)
- Module flange with tightness (\* E)
- (\* Only for Series 2 and 2,5)

| TYPE of SERIE | CAPACITY (cc / rev)   |
|---------------|---|
| Series 0      | 0,25 - 0,50 - 0,75 - 1,00 - 1,25 - 1,50 - 2,00  |
| Series 1      | (00)1 - (00)2 - (00)3 - (00)4 - (00)5 - (00)6   |
| Series 2      | (00)4 - (00)6 - (00)8 - (0)10 - (0)12 - (0)14 - (0)15 - (0)17 - (0)18 - (0)22 - (0)26 - (0)30 |
| Series 2,5    | 12 - 15 - 17 - 18 - 22  |
| Series 2,6    | 20 - 25 - 27 - 30 - 35 - 40   |
| Series 3      | (0)20 - (0)25 - (0)31 - (0)40 - (0)50 - (0)60 - (0)71 - (0)80 - (0)90 - 100                   |
| Series 5      | (0)43 - (0)52 - (0)62 - (0)72 - (0)83 - (0)93 - 103 - 125 - 140 - 153                         |
| Series 4      | 075 - 110 - 150 - 175 - 212 - 250   |

- PORT LOCATION**
- H HPI
  - C Square location
  - F Threaded ports
  - Y ISO location (Norm 6162)
  - S SAE location (Norm J518c)
  - B Italian location
  - U SAE threaded location (Norm J475)
  - X without ports (with Rear body Typ A)

(0) - only for codification purposes

Dimensions readings and approximative characteristics subject to modifications.

F.T R 0030

Consult us for availability

SERIES

| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |     | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------|----------------------|----------------|-----|----------------------|-----|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|       |                      | bar            | PSI | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |                                 |                      |
|       |                      |                |     |                      |     |                   | l / min      | l / min       |  |                                 |                      |

**0**

|             |      |     |      |     |      |      |      |     |      |      |      |
|-------------|------|-----|------|-----|------|------|------|-----|------|------|------|
| <b>0025</b> | 0,25 | 280 | 4060 | 240 | 3480 | 8000 | 0,37 | 2   | 0,05 | 0,47 | 0,42 |
| <b>0050</b> | 0,50 | 280 | 4060 | 240 | 3480 | 8000 | 0,75 | 4   | 0,10 | 0,94 |      |
| <b>0075</b> | 0,75 | 250 | 3625 | 210 | 3045 | 8000 | 1,12 | 6   | 0,15 | 1,40 |      |
| <b>0100</b> | 1    | 250 | 3625 | 210 | 3045 | 8000 | 1,50 | 8   | 0,20 | 1,87 | 0,45 |
| <b>0125</b> | 1,25 | 200 | 2900 | 170 | 2465 | 6000 | 1,87 | 7,5 | 0,25 | 2,34 |      |
| <b>0150</b> | 1,50 | 150 | 2175 | 125 | 1812 | 6000 | 2,25 | 9   | 0,29 | 2,81 |      |
| <b>0200</b> | 2    | 125 | 1812 | 105 | 1522 | 5000 | 3    | 10  | 0,39 | 3,74 | 0,50 |

**1**

|             |      |     |      |     |      |      |      |      |      |       |     |
|-------------|------|-----|------|-----|------|------|------|------|------|-------|-----|
| <b>1001</b> | 1,02 | 300 | 4350 | 255 | 3697 | 8000 | 1,53 | 8,16 | 0,20 | 1,91  | 0,9 |
| <b>1002</b> | 2,05 | 300 | 4350 | 255 | 3697 | 8000 | 3,07 | 16,4 | 0,40 | 3,83  |     |
| <b>1003</b> | 3,07 | 300 | 4350 | 255 | 3697 | 7000 | 4,60 | 21,4 | 0,60 | 5,74  |     |
| <b>1004</b> | 4,09 | 250 | 3625 | 215 | 3117 | 6000 | 6,13 | 24,5 | 0,80 | 7,65  | 1,1 |
| <b>1005</b> | 5,12 | 200 | 2900 | 170 | 2465 | 6000 | 7,68 | 30,7 | 1    | 9,58  |     |
| <b>1006</b> | 6,14 | 150 | 2175 | 125 | 1812 | 6000 | 9,21 | 30,7 | 1,20 | 11,49 |     |

**2**

|             |       |     |      |     |      |      |       |       |      |       |     |
|-------------|-------|-----|------|-----|------|------|-------|-------|------|-------|-----|
| <b>2004</b> | 4,65  | 280 | 4060 | 240 | 3480 | 3500 | 6,97  | 16,2  | 0,91 | 8,70  | 1,6 |
| <b>2006</b> | 6,45  | 280 | 4060 | 240 | 3480 | 3500 | 9,67  | 22,5  | 1,26 | 12,07 | 1,6 |
| <b>2008</b> | 8,25  | 280 | 4060 | 240 | 3480 | 3500 | 12,37 | 28,8  | 1,62 | 15,43 | 1,7 |
| <b>2010</b> | 10,12 | 280 | 4060 | 240 | 3480 | 3500 | 15,18 | 35,3  | 1,98 | 18,93 | 1,7 |
| <b>2012</b> | 12    | 280 | 4060 | 240 | 3480 | 3500 | 18    | 42    | 2,35 | 22,45 | 1,7 |
| <b>2014</b> | 13,8  | 250 | 3625 | 210 | 3045 | 3500 | 20,7  | 48,3  | 2,71 | 25,81 | 2   |
| <b>2015</b> | 15,52 | 250 | 3625 | 210 | 3045 | 3500 | 23,25 | 52,5  | 3,04 | 29,03 | 2,1 |
| <b>2017</b> | 17,3  | 220 | 3190 | 190 | 2755 | 3500 | 25,95 | 60,55 | 3,39 | 32,36 | 2,1 |
| <b>2018</b> | 19,12 | 200 | 2900 | 170 | 2465 | 3500 | 28,65 | 66,8  | 3,75 | 35,77 | 2,2 |
| <b>2022</b> | 22,87 | 175 | 2537 | 150 | 2175 | 3500 | 34,2  | 79,8  | 4,48 | 42,78 | 2,3 |
| <b>2026</b> | 27,6  | 175 | 2537 | 150 | 2175 | 3000 | 41,4  | 82,8  | 5,41 | 51,63 | 2,7 |
| <b>2030</b> | 31,2  | 175 | 2537 | 150 | 2175 | 3000 | 46,8  | 93,6  | 6,12 | 58,36 | 2,8 |

**2,5**

|             |       |     |      |     |      |      |       |       |      |       |     |
|-------------|-------|-----|------|-----|------|------|-------|-------|------|-------|-----|
| <b>2512</b> | 12    | 300 | 4350 | 255 | 3697 | 3500 | 18    | 42    | 2,35 | 22,45 | 2,2 |
| <b>2515</b> | 15,52 | 280 | 4060 | 240 | 3480 | 3500 | 23,25 | 52,5  | 3,04 | 29,03 | 2,6 |
| <b>2517</b> | 17,3  | 280 | 4060 | 240 | 3480 | 3500 | 25,95 | 60,55 | 3,39 | 32,36 | 2,6 |
| <b>2518</b> | 19,12 | 250 | 3625 | 215 | 3117 | 3500 | 28,65 | 66,8  | 3,75 | 35,77 | 2,7 |
| <b>2522</b> | 22,87 | 225 | 3262 | 190 | 2755 | 3500 | 34,2  | 79,8  | 4,48 | 42,78 | 2,8 |

**2,6**

|             |      |     |      |     |      |      |       |        |      |       |   |
|-------------|------|-----|------|-----|------|------|-------|--------|------|-------|---|
| <b>2620</b> | 19,6 | 330 | 4185 | 280 | 4060 | 3000 | 29,40 | 58,80  | 3,70 | 36,66 | 8 |
| <b>2625</b> | 24,2 | 330 | 4185 | 280 | 4060 | 3000 | 36,30 | 72,60  | 4,50 | 45,27 |   |
| <b>2627</b> | 27,5 | 330 | 4185 | 280 | 4060 | 3000 | 41,25 | 82,50  | 5    | 51,25 |   |
| <b>2630</b> | 30,5 | 330 | 4185 | 280 | 4060 | 3000 | 45,75 | 91,50  | 5,70 | 57,05 |   |
| <b>2635</b> | 34,5 | 290 | 4205 | 250 | 3625 | 3000 | 51,75 | 103,50 | 6,40 | 64,54 |   |
| <b>2640</b> | 39,8 | 250 | 3625 | 210 | 3045 | 3000 | 59,70 | 119,40 | 7,50 | 74,45 |   |

Dimensions readings and approximative characteristics subject to modifications.

F.T R 0005 1/2

Consult us for availability

SERIES

| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |     | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at<br>1000 RPM<br>and<br>100 bar | Input torque<br>at<br>100 bar<br>and<br>N.m | Approx.<br>weight<br>Kg |
|-------|----------------------|----------------|-----|----------------------|-----|-------------------|--------------|---------------|--|---|-------------------------|
|       |                      | bar            | PSI | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |   |                         |
|       |                      |                |     |                      |     |                   | l / min      | l / min       |  |   |                         |

**3**

|             |       |     |      |     |     |      |        |       |       |        |     |
|-------------|-------|-----|------|-----|-----|------|--------|-------|-------|--------|-----|
| <b>3020</b> | 21,1  | 275 | 3987 | 235 | 235 | 3000 | 31,65  | 63,3  | 4,14  | 39,47  | 5,6 |
| <b>3025</b> | 25,8  | 275 | 3987 | 235 | 235 | 3000 | 38,7   | 77,4  | 5,06  | 48,26  | 5,6 |
| <b>3031</b> | 32,1  | 275 | 3987 | 235 | 235 | 3000 | 48,15  | 96,3  | 6,29  | 60,05  | 5,6 |
| <b>3040</b> | 41,5  | 275 | 3987 | 235 | 235 | 3000 | 62,25  | 124,5 | 8,14  | 77,63  | 5,7 |
| <b>3050</b> | 51,65 | 250 | 3625 | 215 | 215 | 3000 | 77,47  | 154,9 | 10,13 | 96,62  | 6,9 |
| <b>3060</b> | 62,6  | 225 | 3262 | 190 | 190 | 2500 | 93,9   | 156,5 | 12,27 | 117,10 | 7   |
| <b>3071</b> | 73,55 | 225 | 3262 | 190 | 190 | 2500 | 110,32 | 183,8 | 14,42 | 137,58 | 7   |
| <b>3080</b> | 82,95 | 200 | 2900 | 170 | 170 | 2200 | 124,42 | 182,4 | 16,26 | 155,17 | 7,1 |
| <b>3090</b> | 92,95 | 150 | 2175 | 130 | 130 | 2000 | 139,42 | 185,9 | 18,23 | 173,87 | 7,8 |
| <b>3100</b> | 103,9 | 150 | 2175 | 130 | 130 | 2000 | 155,85 | 207,8 | 20,37 | 194,37 | 8   |

**5**


|             |       |     |      |     |      |      |        |       |       |        |      |
|-------------|-------|-----|------|-----|------|------|--------|-------|-------|--------|------|
| <b>5043</b> | 43,06 | 300 | 4350 | 255 | 3697 | 3000 | 64,59  | 129   | 8,44  | 80,55  | 14,2 |
| <b>5052</b> | 52,91 | 300 | 4350 | 255 | 3697 | 3000 | 79,36  | 158,5 | 10,37 | 98,97  | 14,2 |
| <b>5062</b> | 62,75 | 300 | 4350 | 255 | 3697 | 3000 | 94,12  | 188   | 12,30 | 117,38 | 14,4 |
| <b>5072</b> | 72,59 | 300 | 4350 | 255 | 3697 | 3000 | 108,88 | 217,5 | 14,23 | 135,79 | 14,6 |
| <b>5083</b> | 83,67 | 280 | 4060 | 240 | 3480 | 2700 | 125,50 | 226   | 16,41 | 156,51 | 15,1 |
| <b>5093</b> | 93,51 | 250 | 3625 | 210 | 3045 | 2700 | 140,26 | 252,5 | 18,34 | 174,92 | 15,2 |
| <b>5103</b> | 103,3 | 250 | 3625 | 210 | 3045 | 2700 | 154,95 | 279   | 20,25 | 193,23 | 15,2 |
| <b>5125</b> | 125,5 | 250 | 3625 | 210 | 3045 | 2600 | 188,25 | 326   | 24,61 | 234,76 | 15,7 |
| <b>5140</b> | 140,2 | 250 | 3625 | 210 | 3045 | 2500 | 210,30 | 350,5 | 27,49 | 262,26 | 15,7 |
| <b>5153</b> | 153   | 250 | 3625 | 210 | 3045 | 2400 | 229,50 | 367,5 | 30    | 286,20 | 16   |

**4**

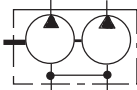
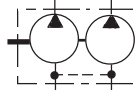
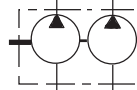
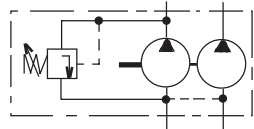
|             |     |     |      |     |      |      |       |       |       |        |      |
|-------------|-----|-----|------|-----|------|------|-------|-------|-------|--------|------|
| <b>4075</b> | 075 | 200 | 2900 | 170 | 2465 | 2500 | 112,5 | 187,5 | 19,37 | 141    | 17   |
| <b>4110</b> | 110 | 200 | 2900 | 170 | 2465 | 2500 | 165   | 275   | 28,42 | 206    | 17,2 |
| <b>4150</b> | 150 | 200 | 2900 | 170 | 2465 | 2500 | 225   | 375   | 28,60 | 281    | 17,4 |
| <b>4175</b> | 175 | 175 | 2625 | 150 | 2175 | 2500 | 262,5 | 437,5 | 34,31 | 327,35 | 19   |
| <b>4212</b> | 212 | 150 | 2175 | 130 | 1885 | 2500 | 318   | 530   | 41,57 | 396,56 | 19,4 |
| <b>4250</b> | 250 | 125 | 1812 | 105 | 1522 | 2000 | 375   | 500   | 49,02 | 467,65 | 20   |

Dimensions readings and approximative characteristics subject to modifications.

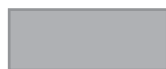
F.T R 0005 2/2

 Consult us for availability



| TYPE<br>DES<br>POMPES | ( VIII Signe )   |   |  |   |
|-----------------------|--|---|--|---|
|                       | Communication<br>between suction ports<br><small>( Capacity of the pump without<br/>suction <math>\geq</math> half of the capacity<br/>of the front section)</small><br><br><b>Code A</b><br> | Indépendant inlet side<br>(communication of leaks)<br><small>(Oil and tank to be necessarily<br/>identical)</small><br><br><b>Code D</b><br> | Tightness between ports<br><br><b>Code E</b><br> | Adjustable relief valve<br>internal return in<br>preceding pump<br><br><b>Code X</b><br> |
| 0 / 0                 |  |   |  |   |
| 1 / 1                 |  |   |  |   |
| 2 / 1                 |  |   |  |   |
| 2 / 2                 |  |   |  |   |
| 2,5 / 1               |  |   |  |   |
| 2,5 / 2               |  |   |  |   |
| 2,5 / 2,5             |  |   |  |   |
| 2,6 / 2               |  |   |  |   |
| 2,6 / 2,5             |  |   |  |   |
| 2,6 / 2,6             |  |   |  |   |
| 3 / 1                 |  |   |  |   |
| 3 / 2                 |  |   |  |   |
| 3 / 2,5               |  |   |  |   |
| 3 / 3                 |  |   |  |   |
| 5 / 5                 |  |   |  |   |
| 4 / 4                 |  |   |  |   |

**ATTENTION:** Versions 2 / 1 and 2,5 / 1 are not feasible in DCN - DCK - DUK - DWN - DZK



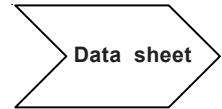
Types not manufactured



Consult us for availability

F.T.R 0029

**PUMPS PRESENTATION**  
**SERIES 0**



**F.T 00 1289**

**PUMP AAN**



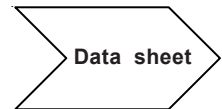
**F.T 00 1290**

**PUMP AAK**



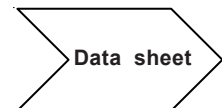
**F.T 00 1324**

**PUMP CLS**



**F.T 00 1415**

**PUMP DCN**



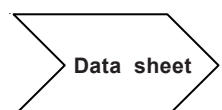
**F.T 00 1291**

**PUMP DCK**



**F.T 00 1325**

**MULTIPLE PUMPS**



**F.T 00 1292**



Consult us for availability

| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Maxi speed |  |                                 |                      |
|             |                      |                |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| <b>0025</b> | 0,25                 | 280            | 4060 | 240                  | 3480 | 8000              | 0,37         | 2             | 0,05   | 0,47                            | 0,42                 |
| <b>0050</b> | 0,50                 | 280            | 4060 | 240                  | 3480 | 8000              | 0,75         | 4             | 0,10   | 0,94                            |                      |
| <b>0075</b> | 0,75                 | 250            | 3625 | 210                  | 3045 | 8000              | 1,12         | 6             | 0,15   | 1,40                            |                      |
| <b>0100</b> | 1                    | 250            | 3625 | 210                  | 3045 | 8000              | 1,50         | 8             | 0,20   | 1,87                            | 0,45                 |
| <b>0125</b> | 1,25                 | 200            | 2900 | 170                  | 2465 | 6000              | 1,87         | 7,5           | 0,25   | 2,34                            |                      |
| <b>0150</b> | 1,50                 | 150            | 2175 | 125                  | 1812 | 6000              | 2,25         | 9             | 0,29   | 2,81                            |                      |
| <b>0200</b> | 2                    | 125            | 1812 | 105                  | 1522 | 5000              | 3            | 10            | 0,39   | 3,74                            | 0,50                 |

The pump can only run in one way rotation (Precise the direction of rotation on order).  
The working cycles hereunder are possible with hydraulic mineral oil for viscosities between 12 and 150 cSt (65,2 and 700 SUS).  
The minimum viscosity of 12 cSt (65,2 SUS) is available for a maximum temperature in the hydraulic circuit .  
Working temperature: - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C (284 °F) with Viton shaft seal).  
Full flow filtration: 10 to 15 microns at the pressure port of the pump or on the return circuit.  
Filtration on the suction side: 125 microns.

Pressure at the inlet of the pump:

- Minimum 0,8 bar absolute (Maxi depreasure 300 millibar with regard to the air pressure).
- Maximum 1,2 bar absolute or 0,2 bar over the air pressure.

The hereabove characteristics concern the pumps driven by elastic couplings perfectly aligned without any external radial or axial force.

For any other coupling, see technical data sheet F.T R 0009.

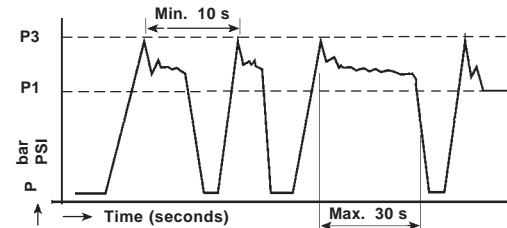
For use at maximum working conditions and/or intensive cycles, thanks to consult our technical sales service for validation.

Dimensions readings and approximative characteristics subject to modifications.

**P1** Maximum pressure in continuous duty.

Maximum Pressure ⇒

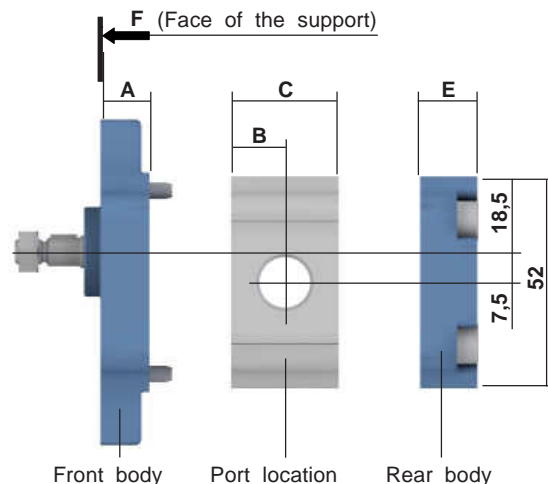
**P3** Allowable peack pressure.



|                              |    |
|------------------------------|----|
| Front body:                  | A  |
| <b>AAN / AAK - DCN / DCK</b> | 12 |

|                           |      |      |
|---------------------------|------|------|
| Port location (capacity): | B    | C    |
| <b>0025 - 0050 - 0075</b> | 13,2 | 26,4 |
| <b>0100 - 0125 - 0150</b> | 16,4 | 32,8 |
| <b>0200</b>               | 20,6 | 41,2 |



|            |    |
|------------|----|
| Rear body: | E  |
| <b>L -</b> | 14 |










Consult us for availability

|          |         |          |         |          |         |          |           |         |        |         |          |
|----------|---------|----------|---------|----------|---------|----------|-----------|---------|--------|---------|----------|
| <b>P</b> | II Sign | III Sign | IV Sign | <b>0</b> | VI Sign | VII Sign | VIII Sign | IX Sign | X Sign | XI Sign | XII Sign |
|----------|---------|----------|---------|----------|---------|----------|-----------|---------|--------|---------|----------|

For CODIFICATION, see data sheet **F.T R 0011**

| DIRECTION of ROTATION<br>(II Sign)   | FLAT FRONT BODIES<br>(III and IV Sign)   | CAPACITY<br>(V and VI Sign) | PORT LOCATION<br>(VII Sign) | REAR BODY<br>(VIII Sign) | DRIVING SHAFTS<br>(IX, X and XI Sign) |      |
|--|--|-----------------------------|-----------------------------|--------------------------|---------------------------------------|------|
|  |  |                             |                             |                          | STRAIGHT KEYED                        | TANG |
| P 1<br> | P 2<br> |                             | F                           | L                        | 20                                    | 40   |

|   |   |   |   |   |  |   |   |
|---|---|---|---|---|--|---|---|
| X | X | <p><b>AAN / AAK</b></p>  | <p>0025</p> <p>0050</p>                                     |   |  |   |   |
| X | X | <p><b>DCN / DCK</b></p>  | <p>0075</p> <p>0100</p> <p>0125</p> <p>0150</p> <p>0200</p> |  |  | <br>20 B01 | <br>40 C01<br>40 C15 |
| X | X | <p><b>CLS</b></p>      |   |   |  |   | 40 C15  |

**LEGENDES**

**DIRECTION of ROTATION**

P 1 = Clockwise  
P 2 = Anti clockwise

**FRONT BODIES**

AA\* = Fixing SAE and ISO  
DC\* = Fixing German

**PORT LOCATION**


F = Threaded ports

**REAR BODY**

L = Standard

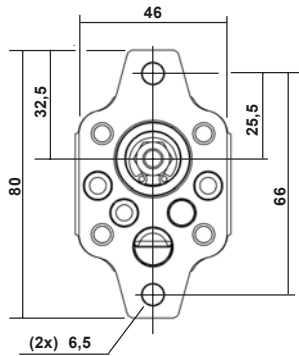
Dimensions readings and approximative characteristics subject to modifications.

**F.T 00 1289 2/4**

 Consult us for availability

**FRONT BODIES**

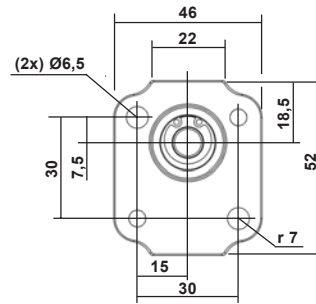
**AAN / AAK**



Centering:  $\varnothing 22 \begin{matrix} -0,020 \\ -0,041 \end{matrix}$   
Thickness: 4

AAN : F.T 00 1290  
AAK : F.T 00 1324

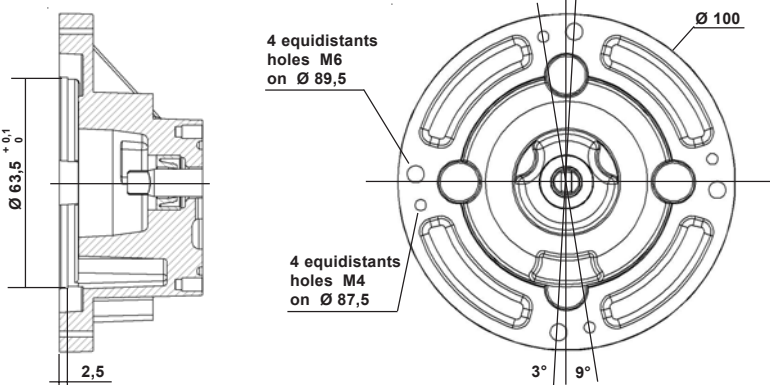
**DCN / DCK**



Centering:  $\varnothing 22 \begin{matrix} -0,020 \\ -0,041 \end{matrix}$   
Thickness: 4

DCN : F.T 00 1291  
DCK : F.T 00 1325

**CLS**



Internal centering:  $\varnothing 63,5 \begin{matrix} +0,1 \\ 0 \end{matrix}$   
Thickness: 2,5

CLS : F.T 00 1415

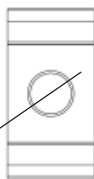
Dimensions readings and approximative characteristics subject to modifications.

**CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES**

| Capacity     | INLET (T) |   |   |          |    | OUTLET (P) |   |   |          |    | CATALOGUE N° 70<br>Ref. FLANGES RECOMMENDED<br>(for speed 1500 rev / min) |            |
|--------------|-----------|---|---|----------|----|------------|---|---|----------|----|---|------------|
|              | ØC        | D | E | ØF       | G  | ØC         | D | E | ØF       | G  | INLET (T)   | OUTLET (P) |
| 0025 to 0200 |           |   |   | M14 x150 | 12 |            |   |   | M14 x150 | 12 |   |            |

**F**

(Threaded)



Ø F effective depth G

**F.T 00 1289 3/4**

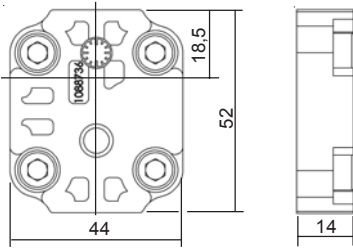


Consult us for availability

**REAR BODY**

**L**

**Standard**

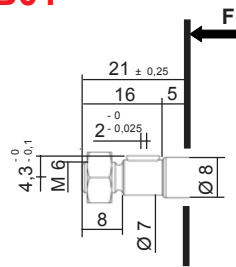


Dimensions readings and approximative characteristics subject to modifications.

**DRIVING SHAFT**

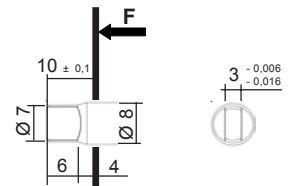
|                |                       |                |             |
|----------------|-----------------------|----------------|-------------|
| <b>TAPERED</b> | <b>STRAIGHT KEYED</b> | <b>SPLINED</b> | <b>TANG</b> |
| <b>10</b>      | <b>20</b>             | <b>30</b>      | <b>40</b>   |

**B01**



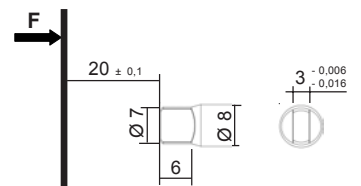
**Maxi transmissible torque**  
**5 N.m**

**C01**



**Maxi transmissible torque**  
**6 N.m**

**C15**



**Maxi transmissible torque**  
**6 N.m**

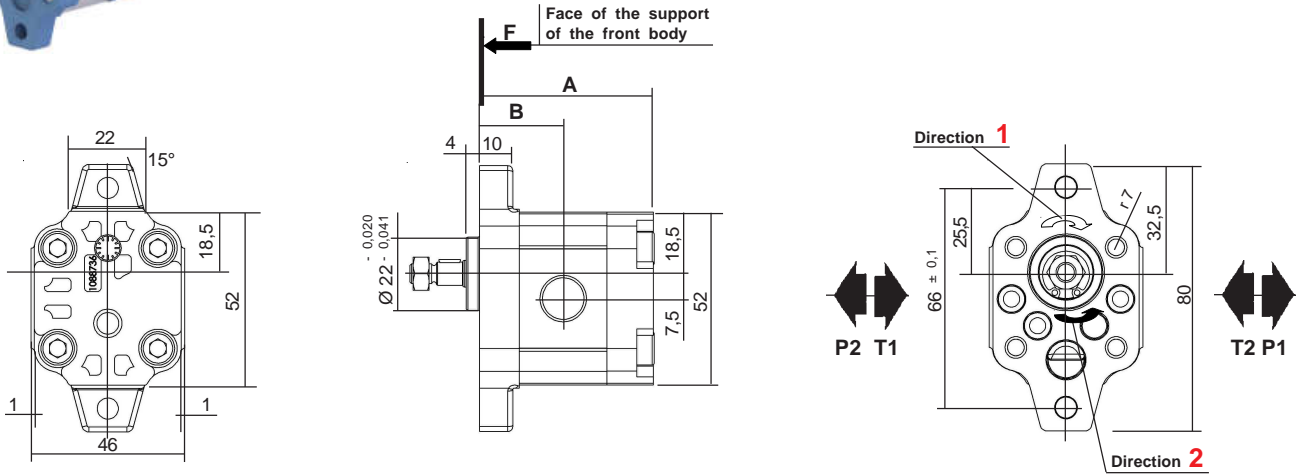
**F.T 00 1289 4/4**

Consult us for availability



**P** II Sign **AA** **N** **0** VI Sign **F** **L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T.R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 0025<br>0050<br>0075   | 52,6       | 25,2 |
| 0100<br>0125<br>0150   | 59         | 28,4 |
| 0200                   | 67,5       | 32,6 |

Multiple geared pumps, see data sheet **F.T 00 1292**

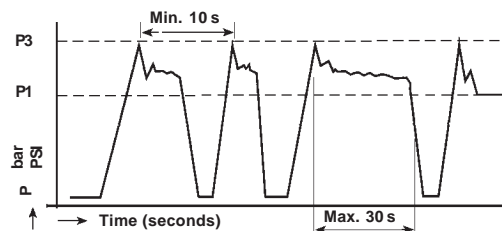
**Seals kits:**  
Nitrile: **K5073819**  
Viton: **K5073820**  
(For manufacture to since may 1991)

| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------|----------------------|----------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|       |                      | bar            | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Maxi speed |  |                                 |                      |
|       |                      |                |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| 0025  | 0,25                 | 280            | 4060 | 240                  | 3480 | 8000              | 0,37         | 2             | 0,05                                     | 0,47                            | 0,42                 |
| 0050  | 0,50                 | 280            | 4060 | 240                  | 3480 | 8000              | 0,75         | 4             | 0,10                                     | 0,94                            |                      |
| 0075  | 0,75                 | 250            | 3625 | 210                  | 3045 | 8000              | 1,12         | 6             | 0,15                                     | 1,40                            |                      |
| 0100  | 1                    | 250            | 3625 | 210                  | 3045 | 8000              | 1,50         | 8             | 0,20                                     | 1,87                            | 0,45                 |
| 0125  | 1,25                 | 200            | 2900 | 170                  | 2465 | 6000              | 1,87         | 7,5           | 0,25                                     | 2,34                            |                      |
| 0150  | 1,50                 | 150            | 2175 | 125                  | 1812 | 6000              | 2,25         | 9             | 0,29                                     | 2,81                            |                      |
| 0200  | 2                    | 125            | 1812 | 105                  | 1522 | 5000              | 3            | 10            | 0,39                                     | 3,74                            | 0,50                 |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



**F.T 00 1290 1/2**

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES

**F**  
(Threaded)

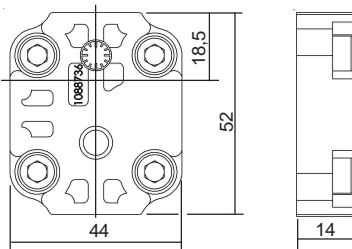
$\varnothing F$   
effective  
depth G



| Capacity           | INLET (T)       |   |   |                 |    | OUTLET (P)      |   |   |                 |    | CATALOGUE N° 70<br>Ref. of RECOMMANDÉD FLANGES<br>(for speed 1500 rev / min) |            |
|--------------------|-----------------|---|---|-----------------|----|-----------------|---|---|-----------------|----|--|------------|
|                    | $\varnothing C$ | D | E | $\varnothing F$ | G  | $\varnothing C$ | D | E | $\varnothing F$ | G  | INLET (T)  | OUTLET (P) |
| 0025<br>to<br>0200 |                 |   |   | M14<br>x150     | 12 |                 |   |   | M14<br>x150     | 12 |  |            |

REAR BODY

**L**  
Standard



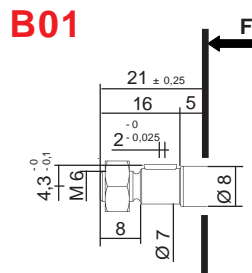
DRIVING SHAFT

Tapered  
**10**

Straight keyed  
**20**

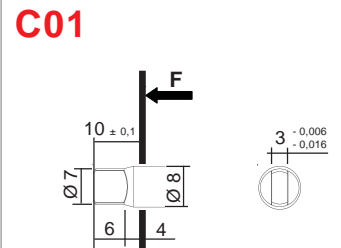
Splined  
**30**

Tang  
**40**



Delivered with Nut Ref.: K108328

**Maxi transmissible torque**  
**5 N.m**



**Maxi transmissible torque**  
**6 N.m**

Dimensions readings and approximative characteristics subject to modifications.

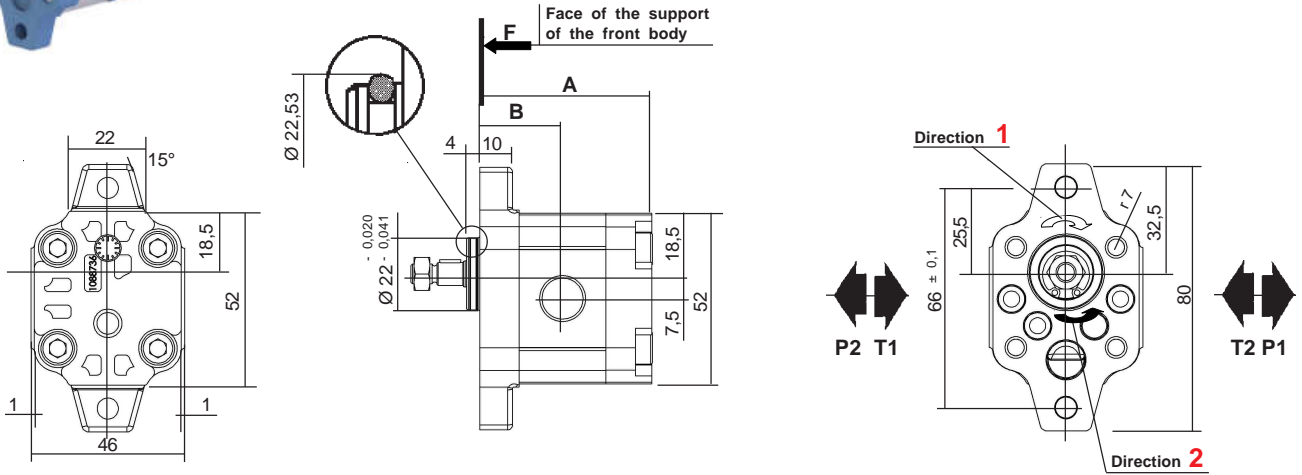
**F.T 00 1290 2/2**





**P** II Sign **AAK0** VI Sign **FL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T.R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 0025                   | 52,6       | 25,2 |
| 0050                   |            |      |
| 0075                   |            |      |
| 0100                   | 59         | 28,4 |
| 0125                   |            |      |
| 0150                   |            |      |
| 0200                   | 67,5       | 32,6 |

Multiple geared pumps, see data sheet **F.T 00 1292**

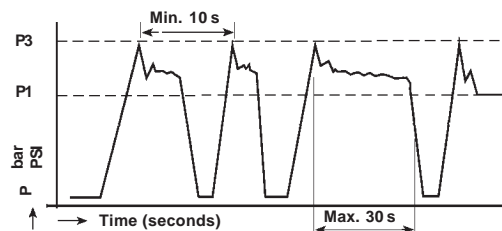
Seals kits:  
Nitrile: **K5073819 + K100256**  
Viton: **K5073820 + K105494**  
(For manufacture to since may 1991)

| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |         | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------|----------------------|----------------|---------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|       |                      | bar            | PSI     | bar                  | PSI  |                   | at 1500 RPM  | at Maxi speed |  |                                 |                      |
|       |                      | l / min        | l / min |                      |      |                   |              |               |  |                                 |                      |
| 0025  | 0,25                 | 280            | 4060    | 240                  | 3480 | 8000              | 0,37         | 2             | 0,05                                     | 0,47                            | 0,42                 |
| 0050  | 0,50                 | 280            | 4060    | 240                  | 3480 | 8000              | 0,75         | 4             | 0,10                                     | 0,94                            |                      |
| 0075  | 0,75                 | 250            | 3625    | 210                  | 3045 | 8000              | 1,12         | 6             | 0,15                                     | 1,40                            |                      |
| 0100  | 1                    | 250            | 3625    | 210                  | 3045 | 8000              | 1,50         | 8             | 0,20                                     | 1,87                            | 0,45                 |
| 0125  | 1,25                 | 200            | 2900    | 170                  | 2465 | 6000              | 1,87         | 7,5           | 0,25                                     | 2,34                            |                      |
| 0150  | 1,50                 | 150            | 2175    | 125                  | 1812 | 6000              | 2,25         | 9             | 0,29                                     | 2,81                            |                      |
| 0200  | 2                    | 125            | 1812    | 105                  | 1522 | 5000              | 3            | 10            | 0,39                                     | 3,74                            | 0,50                 |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES

| Capacity     | INLET (T) |   |   |          |    | OUTLET (P) |   |   |          |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |            |
|--------------|-----------|---|---|----------|----|------------|---|---|----------|----|--|------------|
|              | ØC        | D | E | ØF       | G  | ØC         | D | E | ØF       | G  | INLET (T)  | OUTLET (P) |
| 0025 to 0200 |           |   |   | M14 x150 | 12 |            |   |   | M14 x150 | 12 |  |            |

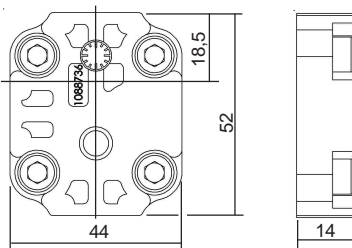
**F**  
(Threaded)



ØF effective depth G

REAR BODY

**L**  
Standard



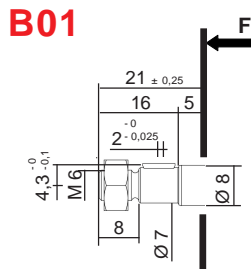
DRIVING SHAFT

Tapered  
**10**

Straight keyed  
**20**

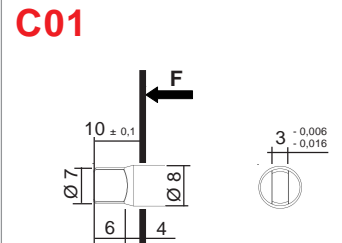
Splined  
**30**

Tang  
**40**



Delivered with Nut Ref.:K108328

Maxi transmissible torque  
**5 N.m**

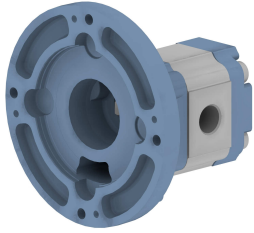


Maxi transmissible torque  
**6 N.m**

Dimensions readings and approximative characteristics subject to modifications.

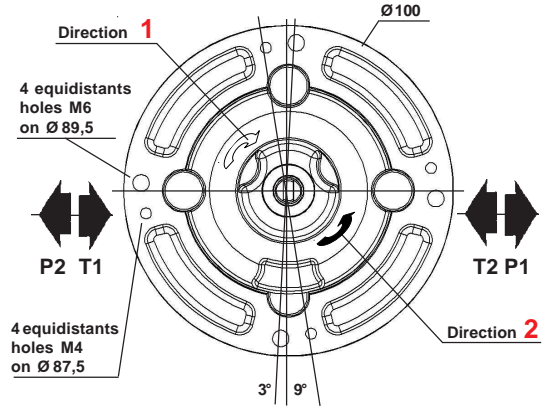
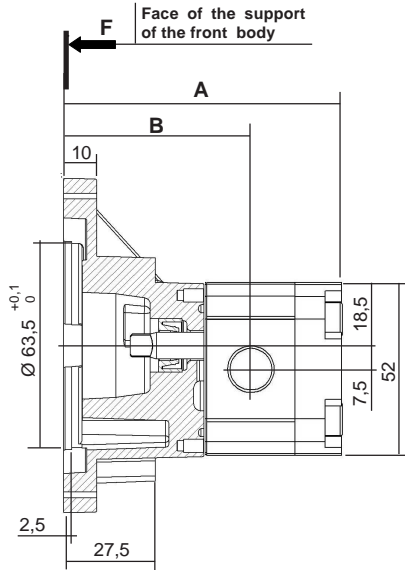
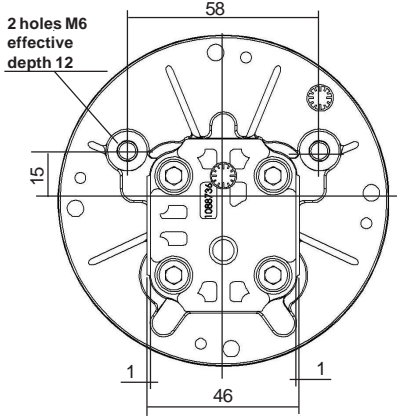
**F.T 00 1324 2/2**

Consult us for availability



**P** II Sign **CLS0** VI Sign **FL40C15** XII Sign

For CODIFICATION, see data sheet **F.T.R 0011**



Dimension readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 0025<br>0050<br>0075   | 82,6       | 55,2 |
| 0100<br>0125<br>0150   | 89         | 58,4 |
| 0200                   | 97,5       |      |

Multiple geared pumps, see data sheet **F.T 00 1292**

Seals kits:  
Nitrile: **K5073819**  
Viton: **K5073820**  
(For manufacture to since may 1991)

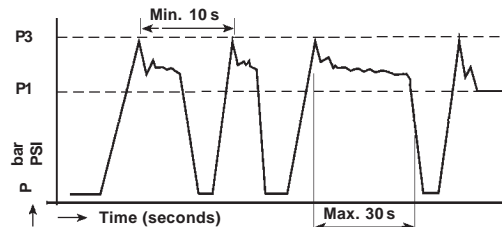
| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------|----------------------|----------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|       |                      | bar            | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Maxi speed |  |                                 |                      |
|       |                      |                |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| 0025  | 0,25                 | 280            | 4060 | 240                  | 3480 | 8000              | 0,37         | 2             | 0,05                                     | 0,47                            | 0,42                 |
| 0050  | 0,50                 | 280            | 4060 | 240                  | 3480 | 8000              | 0,75         | 4             | 0,10                                     | 0,94                            |                      |
| 0075  | 0,75                 | 250            | 3625 | 210                  | 3045 | 8000              | 1,12         | 6             | 0,15                                     | 1,40                            |                      |
| 0100  | 1                    | 250            | 3625 | 210                  | 3045 | 8000              | 1,50         | 8             | 0,20                                     | 1,87                            | 0,45                 |
| 0125  | 1,25                 | 200            | 2900 | 170                  | 2465 | 6000              | 1,87         | 7,5           | 0,25                                     | 2,34                            |                      |
| 0150  | 1,50                 | 150            | 2175 | 125                  | 1812 | 6000              | 2,25         | 9             | 0,29                                     | 2,81                            |                      |
| 0200  | 2                    | 125            | 1812 | 105                  | 1522 | 5000              | 3            | 10            | 0,39                                     | 3,74                            | 0,50                 |

**F.T 00 1415 1/2**

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES

**F**  
(Threaded)

$\varnothing F$   
effective  
depth G

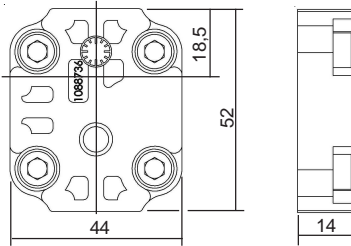


| Capacity                    | INLET (T) |   |   |             |    | OUTLET (P) |   |   |             |    | CATALOGUE N° 70<br>Ref. of RECOMMANDÉ FLANGES<br>(for speed 1500 rev / min) |            |
|-----------------------------|-----------|---|---|-------------|----|------------|---|---|-------------|----|---|------------|
|                             | ØC        | D | E | ØF          | G  | ØC         | D | E | ØF          | G  | INLET (T)   | OUTLET (P) |
| <b>0025<br/>to<br/>0200</b> |           |   |   | M14<br>x150 | 12 |            |   |   | M14<br>x150 | 12 |   |            |

REAR BODY

**L**

Standard



Dimension readings and approximative characteristics subject to modifications.

DRIVING SHAFT

Tapered

**10**

Straight keyed

**20**

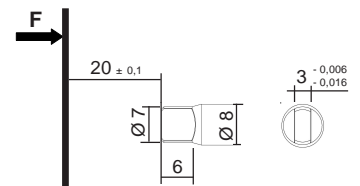
Splined

**30**

Tang

**40**

**C15**



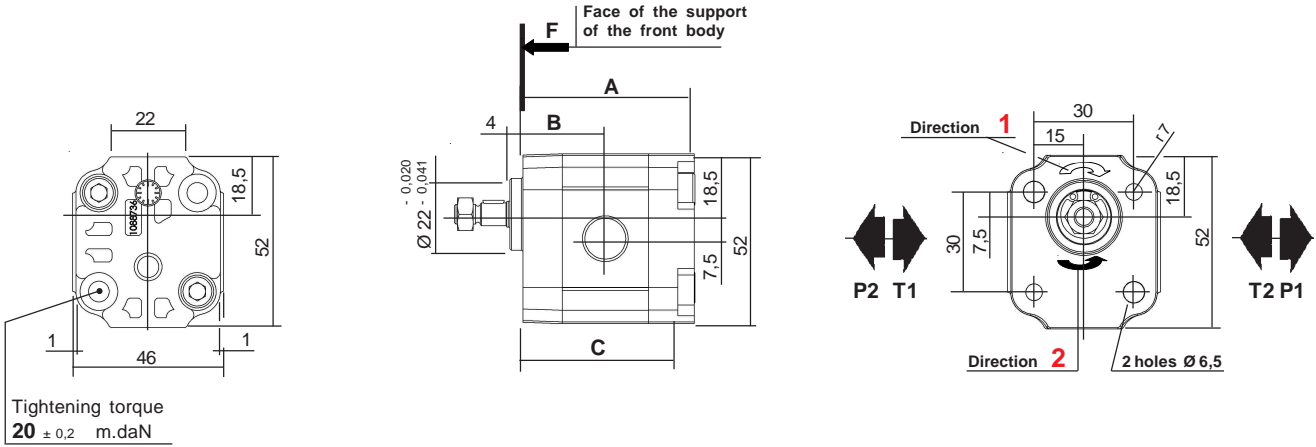
Max. transmissible torque  
**6 N.m**

**F.T 00 1415 2/2**



**P** II Sign **DCN 0** VI Sign **FL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |      |      |
|------------------------|------------|------|------|
|                        | A          | B    | C    |
| <b>0025</b>            | 52,6       | 25,2 | 46   |
| <b>0050</b>            |            |      |      |
| <b>0075</b>            |            |      |      |
| <b>0100</b>            | 59         | 28,4 | 52,5 |
| <b>0125</b>            |            |      |      |
| <b>0150</b>            |            |      |      |
| <b>0200</b>            | 67,5       | 32,6 | 70   |

Multiple geared pumps, see data sheet **F.T 00 1292**

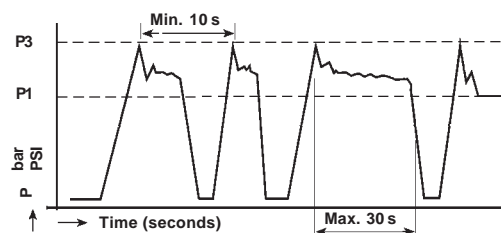
Seals kits:  
Nitrile: **K5073819**  
Viton: **K5073820**  
(For manufacture to since may 1991)

| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Maxi speed |  |                                 |                      |
|             |                      |                |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| <b>0025</b> | 0,25                 | 280            | 4060 | 240                  | 3480 | 8000              | 0,37         | 2             | 0,05                                     | 0,47                            | 0,42                 |
| <b>0050</b> | 0,50                 | 280            | 4060 | 240                  | 3480 | 8000              | 0,75         | 4             | 0,10                                     | 0,94                            |                      |
| <b>0075</b> | 0,75                 | 250            | 3625 | 210                  | 3045 | 8000              | 1,12         | 6             | 0,15                                     | 1,40                            |                      |
| <b>0100</b> | 1                    | 250            | 3625 | 210                  | 3045 | 8000              | 1,50         | 8             | 0,20                                     | 1,87                            | 0,45                 |
| <b>0125</b> | 1,25                 | 200            | 2900 | 170                  | 2465 | 6000              | 1,87         | 7,5           | 0,25                                     | 2,34                            |                      |
| <b>0150</b> | 1,50                 | 150            | 2175 | 125                  | 1812 | 6000              | 2,25         | 9             | 0,29                                     | 2,81                            |                      |
| <b>0200</b> | 2                    | 125            | 1812 | 105                  | 1522 | 5000              | 3            | 10            | 0,39                                     | 3,74                            | 0,50                 |

P1 Maximum pressure in continuous duty.  
 $P1 = 0,75 \times P3$

P3 Allowable peak pressure.

Maximum Pressure ⇒



**F.T 00 1291 1/2**

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES

| Capacity           | INLET (T) |   |   |             |    | OUTLET (P) |   |   |             |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |            |
|--------------------|-----------|---|---|-------------|----|------------|---|---|-------------|----|--|------------|
|                    | ØC        | D | E | ØF          | G  | ØC         | D | E | ØF          | G  | INLET (T)  | OUTLET (P) |
| 0025<br>to<br>0200 |           |   |   | M14<br>x150 | 12 |            |   |   | M14<br>x150 | 12 |  |            |

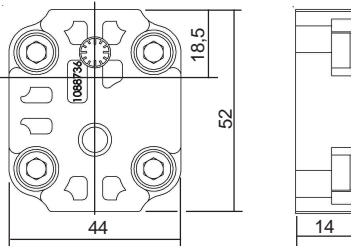
**F**  
(Threaded)

ØF  
effective  
depth G



REAR BODY

**L**  
Standard



Dimensions readings and approximative characteristics subject to modifications.

DRIVING SHAFT

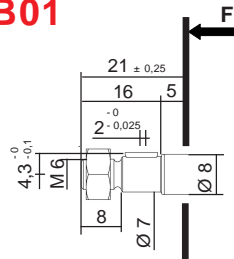
Tapered  
**10**

Straight keyed  
**20**

Splined  
**30**

Tang  
**40**

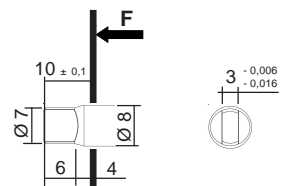
**B01**



Delivered with Nut Ref.: K108328

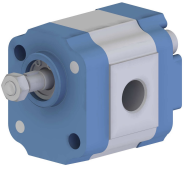
**Maxi transmissible torque**  
**5 N.m**

**C01**



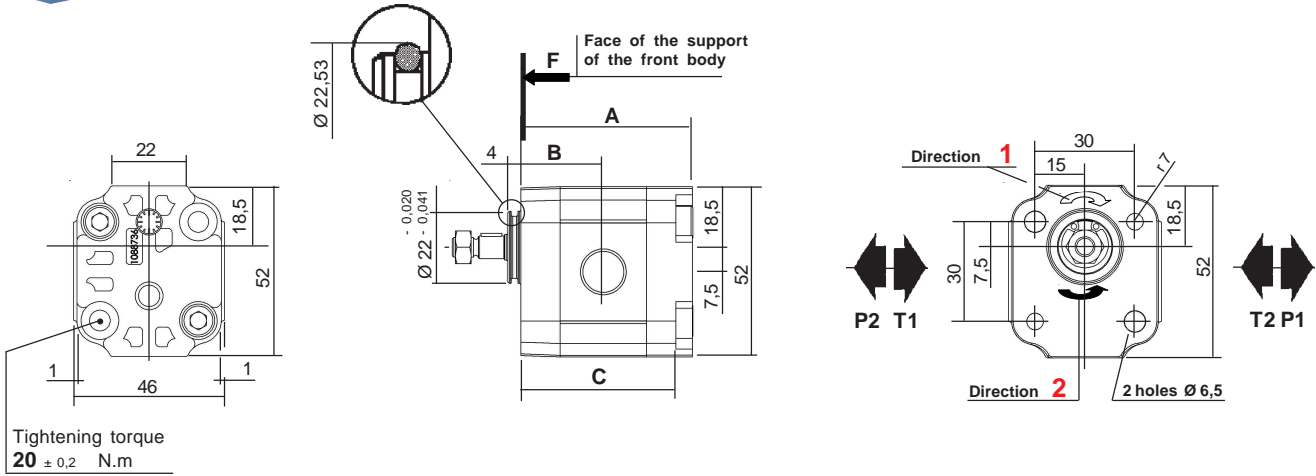
**Maxi transmissible torque**  
**6 N.m**

**F.T 00 1291 2/2**



**P** II Sign **DC K 0** VI Sign **F L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |      |      |
|------------------------|------------|------|------|
|                        | A          | B    | C    |
| 0025<br>0050<br>0075   | 52,6       | 25,2 | 46   |
| 0100<br>0125<br>0150   | 59         | 28,4 | 52,5 |
| 0200                   | 67,5       | 32,6 | 70   |

Multiple geared pumps,  
see data sheet **F.T 00 1292**

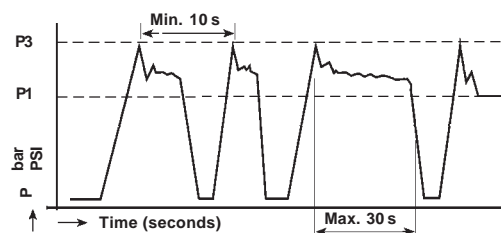
Seals kits:  
Nitrile: **K5073819 + K100256**  
Viton: **K5073820 + K105494**  
(For manufacture to since may 1991)

| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |         | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------|----------------------|----------------|------|----------------------|---------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|       |                      | bar            | PSI  | bar                  | PSI     |                   | at 1500 RPM  | at Maxi speed |  |                                 |                      |
|       |                      |                |      | l / min              | l / min |                   |              |               |  |                                 |                      |
| 0025  | 0,25                 | 280            | 4060 | 240                  | 3480    | 8000              | 0,37         | 2             | 0,05                                     | 0,47                            | 0,42                 |
| 0050  | 0,50                 | 280            | 4060 | 240                  | 3480    | 8000              | 0,75         | 4             | 0,10                                     | 0,94                            |                      |
| 0075  | 0,75                 | 250            | 3625 | 210                  | 3045    | 8000              | 1,12         | 6             | 0,15                                     | 1,40                            |                      |
| 0100  | 1                    | 250            | 3625 | 210                  | 3045    | 8000              | 1,50         | 8             | 0,20                                     | 1,87                            | 0,45                 |
| 0125  | 1,25                 | 200            | 2900 | 170                  | 2465    | 6000              | 1,87         | 7,5           | 0,25                                     | 2,34                            |                      |
| 0150  | 1,50                 | 150            | 2175 | 125                  | 1812    | 6000              | 2,25         | 9             | 0,29                                     | 2,81                            |                      |
| 0200  | 2                    | 125            | 1812 | 105                  | 1522    | 5000              | 3            | 10            | 0,39                                     | 3,74                            | 0,50                 |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



**F.T 00 1325 1/2**

Consult us for availability

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES

| Capacity     | INLET (T) |   |   |          |    | OUTLET (P) |   |   |          |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |            |
|--------------|-----------|---|---|----------|----|------------|---|---|----------|----|--|------------|
|              | ØC        | D | E | ØF       | G  | ØC         | D | E | ØF       | G  | INLET (T)  | OUTLET (P) |
| 0025 to 0200 |           |   |   | M14 x150 | 12 |            |   |   | M14 x150 | 12 |  |            |

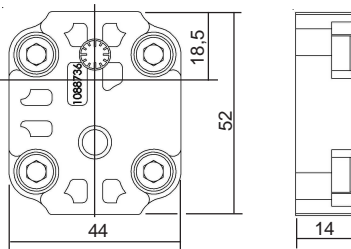
**F**  
(Threaded)

ØF  
effective depth G



REAR BODY

**L**  
Standard



Dimensions readings and approximative characteristics subject to modifications.

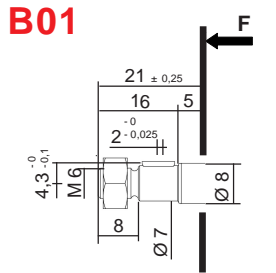
DRIVING SHAFT

Tapered  
**10**

Straight keyed  
**20**

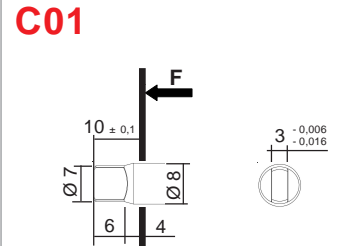
Splined  
**30**

Tang  
**40**



Delivered with Nut Ref.:K108328

**Maxi transmissible torque**  
**5 N.m**



**Maxi transmissible torque**  
**6 N.m**

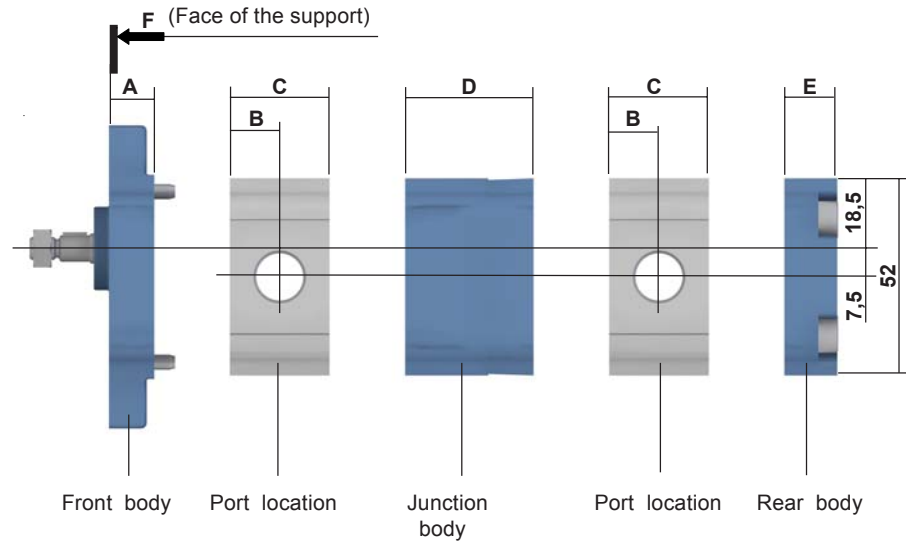
**F.T 00 1325 2/2**

Consult us for availability





For CODIFICATION, see data sheet **F.T R 0030**

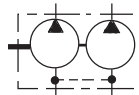


|                        |    |
|------------------------|----|
| Front bodies           | A  |
| AAN / AAK<br>DCN / DCK | 12 |

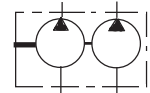
|              |      |      |    |    |
|--------------|------|------|----|----|
| Capacity     | B    | C    | D  | E  |
| 0025 to 0050 | 13,2 | 26,4 |    |    |
| 0075 to 0150 | 16,4 | 32,8 | 34 | 14 |
| 0200         | 20,6 | 41,2 |    |    |

**JUNCTION BODY (Schematic examples for 2 elements pumps)**

**Code D** Independant inlet side  
(communication of leaks)  
(Oil and tank to be necessarily)



**Code E** Tightness between ports



Possible combinations of junctions up to 5 elements

**CALCULATION TORQUE**

Q Capacity in cc / rev

P Pressure in bar

$\eta_m$  Mechanical efficiency  
(see catalogue C10)

Calculation of the torque for one pump body:  $\frac{1,59 \times Q \times P}{1000 \times \eta_m} = C \text{ (N.m)}$

Example : P 1 DCN 0100 F A 0075 F L 20 B01 Pressure: 0100: 200 bar Speed: 1000 RPM  
0075: 100 bar

$$\frac{1,59 \times 1 \times 150}{1000 \times 0,98} = 2,4 \text{ N.m}$$

$$\frac{1,59 \times 0,75 \times 150}{1000 \times 0,93} = 1,9 \text{ N.m}$$

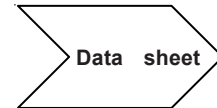
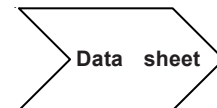
= **4,3 N.m** → Total torque

Dimensions readings and approximative characteristics subject to modifications.

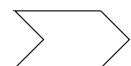
F.T 00 1292



Consult us for availability

**PUMPS PRESENTATION**  
**SERIES 1****F.T 10 1293****PUMP AAN****F.T 10 1294****PUMP AAK****F.T 10 1326****PUMP BAN****F.T 10 1295****PUMP CBN****F.T 10 1296****PUMP CBK****F.T 10 1327**

Consult us for availability



PUMP

**DCN**



**F.T 10 1297**

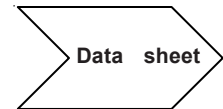
PUMP

**DCK**




**F.T 10 1328**

MULTIPLES PUMPS



**F.T 10 1298**



 Consult us for availability

| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Maxi speed |  |                                 |                      |
|             |                      |                |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| <b>1001</b> | 1,02                 | 300            | 4350 | 255                  | 3697 | 8000              | 1,53         | 8,16          | 0,32   | 0,30                            | 0,9                  |
| <b>1002</b> | 2,05                 | 300            | 4350 | 255                  | 3697 | 8000              | 3,07         | 16,4          | 0,48   | 0,46                            |                      |
| <b>1003</b> | 3,07                 | 300            | 4350 | 255                  | 3697 | 7000              | 4,60         | 21,4          | 0,67   | 0,64                            |                      |
| <b>1004</b> | 4,09                 | 250            | 3625 | 215                  | 3117 | 6000              | 6,13         | 24,5          | 0,87   | 0,83                            | 1,1                  |
| <b>1005</b> | 5,12                 | 200            | 2900 | 170                  | 2465 | 6000              | 7,68         | 30,7          | 1,07   | 1,02                            |                      |
| <b>1006</b> | 6,14                 | 150            | 2175 | 125                  | 1812 | 6000              | 9,21         | 30,7          | 1,22   | 1,16                            |                      |

The pump can only run in one way rotation (Precise the direction of rotation on order).  
The working cycles hereunder are possible with hydraulic mineral oil for viscosities between 12 and 150 cSt (65,2 and 700 SUS).  
The minimum viscosity of 12 cSt (65,2 SUS) is available for a maximum temperature in the hydraulic circuit .  
Working temperature: - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C (284 °F) with Viton shaft seal).  
Full flow filtration: 10 to 15 microns at the pressure port of the pump or on the return circuit.  
Filtration on the suction side: 125 microns.  
Pressure at the inlet of the pump:

- Minimum 0,7 bar absolute (Maxi depressure 300 millibar with regard to the air pressure).
- Maximum 2 bar absolute or 1 bar over the air pressure.

The hereabove characteristics concern the pumps driven by elastic couplings perfectly aligned without any external radial or axial force.

For any other coupling, see technical data sheet F.T R 0009.

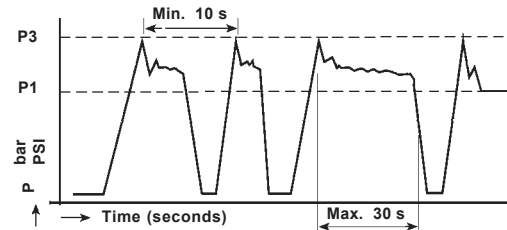
For use at maximum working conditions and/or intensive cycles, thanks to consult our technical sales service for validation.

Dimensions readings and approximative characteristics subject to modifications.

**P1** Maximum pressure in continuous duty.

Maximum Pressure ⇒

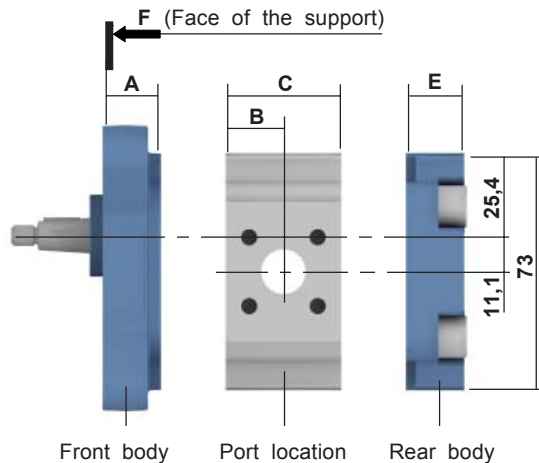
**P3** Allowable peack pressure.



|   |    |
|---|----|
| Front bodies:   | A  |
| <b>AA</b> N / <b>AA</b> K - <b>B</b> AN - <b>C</b> BN / <b>CB</b> K | 18 |
| <b>DC</b> N / <b>DC</b> K   |    |

|                           |      |      |
|---------------------------|------|------|
| Port location (capacity): | B    | C    |
| <b>1001 - 1002 - 1003</b> | 17,9 | 35,8 |
| <b>1004 - 1005 - 1006</b> | 22,7 | 45,6 |

|   |    |
|---|----|
| Rear bodies:  | E  |
| <b>L</b> - <b>A</b> - <b>X</b> - <b>T</b> - <b>V</b> - <b>W</b> | 18 |



  Consult us for availability

**P** II Sign III Sign IV Sign **1** VI Sign VII Sign VIII Sign IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**

| DIRECTION of ROTATION<br>( II Sign ) | FLAT FRONT BODIES<br>( III and IV Sign ) | CAPACITY<br>( V and VI Sign ) | PORT LOCATION<br>( VII Sign ) |   |   | REAR BODIES<br>( VIII Sign ) |   |   |   |   |   | DRIVING SHAFTS<br>( IX , X and XI Sign ) |               |                      |               |            |  |
|--------------------------------------|--|-------------------------------|-------------------------------|---|---|------------------------------|---|---|---|---|---|--|---------------|----------------------|---------------|------------|--|
|                                      |  |                               | C                             | F | X | L                            | A | X | T | V | W | J*                                       | TAPERED<br>10 | STRAIGHT KEYED<br>20 | SPLINED<br>30 | TANG<br>40 |  |
| X                                    | X  | <b>AA</b> / <b>AAK</b>        |                               |   |   |                              |   |   |   |   |   |  |               |                      |               |            |  |
| X                                    | X  | <b>BAN</b>                    | 1001                          |   |   |                              |   |   |   |   |   |  |               |                      |               |            |  |
| X                                    | X  | <b>CBN</b> / <b>CBK</b>       | 1002                          |   |   |                              |   |   |   |   |   |  |               |                      |               |            |  |
| X                                    | X  |                               | 1003                          |   |   |                              |   |   |   |   |   |  |               |                      |               |            |  |
| X                                    | X  | <b>DCN</b> / <b>DCK</b>       | 1004                          |   |   |                              |   |   |   |   |   |  |               |                      |               |            |  |
| X                                    | X  |                               | 1005                          |   |   |                              |   |   |   |   |   |  |               |                      |               |            |  |
| X                                    | X  |                               | 1006                          |   |   |                              |   |   |   |   |   |  |               |                      |               |            |  |
| X                                    | X  |                               |                               |   |   |                              |   |   |   |   |   |  |               |                      |               |            |  |

Dimensions readings and approximative characteristics subject to modifications.

**LEGENDES**

**DIRECTION of ROTATION**

**P1** = Clockwise  
**P2** = Anti clockwise

**FRONT BODIES**

**AA\*** = Fixing SAE and ISO  
**BA\*** = Fixing English and Italian  
**CB\*** = Fixing French  
**DC\*** = Fixing German

**PORT LOCATION**


**C** = Square location  
**F** = Threaded ports  
**X** = without ports

**REAR BODIES**

**L** = Standard  
**A** = with rear ports  
**X** = high pressure relief valve, internal return  
**T** = high pressure relief valve, external return  
**V** = low pressure relief valve, internal return  
**W** = low pressure relief valve, external return  
**J\*** = Pre-arrangement for assembling "Module 3"  
see F.T 10 1352 page

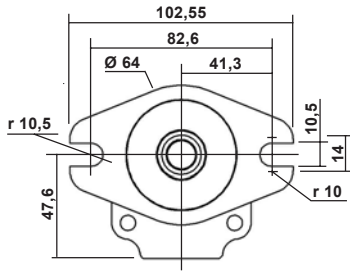
F.T 10 1293 2/7

F.T 10 1293 3/7

 Consult us for availability

**FRONT BODIES**

**AAN / AAK**

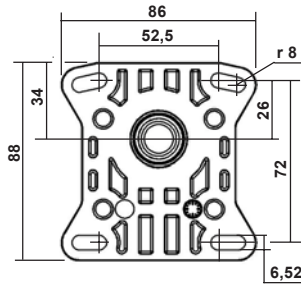


Centering:  $\varnothing 50,8^{0}_{-0,05}$   
Thickness: 6

AAN: F.T 10 1294

**AAK: F.T 10 1326**

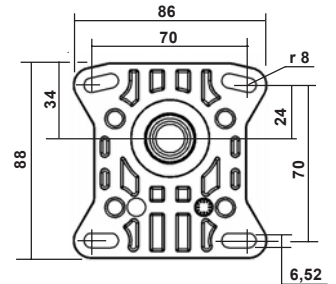
**BAN**



Centering:  $\varnothing 25,35^{0,02}_{-0,041}$   
Thickness: 4

BAN: F.T 10 1295

**CBN / CBK**

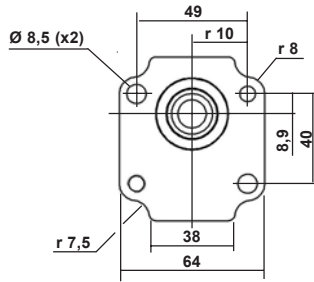


Centering:  $\varnothing 35^{0,025}_{-0,05}$   
Thickness: 4

CBN: F.T 10 1296

**CBK: F.T 10 1327**

**DCN / DCK**



Centering:  $\varnothing 32^{0,025}_{-0,05}$   
Thickness: 4

DCN: F.T 10 1297

**DCK: F.T 10 1328**

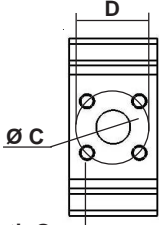
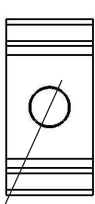
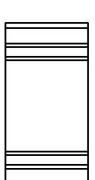
Dimensions readings and approximative characteristics subject to modifications.

**F.T 10 1293 4/7**

Consult us for availability

**CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES**

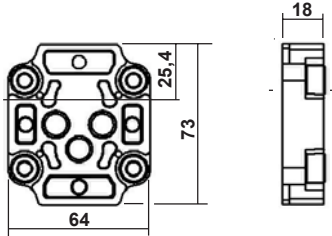
Dimensions readings and approximative characteristics subject to modifications.

| Capacity   | INLET (T)  |    |    |          |    | OUTLET (P) |    |    |          |    | CATALOGUE N° 70<br>Ref. of RECOMMANDÉD FLANGES<br>(for speed 1500 rev / min) |   |
|--|--|----|----|----------|----|------------|----|----|----------|----|--|---|
|  | ØC   | D  | E  | ØF       | G  | ØC         | D  | E  | ØF       | G  | INLET (T)  | OUTLET (P)                                |
|  | <p><b>C</b><br/>(Square)</p>  | 14 | 30 |          | M6 | 13         | 14 | 30 |          | M6 | 13   | 1 / 4 " BSP<br>N: 1.505878<br>V: 1.504770 |
| <p><b>F</b><br/>(Threaded)</p>     |  |    |    | 3/8" BSP | 12 |            |    |    | 3/8" BSP | 12 |  |   |
| <p><b>X</b><br/>(with ports)</p>  |  |    |    | 1/2" BSP | 14 |            |    |    | 3/8" BSP | 12 |  |   |
| <p>1001 to 1003</p> <p>1004 to 1006</p>  |  |    |    |          |    |            |    |    |          |    | 3 / 8 " BSP<br>N: 1.500293<br>V: 1.505027                                    | 1 / 4 " BSP<br>N: 1.505878<br>V: 1.504770 |
| 1001 to 1006   | Only with rear body Type A   |    |    |          |    |            |    |    |          |    |  |   |

**REAR BODIES**

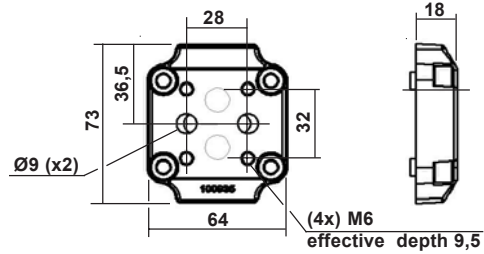
**L**

Standard



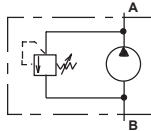
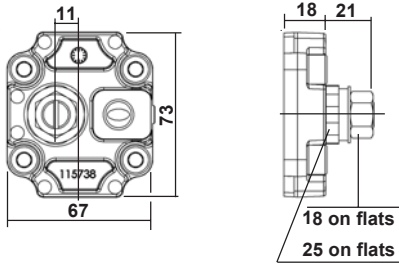
**A**

Rear ports



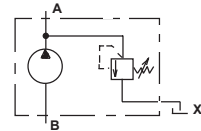
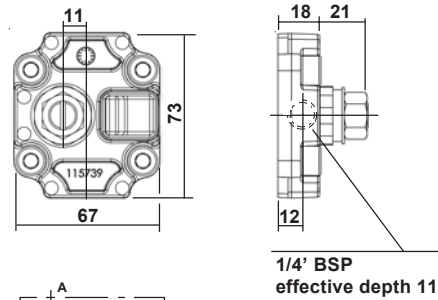
**X**

high pressure relief valve,  
internal return



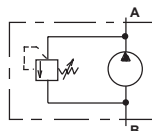
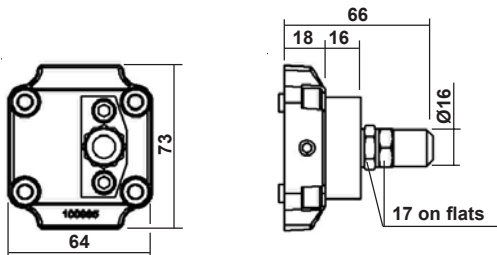
**T**

high pressure relief valve,  
external return



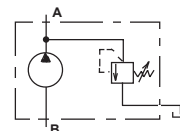
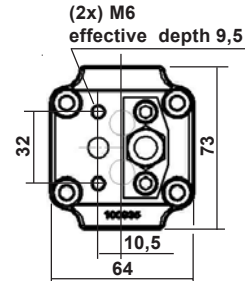
**V**

low pressure relief valve,  
internal return



**W**

low pressure relief valve,  
external return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 10 1293 6/7**



Consult us for availability

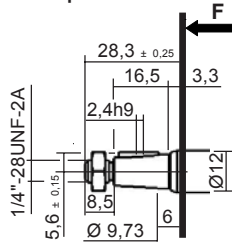


**DRIVING SHAFTS**

**Tapered**

**10**

**B01** Taper 1 / 8



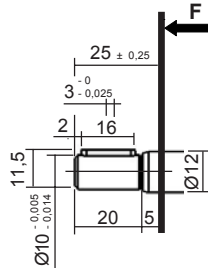
Delivered with nut: K101719

**Max. transmissible torque**  
**40 N.m**

**Straight keyed**

**20**

**C01**

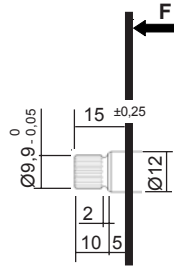


**Max. transmissible torque**  
**25 Nm**

**Splined**

**30**

**C01**



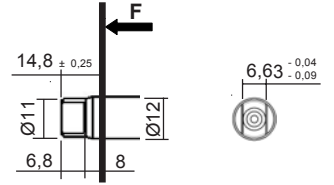
involute spline to shaft  
10 x 18 x 0,5  
to norm NF E 22 141 - BNA 455  
Spigot on free flanks

**Max. transmissible torque**  
**25 N.m**

**Tang**

**40**

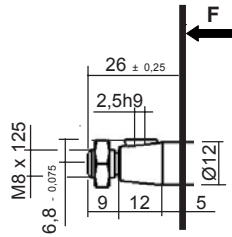
**A01**



**Max. transmissible torque**  
**30 N.m**

Dimensions readings and approximative characteristics subject to modifications.

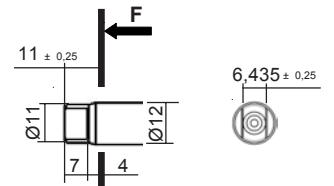
**C01** Taper 1 / 5



Delivered with nut: K105890

**Max. transmissible torque**  
**50 N.m**

**C02**



**Max. transmissible torque**  
**30 N.m**

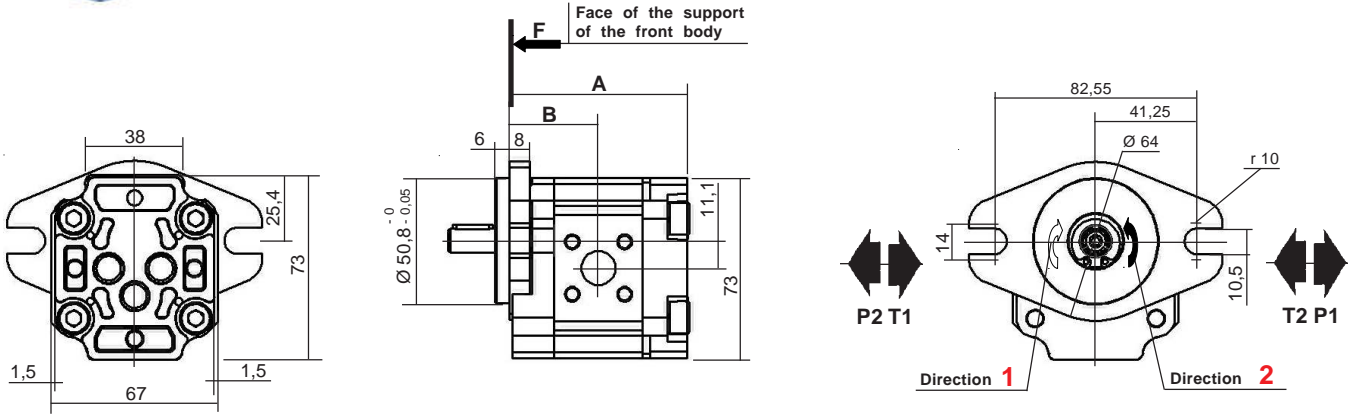
**F.T 10 1293 7/7**



Consult us for availability

**P** II Sign **AA** **N** **1** VI Sign VII Sign **L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 1001<br>1002<br>1003   | 71,8       | 35,9 |
| 1004<br>1005<br>1006   | 81,5       | 40,7 |

Multiple geared pumps, see data sheet **F.T 10 1298**

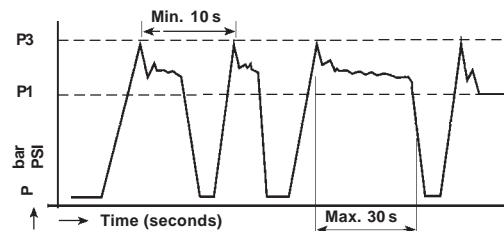
Seals kits:  
Nitrile: **K5074037**  
Viton: **K5074038**  
(For manufacture to since October 1991)

| MODEL | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|       |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|       |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| 1001  | 1,02                 | 300           | 4350 | 255                  | 3697 | 8000              | 1,53         | 8,16          | 0,32   | 0,30                                  | 0,9                  |
| 1002  | 2,05                 | 300           | 4350 | 255                  | 3697 | 8000              | 3,07         | 16,4          | 0,48   | 0,46                                  |                      |
| 1003  | 3,07                 | 300           | 4350 | 255                  | 3697 | 7000              | 4,60         | 21,4          | 0,67   | 0,64                                  |                      |
| 1004  | 4,09                 | 250           | 3625 | 215                  | 3117 | 6000              | 6,13         | 24,5          | 0,87   | 0,83                                  | 1,1                  |
| 1005  | 5,12                 | 200           | 2900 | 170                  | 2465 | 6000              | 7,68         | 30,7          | 1,07   | 1,02                                  |                      |
| 1006  | 6,14                 | 150           | 2175 | 125                  | 1812 | 6000              | 9,21         | 30,7          | 1,22   | 1,16                                  |                      |

P1 Maximum pressure in continuous duty.

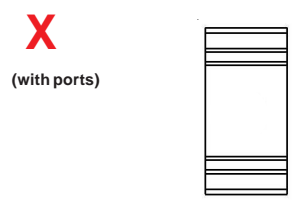
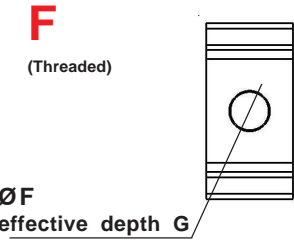
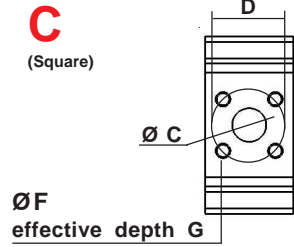
Maximum Pressure ⇒

P3 Allowable peak pressure.



**F.T 10 1294 1/4**

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |    |   |          |    | OUTLET (P) |    |   |          |    | CATALOGUE N° 70<br>Ref. of RECOMMANDÉD FLANGES<br>(for speed 1500 rev / min) |   |
|--------------|----------------------------|----|---|----------|----|------------|----|---|----------|----|--|---|
|              | ØC                         | D  | E | ØF       | G  | ØC         | D  | E | ØF       | G  | INLET (T)  | OUTLET (P)                                |
| 1001 to 1003 | 14                         | 30 |   | M6       | 13 | 14         | 30 |   | M6       | 13 | 1 / 4 " BSP<br>N: 1.505878<br>V: 1.504770                                    | 1 / 4 " BSP<br>N: 1.505878<br>V: 1.504770 |
| 1004 to 1006 |                            |    |   |          |    |            |    |   |          |    | 3 / 8 " BSP<br>N: 1.500293<br>V: 1.505027                                    | 1 / 4 " BSP<br>N: 1.505878<br>V: 1.504770 |
| 1001 to 1003 |                            |    |   | 3/8" BSP | 12 |            |    |   | 3/8" BSP | 12 |  |   |
| 1004 to 1006 |                            |    |   | 1/2" BSP | 14 |            |    |   | 3/8" BSP | 12 |  |   |
| 1001 to 1006 | Only with rear body Type A |    |   |          |    |            |    |   |          |    |  |   |

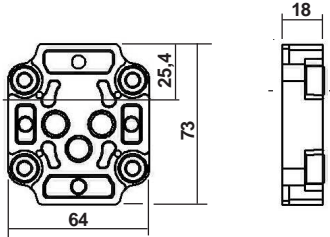
Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

**F.T 10 1294 2/4**

REAR BODIES

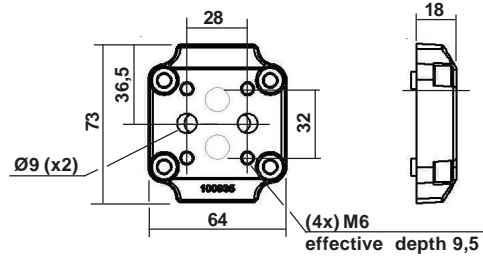
**L**

Standard



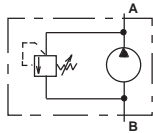
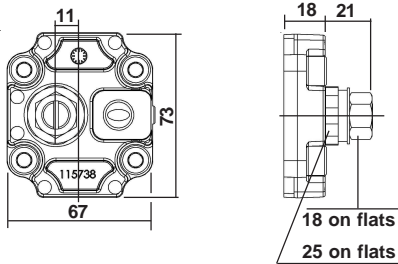
**A**

Rear ports



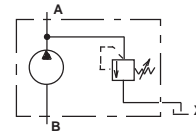
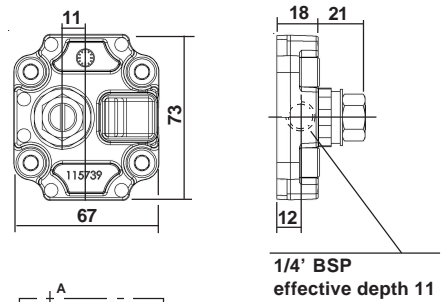
**X**

high pressure relief valve,  
internal return



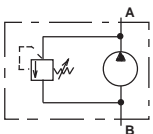
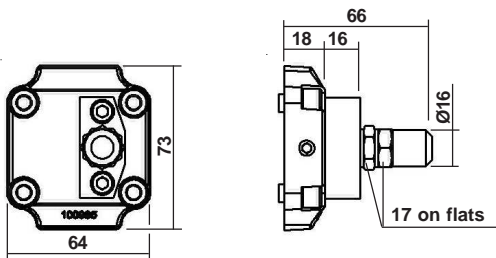
**T**

high pressure relief valve,  
external return



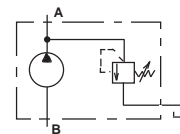
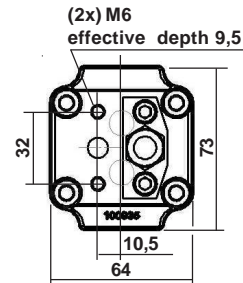
**V**

low pressure relief valve,  
internal return



**W**

low pressure relief valve,  
external return



Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

F.T 10 1294 3/4

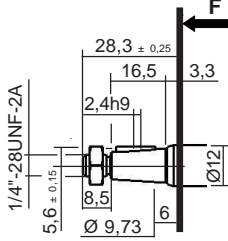
Consult us for availability

DRIVING SHAFTS

Tapered

**10**

**B01** Taper 1 / 8



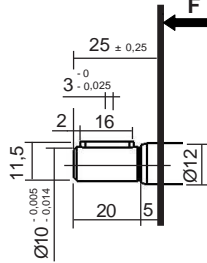
Delivered with nut: K101719

**Max. transmissible torque**  
**40 N.m**

Straight keyed

**20**

**C01**

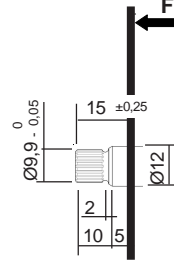


**Max. transmissible torque**  
**25 Nm**

Splined

**30**

**C01**



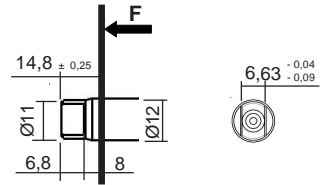
involute spline to shaft  
10 x 18 x 0,5  
to norm NFE 22 141 - BNA 455  
Spigot on free flanks

**Max. transmissible torque**  
**25 N.m**

Tang

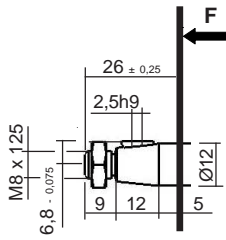
**40**

**A01**



**Max. transmissible torque**  
**30 N.m**

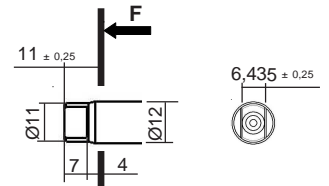
**C01** Taper 1 / 5



Delivered with nut: K105890

**Max. transmissible torque**  
**50 N.m**

**C02**



**Max. transmissible torque**  
**30 N.m**

Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

**F.T 10 1294 4/4**



Consult us for availability

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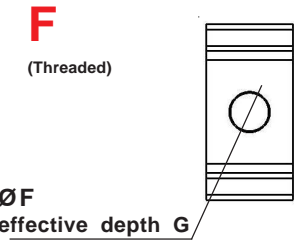
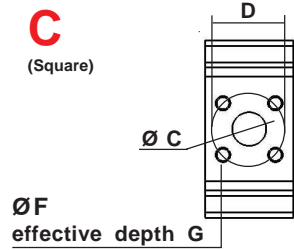
previous

next

main dimensions



CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |    |   |          |    | OUTLET (P) |    |   |          |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |   |
|--------------|----------------------------|----|---|----------|----|------------|----|---|----------|----|--|---|
|              | ØC                         | D  | E | ØF       | G  | ØC         | D  | E | ØF       | G  | INLET (T)  | OUTLET (P)                                |
| 1001 to 1003 | 14                         | 30 |   | M6       | 13 | 14         | 30 |   | M6       | 13 | 1 / 4 " BSP<br>N: 1.505878<br>V: 1.504770                                    | 1 / 4 " BSP<br>N: 1.505878<br>V: 1.504770 |
| 1004 to 1006 |                            |    |   |          |    |            |    |   |          |    | 3 / 8 " BSP<br>N: 1.500293<br>V: 1.505027                                    | 1 / 4 " BSP<br>N: 1.505878<br>V: 1.504770 |
| 1001 to 1003 |                            |    |   | 3/8" BSP | 12 |            |    |   | 3/8" BSP | 12 |  |   |
| 1004 to 1006 |                            |    |   | 1/2" BSP | 14 |            |    |   | 3/8" BSP | 12 |  |   |
| 1001 to 1006 | Only with rear body Type A |    |   |          |    |            |    |   |          |    |  |   |

Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

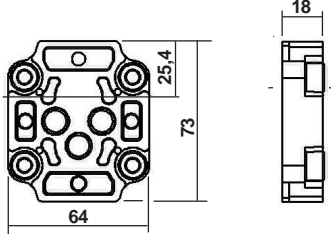
**F.T 10 1326 2/4**

Consult us for availability

REAR BODIES

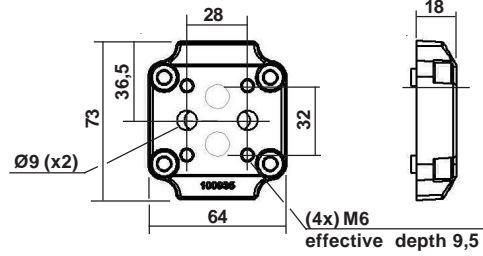
**L**

Standard



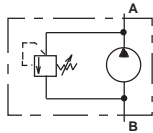
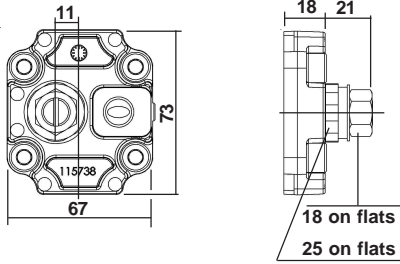
**A**

Rear ports



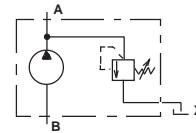
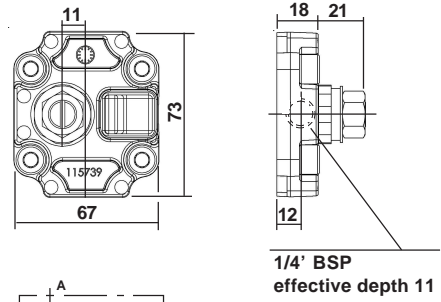
**X**

high pressure relief valve,  
internal return



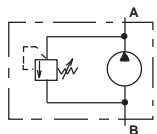
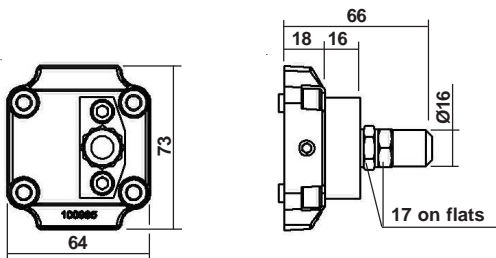
**T**

high pressure relief valve,  
external return



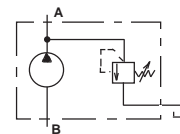
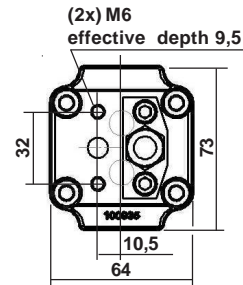
**V**

low pressure relief valve,  
internal return



**W**

low pressure relief valve,  
external return



Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

F.T 10 1326 3/4

Consult us for availability

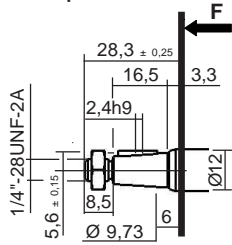


DRIVING SHAFTS

Tapered

10

**B01** Taper 1 / 8



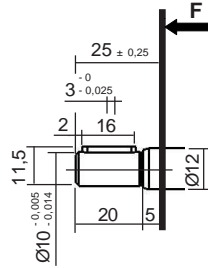
Delivered with nut: K101719

**Max. transmissible torque**  
**40 N.m**

Straight keyed

20

**C01**

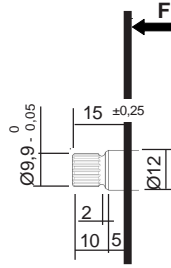


**Max. transmissible torque**  
**25 Nm**

Splined

30

**C01**



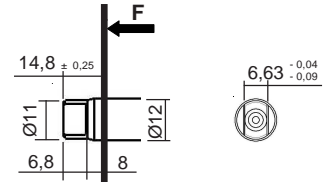
involute spline to shaft  
10 x 18 x 0,5  
to norm NF E 22 141 - BNA 455  
Spigot on free flanks

**Max. transmissible torque**  
**25 N.m**

Tang

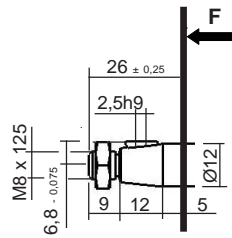
40

**A01**



**Max. transmissible torque**  
**30 N.m**

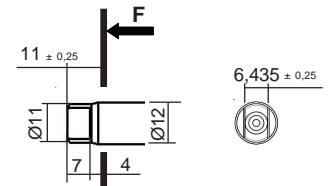
**C01** Taper 1 / 5



Delivered with nut: K105890

**Max. transmissible torque**  
**50 N.m**

**C02**



**Max. transmissible torque**  
**30 N.m**

Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

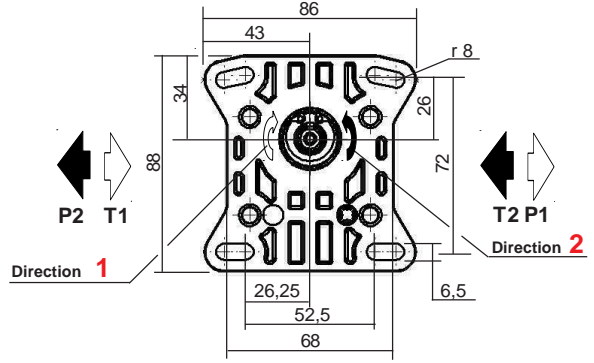
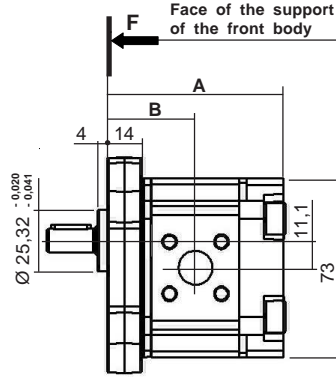
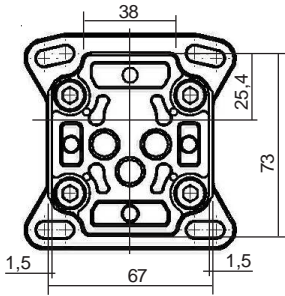
F.T 10 1326 4/4



Consult us for availability

P II Sign BAN 1 VI Sign VII Sign L IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet F.T R 0011



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 1001<br>1002<br>1003   | 71,8       | 35,9 |
| 1004<br>1005<br>1006   | 81,5       | 40,7 |

Multiple geared pumps, see data sheet F.T 10 1298

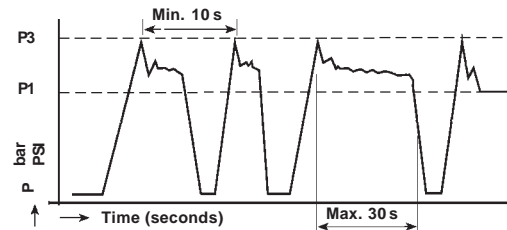
Seals kits:  
Nitrile: K5074037  
Viton: K5074038  
(For manufacture to since October 1991)

| MODEL | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|       |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|       |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| 1001  | 1,02                 | 300           | 4350 | 255                  | 3697 | 8000              | 1,53         | 8,16          | 0,32   | 0,30                                  | 0,9                  |
| 1002  | 2,05                 | 300           | 4350 | 255                  | 3697 | 8000              | 3,07         | 16,4          | 0,48   | 0,46                                  |                      |
| 1003  | 3,07                 | 300           | 4350 | 255                  | 3697 | 7000              | 4,60         | 21,4          | 0,67   | 0,64                                  |                      |
| 1004  | 4,09                 | 250           | 3625 | 215                  | 3117 | 6000              | 6,13         | 24,5          | 0,87   | 0,83                                  | 1,1                  |
| 1005  | 5,12                 | 200           | 2900 | 170                  | 2465 | 6000              | 7,68         | 30,7          | 1,07   | 1,02                                  |                      |
| 1006  | 6,14                 | 150           | 2175 | 125                  | 1812 | 6000              | 9,21         | 30,7          | 1,22   | 1,16                                  |                      |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



F.T 10 1295 1/4

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES

CATALOGUE N° 70  
Ref. of RECOMMENDED FLANGES  
(for speed 1500 rev / min)

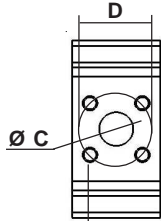
INLET (T)      OUTLET (P)

1 / 4 " BSP      1 / 4 " BSP  
N: 1.505878      N: 1.505878  
V: 1.504770      V: 1.504770

3 / 8 " BSP      1 / 4 " BSP  
N: 1.500293      N: 1.505878  
V: 1.505027      V: 1.504770

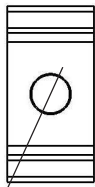
| Capacity     | INLET (T)                  |    |   |          |    | OUTLET (P) |    |   |          |    |
|--------------|----------------------------|----|---|----------|----|------------|----|---|----------|----|
|              | ØC                         | D  | E | ØF       | G  | ØC         | D  | E | ØF       | G  |
| 1001 to 1003 | 14                         | 30 |   | M6       | 13 | 14         | 30 |   | M6       | 13 |
| 1004 to 1006 |                            |    |   |          |    |            |    |   |          |    |
| 1001 to 1003 |                            |    |   | 3/8" BSP | 12 |            |    |   | 3/8" BSP | 12 |
| 1004 to 1006 |                            |    |   | 1/2" BSP | 14 |            |    |   | 3/8" BSP | 12 |
| 1001 to 1006 | Only with rear body Type A |    |   |          |    |            |    |   |          |    |

**C**  
(Square)



ØF  
effective depth G

**F**  
(Threaded)



ØF  
effective depth G

**X**

(with ports)

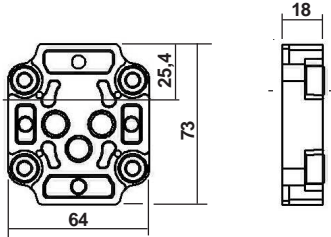


Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

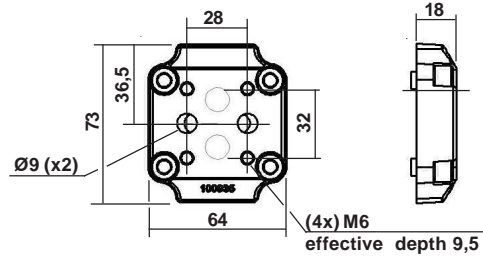
F.T 10 1295 2/4

REAR BODIES

**L**  
Standard



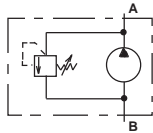
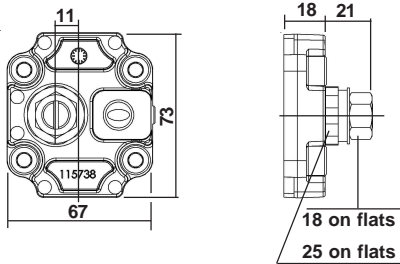
**A**  
Rear ports



Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

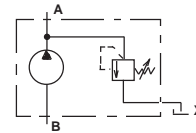
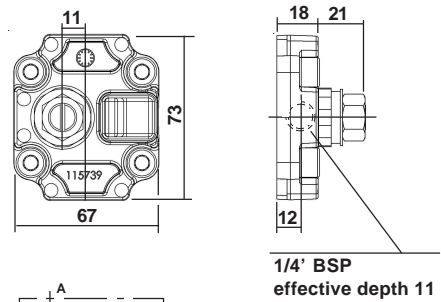
**X**

high pressure relief valve,  
internal return



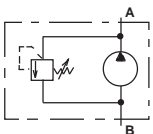
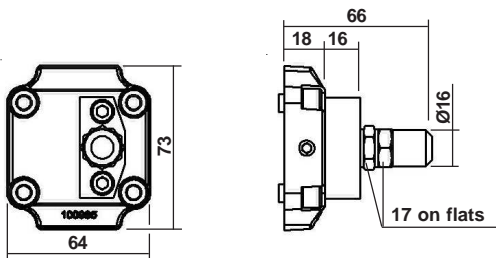
**T**

high pressure relief valve,  
external return



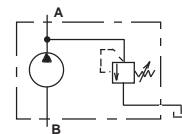
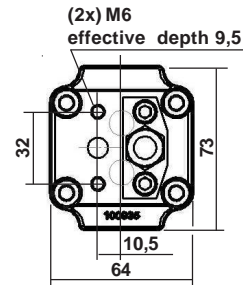
**V**

low pressure relief valve,  
internal return



**W**

low pressure relief valve,  
external return



Consult us for availability

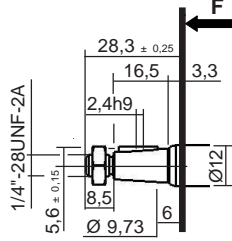
**F.T 10 1295 3/4**

DRIVING SHAFTS

Tapered

**10**

**B01** Taper 1 / 8



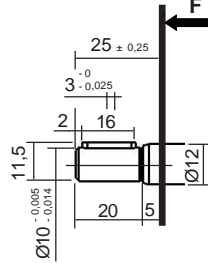
Delivered with nut: K101719

**Max. transmissible torque**  
**40 N.m**

Straight keyed

**20**

**C01**

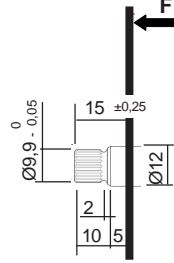


**Max. transmissible torque**  
**25 Nm**

Splined

**30**

**C01**



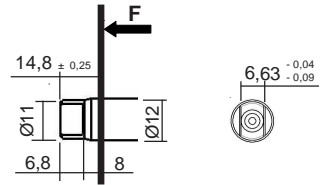
involute spline to shaft  
10 x 18 x 0,5  
to norm NFE 22 141 - BNA 455  
Spigot on free flanks

**Max. transmissible torque**  
**25 N.m**

Tang

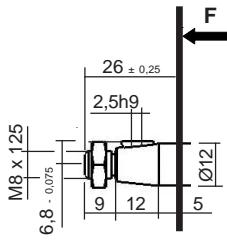
**40**

**A01**



**Max. transmissible torque**  
**30 N.m**

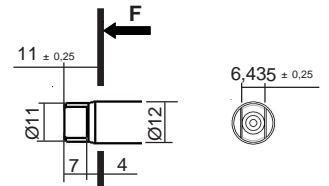
**C01** Taper 1 / 5



Delivered with nut: K105890

**Max. transmissible torque**  
**50 N.m**

**C02**



**Max. transmissible torque**  
**30 N.m**

Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

**F.T 10 1295 4/4**



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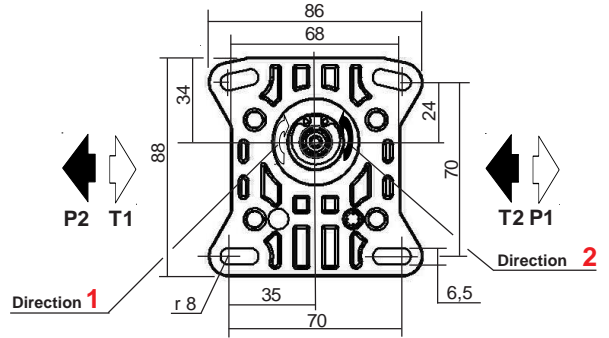
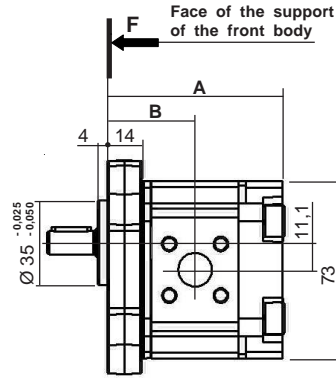
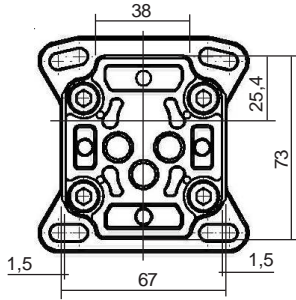
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[main dimensions](#)

**P** II Sign **CBN 1** VI Sign VII Sign **L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the capacity | Dimensions |      |      |
|------------------------|------------|------|------|
|                        | A          | B    | C    |
| 1001<br>1002<br>1003   | 71,8       | 35,9 | 63,8 |
| 1004<br>1005<br>1006   | 81,5       | 40,7 | 73,5 |

Multiple geared pumps, see data sheet **F.T 10 1298**

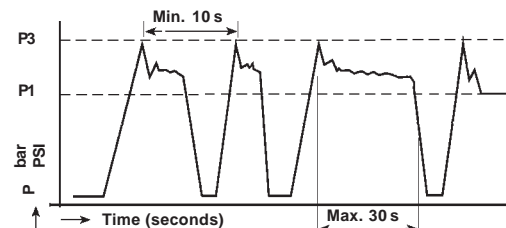
Seals kits:  
Nitrile: **K5074037**  
Viton: **K5074038**  
(For manufacture to since October 1991)

| MODEL | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |         | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at<br>1000 RPM<br>and<br>100 bar | Input torque<br>at<br>100 bar<br>and N.m | Approx. weight<br>Kg |
|-------|----------------------|---------------|------|----------------------|---------|-------------------|--------------|---------------|--|--|----------------------|
|       |                      | bar           | PSI  | bar                  | PSI     |                   | at 1500 RPM  | at Max. speed |  |  |                      |
|       |                      |               |      | l / min              | l / min |                   |              |               |  |  |                      |
| 1001  | 1,02                 | 300           | 4350 | 255                  | 3697    | 8000              | 1,53         | 8,16          | 0,32   | 0,30                                     | 0,9                  |
| 1002  | 2,05                 | 300           | 4350 | 255                  | 3697    | 8000              | 3,07         | 16,4          | 0,48   | 0,46                                     |                      |
| 1003  | 3,07                 | 300           | 4350 | 255                  | 3697    | 7000              | 4,60         | 21,4          | 0,67   | 0,64                                     |                      |
| 1004  | 4,09                 | 250           | 3625 | 215                  | 3117    | 6000              | 6,13         | 24,5          | 0,87   | 0,83                                     | 1,1                  |
| 1005  | 5,12                 | 200           | 2900 | 170                  | 2465    | 6000              | 7,68         | 30,7          | 1,07   | 1,02                                     |                      |
| 1006  | 6,14                 | 150           | 2175 | 125                  | 1812    | 6000              | 9,21         | 30,7          | 1,22   | 1,16                                     |                      |

P1 Maximum pressure in continuous duty.

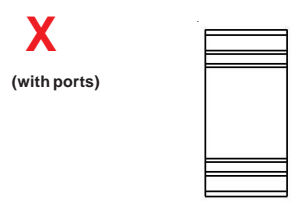
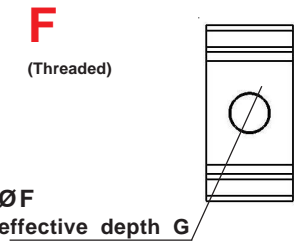
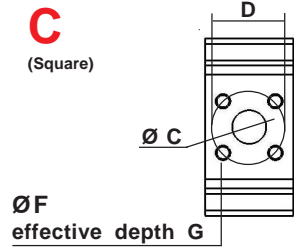
Maximum Pressure ⇒

P3 Allowable peak pressure.



**F.T 10 1296 1/4**

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES



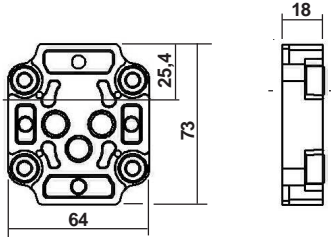
| Capacity     | INLET (T)                  |    |   |          |    | OUTLET (P) |    |   |          |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |   |
|--------------|----------------------------|----|---|----------|----|------------|----|---|----------|----|--|---|
|              | ØC                         | D  | E | ØF       | G  | ØC         | D  | E | ØF       | G  | INLET (T)  | OUTLET (P)                                |
| 1001 to 1003 | 14                         | 30 |   | M6       | 13 | 14         | 30 |   | M6       | 13 | 1 / 4 " BSP<br>N: 1.505878<br>V: 1.504770                                    | 1 / 4 " BSP<br>N: 1.505878<br>V: 1.504770 |
| 1004 to 1006 |                            |    |   |          |    |            |    |   |          |    | 3 / 8 " BSP<br>N: 1.500293<br>V: 1.505027                                    | 1 / 4 " BSP<br>N: 1.505878<br>V: 1.504770 |
| 1001 to 1003 |                            |    |   | 3/8" BSP | 12 |            |    |   | 3/8" BSP | 12 |  |   |
| 1004 to 1006 |                            |    |   | 1/2" BSP | 14 |            |    |   | 3/8" BSP | 12 |  |   |
| 1001 to 1006 | Only with rear body Type A |    |   |          |    |            |    |   |          |    |  |   |

Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

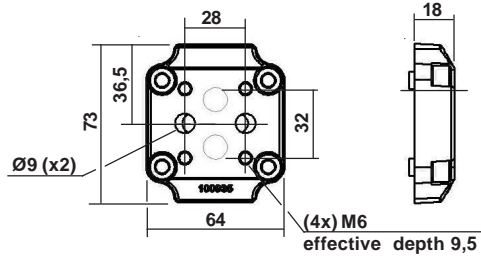
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REAR BODIES

**L**  
Standard

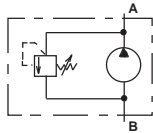
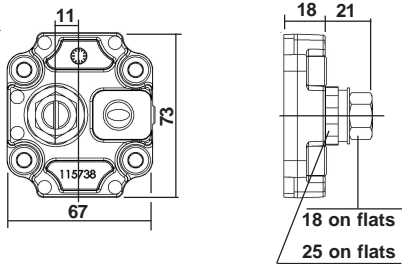


**A**  
Rear ports



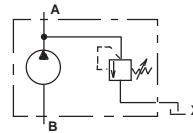
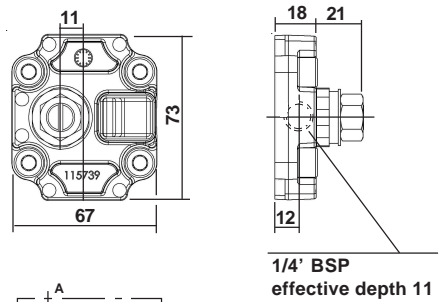
**X**

high pressure relief valve,  
internal return



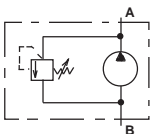
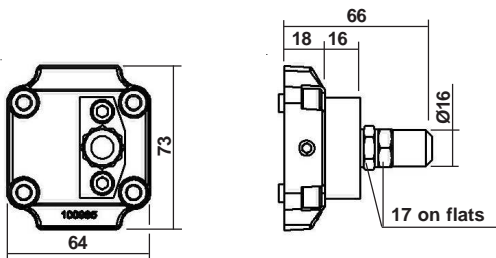
**T**

high pressure relief valve,  
external return



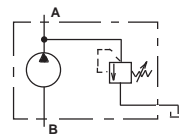
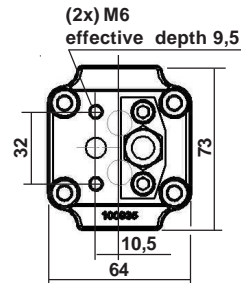
**V**

low pressure relief valve,  
internal return



**W**

low pressure relief valve,  
external return



Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

F.T 10 1296 3/4

Consult us for availability

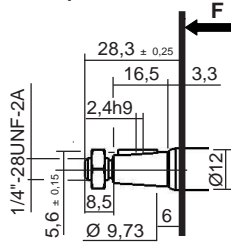


DRIVING SHAFTS

Tapered

10

**B01** Taper 1 / 8



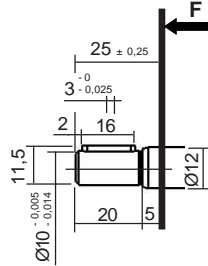
Delivered with nut: K101719

**Max. transmissible torque**  
**40 N.m**

Straight keyed

20

**C01**

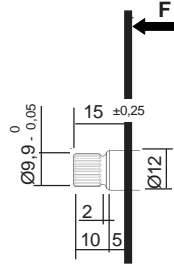


**Max. transmissible torque**  
**25 Nm**

Splined

30

**C01**



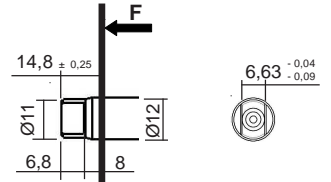
involute spline to shaft  
10 x 18 x 0,5  
to norm NF E 22 141 - BNA 455  
Spigot on free flanks

**Max. transmissible torque**  
**25 N.m**

Tang

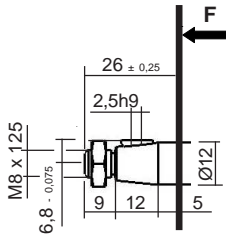
40

**A01**



**Max. transmissible torque**  
**30 N.m**

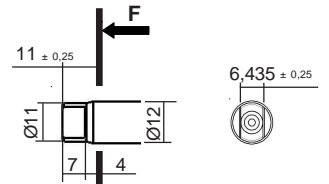
**C01** Taper 1 / 5



Delivered with nut: K105890

**Max. transmissible torque**  
**50 N.m**

**C02**



**Max. transmissible torque**  
**30 N.m**

Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

F.T 10 1296 4/4



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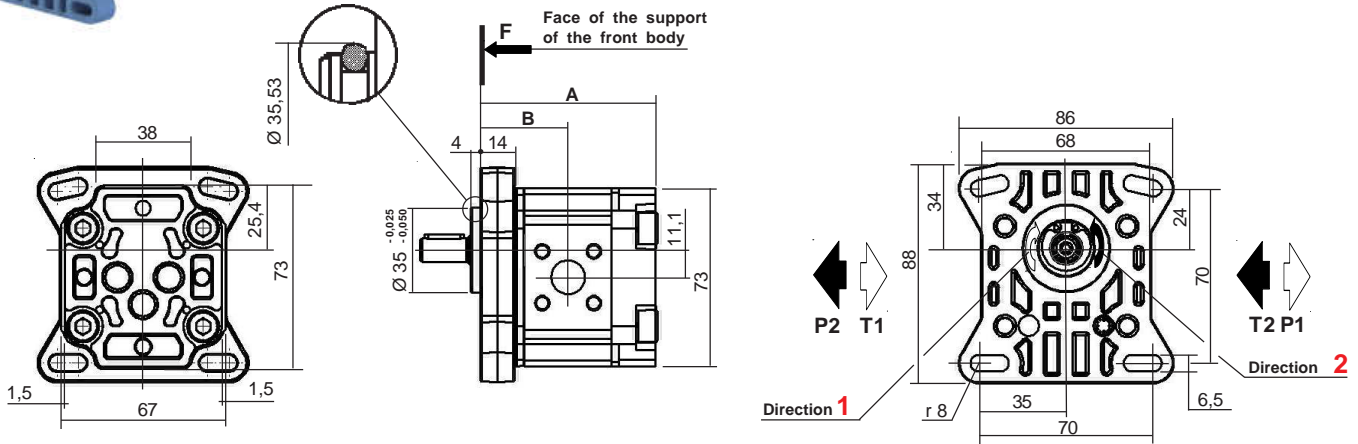
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[main dimensions](#)

**P** II Sign **CBK** **1** VI Sign VII Sign **L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



| CHOICE of the capacity | Dimensions |      |      |
|------------------------|------------|------|------|
|                        | A          | B    | C    |
| 1001<br>1002<br>1003   | 71,8       | 35,9 | 63,8 |
| 1004<br>1005<br>1006   | 81,5       | 40,7 | 73,5 |

Multiple geared pumps, see data sheet **F.T 10 1298**

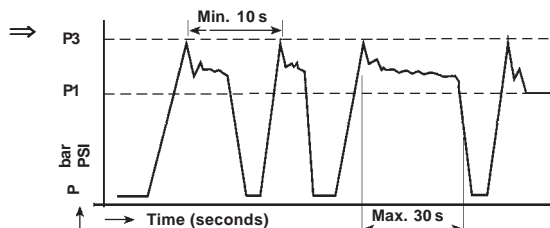
Seals kits:  
Nitrile: **K5074037**  
Viton: **K5074038**  
(For manufacture to since October 1991)

| MODEL | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|       |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                 |                      |
|       |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| 1001  | 1,02                 | 300           | 4350 | 255                  | 3697 | 8000              | 1,53         | 8,16          | 0,32                                     | 0,30                            | 0,9                  |
| 1002  | 2,05                 | 300           | 4350 | 255                  | 3697 | 8000              | 3,07         | 16,4          | 0,48                                     | 0,46                            |                      |
| 1003  | 3,07                 | 300           | 4350 | 255                  | 3697 | 7000              | 4,60         | 21,4          | 0,67                                     | 0,64                            |                      |
| 1004  | 4,09                 | 250           | 3625 | 215                  | 3117 | 6000              | 6,13         | 24,5          | 0,87                                     | 0,83                            | 1,1                  |
| 1005  | 5,12                 | 200           | 2900 | 170                  | 2465 | 6000              | 7,68         | 30,7          | 1,07                                     | 1,02                            |                      |
| 1006  | 6,14                 | 150           | 2175 | 125                  | 1812 | 6000              | 9,21         | 30,7          | 1,22                                     | 1,16                            |                      |

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure ⇒

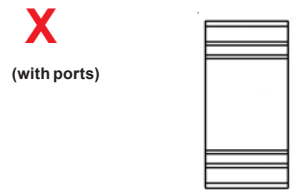
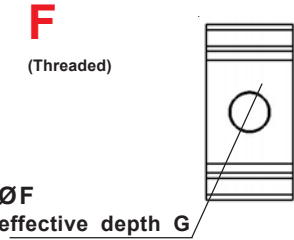
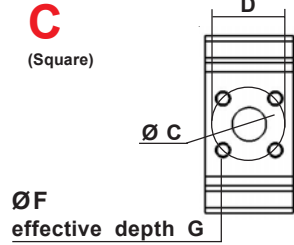


Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

F.T 10 1327 1/4

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |    |   |          |    | OUTLET (P) |    |   |          |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |   |
|--------------|----------------------------|----|---|----------|----|------------|----|---|----------|----|--|---|
|              | ØC                         | D  | E | ØF       | G  | ØC         | D  | E | ØF       | G  | INLET (T)  | OUTLET (P)                                |
| 1001 to 1003 | 14                         | 30 |   | M6       | 13 | 14         | 30 |   | M6       | 13 | 1 / 4 " BSP<br>N: 1.500292<br>V: 1.504770                                    | 1 / 4 " BSP<br>N: 1.500292<br>V: 1.504770 |
| 1004 to 1006 |                            |    |   |          |    |            |    |   |          |    | 3 / 8 " BSP<br>N: 1.500293<br>V: 1.505027                                    | 1 / 4 " BSP<br>N: 1.500292<br>V: 1.504770 |
| 1001 to 1003 |                            |    |   | 3/8" BSP | 12 |            |    |   | 3/8" BSP | 12 |  |   |
| 1004 to 1006 |                            |    |   | 1/2" BSP | 14 |            |    |   | 3/8" BSP | 12 |  |   |
| 1001 to 1006 | Only with rear body Type A |    |   |          |    |            |    |   |          |    |  |   |

Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

F.T 10 1327 2/4

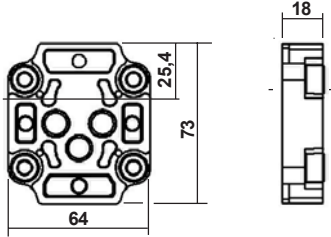


Consult us for availability

REAR BODIES

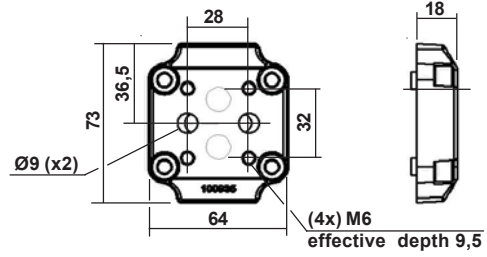
**L**

Standard



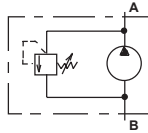
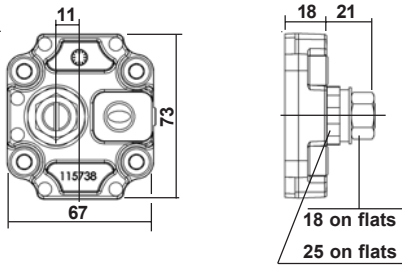
**A**

Rear ports



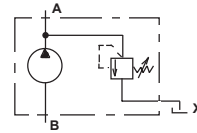
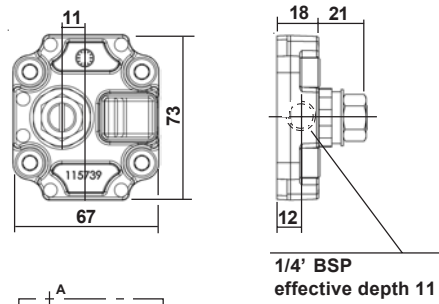
**X**

high pressure relief valve,  
internal return



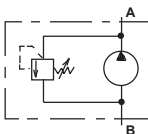
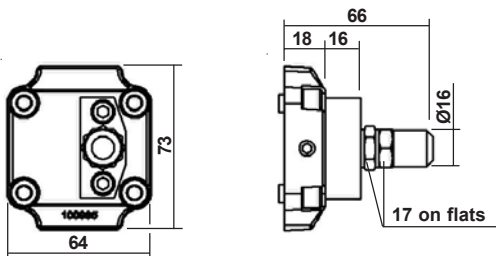
**T**

high pressure relief valve,  
external return



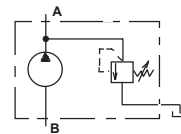
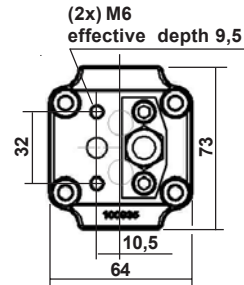
**V**

low pressure relief valve,  
internal return



**W**

low pressure relief valve,  
external return



Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

F.T 10 1327 3/4

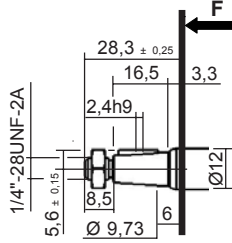
Consult us for availability

DRIVING SHAFTS

Tapered

10

**B01** Taper 1 / 8



Delivered with nut: K101719

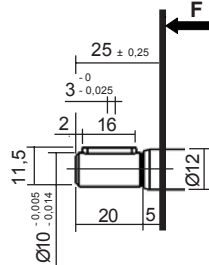
**Max. transmissible torque**

**40 N.m**

Straight keyed

20

**C01**



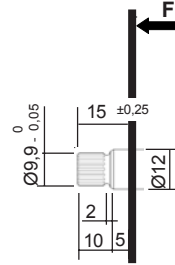
**Max. transmissible torque**

**25 Nm**

Splined

30

**C01**



involute spline to shaft  
10 x 18 x 0,5  
to norm NF E 22 141 - BNA 455  
Spigot on free flanks

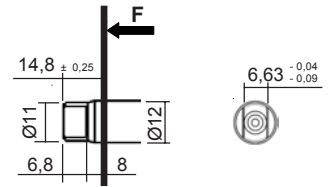
**Max. transmissible torque**

**25 N.m**

Tang

40

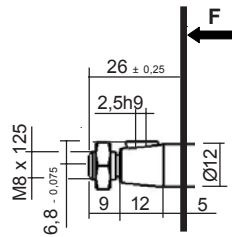
**A01**



**Max. transmissible torque**

**30 N.m**

**C01** Taper 1 / 5

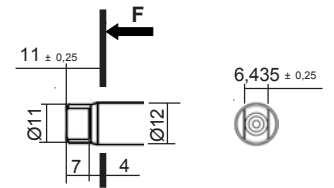


Delivered with nut: K105890

**Max. transmissible torque**

**50 N.m**

**C02**



**Max. transmissible torque**

**30 N.m**

Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

F.T 10 1327 4/4



Consult us for availability

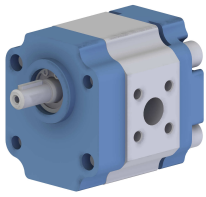
home

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previous

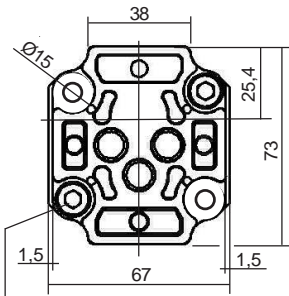
next

main dimensions

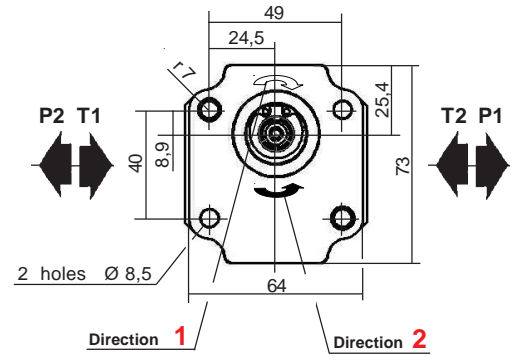
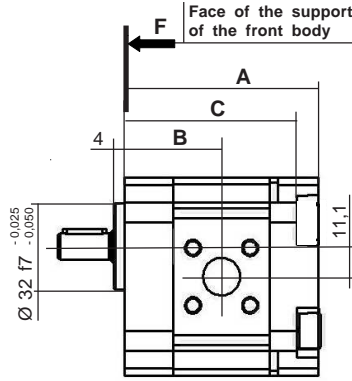


**P** II Sign **DCN 1** VI Sign VII Sign **L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Couple de serrage  
**20 ± 0,2 N.m**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |      |      |
|------------------------|------------|------|------|
|                        | A          | B    | C    |
| 1001<br>1002<br>1003   | 71,8       | 35,9 | 63,8 |
| 1004<br>1005<br>1006   | 81,5       | 40,7 | 73,5 |

Multiple geared pumps,  
see data sheet **F.T 10 1298**

**seals kits:**

Nitrile: **K5074037**

Viton: **K5074038**

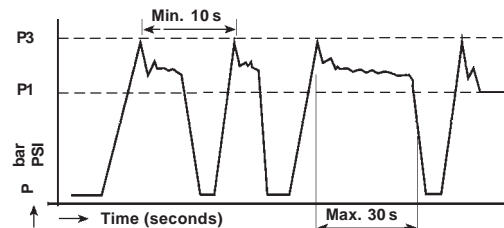
(For manufactured to since  
October 1991)

| MODEL | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |         | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------|----------------------|---------------|------|----------------------|---------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|       |                      | bar           | PSI  | bar                  | PSI     |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|       |                      |               |      | l / min              | l / min |                   |              |               |  |                                       |                      |
| 1001  | 1,02                 | 300           | 4350 | 255                  | 3697    | 8000              | 1,53         | 8,16          | 0,32   | 0,30                                  | 0,9                  |
| 1002  | 2,05                 | 300           | 4350 | 255                  | 3697    | 8000              | 3,07         | 16,4          | 0,48   | 0,46                                  |                      |
| 1003  | 3,07                 | 300           | 4350 | 255                  | 3697    | 7000              | 4,60         | 21,4          | 0,67   | 0,64                                  |                      |
| 1004  | 4,09                 | 250           | 3625 | 215                  | 3117    | 6000              | 6,13         | 24,5          | 0,87   | 0,83                                  | 1,1                  |
| 1005  | 5,12                 | 200           | 2900 | 170                  | 2465    | 6000              | 7,68         | 30,7          | 1,07   | 1,02                                  |                      |
| 1006  | 6,14                 | 150           | 2175 | 125                  | 1812    | 6000              | 9,21         | 30,7          | 1,22   | 1,16                                  |                      |

**P1** Maximum pressure in continuous duty.  
 $P1 = 0,75 \times P3$

**P3** Allowable peak pressure.

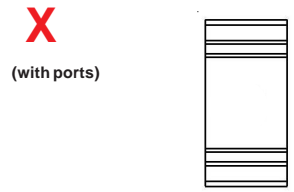
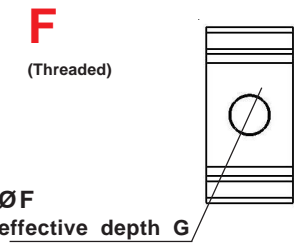
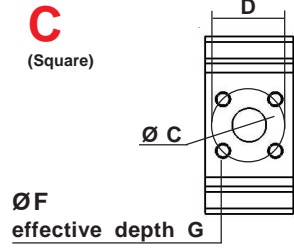
Maximum Pressure ⇒



**F.T 10 1297 1/4**

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CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES



| Capacity                                       | INLET (T)                                      |    |    |          |    | OUTLET (P) |    |    |          |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |   |
|--|--|----|----|----------|----|------------|----|----|----------|----|--|---|
|  | ØC   | D  | E  | ØF       | G  | ØC         | D  | E  | ØF       | G  | INLET (T)  | OUTLET (P)                                    |
|  | <b>1001 to 1003</b><br><br><b>1004 to 1006</b> | 14 | 30 |          | M6 | 13         | 14 | 30 |          | M6 | 13   | 1 / 4 " BSP<br><br>N: 1.505878<br>V: 1.504770 |
| <b>1001 to 1003</b><br><br><b>1004 to 1006</b> |  |    |    | 3/8" BSP | 12 |            |    |    | 3/8" BSP | 12 |  |   |
| <b>1001 to 1003</b><br><br><b>1004 to 1006</b> |  |    |    | 1/2" BSP | 14 |            |    |    | 3/8" BSP | 12 |  |   |
| <b>1001 to 1006</b>                            | Only with rear body Type A                     |    |    |          |    |            |    |    |          |    |  |   |

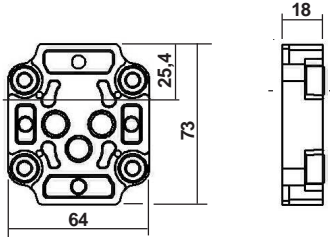
Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

**F.T 10 1297 2/4**

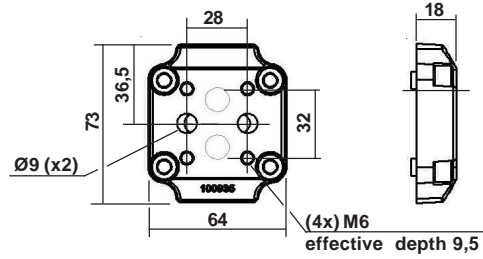
Consult us for availability

REAR BODIES

**L**  
Standard

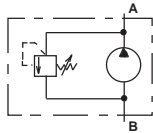
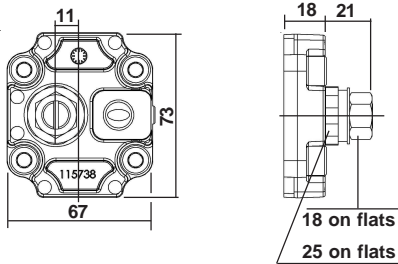


**A**  
Rear ports



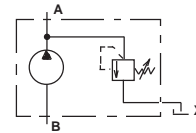
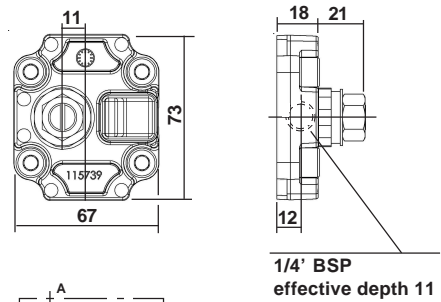
**X**

high pressure relief valve,  
internal return



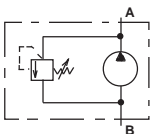
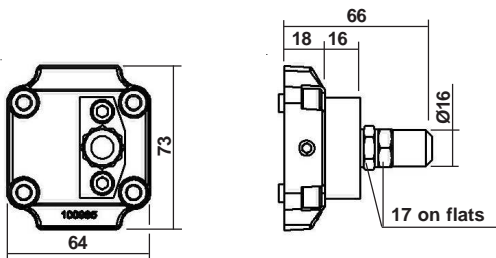
**T**

high pressure relief valve,  
external return



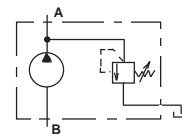
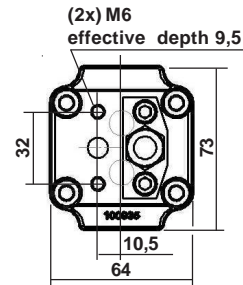
**V**

low pressure relief valve,  
internal return



**W**

low pressure relief valve,  
external return



Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

F.T 10 1297 3/4

Consult us for availability

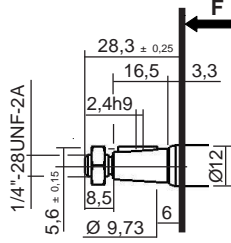


DRIVING SHAFTS

Tapered

10

**B01** Taper 1 / 8



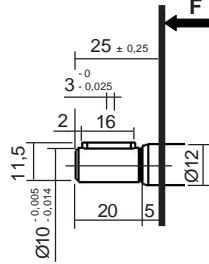
Delivered with nut: K101719

**Max. transmissible torque**  
**40 N.m**

Straight keyed

20

**C01**

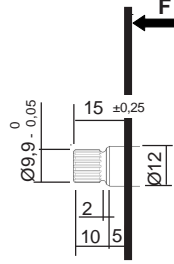


**Max. transmissible torque**  
**25 Nm**

Splined

30

**C01**



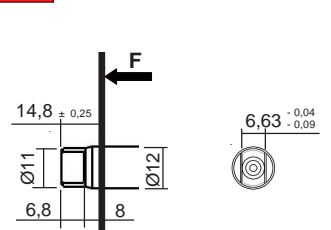
involute spline to shaft  
10 x 18 x 0,5  
to norm NFE 22 141 - BNA 455  
Spigot on free flanks

**Max. transmissible torque**  
**25 N.m**

Tang

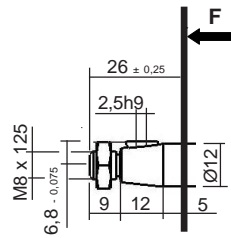
40

**A01**



**Max. transmissible torque**  
**30 N.m**

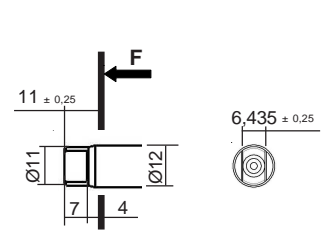
**C01** Taper 1 / 5



Delivered with nut: K105890

**Max. transmissible torque**  
**50 N.m**

**C02**



**Max. transmissible torque**  
**30 N.m**

Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

F.T 10 1297 4/4



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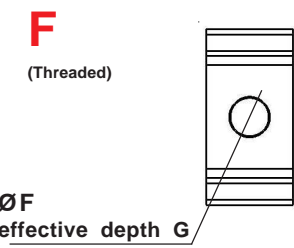
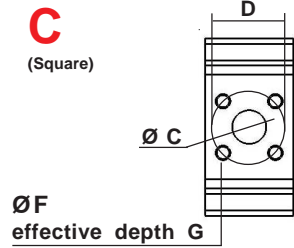
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[next](#)

[main dimensions](#)



CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |    |   |          |    | OUTLET (P) |    |   |          |    | CATALOGUE N° 70<br>Ref. of RECOMMANDÉD FLANGES<br>(for speed 1500 rev / min) |   |
|--------------|----------------------------|----|---|----------|----|------------|----|---|----------|----|--|---|
|              | ØC                         | D  | E | ØF       | G  | ØC         | D  | E | ØF       | G  | INLET (T)  | OUTLET (P)                                |
| 1001 to 1003 | 14                         | 30 |   | M6       | 13 | 14         | 30 |   | M6       | 13 | 1 / 4 " BSP<br>N: 1.505878<br>V: 1.504770                                    | 1 / 4 " BSP<br>N: 1.505878<br>V: 1.504770 |
| 1004 to 1006 |                            |    |   |          |    |            |    |   |          |    | 3 / 8 " BSP<br>N: 1.500293<br>V: 1.505027                                    | 1 / 4 " BSP<br>N: 1.505878<br>V: 1.504770 |
| 1001 to 1003 |                            |    |   | 3/8" BSP | 12 |            |    |   | 3/8" BSP | 12 |  |   |
| 1004 to 1006 |                            |    |   | 1/2" BSP | 14 |            |    |   | 3/8" BSP | 12 |  |   |
| 1001 to 1006 | Only with rear body Type A |    |   |          |    |            |    |   |          |    |  |   |

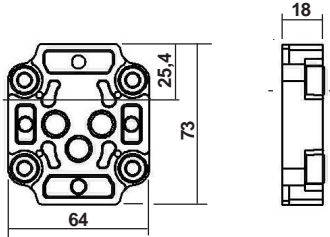
Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

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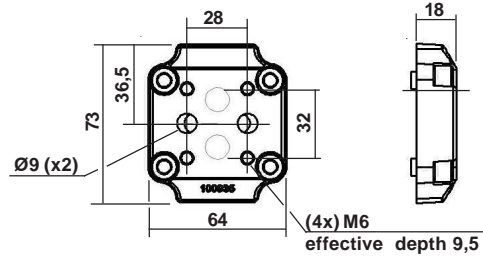
Consult us for availability

REAR BODIES

**L**  
Standard

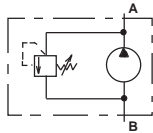
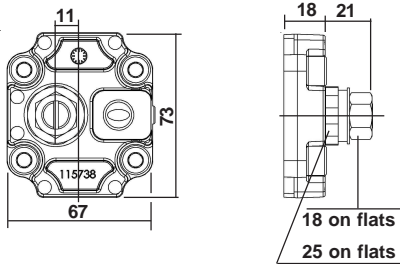


**A**  
Rear ports



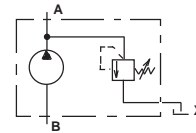
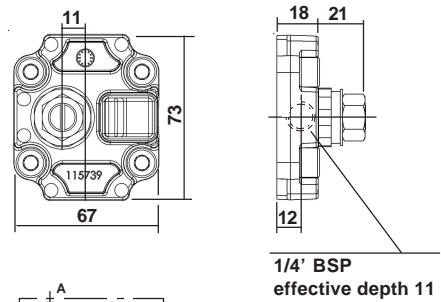
**X**

high pressure relief valve,  
internal return



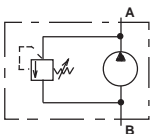
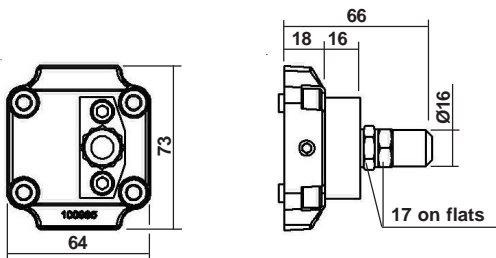
**T**

high pressure relief valve,  
external return



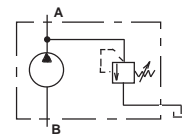
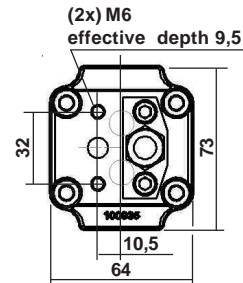
**V**

low pressure relief valve,  
internal return



**W**

low pressure relief valve,  
external return



Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

F.T 10 1328 3/4

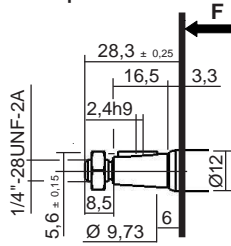
Consult us for availability

DRIVING SHAFTS

Tapered

10

**B01** Taper 1 / 8



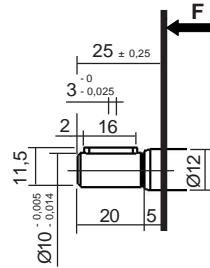
Delivered with nut: K101719

**Max. transmissible torque**  
**40 N.m**

Straight keyed

20

**C01**

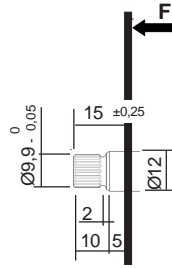


**Max. transmissible torque**  
**25 Nm**

Splined

30

**C01**



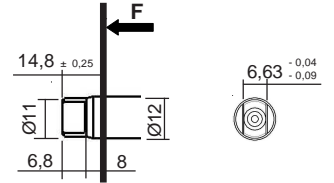
involute spline to shaft  
10 x 18 x 0,5  
to norm NF E 22 141 - BNA 455  
Spigot on free flanks

**Max. transmissible torque**  
**25 N.m**

Tang

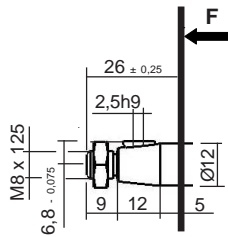
40

**A01**



**Max. transmissible torque**  
**30 N.m**

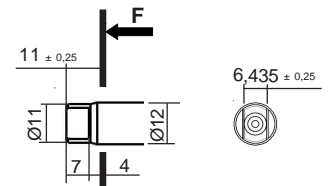
**C01** Taper 1 / 5



Delivered with nut: K105890

**Max. transmissible torque**  
**50 N.m**

**C02**



**Max. transmissible torque**  
**30 N.m**

Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

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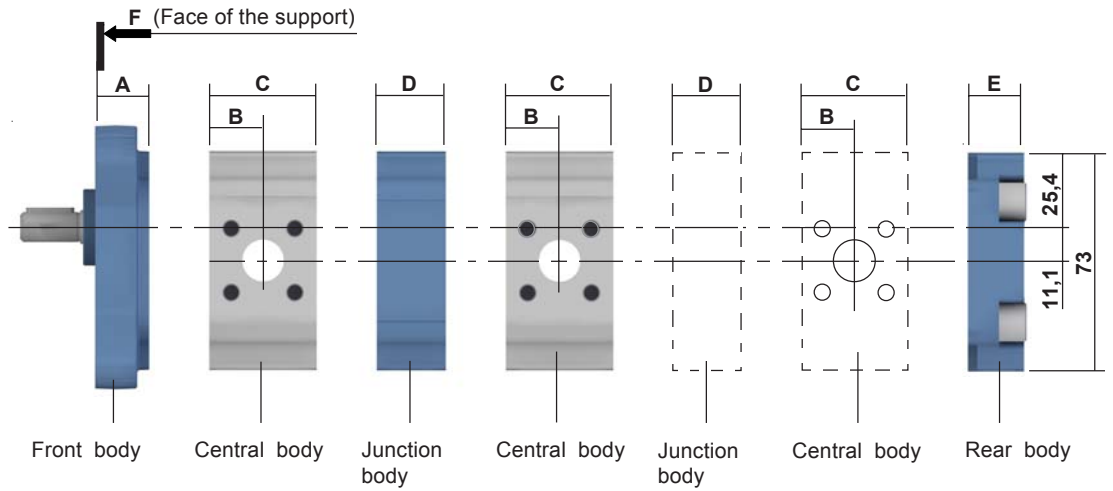
contents

previous

next

main dimensions

For CODIFICATION, see data sheet **F.T R 0030**



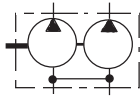
**ATTENTION**  
For common suction.  
The flow of the pump, or pumps preceding or following the section including the suction must not exceed 12 l / min.

| Front body                          | A  |
|-------------------------------------|----|
| AAN / <b>AAK</b> - BAN              | 18 |
| CBN / <b>CBK</b> - DCN / <b>DCK</b> |    |

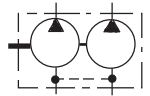
| Capacity     | B    | C    | D  | E  |
|--------------|------|------|----|----|
| 1001 to 1003 | 17,9 | 35,8 | 23 | 18 |
| 1004 to 1006 | 22,7 | 45,6 |    |    |

**JUNCTION BODY (Schematic examples for 2 elements pumps)**

**Code A** Communication between suction ports  
(Capacity if the pump without suction ≥ half of the capacity of the front section)



**Code D** Indépendant inlet side (communication of leaks)  
(Oil and tank to be necessarily)



Possible combinations of junctions up to 5 elements

**CALCULATION TORQUE**

Q Capacity in cc / rev  
P Pressure in bar  
 $\eta_m$  Mechanical efficiency (see catalogue C10)

Calculation of the torque for one pump body:  $\frac{1,59 \times Q \times P}{1000 \times \eta_m} = C \text{ (N.m)}$

Example : P 1 AAN 1006 C A 1004 H L 20 C01 Pressure: 1006: 175 bar Speed: 1000 RPM  
1004: 150 bar

$$\frac{1,59 \times 6 \times 175}{1000 \times 0,87} = 1,91 \text{ N.m}$$

$$\frac{1,59 \times 4 \times 150}{1000 \times 0,87} = 1,09 \text{ N.m}$$

= **3 N.m** → Total torque

Consult us for availability

**PUMPS PRESENTATION**  
**SERIES 2 and 2,5**



**F.T 20 1299**

**- FLAT FRONT BODIES**

**PUMP AAN**



**F.T 20 1300**

**PUMP AAK**



**F.T 20 1329**

**PUMP AFN**



**F.T 20 1366**

**PUMP APK**



**F.T 20 1368**

**PUMP BAN**



**F.T 20 1301**



Consult us for availability

- FLAT FRONT BODY (rest)

PUMP

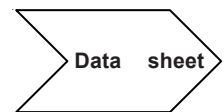
**CAN**



**F.T 20 1302**

PUMP

**CEN**



**F.T 20 1303**

PUMP

**CEK**



**F.T 20 1360**

PUMP

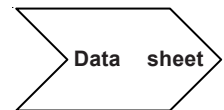
**DBN**



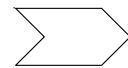
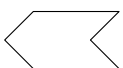
**F.T 20 1304**


PUMP

**DBK**

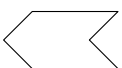


**F.T 20 1330**



 Consult us for availability



**- FLAT FRONT BODY (rest)****PUMP DCN****F.T 20 1305****PUMP DCK****F.T 20 1331****PUMP DUK****F.T 20 1333****PUMP DWN****F.T 20 1332****PUMP DZK****F.T 20 1362****MULTIPLES  
PUMPS****F.T 20 1306**

Consult us for availability

**Series 2**

| MODEL | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------|----------------------|---------------|------|----------------------|------|----------------|--------------|---------------|--|---------------------------------|----------------------|
|       |                      | bar           | PSI  | bar                  | PSI  |                | at 1500 RPM  | at Max. speed |  |                                 |                      |
|       |                      |               |      |                      |      |                | l / min      | l / min       |  |                                 |                      |
| 2004  | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500           | 6,97         | 16,2          | 0,91                                     | 8,70                            | 1,6                  |
| 2006  | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500           | 9,67         | 22,5          | 1,26                                     | 12,07                           | 1,6                  |
| 2008  | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500           | 12,37        | 28,8          | 1,62                                     | 15,43                           | 1,7                  |
| 2010  | 10,12                | 280           | 4060 | 240                  | 3480 | 3500           | 15,18        | 35,3          | 1,98                                     | 18,93                           | 1,7                  |
| 2012  | 12                   | 280           | 4060 | 240                  | 3480 | 3500           | 18           | 42            | 2,35                                     | 22,45                           | 1,7                  |
| 2014  | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500           | 20,7         | 48,3          | 2,71                                     | 25,81                           | 2                    |
| 2015  | 15,52                | 250           | 3625 | 210                  | 3045 | 3500           | 23,25        | 52,5          | 3,04                                     | 29,03                           | 2,1                  |
| 2017  | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500           | 25,95        | 60,55         | 3,39                                     | 32,36                           | 2,1                  |
| 2018  | 19,12                | 200           | 2900 | 170                  | 2465 | 3500           | 28,65        | 66,8          | 3,75                                     | 35,77                           | 2,2                  |
| 2022  | 22,87                | 175           | 2537 | 150                  | 2175 | 3500           | 34,2         | 79,8          | 4,30                                     | 42,78                           | 2,3                  |
| 2026  | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000           | 41,4         | 82,8          | 5,16                                     | 51,63                           | 2,7                  |
| 2030  | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000           | 46,8         | 93,6          | 5,77                                     | 58,36                           | 2,8                  |

**Series 2,5**

|      |       |     |      |     |      |      |       |       |      |       |     |
|------|-------|-----|------|-----|------|------|-------|-------|------|-------|-----|
| 2512 | 12    | 300 | 4350 | 255 | 3697 | 3500 | 18    | 42    | 2,35 | 22,45 | 2,3 |
| 2515 | 15,52 | 300 | 4350 | 240 | 3480 | 3500 | 23,25 | 52,5  | 3,04 | 29,03 | 2,6 |
| 2517 | 17,3  | 300 | 4350 | 220 | 3190 | 3500 | 25,95 | 60,55 | 3,39 | 32,36 | 2,7 |
| 2518 | 19,12 | 300 | 4350 | 215 | 3117 | 3500 | 28,65 | 66,8  | 3,75 | 35,77 | 2,7 |
| 2522 | 22,87 | 300 | 4350 | 190 | 2755 | 3500 | 34,2  | 79,8  | 4,48 | 42,78 | 2,8 |

Dimensions readings and approximative characteristics subject to modifications.

The pump can only run in one way rotation (Precise the direction of rotation on order).  
 The working cycles hereunder are possible with hydraulic mineral oil for viscosities between 12 and 150 cSt (65,2 and 700 SUS).  
 The minimum viscosity of 12 cSt (65,2 SUS) is available for a maximum temperature in the hydraulic circuit .  
 Working temperature: - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C (284 °F) with Viton shaft seal).  
 Full flow filtration: 10 to 15 microns at the pressure port of the pump or on the return circuit.  
 Filtration on the suction side: 125 microns.  
 Pressure at the inlet of the pump:  
 - Minimum 0,7 bar absolute (Maxi depressure 300 millibar with regard to the air pressure).  
 - Maximum 2 bar absolute or 1 bar over the air pressure.

The hereabove characteristics concern the pumps driven by elastic couplings perfectly aligned without any external radial or axial force.

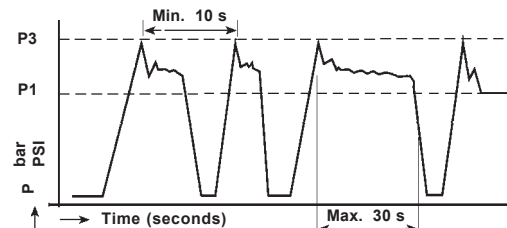
For any other coupling, see technical data sheet F.T R 0009.

For use at maximum working conditions and/or intensive cycles, thanks to consult our technical sales service for validation.

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



**F.T 20 1299 1/11**



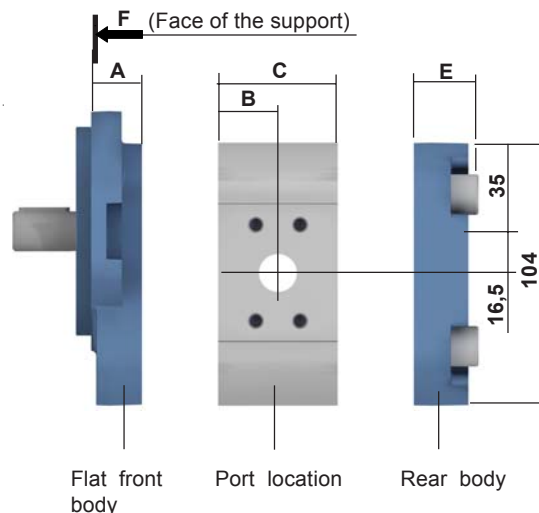
Consult us for availability

**FLAT FRONT BODY**

|                              |           |
|------------------------------|-----------|
| <b>Flat front bodies:</b>    | <b>A</b>  |
| <b>AAN / AAK - APK</b>       | <b>20</b> |
| <b>BAN - CAN - DBN / DBK</b> |           |
| <b>AFN</b>                   | <b>21</b> |
| <b>CEN / CEK</b>             | <b>22</b> |
| <b>DCN / DCK - DUK - DWN</b> | <b>18</b> |
| <b>DZK</b>                   |           |

|  |             |             |
|--|-------------|-------------|
| <b>Port location (capacity):</b>             | <b>B</b>    | <b>C</b>    |
| <b>2004 - 2006 - 2008 - 2010 - 2012</b>      | <b>23,5</b> | <b>47</b>   |
| <b>2014 - 2015 - 2017 - 2018 - 2022 2522</b> | <b>31</b>   | <b>61,6</b> |
| <b>2026 - 2030 2515 - 2518 - 2522</b>        | <b>38,8</b> | <b>77,7</b> |

|                     |             |
|---------------------|-------------|
| <b>Rear bodies:</b> | <b>E</b>    |
| <b>L</b>            | <b>25,5</b> |
| <b>A</b>            | <b>24,5</b> |
| <b>X - T</b>        | <b>25,5</b> |
| <b>V - W - D</b>    | <b>24</b>   |
| <b>Q</b>            | <b>38</b>   |
| <b>R</b>            | <b>40</b>   |



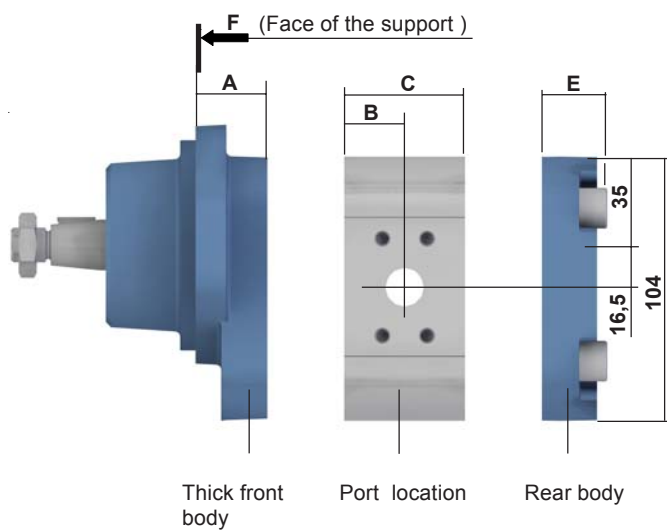
Dimensions readings and approximative characteristics subject to modifications.

**THICK FRONT BODY**

|                            |           |
|----------------------------|-----------|
| <b>Thick front bodies:</b> | <b>A</b>  |
| <b>AAP / AAR</b>           | <b>28</b> |
| <b>ARP / ARK</b>           | <b>25</b> |
| <b>DBP / DBR</b>           | <b>51</b> |

|  |             |             |
|--|-------------|-------------|
| <b>Port location (capacity):</b>             | <b>B</b>    | <b>C</b>    |
| <b>2004 - 2006 - 2008 - 2010 - 2012</b>      | <b>23,5</b> | <b>47</b>   |
| <b>2014 - 2015 - 2017 - 2018 - 2022 2522</b> | <b>31</b>   | <b>61,6</b> |
| <b>2026 - 2030 2515 - 2518 - 2522</b>        | <b>38,8</b> | <b>77,7</b> |

|                     |             |
|---------------------|-------------|
| <b>Rear bodies:</b> | <b>E</b>    |
| <b>L</b>            | <b>25,5</b> |
| <b>A</b>            | <b>24,5</b> |
| <b>X - T</b>        | <b>25,5</b> |
| <b>V - W - D</b>    | <b>24</b>   |
| <b>Q</b>            | <b>38</b>   |
| <b>R</b>            | <b>40</b>   |



**F.T 20 1299 2/11**

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**P** II Sign III Sign IV Sign **2** VI Sign VII Sign VIII Sign IX Sign X Sign XI Sign XII Sign

**P** II Sign III Sign IV Sign **25** VI Sign VII Sign VIII Sign IX Sign X Sign XI Sign XII Sign

| DIRECTION of ROTATION (II Sign)<br>P1 P2 | FRONT BODIES FLAT and THICK (III and IV Sign) | CAPACITY (V and VI Sign) | PORT LOCATION (VII Sign) |   |   |   |   |   |   | REAR BODIES (VIII Sign) |   |   |   |   |   |   | DRIVING SHAFTS (IX, X and XI Sign) |    |               |                     |               |                   |
|--|---|--------------------------|--------------------------|---|---|---|---|---|---|-------------------------|---|---|---|---|---|---|------------------------------------|----|---------------|---------------------|---------------|-------------------|
|  |   |                          | H                        | C | B | F | U | X | Y | L                       | A | X | T | V | W | Q | AR                                 | J* | TAPERED<br>10 | STRAIGH KEYED<br>20 | SPLINED<br>30 | TANG<br>40        |
| <b>FLAT FRONT BODIES</b>                 |   |                          |                          |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               |                   |
| X  | X   | <b>DUK</b><br>           |                          |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               |                   |
| X  | X   | <b>DZK</b><br>           | <b>2004</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               | <b>40D02</b><br>  |
|  |   |                          | <b>2006</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               |                   |
|  |   |                          | <b>2008</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               |                   |
|  |   |                          | <b>2010</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               |                   |
|  |   |                          | <b>2012</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               |                   |
|  |   |                          | <b>2014</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               |                   |
|  |   |                          | <b>2015</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               |                   |
|  |   |                          | <b>2017</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               |                   |
| <b>THICK FRONT BODIES</b>                |   |                          |                          |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               |                   |
| X  | X   | <b>AAP / AAR</b><br>     | <b>2018</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               | <b>10 C03</b><br> |
| X  | X   | <b>ARP / ARK</b><br>     | <b>2022</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               | <b>20 C03</b><br> |
| X  | X   | <b>DBP / DBR</b><br>     | <b>2026</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               | <b>10 C05</b><br> |
| X  | X   |                          | <b>2030</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               | <b>20 C05</b><br> |
| X  | X   |                          | <b>2512</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               | <b>10 C07</b><br> |
| X  | X   |                          | <b>2515</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               | <b>20 C15</b><br> |
| X  | X   |                          | <b>2517</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               |                   |
| X  | X   |                          | <b>2518</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               |                   |
| X  | X   |                          | <b>2522</b>              |   |   |   |   |   |   |                         |   |   |   |   |   |   |                                    |    |               |                     |               |                   |

**LEGENDES**

**DIRECTION of ROTATION**

P1 = Clockwise  
P2 = Anti clockwise

**FRONT BODIES**

AA\* = Fixing SAE and ISO  
BA\* = Fixing English and Italian  
CB\* = Fixing French  
DC\* = Fixing German

**PORT LOCATION**

H = HPI  
C = Square location  
B = Italian location  
F = Threaded ports  
U = SAE threaded location (Norm J 475)  
X = without ports  
Y = ISO location (Norm 6162)

**REAR BODIES**

L = Standard  
A = External flow control  
X = High pressure relief valve - internal pressure  
■ = High pressure relief valve - external pressure  
■ = Low pressure relief valve - internal pressure  
■ = Low pressure relief valve - external pressure  
Q = Flow control  
AR = with block configuration MBPS  
J\* = Pre-arrangement for assembling "Module 3" see F.T 20 1353 Page 397 /00

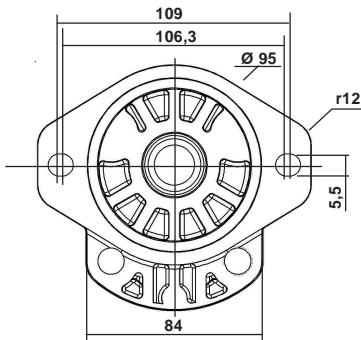
Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1299 4/11

**FLAT FRONT BODIES**

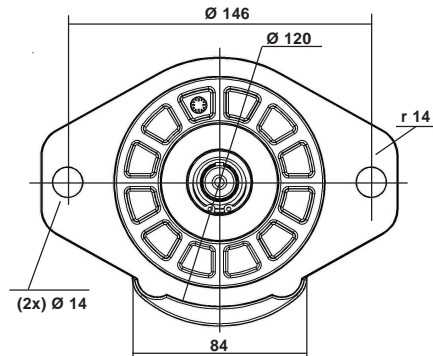
**AAN / AAK**



Centering:  $\varnothing 82,55 \begin{smallmatrix} 0 \\ -0,05 \end{smallmatrix}$   
Thickness: 6

**AAN** : Series 2 F.T 20 1300  
Series 2,5 F.T 25 1307  
**AAK** : Series 2 F.T 20 1329  
Series 2,5 F.T 25 1334

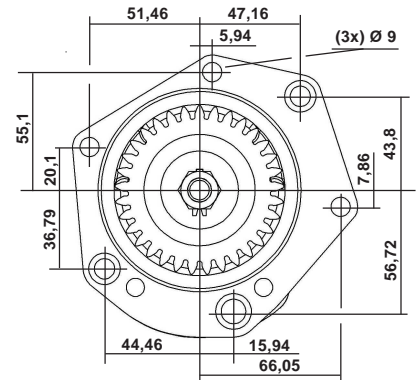
**AFN**



Centering:  $\varnothing 101,6 \begin{smallmatrix} 0 \\ -0,05 \end{smallmatrix}$   
Thickness: 6,35

**AFN** : Series 2 F.T 20 1366  
Series 2,5 F.T 25 1367

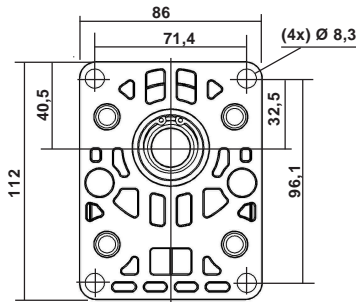
**APK**



Centering:  $\varnothing 95 \begin{smallmatrix} -0,036 \\ -0,071 \end{smallmatrix}$   
Thickness: 10

**APK** : Series 2 F.T 20 1368  
Series 2,5 F.T 25 1369

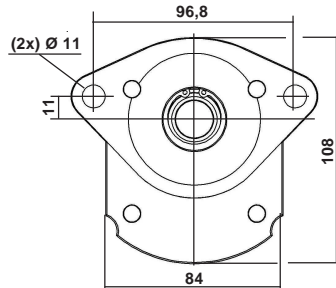
**BAN**



Centering:  $\varnothing 36,47 \begin{smallmatrix} 0 \\ -0,05 \end{smallmatrix}$   
Thickness: 4

**BAN** : Series 2 F.T 20 1301  
Series 2,5 F.T 25 1308

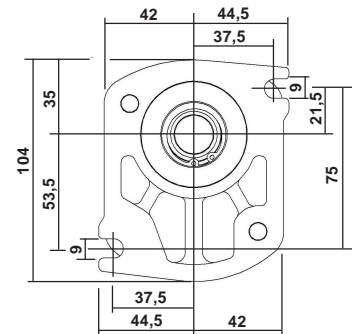
**CAN**



Centering:  $\varnothing 63,5 \begin{smallmatrix} -0,030 \\ -0,076 \end{smallmatrix}$   
Thickness: 3,2

**CAN** : Series 2 F.T 20 1302  
Series 2,5 F.T 25 1309

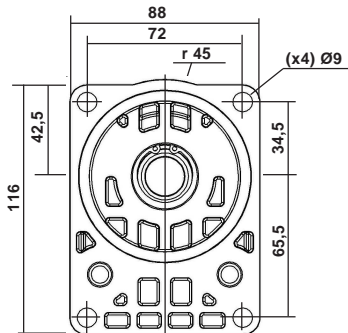
**CEN / CEK**



Centering:  $\varnothing 50 \begin{smallmatrix} -0,025 \\ -0,050 \end{smallmatrix}$   
Thickness: 4

**CEN** : Series 2 F.T 20 1303  
Series 2,5 F.T 25 1310  
**CEK** : Series 2 F.T 20 1360  
Series 2,5 F.T 25 1361

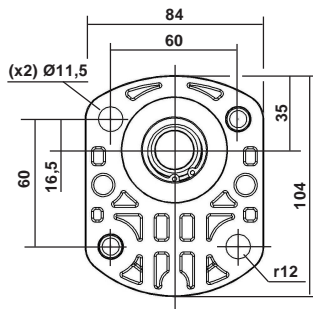
**DBN / DBK**



Centering:  $\varnothing 80 \begin{smallmatrix} -0,030 \\ -0,060 \end{smallmatrix}$   
Thickness: 8

**DBN** : Series 2 F.T 20 1304  
Series 2,5 F.T 25 1311  
**DBK** : Series 2 F.T 20 1330  
Series 2,5 F.T 25 1335

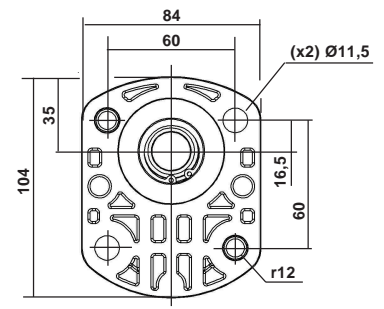
**DCN / DCK**



Centering:  $\varnothing 50 \begin{smallmatrix} -0,025 \\ -0,050 \end{smallmatrix}$   
Thickness: 6

**DCN** : Series 2 F.T 20 1305  
Series 2,5 F.T 25 1312  
**DCK** : Series 2 F.T 20 1331  
Series 2,5 F.T 25 1336

**DWN**



Centering:  $\varnothing 50 \begin{smallmatrix} -0,025 \\ -0,050 \end{smallmatrix}$   
Thickness: 6

**DWN** : Series 2 F.T 20 1332  
Series 2,5 F.T 25 1337

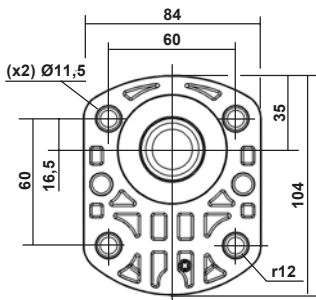
Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1299 5/11**

**Consult us for availability**

**FLAT FRONT BODIES**

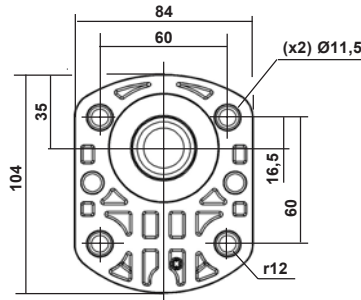
**DUK**



Centering:  $\varnothing 52 \begin{matrix} -0,030 \\ -0,060 \end{matrix}$   
Thickness: 6

**DUK : Series 2 F.T 20 1333**  
**Series 2,5 F.T 25 1338**

**DZK**

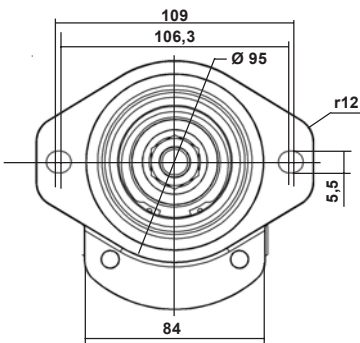


Centering:  $\varnothing 52 \begin{matrix} -0,030 \\ -0,060 \end{matrix}$   
Thickness: 6

**DZK : Series 2 F.T 20 1362**  
**Series 2,5 F.T 25 1363**

**THICK FRONT BODIES**

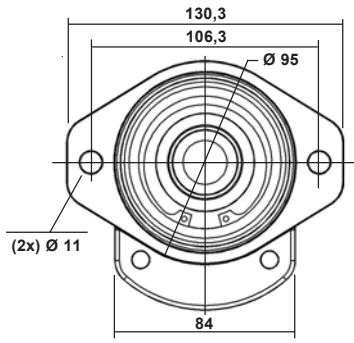
**AAP / AAR**



Centering:  $\varnothing 82,55 \begin{matrix} 0 \\ -0,05 \end{matrix}$   
Thickness: 6

**AAP : Series 2 F.T 20 1339**  
**Series 2,5 F.T 25 1340**  
**AAR : Series 2 F.T 20 1341**  
**Series 2,5 F.T 25 1342**

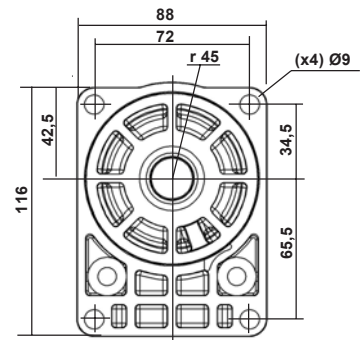
**ARP / ARK**



Centering:  $\varnothing 85 \begin{matrix} -0,036 \\ -0,071 \end{matrix}$   
Thickness: 14

**ARP : Series 2 F.T 20 1343**  
**Series 2,5 F.T 25 1344**  
**ARK : Series 2 F.T 20 1345**  
**Series 2,5 F.T 25 1346**

**DBP / DBR**



Centering:  $\varnothing 80 \begin{matrix} -0,03 \\ -0,06 \end{matrix}$   
Thickness: 8

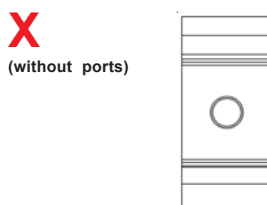
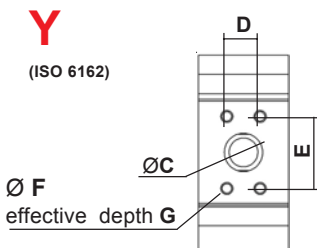
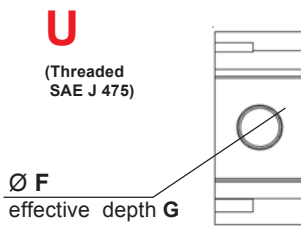
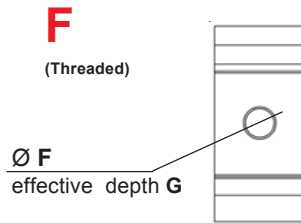
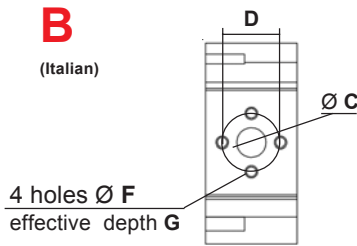
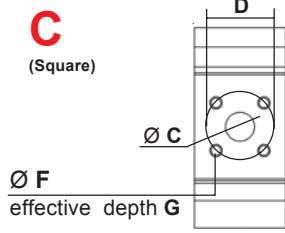
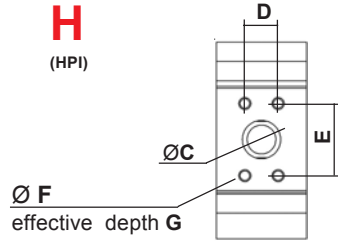
**DBP : Series 2 F.T 20 1347**  
**Series 2,5 F.T 25 1348**  
**DBR : Series 2 F.T 20 1349**  
**Series 2,5 F.T 25 1350**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1299 6/11**

Consult us for availability

**CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES**



| Capacity     | INLET (T)                  |      |      |                           |    | OUTLET (P) |      |    |                           |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |
|--------------|----------------------------|------|------|---------------------------|----|------------|------|----|---------------------------|----|--|--|
|              | ØC                         | D    | E    | ØF                        | G  | ØC         | D    | E  | ØF                        | G  | INLET (T)  | OUTLET (P)   |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6                        | 12 | 15         | 17,4 | 38 | M6                        | 15 | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6                        | 12 | 15         | 17,4 | 38 | M6                        | 12 | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |
| 2014 to 2030 | 20                         | 40   |      | M6                        | 12 | 15         | 35   |    | M6                        | 12 | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |
| 2512 to 2522 |                            |      |      |                           |    |            |      |    |                           |    | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |
| 2004 to 2012 | 15                         | 30   |      | M6                        | 13 | 15         | 30   |    | M6                        | 13 | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |
| 2014 to 2030 | 23,5                       | 40   |      | M8                        | 13 | 15         | 30   |    | M6                        | 13 | 1 / 2 " BSP<br>N: X.367508.101   | 3 / 8 " BSP<br>N: X.367508.201                                   |
| 2512 to 2522 |                            |      |      |                           |    |            |      |    |                           |    | 3 / 4 " BSP<br>N: X.367508.102   | 1 / 2 " BSP<br>N: X.367508.202                                   |
| 2004 to 2012 |                            |      |      | 3/4" BSP                  | 16 |            |      |    | 3/8" BSP                  | 12 |  |  |
| 2014 to 2030 |                            |      |      | 1" BSP                    | 18 |            |      |    | 1/2" BSP                  | 14 |  |  |
| 2004 to 2012 |                            |      |      | 1"1/16<br>12<br>UNF<br>2B | 20 |            |      |    | 7/8"<br>14<br>UNF<br>2B   | 17 |  |  |
| 2014 to 2022 |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 7/8"<br>14<br>UNF<br>2B   | 17 |  |  |
| 2026-2030    |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 1"1/16<br>12<br>UNF<br>2B | 20 |  |  |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8                        | 14 | 15         | 17,4 | 38 | M8                        | 14 |  |  |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |  |  |
| 2512 to 2522 | 26                         | 52,4 | 26,2 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |  |  |
| 2004 to 2012 | Only with rear body Type A |      |      |                           |    |            |      |    |                           |    |  |  |
| 2512 to 2522 | Only with rear body Type A |      |      |                           |    |            |      |    |                           |    |  |  |

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1299 7/11

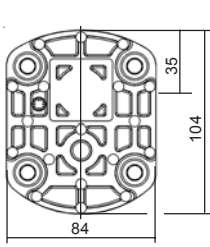
Consult us for availability



**REAR BODIES**

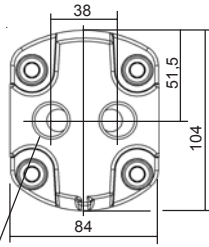
**L**

Standard



**A**

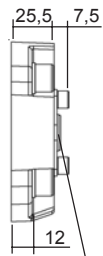
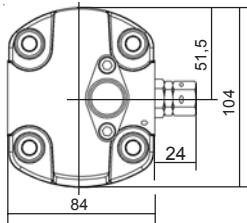
with ports



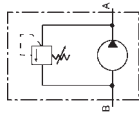
(2x) 1/2" BSP effective depth 14

**X**

High pressure relief valve (Adjustable) Internal return

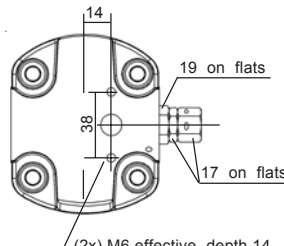


Blank port connector only internal return

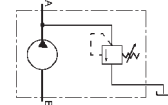


**T**

High pressure relief valve (Adjustable) External return

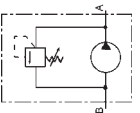
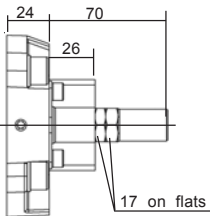
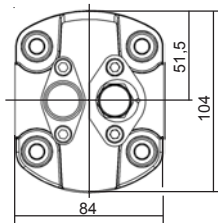


(2x) M6 effective depth 14



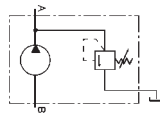
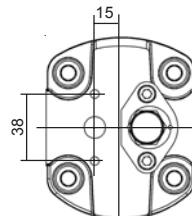
**V**

Low Pressure relief valve (Adjustable) Internal return



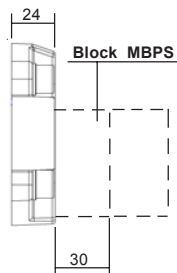
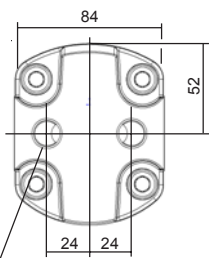
**W**

Low Pressure relief valve (Adjustable) External return



**AR**

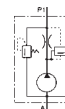
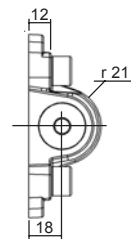
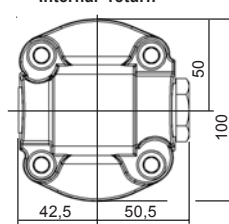
with block configuration MBPS



3/8" BSP (x2) effective depth 17,5

**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1299 8/11**

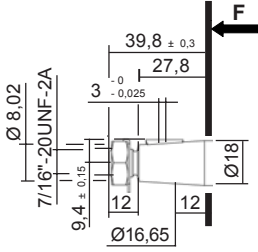
**Consult us for availability**

**DRIVING SHAFT (FLAT FRONT BODY)**

**Tapered**

**10**

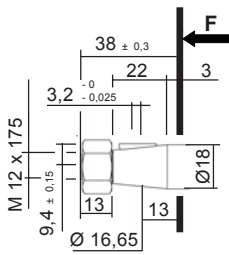
**B02** Cône 1 / 8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1 / 5



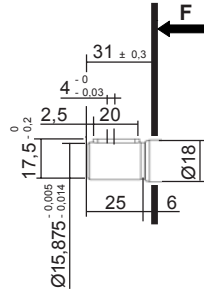
Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

**Straight keyed**

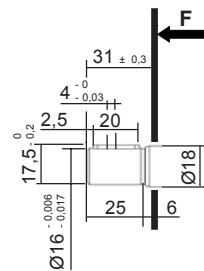
**20**

**A01**



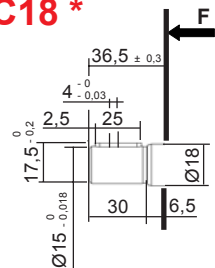
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

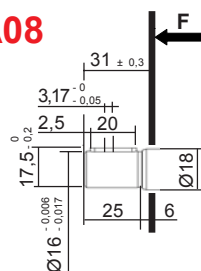
**C18 \***



Maxi transmissible torque  
**40 N.m**

**\* ONLY 2006 to 2012**

**A08**

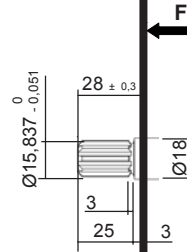


Maxi transmissible torque  
**50 N.m**

**Splined**

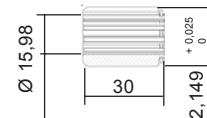
**30**

**A01**



Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle  
Maxi transmissible torque  
**100 N.m**

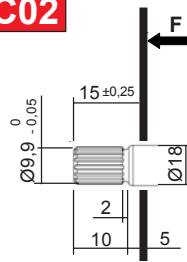
Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310  
Mounting with splined shaft 30 A01



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

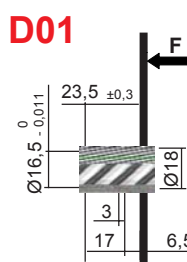
**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

**D01**



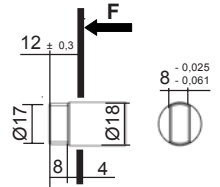
Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

**Tang**

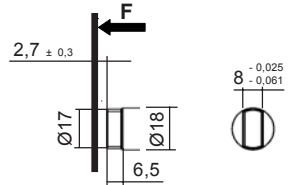
**40**

**C03**



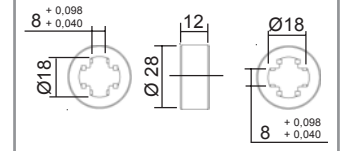
Maxi transmissible torque  
**70 N.m**

**D02**



Max tightening torque  
**70 N.m**

Coupling on request:  
Ref. K102947



Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1299 9/11**

Consult us for availability

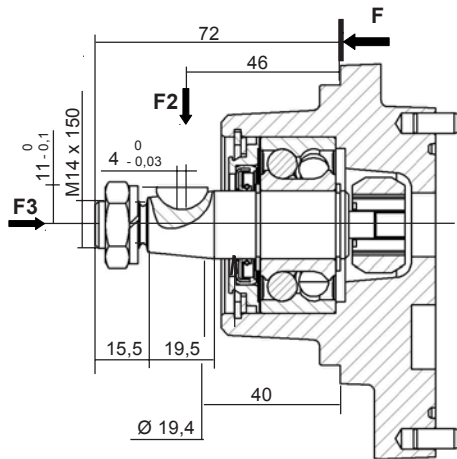
**DRIVING SHAFT (THICK FRONT BODY)**

**Tapered**

**10**

**AAP / AAR**

**C03** Taper 1 / 5



**F2 Maxi: 120 daN**  
**F3 Maxi: 50 daN**

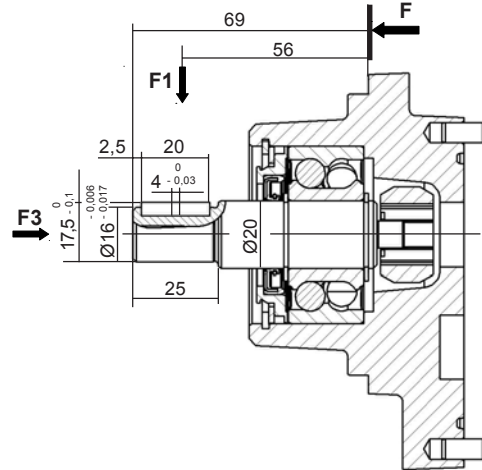
Maxi transmissible torque  
**50 N.m**

**Straight keyed**

**20**

**AAP / AAR**

**C03**



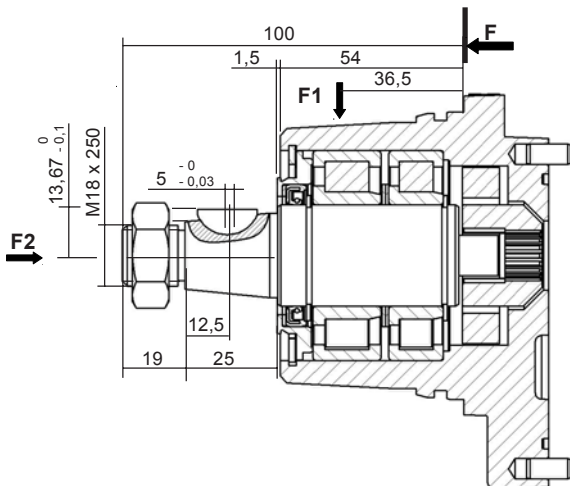
**F1 Maxi: 120 daN**  
**F3 Maxi: 50 daN**

Maxi transmissible torque  
**50 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**ARP / ARK**

**C05** Taper 1 / 5



Delivered with nut: K106295

**F1 Maxi: 350 daN**  
**F2 Maxi: 50 daN**

Maxi transmissible torque  
**70 N.m**

**F.T 20 1299 10/11**

Consult us for availability

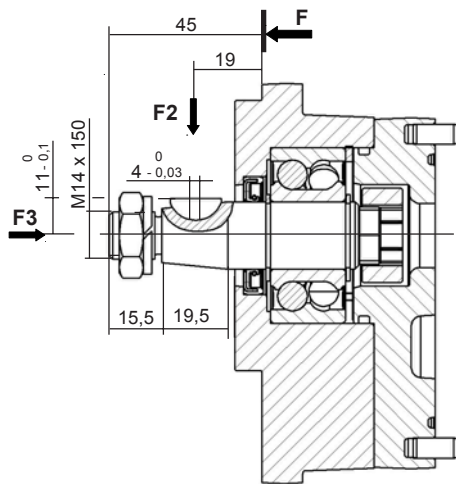
**DRIVING SHAFT (THICK FRONT BODY)**

**Tapered**

**10**

**DBP / DBR**

**C07** Taper 1 / 5



Delivered with Nut: K102045

**F2 Maxi: 120 daN**

**F3 Maxi: 50 daN**

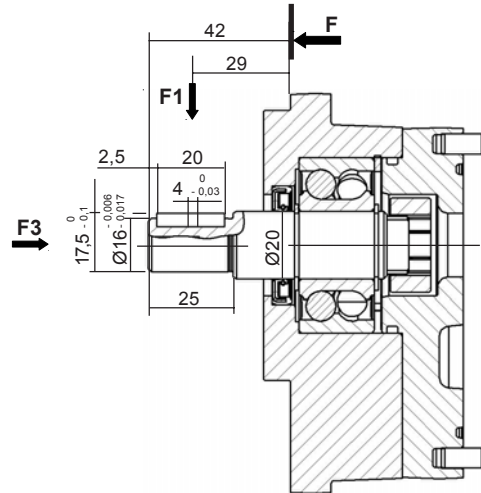
**Maxi transmissible torque**  
**50 N.m**

**Straight keyed**

**20**

**DBP / DBR**

**C15**



**F1 Maxi: 100 daN**

**F3 Maxi: 50 daN**

**Maxi transmissible torque**  
**50 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1299 11/11**

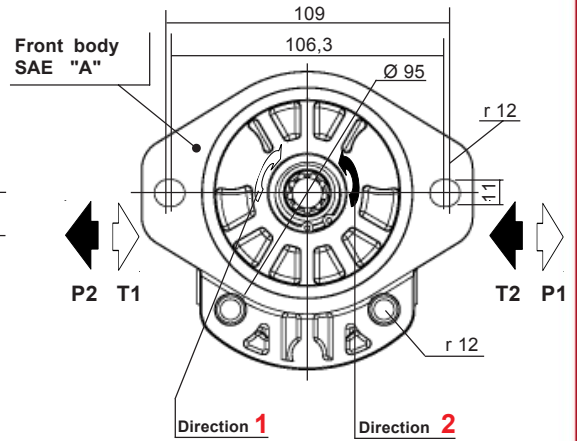
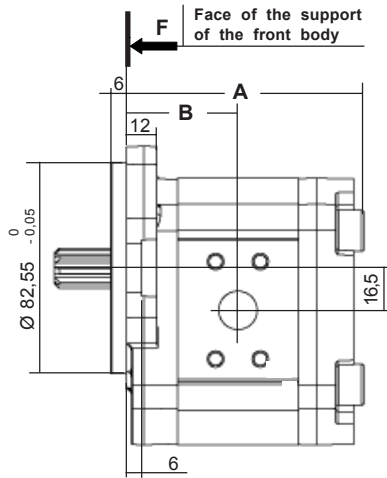
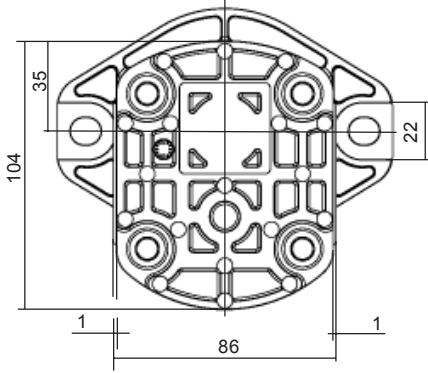


Consult us for availability



**P** II Sign **AA** **N** **2** VI Sign **H** **L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity              | Dimensions |      |
|-------------------------------------|------------|------|
|                                     | A          | B    |
| 004 - 006 - 008<br>010 - 012        | 92,5       | 43,5 |
| <b>014 - 015 - 017</b><br>018 - 022 | 107        | 51   |
| 026 - 030                           | 123        | 59   |

Multiples geared pumps, see data sheet **F.T 20 1306**

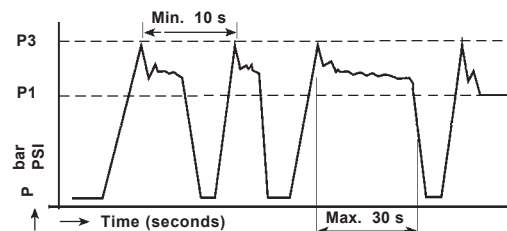
Seal kits:  
Nitrile: **K5069810**  
Viton: **K5069820**  
(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| <b>2004</b> | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500              | 6,97         | 16,2          | 0,91   | 8,70                                  | 1,6                  |
| <b>2006</b> | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500              | 9,67         | 22,5          | 1,26   | 12,07                                 | 1,6                  |
| <b>2008</b> | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500              | 12,37        | 28,8          | 1,62   | 15,43                                 | 1,7                  |
| <b>2010</b> | 10,12                | 280           | 4060 | 240                  | 3480 | 3500              | 15,18        | 35,3          | 1,98   | 18,93                                 | 1,7                  |
| <b>2012</b> | 12                   | 280           | 4060 | 240                  | 3480 | 3500              | 18           | 42            | 2,35   | 22,45                                 | 1,7                  |
| <b>2014</b> | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500              | 20,7         | 48,3          | 2,71   | 25,81                                 | 2                    |
| <b>2015</b> | 15,52                | 250           | 3625 | 210                  | 3045 | 3500              | 23,25        | 52,5          | 3,04   | 29,03                                 | 2,1                  |
| <b>2017</b> | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500              | 25,95        | 60,55         | 3,39   | 32,36                                 | 2,1                  |
| <b>2018</b> | 19,12                | 200           | 2900 | 170                  | 2465 | 3500              | 28,65        | 66,8          | 3,75   | 35,77                                 | 2,2                  |
| <b>2022</b> | 22,87                | 175           | 2537 | 150                  | 2175 | 3500              | 34,2         | 79,8          | 4,30   | 42,78                                 | 2,3                  |
| <b>2026</b> | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000              | 41,4         | 82,8          | 5,16   | 51,63                                 | 2,7                  |
| <b>2030</b> | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000              | 46,8         | 93,6          | 5,77   | 58,36                                 | 2,8                  |

P1 Maximum pressure in continuous duty.

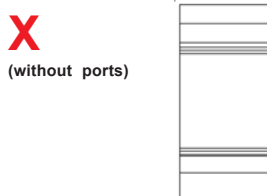
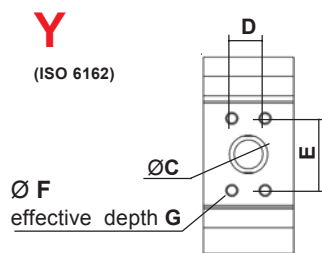
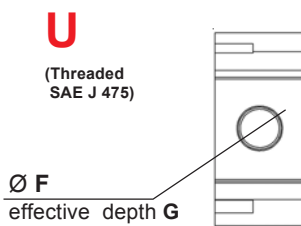
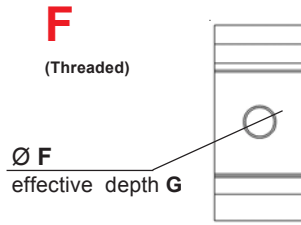
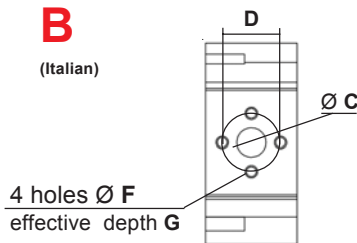
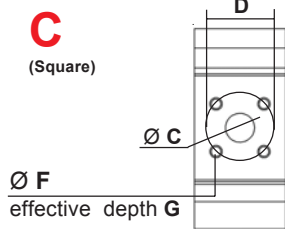
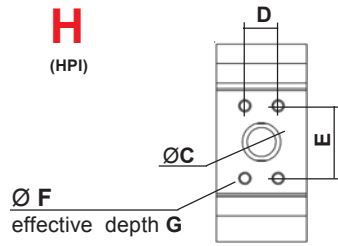
Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                  |    | OUTLET (P) |      |    |    |                | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |                  |    |                  |    |
|--------------|----------------------------|------|------|------------------|----|------------|------|----|----|----------------|--|--|------------------|----|------------------|----|
|              | ØC                         | D    | E    | ØF               | G  | ØC         | D    | E  | ØF | G              | INLET (T)  | OUTLET (P)   |                  |    |                  |    |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6               | 12 | 15         | 17,4 | 38 | M6 | 15             | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |                  |    |                  |    |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6               | 12 | 15         | 17,4 | 38 | M6 | 12             | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |                  |    |                  |    |
| 2004 to 2012 | 20                         | 40   |      | M6               | 12 | 15         | 35   |    | M6 | 12             | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |                  |    |                  |    |
| 2004 to 2012 | 15                         | 30   |      | M6               | 13 | 15         | 30   |    | M6 | 13             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 23,5   | 40   | M8               | 13 | 15               | 30 |
| 2004 to 2012 |                            |      |      | 3/4" BSP         | 16 |            |      |    |    | 3/8" BSP       | 12   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1" BSP           | 18 | 1/2" BSP         | 14 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"1/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2004 to 2012 |                            |      |      | 1"5/16 12 UNF 2B | 20 |            |      |    |    | 7/8" 14 UNF 2B | 17   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 1"1/16 12 UNF 2B | 20 |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8               | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2004 to 2030 | Only with rear body Type A |      |      |                  |    |            |      |    |    |                | Consult us for availability  |  |                  |    |                  |    |

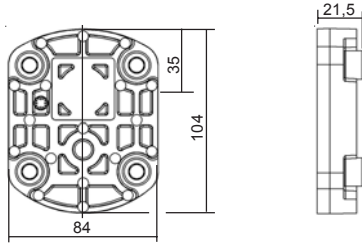
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1300 2/4

**REAR BODIES**

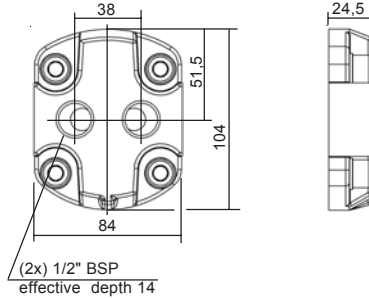
**L**

Standard



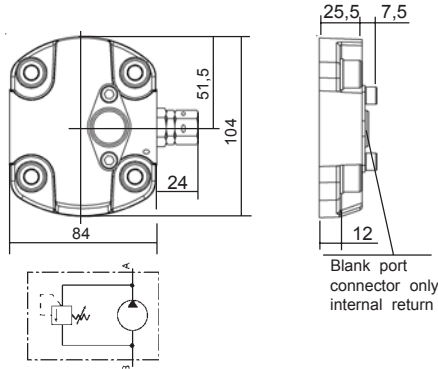
**A**

with ports



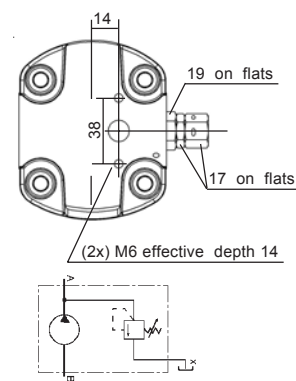
**X**

High pressure relief valve (Adjustable) Internal return



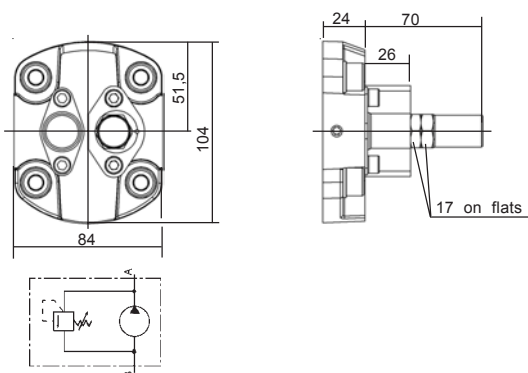
**T**

High pressure relief valve (Adjustable) External return



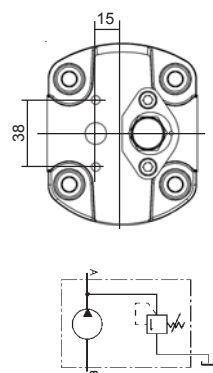
**V**

Low Pressure relief valve (Adjustable) Internal return



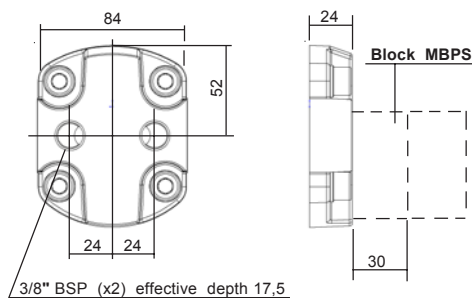
**W**

Low Pressure relief valve (Adjustable) External return



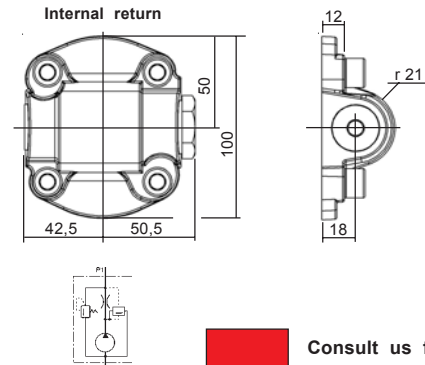
**AR**

with block configuration MBPS



**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1300 3/4**

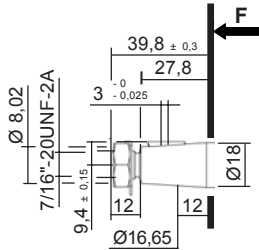
**Consult us for availability**

DRIVING SHAFTS

Tapered

**10**

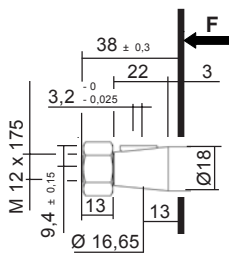
**B02** Cône 1 / 8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1 / 5



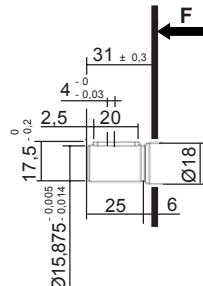
Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

Straight keyed

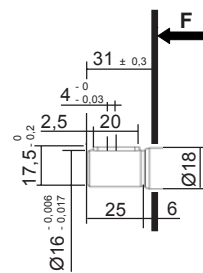
**20**

**A01**



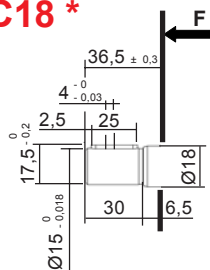
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

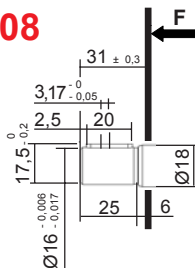
**C18 \***



Maxi transmissible torque  
**40 N.m**

**\* ONLY 2006 to 2012**

**A08**

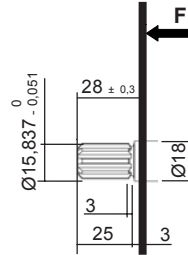


Maxi transmissible torque  
**50 N.m**

Splined

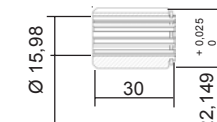
**30**

**A01**



Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle  
Maxi transmissible torque  
**100 N.m**

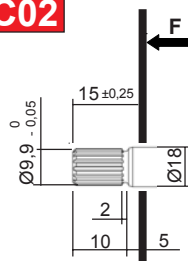
Sleeve coupling 9 teeth / 13 teeth  
Ref.: **K.5041310**  
Mounting with splined shaft **30 A01**



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

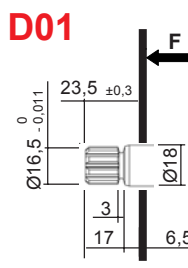
**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

**D01**



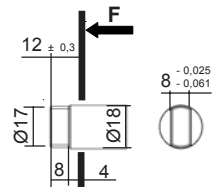
Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

Tang

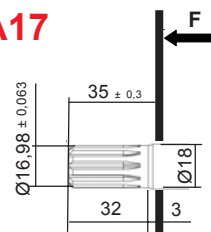
**40**

**C03**



Maxi transmissible torque  
**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque  
**100 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1300 4/4**

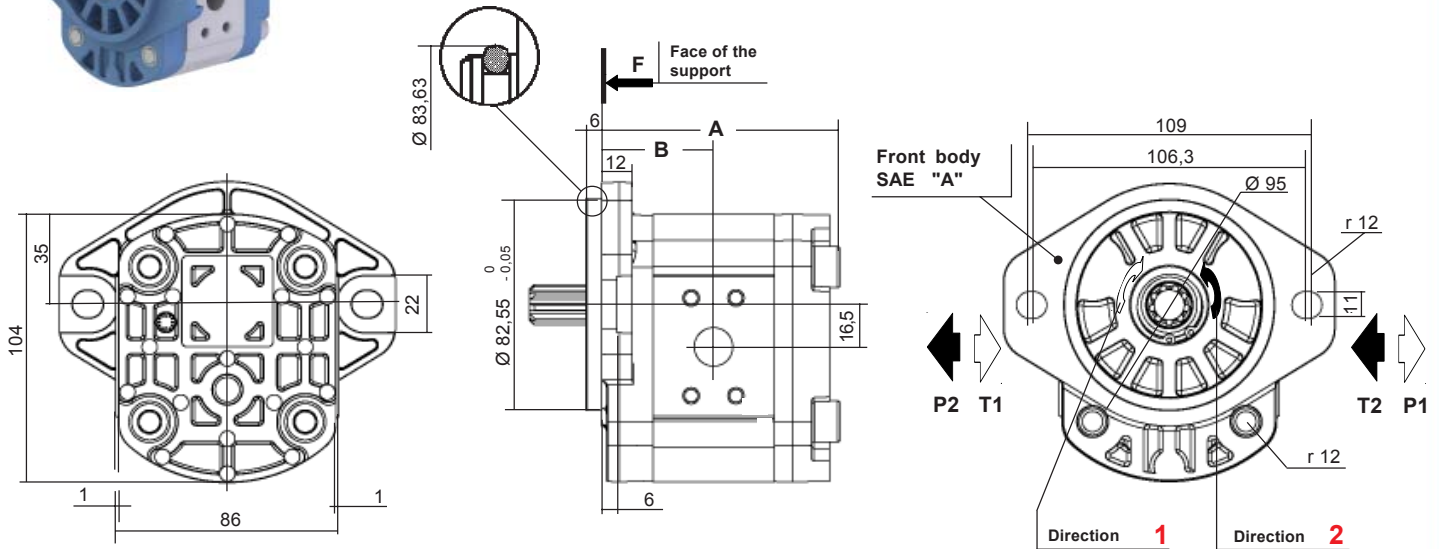
Consult us for availability





|          |         |            |          |         |           |         |        |         |          |
|----------|---------|------------|----------|---------|-----------|---------|--------|---------|----------|
| <b>P</b> | II Sign | <b>AAK</b> | <b>2</b> | VI Sign | <b>HL</b> | IX Sign | X Sign | XI Sign | XII Sign |
|----------|---------|------------|----------|---------|-----------|---------|--------|---------|----------|

For Codification, see data sheet **F.T R 0011**



| CHOICE of the Capacity        | Dimensions |      |
|-------------------------------|------------|------|
|                               | A          | B    |
| 004 - 006 - 008<br>010 - 012  | 92,5       | 43,5 |
| <b>015 - 017</b><br>018 - 022 | 107        | 51   |
| 026 - 030                     | 123        | 59   |

Multiples geared pumps, see data sheet **F.T 20 1306**

Seal kits:  
Nitrile: **K5069810 + K102901**  
Viton: **K5069820 + K104093**  
(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| <b>2004</b> | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500              | 6,97         | 16,2          | 0,91   | 8,70                                  | 1,6                  |
| <b>2006</b> | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500              | 9,67         | 22,5          | 1,26   | 12,07                                 | 1,6                  |
| <b>2008</b> | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500              | 12,37        | 28,8          | 1,62   | 15,43                                 | 1,7                  |
| <b>2010</b> | 10,12                | 280           | 4060 | 240                  | 3480 | 3500              | 15,18        | 35,3          | 1,98   | 18,93                                 | 1,7                  |
| <b>2012</b> | 12                   | 280           | 4060 | 240                  | 3480 | 3500              | 18           | 42            | 2,35   | 22,45                                 | 1,7                  |
| <b>2014</b> | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500              | 20,7         | 48,3          | 2,71   | 25,81                                 | 2                    |
| <b>2015</b> | 15,52                | 250           | 3625 | 210                  | 3045 | 3500              | 23,25        | 52,5          | 3,04   | 29,03                                 | 2,1                  |
| <b>2017</b> | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500              | 25,95        | 60,55         | 3,39   | 32,36                                 | 2,1                  |
| <b>2018</b> | 19,12                | 200           | 2900 | 170                  | 2465 | 3500              | 28,65        | 66,8          | 3,75   | 35,77                                 | 2,2                  |
| <b>2022</b> | 22,87                | 175           | 2537 | 150                  | 2175 | 3500              | 34,2         | 79,8          | 4,30   | 42,78                                 | 2,3                  |
| <b>2026</b> | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000              | 41,4         | 82,8          | 5,16   | 51,63                                 | 2,7                  |
| <b>2030</b> | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000              | 46,8         | 93,6          | 5,77   | 58,36                                 | 2,8                  |

Dimensions readings and approximative characteristics subject to modifications.

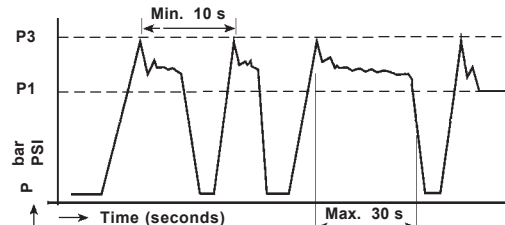
HYDRAULIC GEAR PUMPS SERIES 2

F.T 20 1329 1/4

P1 Maximum pressure in continuous duty.

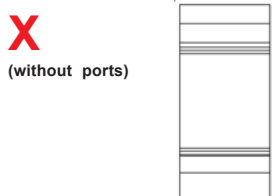
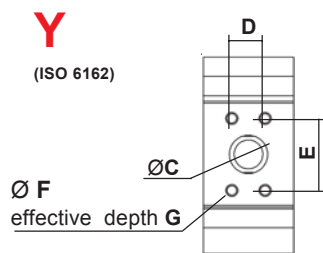
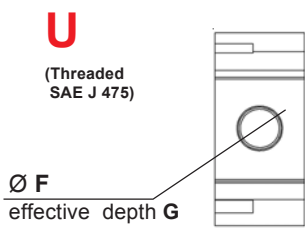
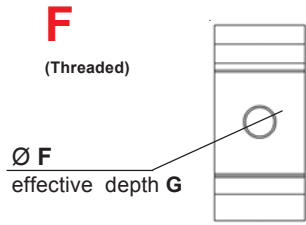
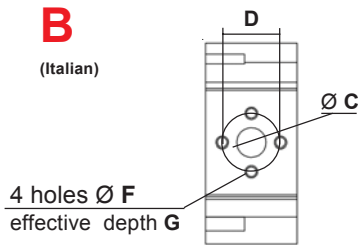
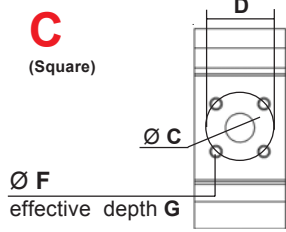
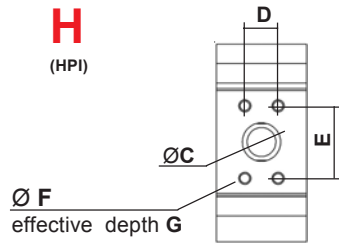
Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                  |    | OUTLET (P) |      |    |    |                | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |                  |    |                  |    |
|--------------|----------------------------|------|------|------------------|----|------------|------|----|----|----------------|--|--|------------------|----|------------------|----|
|              | ØC                         | D    | E    | ØF               | G  | ØC         | D    | E  | ØF | G              | INLET (T)  | OUTLET (P)   |                  |    |                  |    |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6               | 12 | 15         | 17,4 | 38 | M6 | 15             | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |                  |    |                  |    |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6               | 12 | 15         | 17,4 | 38 | M6 | 12             | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |                  |    |                  |    |
| 2004 to 2012 | 20                         | 40   |      | M6               | 12 | 15         | 35   |    | M6 | 12             | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |                  |    |                  |    |
| 2004 to 2012 | 15                         | 30   |      | M6               | 13 | 15         | 30   |    | M6 | 13             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 23,5   | 40   | M8               | 13 | 15               | 30 |
| 2004 to 2012 |                            |      |      | 3/4" BSP         | 16 |            |      |    |    | 3/8" BSP       | 12   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"               | 18 | 1/2" BSP         | 14 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"1/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2004 to 2012 |                            |      |      | 1"5/16 12 UNF 2B | 20 |            |      |    |    | 7/8" 14 UNF 2B | 17   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 1"1/16 12 UNF 2B | 20 |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8               | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2004 to 2030 | Only with rear body Type A |      |      |                  |    |            |      |    |    |                | Consult us for availability  |  |                  |    |                  |    |

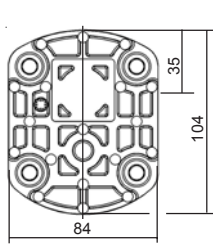
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1329 2/4

REAR BODIES

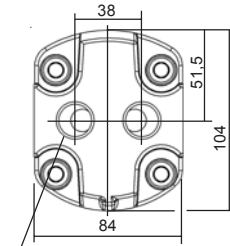
**L**

Standard



**A**

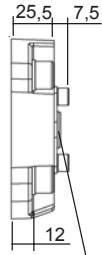
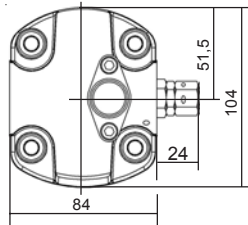
with ports



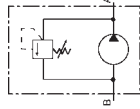
(2x) 1/2" BSP  
effective depth 14

**X**

High pressure relief valve  
(Adjustable) Internal return

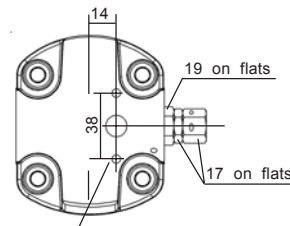


Blank port  
connector only  
internal return

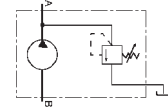


**T**

High pressure relief valve  
(Adjustable) External return

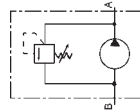
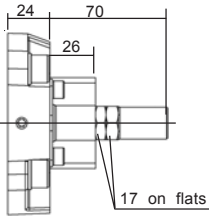
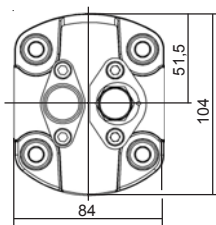


(2x) M6 effective depth 14



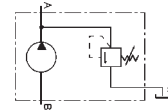
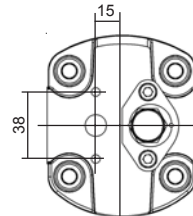
**V**

Low Pressure relief valve  
(Adjustable) Internal return



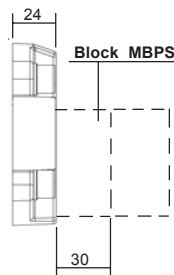
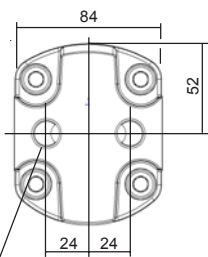
**W**

Low Pressure relief valve  
(Adjustable) External return



**AR**

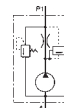
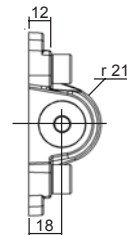
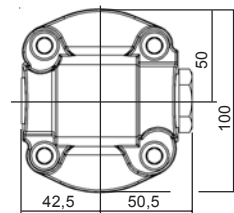
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

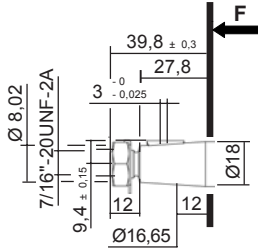
F.T 20 1329 3/4

Consult us for availability

DRIVING SHAFTS

Tapered  
**10**

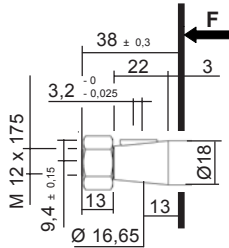
**B02** Cône 1 / 8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1 / 5

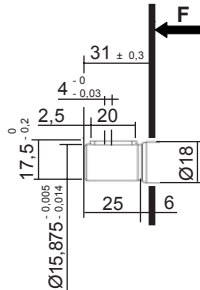


Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

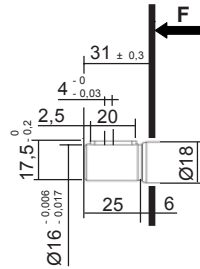
Straight keyed  
**20**

**A01**



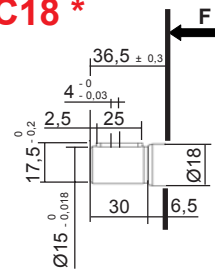
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

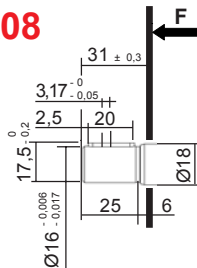
**C18 \***



Maxi transmissible torque  
**40 N.m**

**\* ONLY 2006 to 2012**

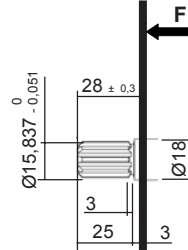
**A08**



Maxi transmissible torque  
**50 N.m**

Splined  
**30**

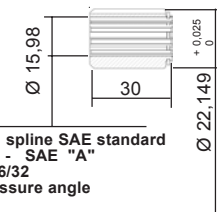
**A01**



Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle

Maxi transmissible torque  
**100 N.m**

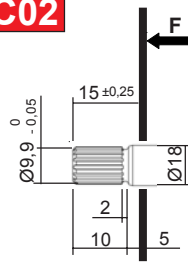
Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310  
Mounting with splinned shaft **30 A01**



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

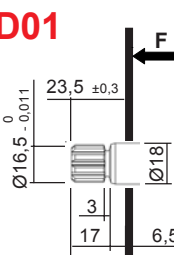
**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

**D01**

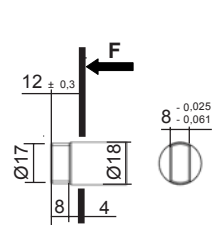


Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

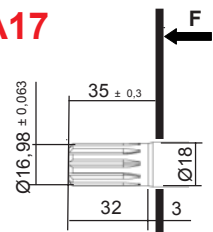
Tang  
**40**

**C03**



Maxi transmissible torque  
**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque  
**100 N.m**

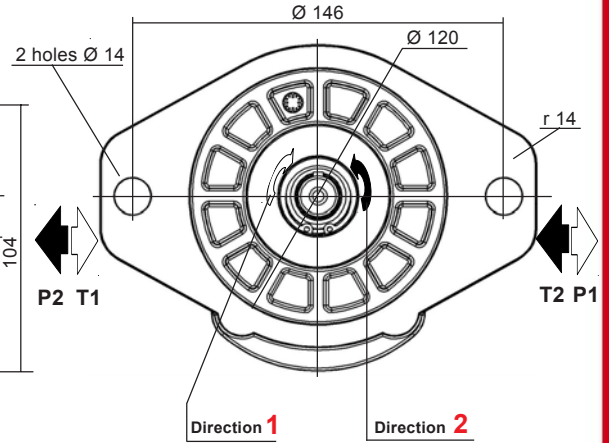
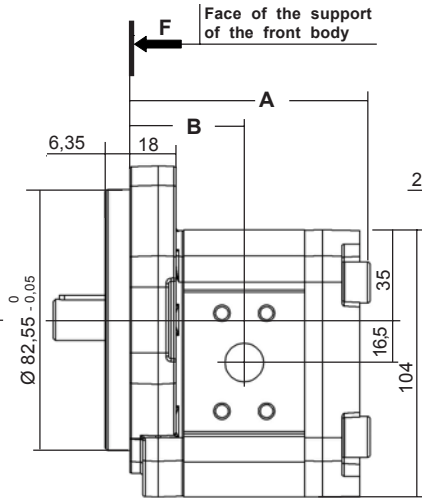
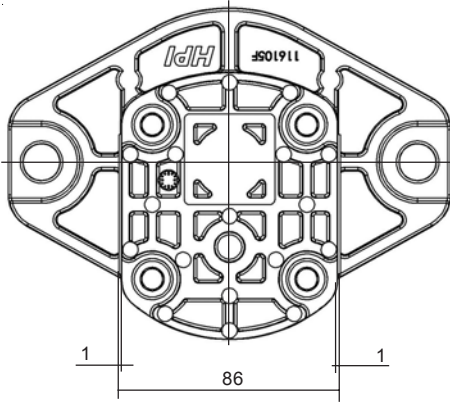
Dimensions readings and approximative characteristics subject to modifications.

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Consult us for availability

**P** II Sign **AF N 2** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity       | Dimensions |      |
|------------------------------|------------|------|
|                              | A          | B    |
| 004 - 006 - 008<br>010 - 012 | 93,5       | 44,5 |
| 014 - 015 - 017<br>018 - 022 | 108        | 52   |
| 026 - 030                    | 124        | 60   |

Multiples geared pumps, see data sheet **F.T 20 1306**

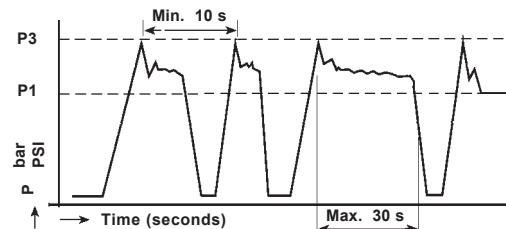
Seal kits:  
Nitrile: **K5069810**  
Viton: **K5069820**  
(For the manufacturings from January 1984)

| MODEL | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |         | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------|----------------------|---------------|------|----------------------|---------|-------------------|--------------|---------------|---|---------------------------------|----------------------|
|       |                      | bar           | PSI  | bar                  | PSI     |                   | at 1500 RPM  | at Max. speed |   |                                 |                      |
|       |                      |               |      | l / min              | l / min |                   |              |               |   |                                 |                      |
| 2004  | 4,65                 | 280           | 4060 | 240                  | 3480    | 3500              | 6,97         | 16,2          | 0,91  | 8,70                            | 1,6                  |
| 2006  | 6,45                 | 280           | 4060 | 240                  | 3480    | 3500              | 9,67         | 22,5          | 1,26  | 12,07                           | 1,6                  |
| 2008  | 8,25                 | 280           | 4060 | 240                  | 3480    | 3500              | 12,37        | 28,8          | 1,62  | 15,43                           | 1,7                  |
| 2010  | 10,12                | 280           | 4060 | 240                  | 3480    | 3500              | 15,18        | 35,3          | 1,98  | 18,93                           | 1,7                  |
| 2012  | 12                   | 280           | 4060 | 240                  | 3480    | 3500              | 18           | 42            | 2,35  | 22,45                           | 1,7                  |
| 2014  | 13,8                 | 250           | 3625 | 210                  | 3045    | 3500              | 20,7         | 48,3          | 2,71  | 25,81                           | 2                    |
| 2015  | 15,52                | 250           | 3625 | 210                  | 3045    | 3500              | 23,25        | 52,5          | 3,04  | 29,03                           | 2,1                  |
| 2017  | 17,3                 | 220           | 3190 | 190                  | 2755    | 3500              | 25,95        | 60,55         | 3,39  | 32,36                           | 2,1                  |
| 2018  | 19,12                | 200           | 2900 | 170                  | 2465    | 3500              | 28,65        | 66,8          | 3,75  | 35,77                           | 2,2                  |
| 2022  | 22,87                | 175           | 2537 | 150                  | 2175    | 3500              | 34,2         | 79,8          | 4,30  | 42,78                           | 2,3                  |
| 2026  | 27,6                 | 175           | 2537 | 150                  | 2175    | 3000              | 41,4         | 82,8          | 5,16  | 51,63                           | 2,7                  |
| 2030  | 31,2                 | 175           | 2537 | 150                  | 2175    | 3000              | 46,8         | 93,6          | 5,77  | 58,36                           | 2,8                  |

P1 Maximum pressure in continuous duty.

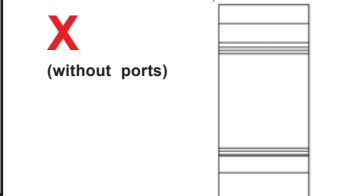
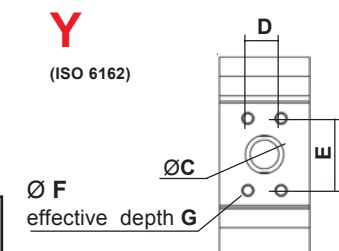
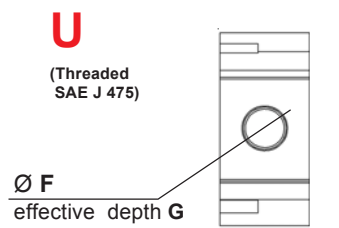
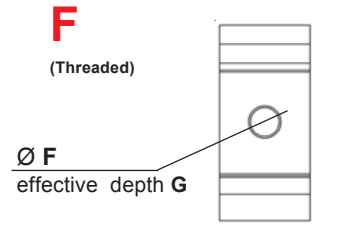
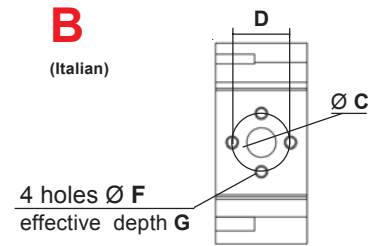
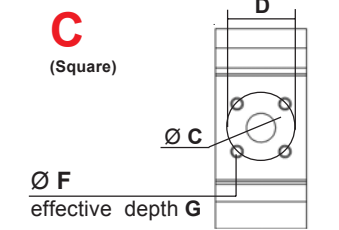
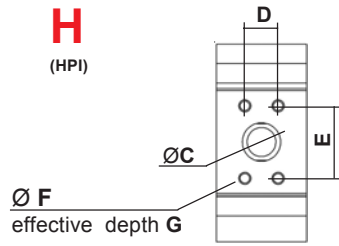
Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                        |    | OUTLET (P) |      |    |    |                        | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |
|--------------|----------------------------|------|------|------------------------|----|------------|------|----|----|------------------------|--|--|
|              | ØC                         | D    | E    | ØF                     | G  | ØC         | D    | E  | ØF | G                      | INLET (T)  | OUTLET (P)   |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6                     | 12 | 15         | 17,4 | 38 | M6 | 15                     | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6                     | 12 | 15         | 17,4 | 38 | M6 | 12                     | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |
| 2004 to 2012 | 20                         | 40   |      | M6                     | 12 | 15         | 35   |    | M6 | 12                     | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |
| 2014 to 2030 |                            |      |      |                        |    |            |      |    |    |                        | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |
| 2004 to 2012 | 15                         | 30   |      | M6                     | 13 | 15         | 30   |    | M6 | 13                     | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |
| 2014 to 2030 |                            |      |      |                        |    |            |      |    |    |                        | 23,5   | 40   |
| 2004 to 2012 |                            |      |      | 3/4" BSP               | 16 |            |      |    |    | 3/8" BSP               | 12   |  |
| 2014 to 2022 |                            |      |      |                        |    |            |      |    |    |                        |  |  |
| 2004 to 2012 |                            |      |      | 1"1/16<br>12 UNF<br>2B | 20 |            |      |    |    | 7/8"<br>14 UNF<br>2B   | 17   |  |
| 2014 to 2022 |                            |      |      |                        |    |            |      |    |    |                        |  |  |
| 2026-2030    |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    |    | 1"1/16<br>12 UNF<br>2B | 20   |  |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8                     | 14 | 15         | 17,4 | 38 | M8 | 14                     |  |  |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10                    | 14 | 15         | 17,4 | 38 | M8 | 14                     |  |  |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10                    | 14 | 15         | 17,4 | 38 | M8 | 14                     |  |  |
| 2004 to 2030 | Only with rear body Type A |      |      |                        |    |            |      |    |    |                        | Consult us for availability  |  |

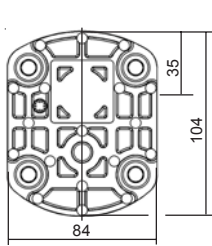
Dimensions readings and approximative characteristics subject to modifications.

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REAR BODIES

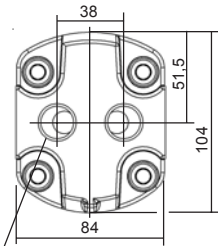
**L**

Standard



**A**

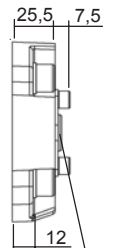
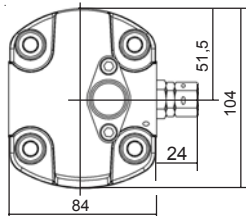
with ports



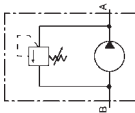
(2x) 1/2" BSP  
effective depth 14

**X**

High pressure relief valve  
(Adjustable) Internal return

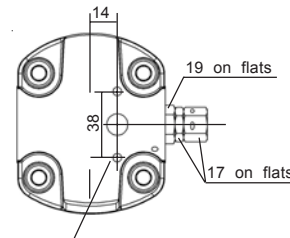


Blank port  
connector only  
internal return

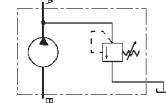


**T**

High pressure relief valve  
(Adjustable) External return

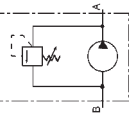
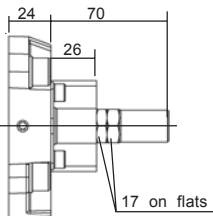
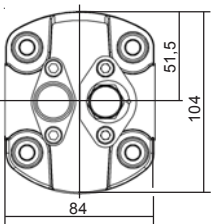


(2x) M6 effective depth 14



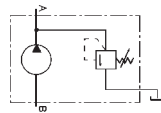
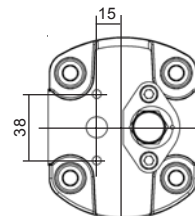
**V**

Low Pressure relief valve  
(Adjustable) Internal return



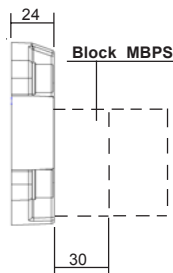
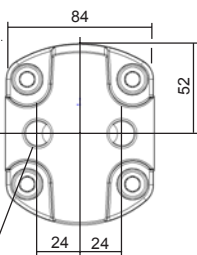
**W**

Low Pressure relief valve  
(Adjustable) External return



**AR**

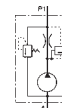
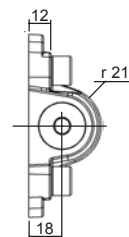
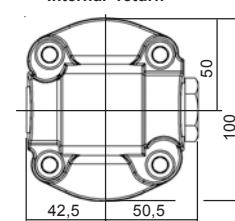
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1366 3/4**



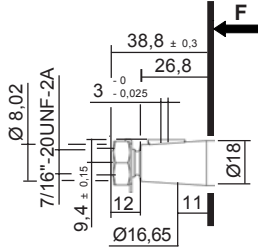
Consult us for availability

DRIVING SHAFTS

Tapered

10

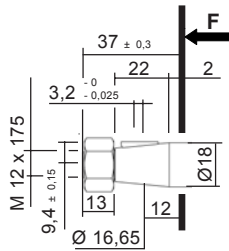
**B02** Cône 1/8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1/5



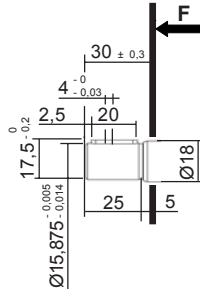
Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

Straight keyed

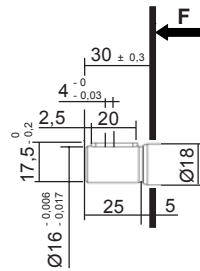
20

**A01**



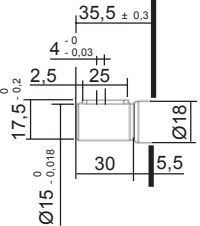
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

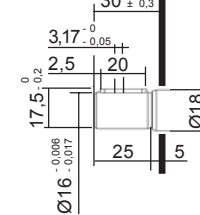
**C18 \***



Maxi transmissible torque  
**40 N.m**

\* ONLY 2006 to 2012

**A08**

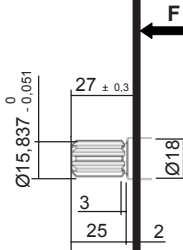


Maxi transmissible torque  
**50 N.m**

Splined

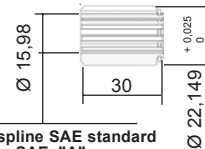
30

**A01**



Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle  
Maxi transmissible torque  
**100 N.m**

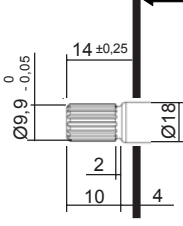
Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310  
Mounting with splinned shaft 30 A01



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

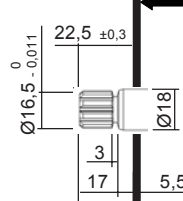
**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

**D01**



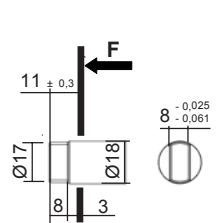
Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

Tang

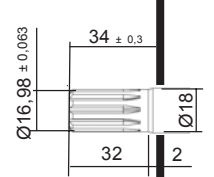
40

**C03**



Maxi transmissible torque  
**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque  
**100 N.m**

Dimensions readings and approximative characteristics subject to modifications.

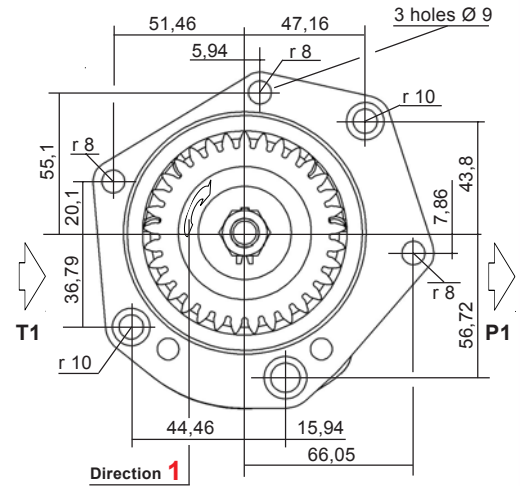
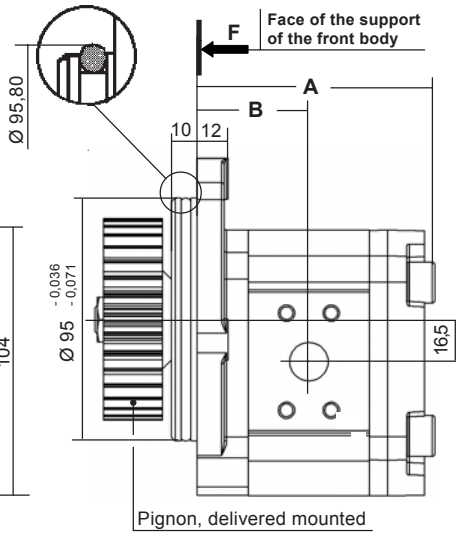
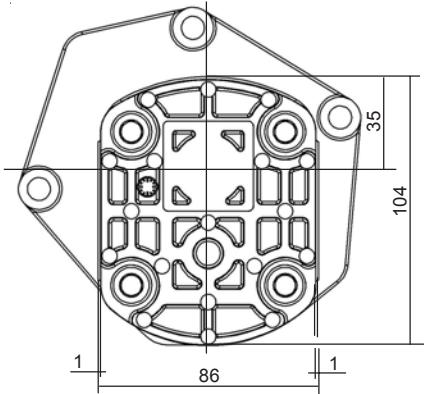
F.T 20 1366 4/4

Consult us for availability



**P 1** **APK 2** | VI Sign | **H L P** **P100 \*** | XI Sign

For CODIFICATION, see data sheet **F.T R 0011**



**CHOICE of the PIGNONS**

|                     | Type 1000 | Type 1100 |
|---------------------|-----------|-----------|
| Nb teeth:           | 28        | 33        |
| Module:             | 2,54      | 2,17      |
| Pressure angle:     | 20°       | 17°       |
| Angle of the helix: | 14°8'     | 14°       |
| Way of the helix:   | left      | left      |

**CHOICE of the Capacity** | Dimensions

|                                     | A    | B    |
|-------------------------------------|------|------|
| 004 - 006 - 008<br>010 - 012        | 92,5 | 43,5 |
| <b>014 - 015 - 017</b><br>018 - 022 | 107  | 51   |
| 026 - 030                           | 123  | 59   |

Multiples geared pumps, see data sheet **F.T 20 1306**

Seal kits:  
Nitrile: **K5069810 + X368928**  
Viton: **K5069820**  
(For the manufacturings from January 1984)

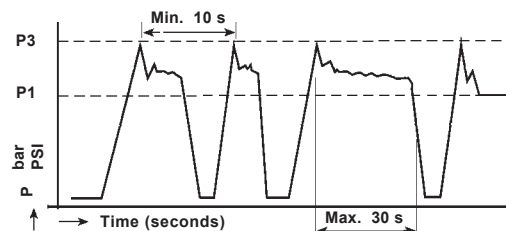
Dimensions readings and approximative characteristics subject to modifications.

| MODEL | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|       |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|       |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| 2004  | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500              | 6,97         | 16,2          | 0,91   | 8,70                                  | 1,6                  |
| 2006  | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500              | 9,67         | 22,5          | 1,26   | 12,07                                 | 1,6                  |
| 2008  | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500              | 12,37        | 28,8          | 1,62   | 15,43                                 | 1,7                  |
| 2010  | 10,12                | 280           | 4060 | 240                  | 3480 | 3500              | 15,18        | 35,3          | 1,98   | 18,93                                 | 1,7                  |
| 2012  | 12                   | 280           | 4060 | 240                  | 3480 | 3500              | 18           | 42            | 2,35   | 22,45                                 | 1,7                  |
| 2014  | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500              | 20,7         | 48,3          | 2,71   | 25,81                                 | 2                    |
| 2015  | 15,52                | 250           | 3625 | 210                  | 3045 | 3500              | 23,25        | 52,5          | 3,04   | 29,03                                 | 2,1                  |
| 2017  | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500              | 25,95        | 60,55         | 3,39   | 32,36                                 | 2,1                  |
| 2018  | 19,12                | 200           | 2900 | 170                  | 2465 | 3500              | 28,65        | 66,8          | 3,75   | 35,77                                 | 2,2                  |
| 2022  | 22,87                | 175           | 2537 | 150                  | 2175 | 3500              | 34,2         | 79,8          | 4,30   | 42,78                                 | 2,3                  |
| 2026  | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000              | 41,4         | 82,8          | 5,16   | 51,63                                 | 2,7                  |
| 2030  | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000              | 46,8         | 93,6          | 5,77   | 58,36                                 | 2,8                  |

P1 Maximum pressure in continuous duty.

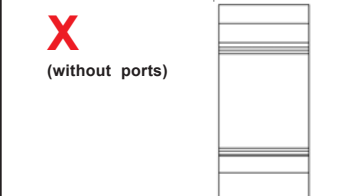
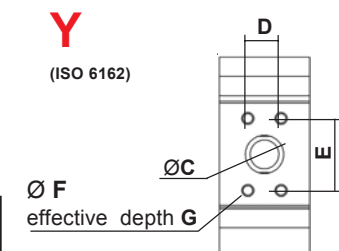
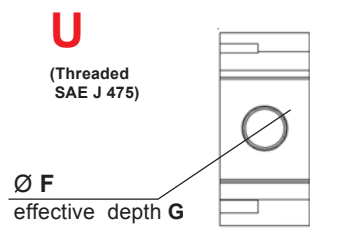
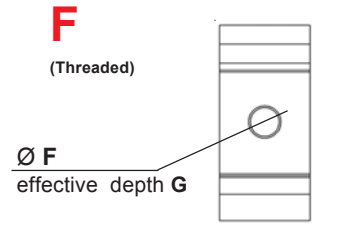
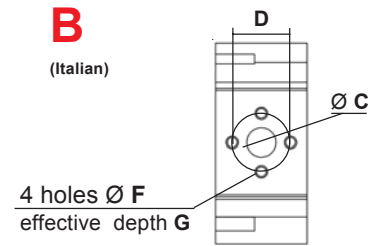
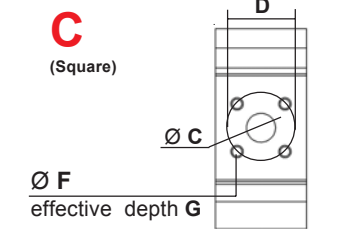
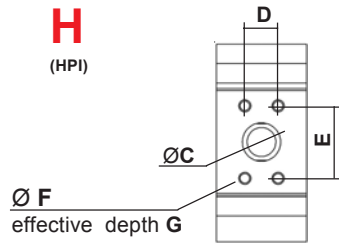
Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                        |    | OUTLET (P) |      |    |    |                        | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |                        |
|--------------|----------------------------|------|------|------------------------|----|------------|------|----|----|------------------------|--|--|------------------------|
|              | ØC                         | D    | E    | ØF                     | G  | ØC         | D    | E  | ØF | G                      | INLET (T)  | OUTLET (P)   |                        |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6                     | 12 | 15         | 17,4 | 38 | M6 | 15                     | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |                        |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6                     | 12 | 15         | 17,4 | 38 | M6 | 12                     | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |                        |
| 2004 to 2012 | 20                         | 40   |      | M6                     | 12 | 15         | 35   |    | M6 | 12                     | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |                        |
| 2014 to 2030 |                            |      |      |                        |    |            |      |    |    |                        | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |                        |
| 2004 to 2012 | 15                         | 30   |      | M6                     | 13 | 15         | 30   |    | M6 | 13                     | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |                        |
| 2014 to 2030 |                            |      |      |                        |    |            |      |    |    |                        | 23,5   | 40   | M8                     |
| 2004 to 2012 |                            |      |      | 3/4" BSP               | 16 |            |      |    |    | 3/8" BSP               | 12   |  |                        |
| 2014 to 2022 |                            |      |      |                        |    |            |      |    |    |                        |  |  | 1"                     |
| 2004 to 2012 |                            |      |      | 1"1/16<br>12 UNF<br>2B | 20 |            |      |    |    | 7/8"<br>14 UNF<br>2B   | 17   |  |                        |
| 2014 to 2022 |                            |      |      |                        |    |            |      |    |    |                        |  |  | 1"5/16<br>12 UNF<br>2B |
| 2026-2030    |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    |    | 1"1/16<br>12 UNF<br>2B | 20   |  |                        |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8                     | 14 | 15         | 17,4 | 38 | M8 | 14                     |  |  |                        |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10                    | 14 | 15         | 17,4 | 38 | M8 | 14                     |  |  |                        |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10                    | 14 | 15         | 17,4 | 38 | M8 | 14                     |  |  |                        |
| 2004 to 2030 | Only with rear body Type A |      |      |                        |    |            |      |    |    |                        |  | Consult us for availability                                      |                        |

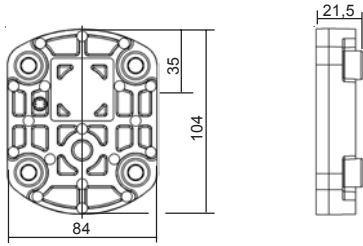
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1368 2/4

**REAR BODIES**

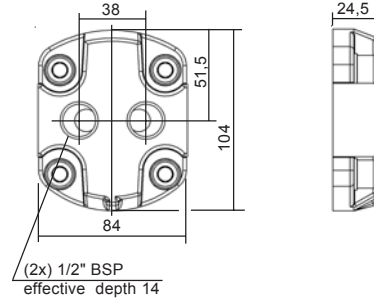
**L**

Standard



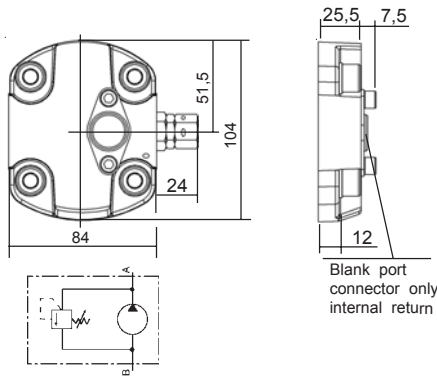
**A**

with ports



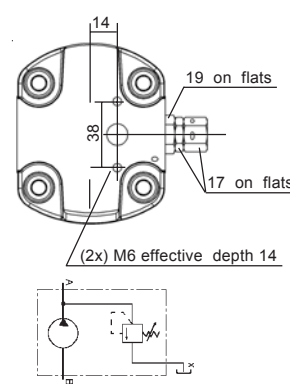
**X**

High pressure relief valve (Adjustable) Internal return



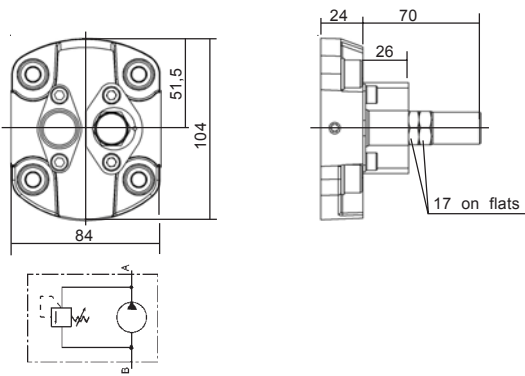
**T**

High pressure relief valve (Adjustable) External return



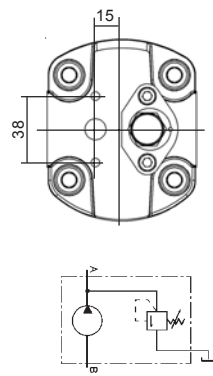
**V**

Low Pressure relief valve (Adjustable) Internal return



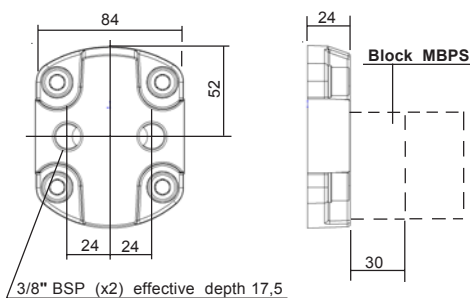
**W**

Low Pressure relief valve (Adjustable) External return



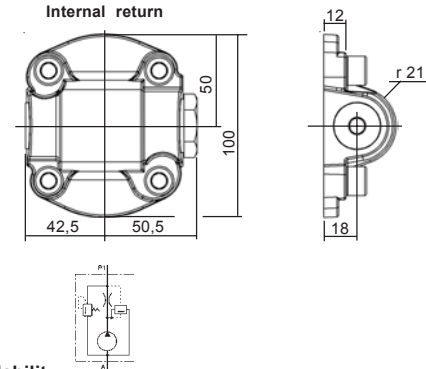
**AR**

with block configuration MBPS



**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1368 3/4**

Consult us for availability

DRIVING SHAFT

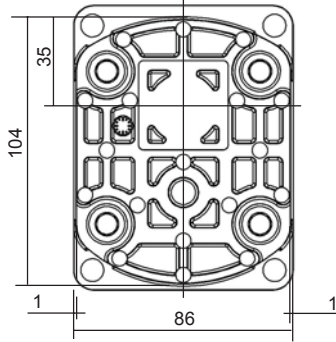
| Tapered  | Straight keyed | Splined   | Tang      |
|--|----------------|-----------|-----------|
| <b>10</b>  | <b>20</b>      | <b>30</b> | <b>40</b> |
| <p><b>B02</b> Taper 1 / 8</p> <p>Supplied with nut: 100 841</p> <p><u>Maxi transmissible torque</u><br/><b>250 N.m</b></p> |                |           |           |

Dimensions readings and approximative characteristics subject to modifications.

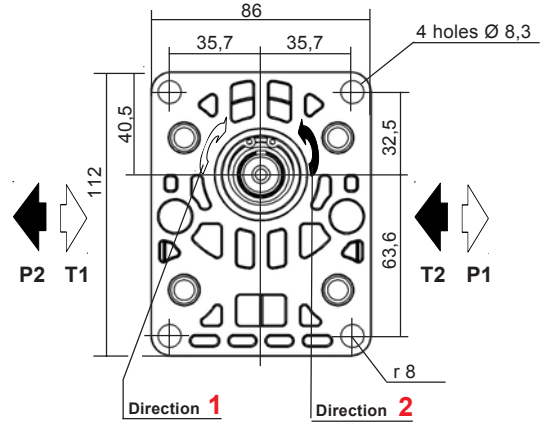
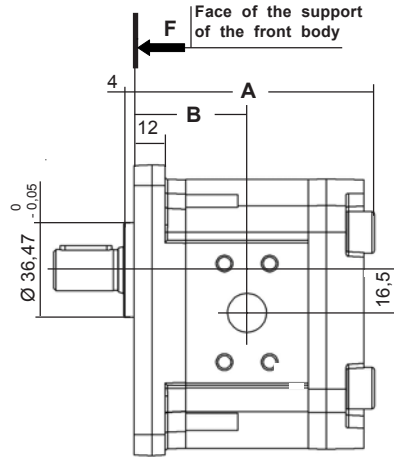
**F.T 20 1368 4/4**



Consult us for availability



For CODIFICATION, see data sheet F.T R 0011



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity              | Dimensions |      |
|-------------------------------------|------------|------|
|                                     | A          | B    |
| 004 - 006 - 008<br>010 - 012        | 92,5       | 43,5 |
| <b>014 - 015 - 017</b><br>018 - 022 | 107        | 51   |
| 026 - 030                           | 123        | 59   |

Multiples geared pumps, see data sheet F.T 20 1306

Seal kits:  
Nitrile: K5069810  
Viton: K5069820  
(For the manufacturings from January 1984)

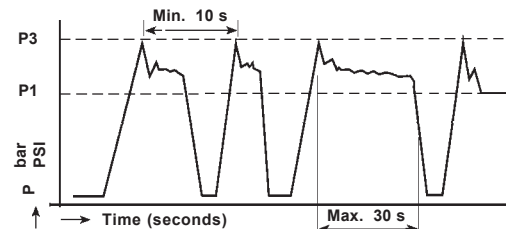
| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| <b>2004</b> | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500              | 6,97         | 16,2          | 0,91   | 8,70                                  | 1,6                  |
| <b>2006</b> | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500              | 9,67         | 22,5          | 1,26   | 12,07                                 | 1,6                  |
| <b>2008</b> | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500              | 12,37        | 28,8          | 1,62   | 15,43                                 | 1,7                  |
| <b>2010</b> | 10,12                | 280           | 4060 | 240                  | 3480 | 3500              | 15,18        | 35,3          | 1,98   | 18,93                                 | 1,7                  |
| <b>2012</b> | 12                   | 280           | 4060 | 240                  | 3480 | 3500              | 18           | 42            | 2,35   | 22,45                                 | 1,7                  |
| <b>2014</b> | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500              | 20,7         | 48,3          | 2,71   | 25,81                                 | 2                    |
| <b>2015</b> | 15,52                | 250           | 3625 | 210                  | 3045 | 3500              | 23,25        | 52,5          | 3,04   | 29,03                                 | 2,1                  |
| <b>2017</b> | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500              | 25,95        | 60,55         | 3,39   | 32,36                                 | 2,1                  |
| <b>2018</b> | 19,12                | 200           | 2900 | 170                  | 2465 | 3500              | 28,65        | 66,8          | 3,75   | 35,77                                 | 2,2                  |
| <b>2022</b> | 22,87                | 175           | 2537 | 150                  | 2175 | 3500              | 34,2         | 79,8          | 4,30   | 42,78                                 | 2,3                  |
| <b>2026</b> | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000              | 41,4         | 82,8          | 5,16   | 51,63                                 | 2,7                  |
| <b>2030</b> | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000              | 46,8         | 93,6          | 5,77   | 58,36                                 | 2,8                  |

F.T 20 1301 1/4

P1 Maximum pressure in continuous duty.

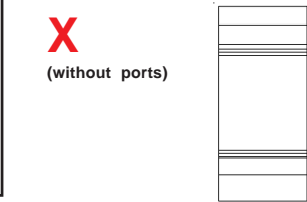
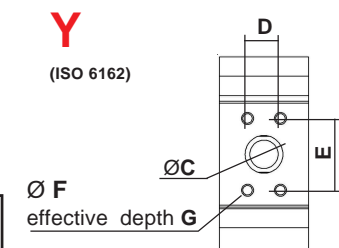
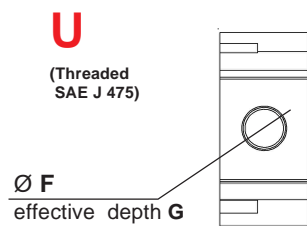
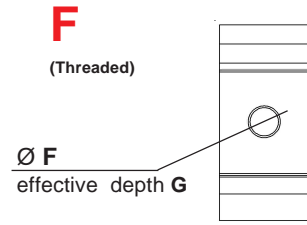
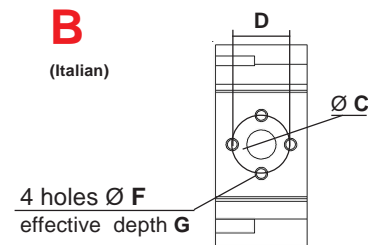
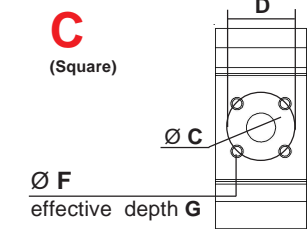
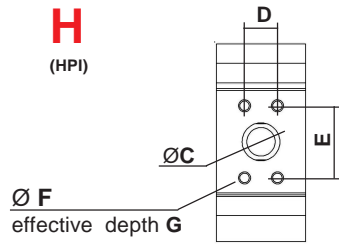
Maximum Pressure ⇒

P3 Allowable peak pressure.



  Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                  |    | OUTLET (P) |      |    |    |                | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |                  |    |                  |    |
|--------------|----------------------------|------|------|------------------|----|------------|------|----|----|----------------|--|--|------------------|----|------------------|----|
|              | ØC                         | D    | E    | ØF               | G  | ØC         | D    | E  | ØF | G              | INLET (T)  | OUTLET (P)   |                  |    |                  |    |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6               | 12 | 15         | 17,4 | 38 | M6 | 15             | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.504994                        |                  |    |                  |    |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6               | 12 | 15         | 17,4 | 38 | M6 | 12             | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |                  |    |                  |    |
| 2004 to 2012 | 20                         | 40   |      | M6               | 12 | 15         | 35   |    | M6 | 12             | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |                  |    |                  |    |
| 2004 to 2012 | 15                         | 30   |      | M6               | 13 | 15         | 30   |    | M6 | 13             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 23,5   | 40   | M8               | 13 | 15               | 30 |
| 2004 to 2012 |                            |      |      | 3/4" BSP         | 16 |            |      |    |    | 3/8" BSP       | 12   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1" BSP           | 18 | 1/2" BSP         | 14 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"1/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2004 to 2012 |                            |      |      | 1"5/16 12 UNF 2B | 20 |            |      |    |    | 7/8" 14 UNF 2B | 17   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 1"1/16 12 UNF 2B | 20 |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8               | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2004 to 2030 | Only with rear body Type A |      |      |                  |    |            |      |    |    |                | Consult us for availability  |  |                  |    |                  |    |

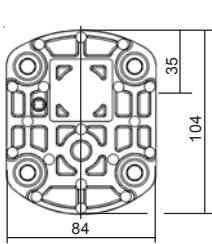
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1301 2/4

**REAR BODIES**

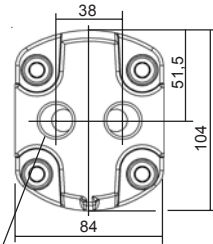
**L**

Standard



**A**

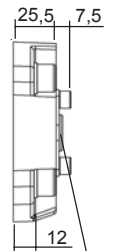
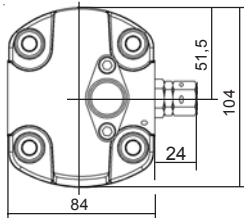
with ports



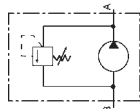
(2x) 1/2" BSP  
effective depth 14

**X**

High pressure relief valve  
(Adjustable) Internal return

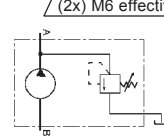
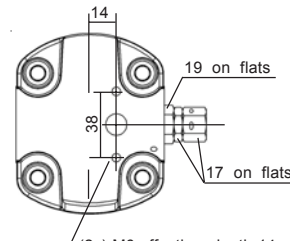


Blank port  
connector only  
internal return



**T**

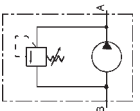
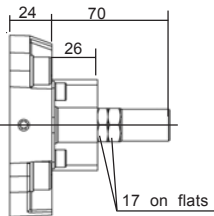
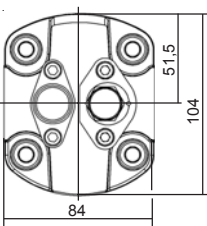
High pressure relief valve  
(Adjustable) External return



(2x) M6 effective depth 14

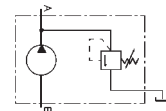
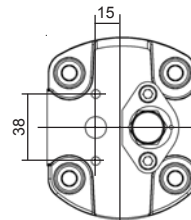
**V**

Low Pressure relief valve  
(Adjustable) Internal return



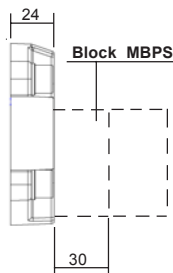
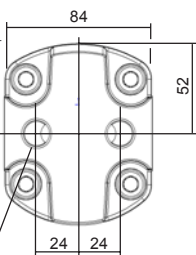
**W**

Low Pressure relief valve  
(Adjustable) External return



**AR**

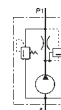
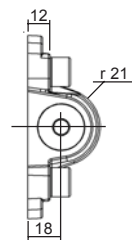
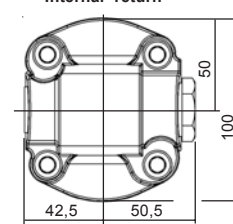
with block configuration MBPS



3/8" BSP (x2) effective depth 17,5

**Q**

Flow control  
Internal return



Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

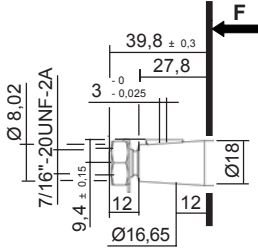
**F.T 20 1301 3/4**

DRIVING SHAFTS

Tapered

**10**

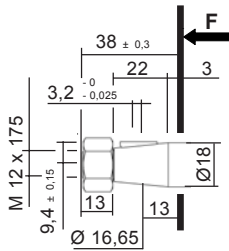
**B02** Cône 1 / 8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1 / 5



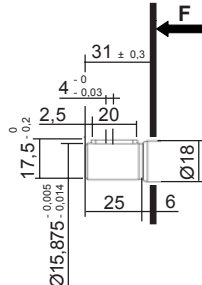
Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

Straight keyed

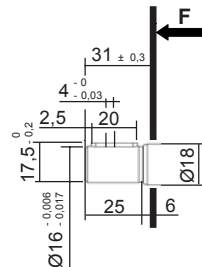
**20**

**A01**



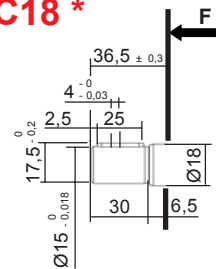
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

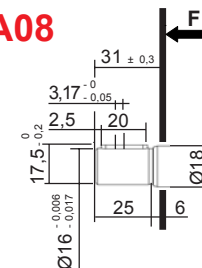
**C18 \***



Maxi transmissible torque  
**40 N.m**

**\* ONLY 2006 to 2012**

**A08**

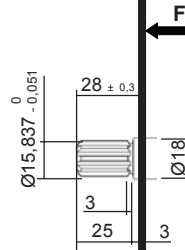


Maxi transmissible torque  
**50 N.m**

Splined

**30**

**A01**

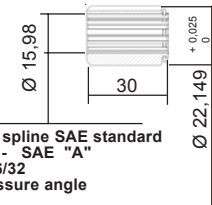


Involute spline SAE Standard  
9 teeth - Flat root  
30° Pressure angle

Maxi transmissible torque  
**100 N.m**

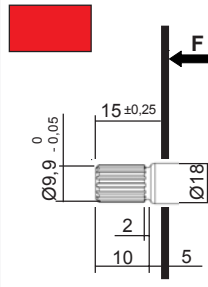
Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310

Mounting with splinned shaft **30 A01**



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

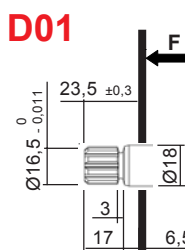
Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

**D01**



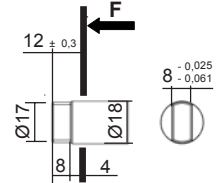
Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

Tang

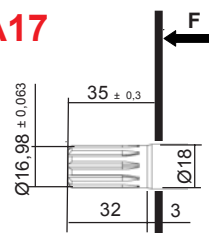
**40**

**C03**



Maxi transmissible torque  
**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque  
**100 N.m**

Dimensions readings and approximative characteristics subject to modifications.

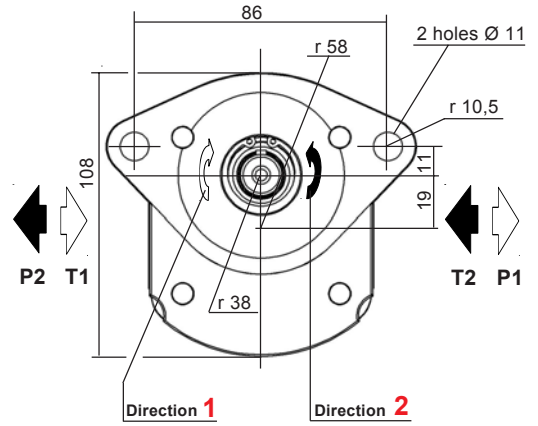
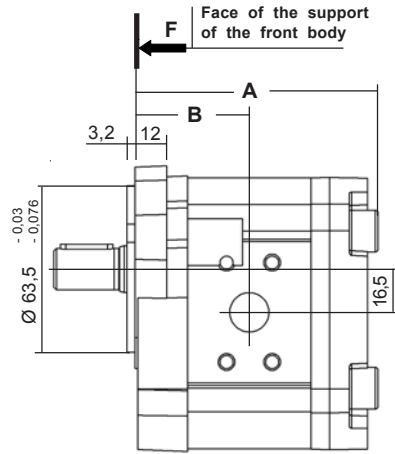
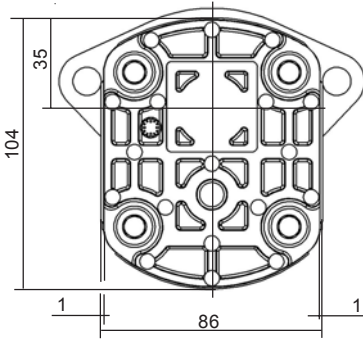
**F.T 20 1301 4/4**

Consult us for availability



P II Sign **CAN 2** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity              | Dimensions |      |
|-------------------------------------|------------|------|
|                                     | A          | B    |
| 004 - 006 - 008<br>010 - 012        | 92,5       | 43,5 |
| <b>014 - 015 - 017</b><br>018 - 022 | 107        | 51   |
| 026 - 030                           | 123        | 59   |

Multiples geared pumps, see data sheet **F.T 20 1306**

Seal kits:  
Nitrile: **K5069810**  
Viton: **K5069820**  
(For the manufacturings from January 1984)

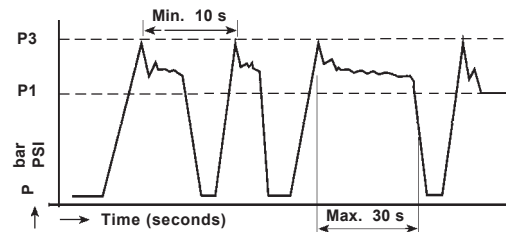
| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| <b>2004</b> | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500              | 6,97         | 16,2          | 0,91   | 8,70                                  | 1,6                  |
| <b>2006</b> | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500              | 9,67         | 22,5          | 1,26   | 12,07                                 | 1,6                  |
| <b>2008</b> | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500              | 12,37        | 28,8          | 1,62   | 15,43                                 | 1,7                  |
| <b>2010</b> | 10,12                | 280           | 4060 | 240                  | 3480 | 3500              | 15,18        | 35,3          | 1,98   | 18,93                                 | 1,7                  |
| <b>2012</b> | 12                   | 280           | 4060 | 240                  | 3480 | 3500              | 18           | 42            | 2,35   | 22,45                                 | 1,7                  |
| <b>2014</b> | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500              | 20,7         | 48,3          | 2,71   | 25,81                                 | 2                    |
| <b>2015</b> | 15,52                | 250           | 3625 | 210                  | 3045 | 3500              | 23,25        | 52,5          | 3,04   | 29,03                                 | 2,1                  |
| <b>2017</b> | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500              | 25,95        | 60,55         | 3,39   | 32,36                                 | 2,1                  |
| <b>2018</b> | 19,12                | 200           | 2900 | 170                  | 2465 | 3500              | 28,65        | 66,8          | 3,75   | 35,77                                 | 2,2                  |
| <b>2022</b> | 22,87                | 175           | 2537 | 150                  | 2175 | 3500              | 34,2         | 79,8          | 4,30   | 42,78                                 | 2,3                  |
| <b>2026</b> | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000              | 41,4         | 82,8          | 5,16   | 51,63                                 | 2,7                  |
| <b>2030</b> | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000              | 46,8         | 93,6          | 5,77   | 58,36                                 | 2,8                  |

**F.T 20 1302 1/4**

P1 Maximum pressure in continuous duty.

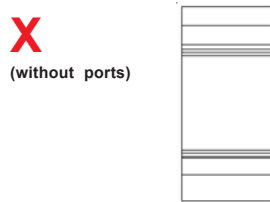
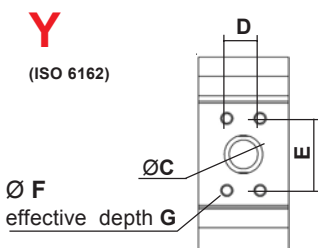
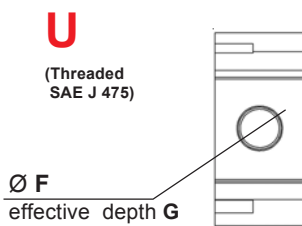
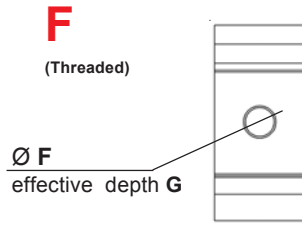
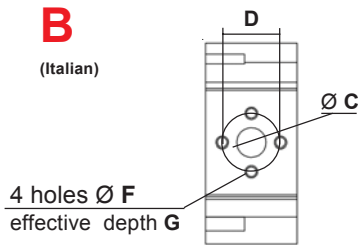
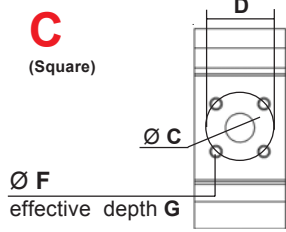
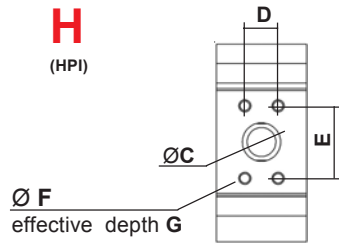
Maximum Pressure ⇒

P3 Allowable peak pressure.



  Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                  |    | OUTLET (P) |      |    |    |                | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |                  |    |                  |    |
|--------------|----------------------------|------|------|------------------|----|------------|------|----|----|----------------|--|--|------------------|----|------------------|----|
|              | ØC                         | D    | E    | ØF               | G  | ØC         | D    | E  | ØF | G              | INLET (T)  | OUTLET (P)   |                  |    |                  |    |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6               | 12 | 15         | 17,4 | 38 | M6 | 15             | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |                  |    |                  |    |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6               | 12 | 15         | 17,4 | 38 | M6 | 12             | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |                  |    |                  |    |
| 2004 to 2012 | 20                         | 40   |      | M6               | 12 | 15         | 35   |    | M6 | 12             | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |                  |    |                  |    |
| 2004 to 2012 | 15                         | 30   |      | M6               | 13 | 15         | 30   |    | M6 | 13             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 23,5   | 40   | M8               | 13 | 15               | 30 |
| 2004 to 2012 |                            |      |      | 3/4" BSP         | 16 |            |      |    |    | 3/8" BSP       | 12   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"               | 18 | 1/2" BSP         | 14 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"1/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2004 to 2012 |                            |      |      | 1"5/16 12 UNF 2B | 20 |            |      |    |    | 7/8" 14 UNF 2B | 17   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 1"1/16 12 UNF 2B | 20 |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8               | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2004 to 2030 | Only with rear body Type A |      |      |                  |    |            |      |    |    |                | Consult us for availability  |  |                  |    |                  |    |

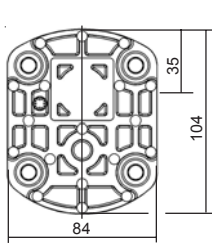
Dimensions readings and approximative characteristics subject to modifications.

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**REAR BODIES**

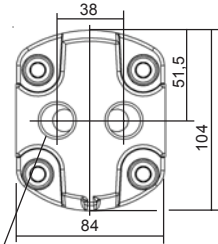
**L**

Standard



**A**

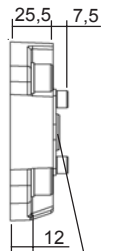
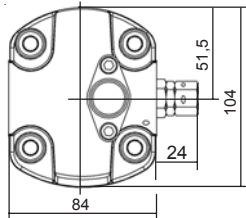
with ports



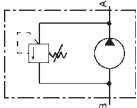
(2x) 1/2" BSP  
effective depth 14

**X**

High pressure relief valve  
(Adjustable) Internal return

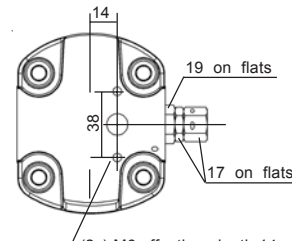


Blank port  
connector only  
internal return

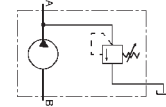


**T**

High pressure relief valve  
(Adjustable) External return

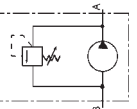
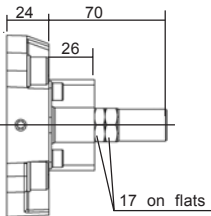
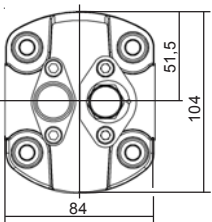


(2x) M6 effective depth 14



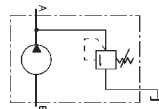
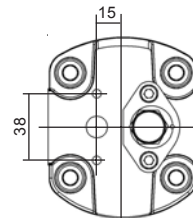
**V**

Low Pressure relief valve  
(Adjustable) Internal return



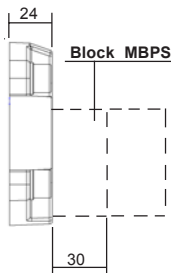
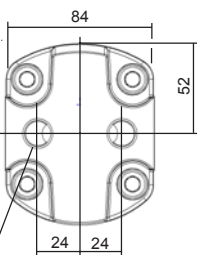
**W**

Low Pressure relief valve  
(Adjustable) External return



**AR**

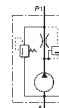
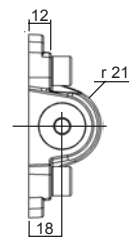
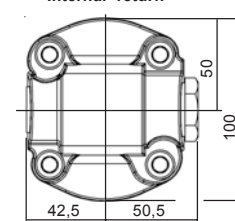
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1302 3/4**

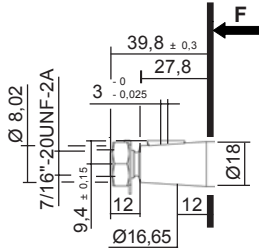
Consult us for availability

DRIVING SHAFTS

Tapered

**10**

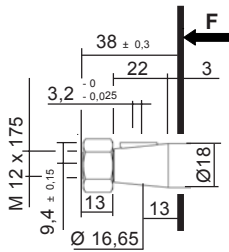
**B02** Cône 1 / 8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1 / 5



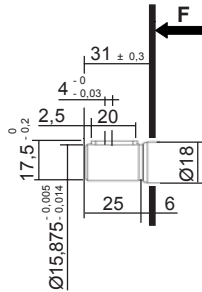
Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

Straight keyed

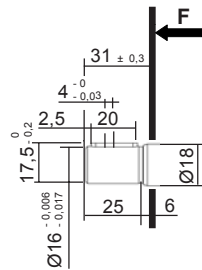
**20**

**A01**



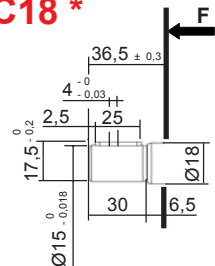
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

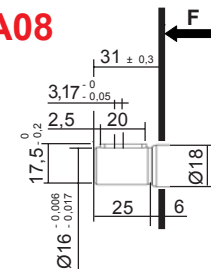
**C18 \***



Maxi transmissible torque  
**40 N.m**

**\* ONLY 2006 to 2012**

**A08**

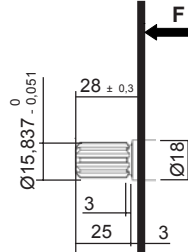


Maxi transmissible torque  
**50 N.m**

Splined

**30**

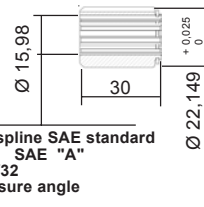
**A01**



Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle

Maxi transmissible torque  
**100 N.m**

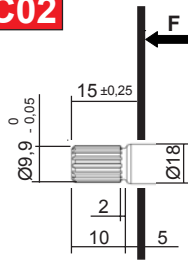
Sleeve coupling 9 teeth / 13 teeth  
Ref.: **K.5041310**  
Mounting with splined shaft **30 A01**



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

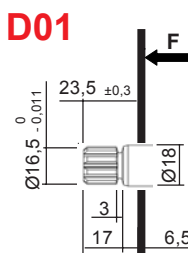
**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

**D01**



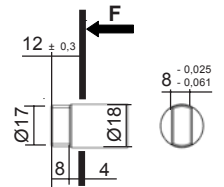
Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

Tang

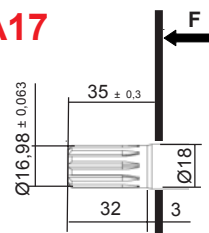
**40**

**C03**



Maxi transmissible torque  
**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque  
**100 N.m**

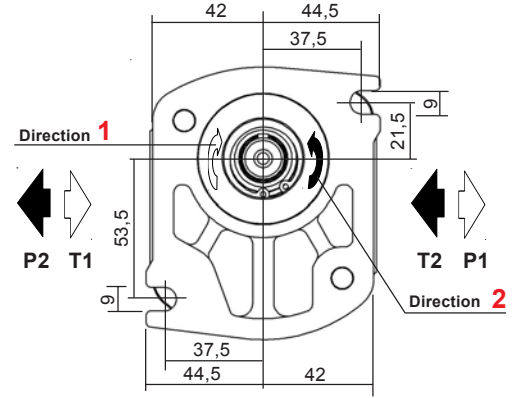
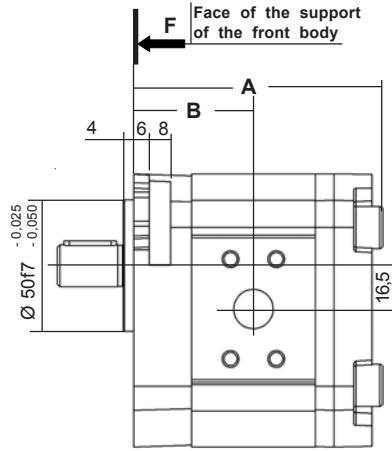
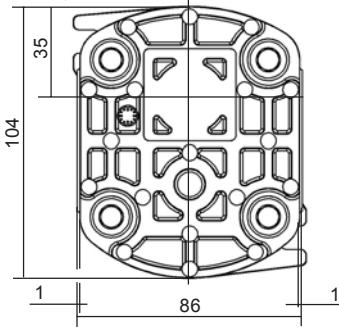
Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1302 4/4**

Consult us for availability

**P** II Sign **CE N 2** VI Sign **H L** IX Sign **X** Sign **XI** Sign **XII** Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity       | Dimensions |      |
|------------------------------|------------|------|
|                              | A          | B    |
| 004 - 006 - 008<br>010 - 012 | 93,5       | 44,5 |
| 014 - 015 - 017<br>018 - 022 | 108        | 52   |
| 026 - 030                    | 124        | 60   |

Multiples geared pumps, see data sheet **F.T 20 1306**

Seal kits:  
Nitrile: **K5069810**  
Viton: **K5069820**  
(For the manufacturings from January 1984)

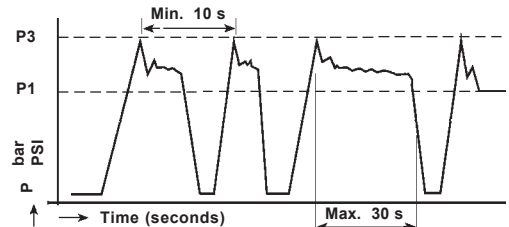
| MODEL | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|---|---------------------------------|----------------------|
|       |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |   |                                 |                      |
|       |                      |               |      |                      |      |                   | l / min      | l / min       |   |                                 |                      |
| 2004  | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500              | 6,97         | 16,2          | 0,91  | 8,70                            | 1,6                  |
| 2006  | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500              | 9,67         | 22,5          | 1,26  | 12,07                           | 1,6                  |
| 2008  | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500              | 12,37        | 28,8          | 1,62  | 15,43                           | 1,7                  |
| 2010  | 10,12                | 280           | 4060 | 240                  | 3480 | 3500              | 15,18        | 35,3          | 1,98  | 18,93                           | 1,7                  |
| 2012  | 12                   | 280           | 4060 | 240                  | 3480 | 3500              | 18           | 42            | 2,35  | 22,45                           | 1,7                  |
| 2014  | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500              | 20,7         | 48,3          | 2,71  | 25,81                           | 2                    |
| 2015  | 15,52                | 250           | 3625 | 210                  | 3045 | 3500              | 23,25        | 52,5          | 3,04  | 29,03                           | 2,1                  |
| 2017  | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500              | 25,95        | 60,55         | 3,39  | 32,36                           | 2,1                  |
| 2018  | 19,12                | 200           | 2900 | 170                  | 2465 | 3500              | 28,65        | 66,8          | 3,75  | 35,77                           | 2,2                  |
| 2022  | 22,87                | 175           | 2537 | 150                  | 2175 | 3500              | 34,2         | 79,8          | 4,30  | 42,78                           | 2,3                  |
| 2026  | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000              | 41,4         | 82,8          | 5,16  | 51,63                           | 2,7                  |
| 2030  | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000              | 46,8         | 93,6          | 5,77  | 58,36                           | 2,8                  |

**F.T 20 1303 1/4**

P1 Maximum pressure in continuous duty.

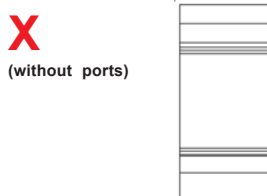
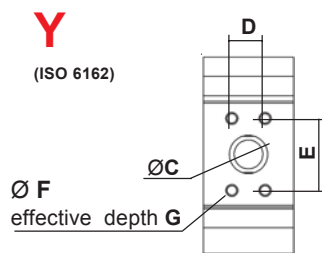
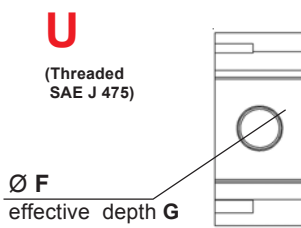
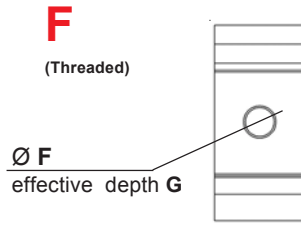
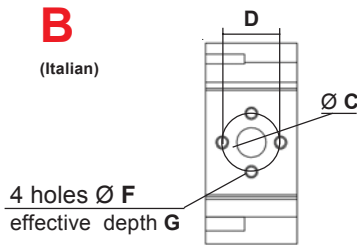
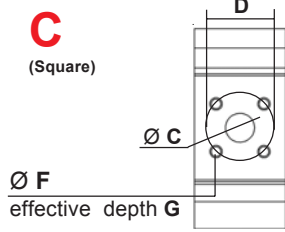
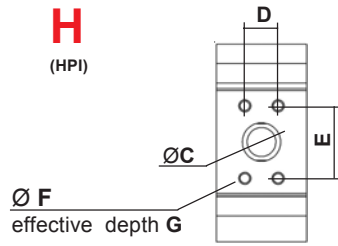
Maximum Pressure ⇒

P3 Allowable peak pressure.



  Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                  |    | OUTLET (P) |      |    |    |                | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |                  |    |                  |    |
|--------------|----------------------------|------|------|------------------|----|------------|------|----|----|----------------|--|--|------------------|----|------------------|----|
|              | ØC                         | D    | E    | ØF               | G  | ØC         | D    | E  | ØF | G              | INLET (T)  | OUTLET (P)   |                  |    |                  |    |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6               | 12 | 15         | 17,4 | 38 | M6 | 15             | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |                  |    |                  |    |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6               | 12 | 15         | 17,4 | 38 | M6 | 12             | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |                  |    |                  |    |
| 2004 to 2012 | 20                         | 40   |      | M6               | 12 | 15         | 35   |    | M6 | 12             | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |                  |    |                  |    |
| 2004 to 2012 | 15                         | 30   |      | M6               | 13 | 15         | 30   |    | M6 | 13             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 23,5   | 40   | M8               | 13 | 15               | 30 |
| 2004 to 2012 |                            |      |      | 3/4" BSP         | 16 |            |      |    |    | 3/8" BSP       | 12   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1" BSP           | 18 | 1/2" BSP         | 14 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"1/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2004 to 2012 |                            |      |      | 1"5/16 12 UNF 2B | 20 |            |      |    |    | 7/8" 14 UNF 2B | 17   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 1"1/16 12 UNF 2B | 20 |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8               | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2004 to 2030 | Only with rear body Type A |      |      |                  |    |            |      |    |    |                | Consult us for availability  |  |                  |    |                  |    |

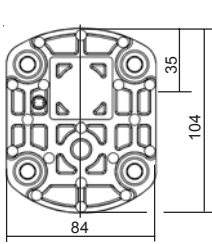
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1303 2/4

REAR BODIES

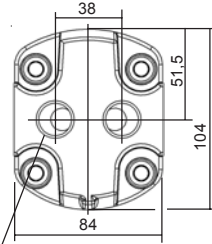
**L**

Standard



**A**

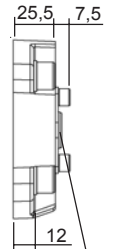
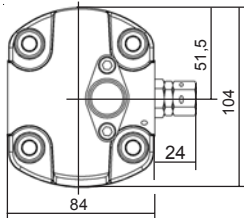
with ports



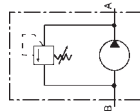
(2x) 1/2" BSP  
effective depth 14

**X**

High pressure relief valve  
(Adjustable) Internal return

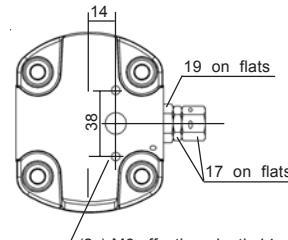


Blank port  
connector only  
internal return

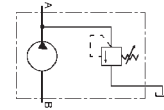


**T**

High pressure relief valve  
(Adjustable) External return

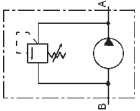
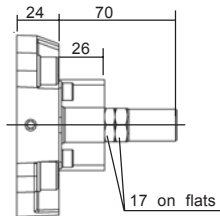
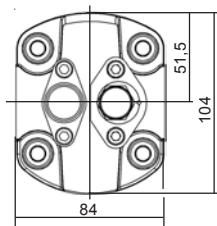


(2x) M6 effective depth 14



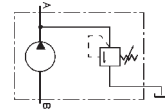
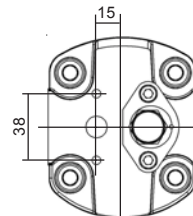
**V**

Low Pressure relief valve  
(Adjustable) Internal return



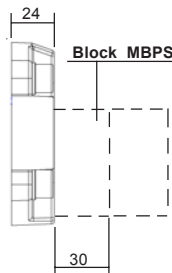
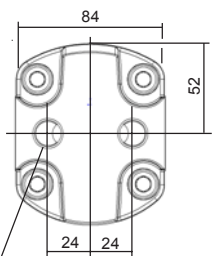
**W**

Low Pressure relief valve  
(Adjustable) External return



**AR**

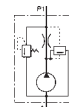
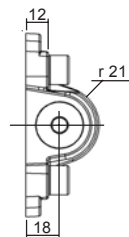
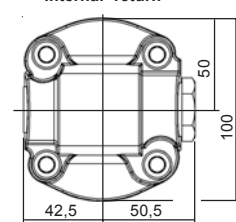
with block configuration MBPS



3/8" BSP (x2) effective depth 17,5

**Q**

Flow control  
Internal return



Consult us for availability

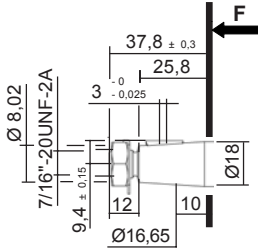
Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1303 3/4**

DRIVING SHAFTS

Tapered  
**10**

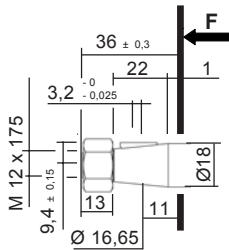
**B02** Cône 1/8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1/5

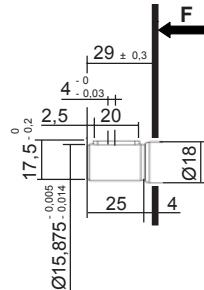


Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

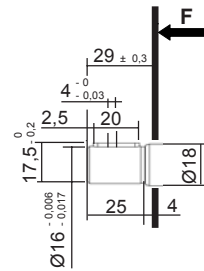
Straight keyed  
**20**

**A01**



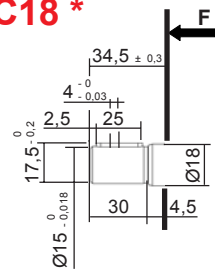
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

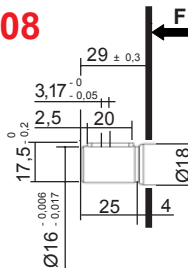
**C18 \***



Maxi transmissible torque  
**40 N.m**

**\* ONLY 2006 to 2012**

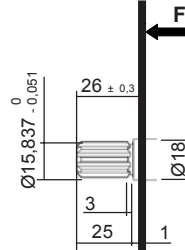
**A08**



Maxi transmissible torque  
**50 N.m**

Splined  
**30**

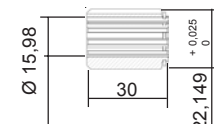
**A01**



Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle

Maxi transmissible torque  
**100 N.m**

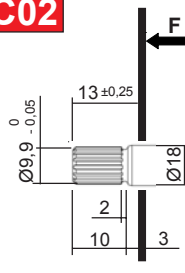
Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310  
Mounting with splined shaft **30 A01**



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

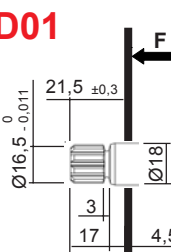
**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

**D01**

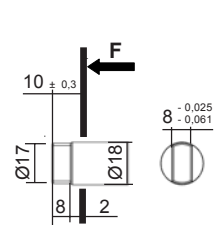


Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

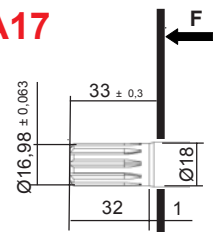
Tang  
**40**

**C03**



Maxi transmissible torque  
**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque  
**100 N.m**

Dimensions readings and approximative characteristics subject to modifications.

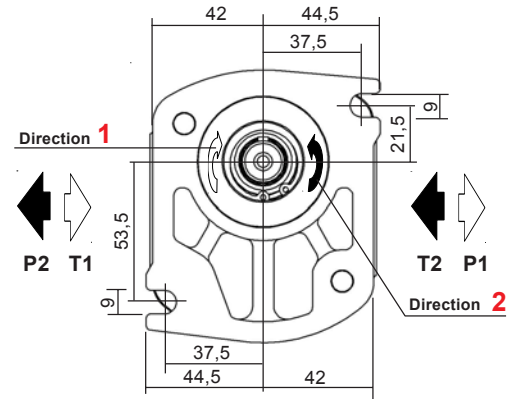
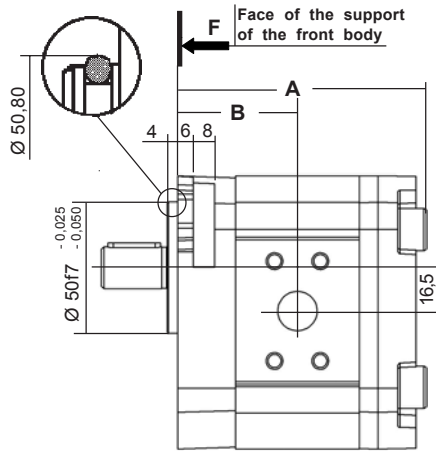
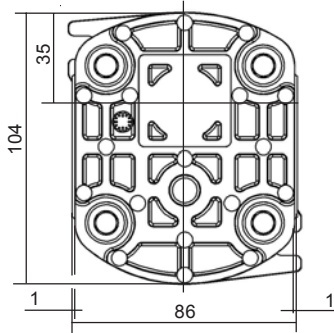
**F.T 20 1303 4/4**

Consult us for availability



|   |         |            |          |         |           |         |        |         |          |
|---|---------|------------|----------|---------|-----------|---------|--------|---------|----------|
| P | II Sign | <b>CEK</b> | <b>2</b> | VI Sign | <b>HL</b> | IX Sign | X Sign | XI Sign | XII Sign |
|---|---------|------------|----------|---------|-----------|---------|--------|---------|----------|

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity              | Dimensions |      |
|-------------------------------------|------------|------|
|                                     | A          | B    |
| 004 - 006 - 008<br>010 - 012        | 93,5       | 44,5 |
| <b>014 - 015 - 017</b><br>018 - 022 | 108        | 52   |
| 026 - 030                           | 124        | 60   |

Multiples geared pumps, see data sheet **F.T 20 1306**

Seal kits:

Nitrile: **K5069810 + K102238**

Viton: **K5069820**

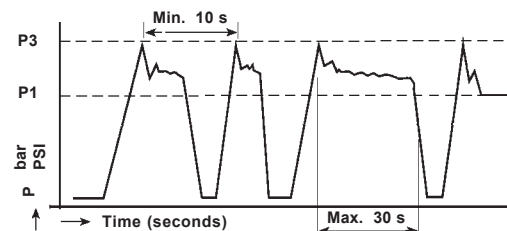
(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|---|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |   |                                 |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |   |                                 |                      |
| <b>2004</b> | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500              | 6,97         | 16,2          | 0,91  | 8,70                            | 1,6                  |
| <b>2006</b> | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500              | 9,67         | 22,5          | 1,26  | 12,07                           | 1,6                  |
| <b>2008</b> | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500              | 12,37        | 28,8          | 1,62  | 15,43                           | 1,7                  |
| <b>2010</b> | 10,12                | 280           | 4060 | 240                  | 3480 | 3500              | 15,18        | 35,3          | 1,98  | 18,93                           | 1,7                  |
| <b>2012</b> | 12                   | 280           | 4060 | 240                  | 3480 | 3500              | 18           | 42            | 2,35  | 22,45                           | 1,7                  |
| <b>2014</b> | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500              | 20,7         | 48,3          | 2,71  | 25,81                           | 2                    |
| <b>2015</b> | 15,52                | 250           | 3625 | 210                  | 3045 | 3500              | 23,25        | 52,5          | 3,04  | 29,03                           | 2,1                  |
| <b>2017</b> | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500              | 25,95        | 60,55         | 3,39  | 32,36                           | 2,1                  |
| <b>2018</b> | 19,12                | 200           | 2900 | 170                  | 2465 | 3500              | 28,65        | 66,8          | 3,75  | 35,77                           | 2,2                  |
| <b>2022</b> | 22,87                | 175           | 2537 | 150                  | 2175 | 3500              | 34,2         | 79,8          | 4,30  | 42,78                           | 2,3                  |
| <b>2026</b> | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000              | 41,4         | 82,8          | 5,16  | 51,63                           | 2,7                  |
| <b>2030</b> | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000              | 46,8         | 93,6          | 5,77  | 58,36                           | 2,8                  |

P1 Maximum pressure in continuous duty.

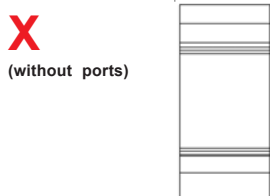
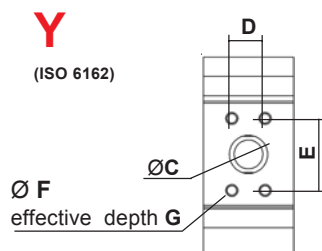
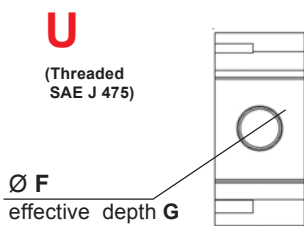
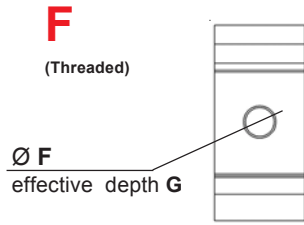
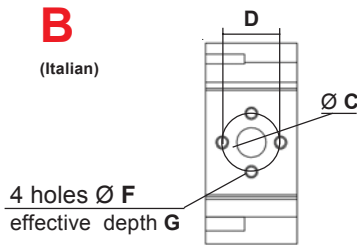
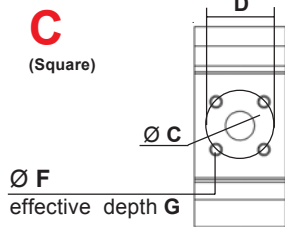
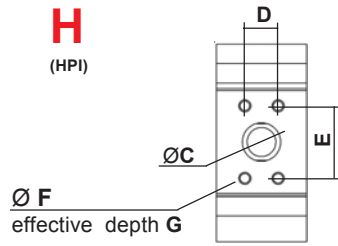
Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                  |    | OUTLET (P) |      |    |    |                | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |                  |    |                  |    |
|--------------|----------------------------|------|------|------------------|----|------------|------|----|----|----------------|--|--|------------------|----|------------------|----|
|              | ØC                         | D    | E    | ØF               | G  | ØC         | D    | E  | ØF | G              | INLET (T)  | OUTLET (P)   |                  |    |                  |    |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6               | 12 | 15         | 17,4 | 38 | M6 | 15             | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |                  |    |                  |    |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6               | 12 | 15         | 17,4 | 38 | M6 | 12             | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |                  |    |                  |    |
| 2004 to 2012 | 20                         | 40   |      | M6               | 12 | 15         | 35   |    | M6 | 12             | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |                  |    |                  |    |
| 2004 to 2012 | 15                         | 30   |      | M6               | 13 | 15         | 30   |    | M6 | 13             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 23,5   | 40   | M8               | 13 | 15               | 30 |
| 2004 to 2012 |                            |      |      | 3/4" BSP         | 16 |            |      |    |    | 3/8" BSP       | 12   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1" BSP           | 18 | 1/2" BSP         | 14 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"1/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2004 to 2012 |                            |      |      | 1"5/16 12 UNF 2B | 20 |            |      |    |    | 7/8" 14 UNF 2B | 17   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 1"1/16 12 UNF 2B | 20 |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8               | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2004 to 2030 | Only with rear body Type A |      |      |                  |    |            |      |    |    |                | Consult us for availability  |  |                  |    |                  |    |

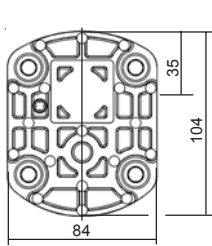
Dimensions readings and approximative characteristics subject to modifications.

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REAR BODIES

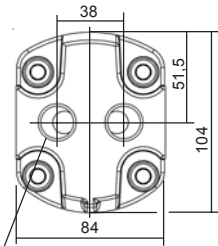
**L**

Standard



**A**

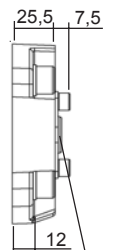
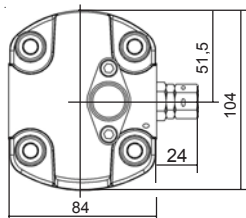
with ports



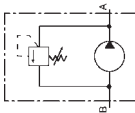
(2x) 1/2" BSP  
effective depth 14

**X**

High pressure relief valve  
(Adjustable) Internal return

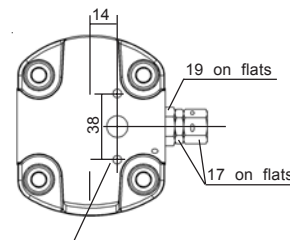


Blank port  
connector only  
internal return

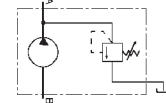


**T**

High pressure relief valve  
(Adjustable) External return

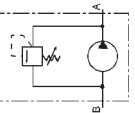
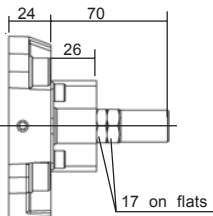
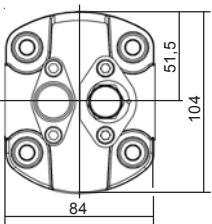


(2x) M6 effective depth 14



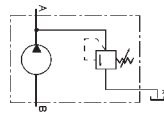
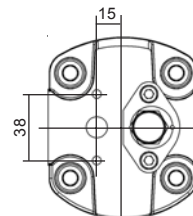
**V**

Low Pressure relief valve  
(Adjustable) Internal return



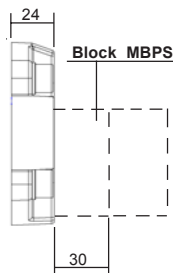
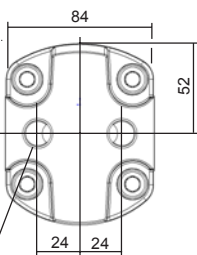
**W**

Low Pressure relief valve  
(Adjustable) External return



**AR**

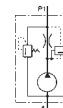
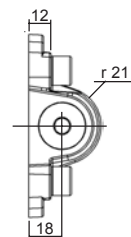
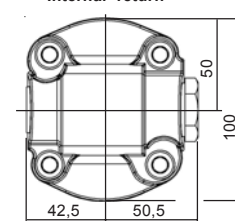
with block configuration MBPS



3/8" BSP (x2) effective depth 17,5

**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1303 3/4

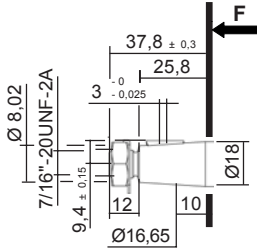
Consult us for availability

DRIVING SHAFTS

Tapered

10

**B02** Cône 1/8



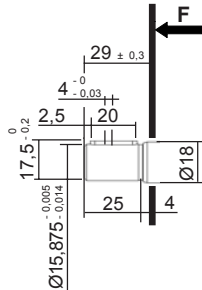
Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

Straight keyed

20

**A01**

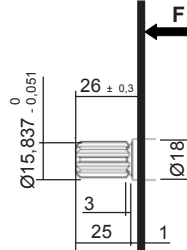


Maxi transmissible torque  
**50 N.m**

Splined

30

**A01**



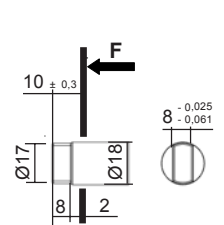
Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle

Maxi transmissible torque  
**100 N.m**

Tang

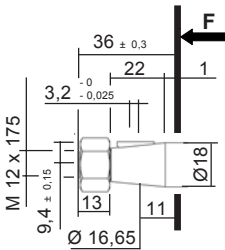
40

**C03**



Maxi transmissible torque  
**70 N.m**

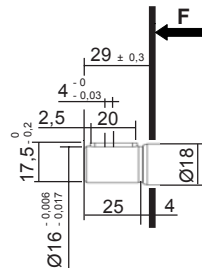
**C02** Cône 1/5



Delivered with nut: K106317

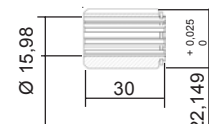
Maxi transmissible torque  
**220 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

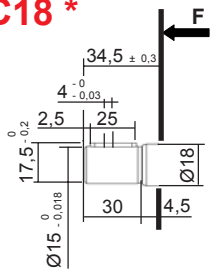
Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310  
Mounting with splinned shaft 30 A01



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

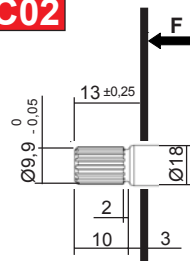
**C18 \***



Maxi transmissible torque  
**40 N.m**

\* ONLY 2006 to 2012

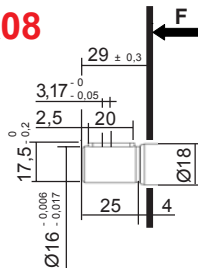
**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

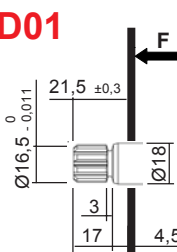
Maxi transmissible torque  
**100 N.m**

**A08**



Maxi transmissible torque  
**50 N.m**

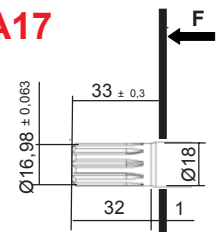
**D01**



Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque  
**100 N.m**

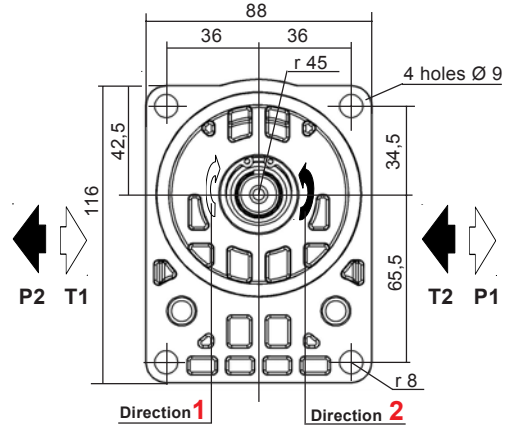
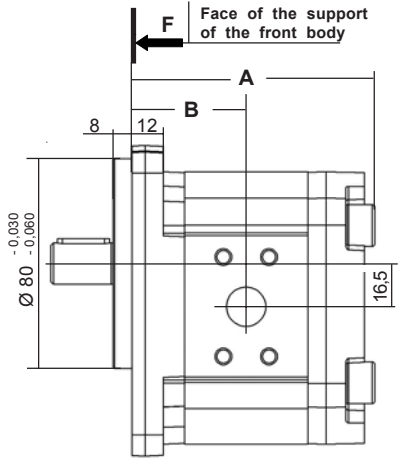
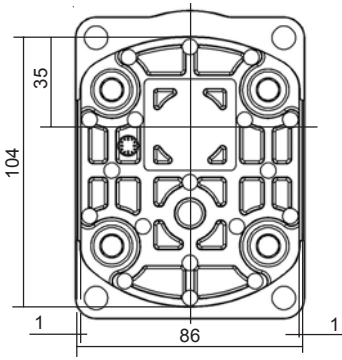
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1303 4/4

Consult us for availability

P II Sign D B N 2 VI Sign H L IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet F.T R 0011



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 004 - 006 - 008        | 92,5       | 43,5 |
| 010 - 012              | 107        | 51   |
| 014 - 015 - 017        |            |      |
| 018 - 022              |            |      |
| 026 - 030              | 123        | 59   |

Multiples geared pumps, see data sheet F.T 20 1306

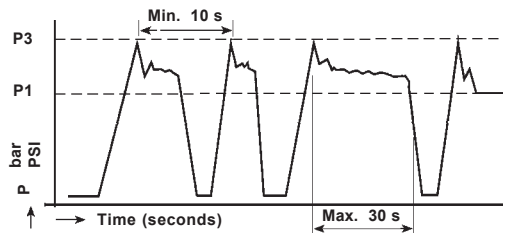
Seal kits:  
Nitrile: K5069810  
Viton: K5069820  
(For the manufacturings from January 1984)

| MODEL | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |         | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------|----------------------|---------------|------|----------------------|---------|-------------------|--------------|---------------|---|---------------------------------|----------------------|
|       |                      | bar           | PSI  | bar                  | PSI     |                   | at 1500 RPM  | at Max. speed |   |                                 |                      |
|       |                      |               |      | I / min              | I / min |                   |              |               |   |                                 |                      |
| 2004  | 4,65                 | 280           | 4060 | 240                  | 3480    | 3500              | 6,97         | 16,2          | 0,91  | 8,70                            | 1,6                  |
| 2006  | 6,45                 | 280           | 4060 | 240                  | 3480    | 3500              | 9,67         | 22,5          | 1,26  | 12,07                           | 1,6                  |
| 2008  | 8,25                 | 280           | 4060 | 240                  | 3480    | 3500              | 12,37        | 28,8          | 1,62  | 15,43                           | 1,7                  |
| 2010  | 10,12                | 280           | 4060 | 240                  | 3480    | 3500              | 15,18        | 35,3          | 1,98  | 18,93                           | 1,7                  |
| 2012  | 12                   | 280           | 4060 | 240                  | 3480    | 3500              | 18           | 42            | 2,35  | 22,45                           | 1,7                  |
| 2014  | 13,8                 | 250           | 3625 | 210                  | 3045    | 3500              | 20,7         | 48,3          | 2,71  | 25,81                           | 2                    |
| 2015  | 15,52                | 250           | 3625 | 210                  | 3045    | 3500              | 23,25        | 52,5          | 3,04  | 29,03                           | 2,1                  |
| 2017  | 17,3                 | 220           | 3190 | 190                  | 2755    | 3500              | 25,95        | 60,55         | 3,39  | 32,36                           | 2,1                  |
| 2018  | 19,12                | 200           | 2900 | 170                  | 2465    | 3500              | 28,65        | 66,8          | 3,75  | 35,77                           | 2,2                  |
| 2022  | 22,87                | 175           | 2537 | 150                  | 2175    | 3500              | 34,2         | 79,8          | 4,30  | 42,78                           | 2,3                  |
| 2026  | 27,6                 | 175           | 2537 | 150                  | 2175    | 3000              | 41,4         | 82,8          | 5,16  | 51,63                           | 2,7                  |
| 2030  | 31,2                 | 175           | 2537 | 150                  | 2175    | 3000              | 46,8         | 93,6          | 5,77  | 58,36                           | 2,8                  |

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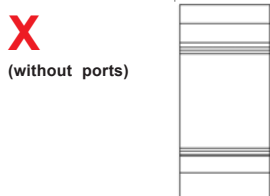
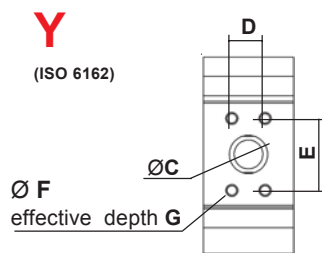
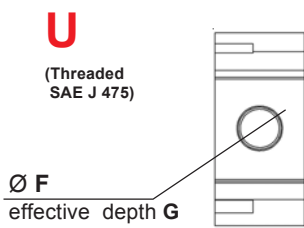
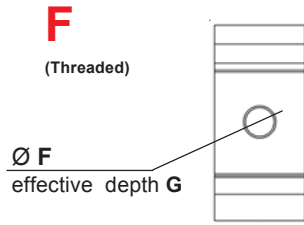
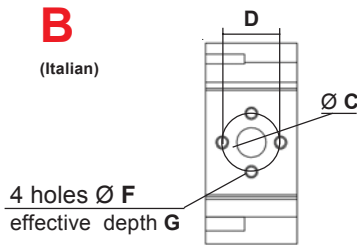
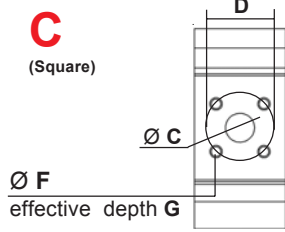
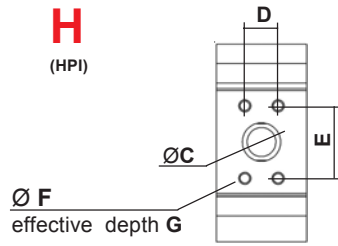
P1 Maximum pressure in continuous duty.  
P3 Allowable peak pressure.

Maximum Pressure ⇒



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                  |    | OUTLET (P) |      |    |    |                | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |                  |    |                  |    |
|--------------|----------------------------|------|------|------------------|----|------------|------|----|----|----------------|--|--|------------------|----|------------------|----|
|              | ØC                         | D    | E    | ØF               | G  | ØC         | D    | E  | ØF | G              | INLET (T)  | OUTLET (P)   |                  |    |                  |    |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6               | 12 | 15         | 17,4 | 38 | M6 | 15             | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |                  |    |                  |    |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6               | 12 | 15         | 17,4 | 38 | M6 | 12             | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |                  |    |                  |    |
| 2004 to 2012 | 20                         | 40   |      | M6               | 12 | 15         | 35   |    | M6 | 12             | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |                  |    |                  |    |
| 2004 to 2012 | 15                         | 30   |      | M6               | 13 | 15         | 30   |    | M6 | 13             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 23,5   | 40   | M8               | 13 | 15               | 30 |
| 2004 to 2012 |                            |      |      | 3/4" BSP         | 16 |            |      |    |    | 3/8" BSP       | 12   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1" BSP           | 18 | 1/2" BSP         | 14 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"1/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2004 to 2012 |                            |      |      | 1"5/16 12 UNF 2B | 20 |            |      |    |    | 7/8" 14 UNF 2B | 17   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 1"1/16 12 UNF 2B | 20 |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8               | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2004 to 2030 | Only with rear body Type A |      |      |                  |    |            |      |    |    |                | Consult us for availability  |  |                  |    |                  |    |

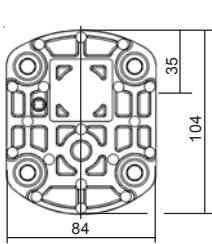
Dimensions readings and approximative characteristics subject to modifications.

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REAR BODIES

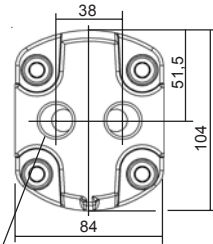
**L**

Standard



**A**

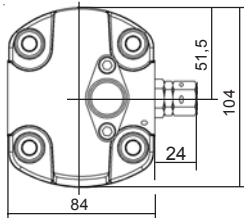
with ports



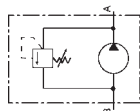
(2x) 1/2" BSP  
effective depth 14

**X**

High pressure relief valve  
(Adjustable) Internal return

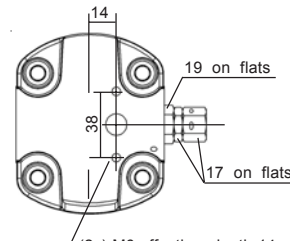


Blank port  
connector only  
internal return

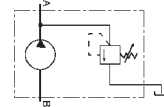


**T**

High pressure relief valve  
(Adjustable) External return

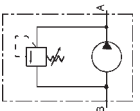
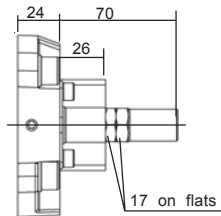
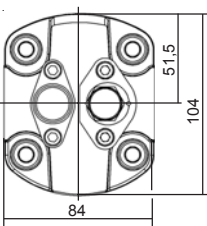


(2x) M6 effective depth 14



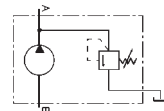
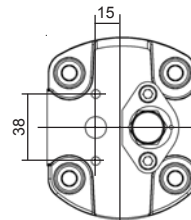
**V**

Low Pressure relief valve  
(Adjustable) Internal return



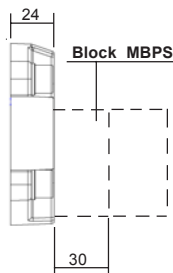
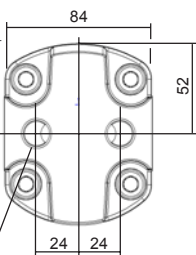
**W**

Low Pressure relief valve  
(Adjustable) External return



**AR**

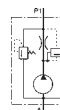
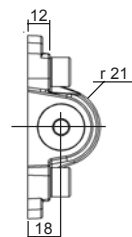
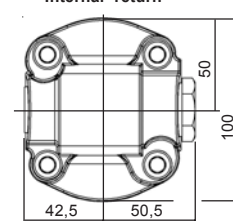
with block configuration MBPS



3/8" BSP (x2) effective depth 17,5

**Q**

Flow control  
Internal return



Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

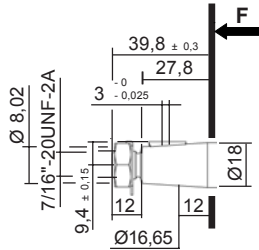
F.T 20 1304 3/4

DRIVING SHAFTS

Tapered

10

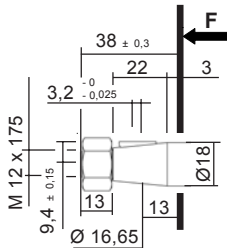
**B02** Cône 1/8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1/5



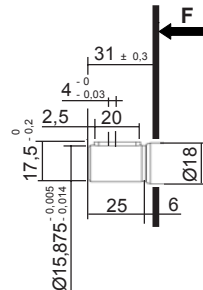
Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

Straight keyed

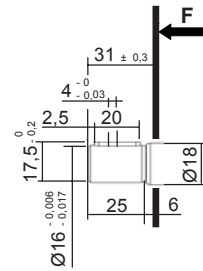
20

**A01**



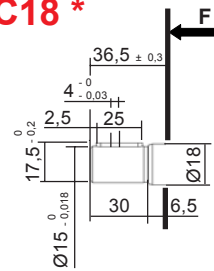
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

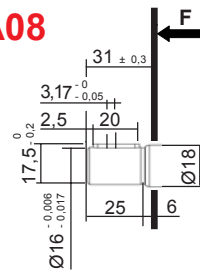
**C18 \***



Maxi transmissible torque  
**40 N.m**

**\* ONLY 2006 to 2012**

**A08**

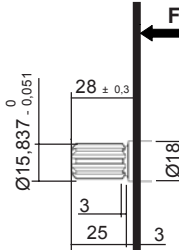


Maxi transmissible torque  
**50 N.m**

Splined

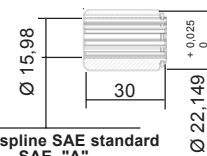
30

**A01**



Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle  
Maxi transmissible torque  
**100 N.m**

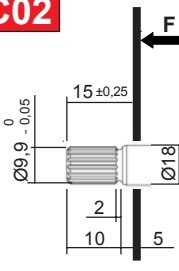
Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310  
Mounting with splinned shaft 30 A01



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

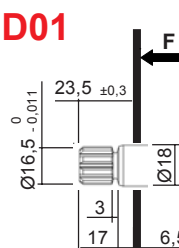
**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

**D01**



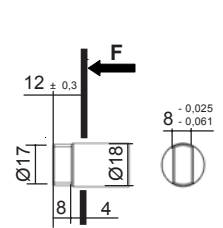
Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

Tang

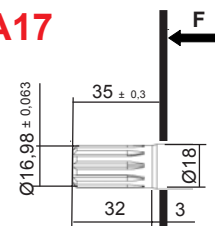
40

**C03**



Maxi transmissible torque  
**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque  
**100 N.m**

Dimensions readings and approximative characteristics subject to modifications.

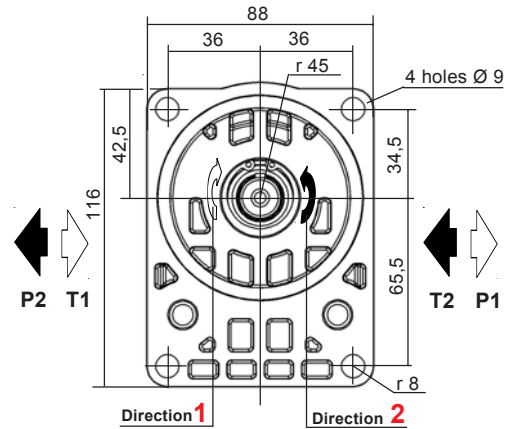
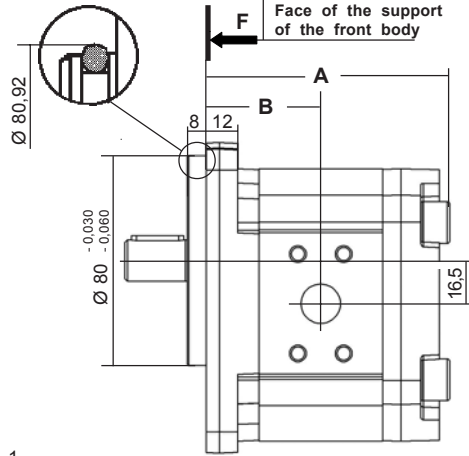
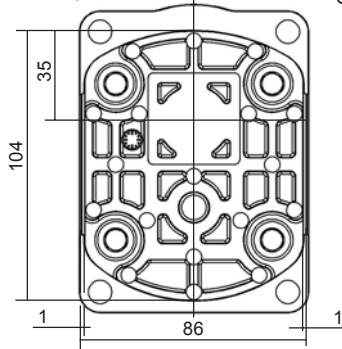
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Consult us for availability



P II Sign **DBK** 2 VI Sign **HL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity       | Dimensions |      |
|------------------------------|------------|------|
|                              | A          | B    |
| 004 - 006 - 008<br>010 - 012 | 92,5       | 43,5 |
| 014 - 015 - 017<br>018 - 022 | 107        | 51   |
| 026 - 030                    | 123        | 59   |

Multiples geared pumps, see data sheet **F.T 20 1306**

Seal kits:

Nitrile: **K5069810 + K101517**

Viton: **K5069820 + K104406**

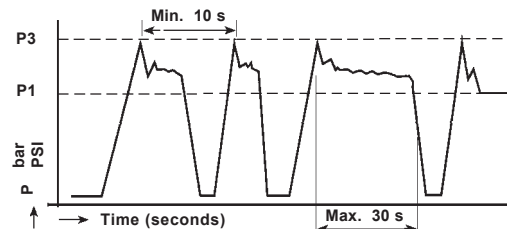
(For the manufacturings from January 1984)

| MODEL | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|       |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|       |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| 2004  | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500              | 6,97         | 16,2          | 0,91   | 8,70                                  | 1,6                  |
| 2006  | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500              | 9,67         | 22,5          | 1,26   | 12,07                                 | 1,6                  |
| 2008  | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500              | 12,37        | 28,8          | 1,62   | 15,43                                 | 1,7                  |
| 2010  | 10,12                | 280           | 4060 | 240                  | 3480 | 3500              | 15,18        | 35,3          | 1,98   | 18,93                                 | 1,7                  |
| 2012  | 12                   | 280           | 4060 | 240                  | 3480 | 3500              | 18           | 42            | 2,35   | 22,45                                 | 1,7                  |
| 2014  | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500              | 20,7         | 48,3          | 2,71   | 25,81                                 | 2                    |
| 2015  | 15,52                | 250           | 3625 | 210                  | 3045 | 3500              | 23,25        | 52,5          | 3,04   | 29,03                                 | 2,1                  |
| 2017  | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500              | 25,95        | 60,55         | 3,39   | 32,36                                 | 2,1                  |
| 2018  | 19,12                | 200           | 2900 | 170                  | 2465 | 3500              | 28,65        | 66,8          | 3,75   | 35,77                                 | 2,2                  |
| 2022  | 22,87                | 175           | 2537 | 150                  | 2175 | 3500              | 34,2         | 79,8          | 4,30   | 42,78                                 | 2,3                  |
| 2026  | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000              | 41,4         | 82,8          | 5,16   | 51,63                                 | 2,7                  |
| 2030  | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000              | 46,8         | 93,6          | 5,77   | 58,36                                 | 2,8                  |

P1 Maximum pressure in continuous duty.

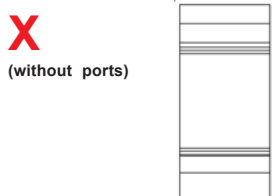
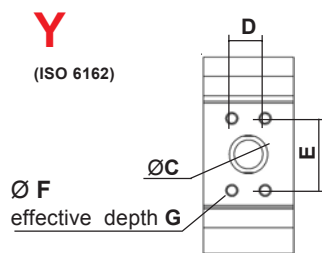
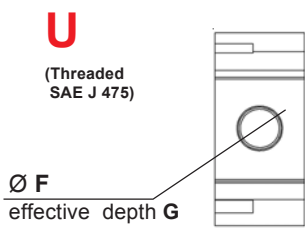
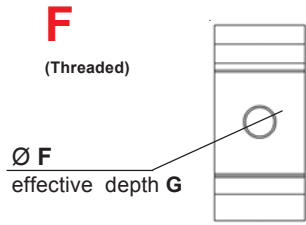
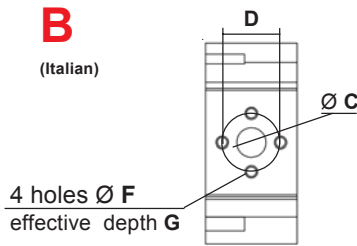
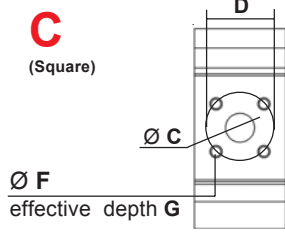
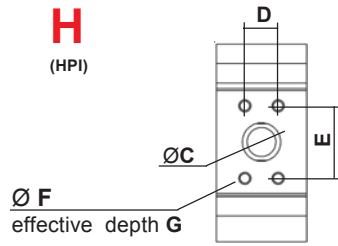
Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                        |    | OUTLET (P) |      |    |    |                        | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |                        |
|--------------|----------------------------|------|------|------------------------|----|------------|------|----|----|------------------------|--|--|------------------------|
|              | ØC                         | D    | E    | ØF                     | G  | ØC         | D    | E  | ØF | G                      | INLET (T)  | OUTLET (P)   |                        |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6                     | 12 | 15         | 17,4 | 38 | M6 | 15                     | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |                        |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6                     | 12 | 15         | 17,4 | 38 | M6 | 12                     | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |                        |
| 2004 to 2012 | 20                         | 40   |      | M6                     | 12 | 15         | 35   |    | M6 | 12                     | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |                        |
| 2014 to 2030 |                            |      |      |                        |    |            |      |    |    |                        | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |                        |
| 2004 to 2012 | 15                         | 30   |      | M6                     | 13 | 15         | 30   |    | M6 | 13                     | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |                        |
| 2014 to 2030 |                            |      |      |                        |    |            |      |    |    |                        | 23,5   | 40   | M8                     |
| 2004 to 2012 |                            |      |      | 3/4" BSP               | 16 |            |      |    |    | 3/8" BSP               | 12   |  |                        |
| 2014 to 2022 |                            |      |      |                        |    |            |      |    |    |                        |  |  | 1" BSP                 |
| 2004 to 2012 |                            |      |      | 1"1/16<br>12 UNF<br>2B | 20 |            |      |    |    | 7/8" 14 UNF 2B         | 17   |  |                        |
| 2014 to 2022 |                            |      |      |                        |    |            |      |    |    |                        |  |  | 1"5/16<br>12 UNF<br>2B |
| 2026-2030    |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    |    | 1"1/16<br>12 UNF<br>2B | 20   |  |                        |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8                     | 14 | 15         | 17,4 | 38 | M8 | 14                     |  |  |                        |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10                    | 14 | 15         | 17,4 | 38 | M8 | 14                     |  |  |                        |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10                    | 14 | 15         | 17,4 | 38 | M8 | 14                     |  |  |                        |
| 2004 to 2030 | Only with rear body Type A |      |      |                        |    |            |      |    |    |                        |  | Consult us for availability                                      |                        |

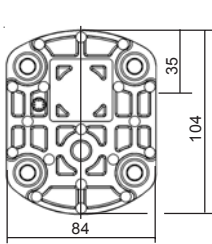
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1330 2/4

REAR BODIES

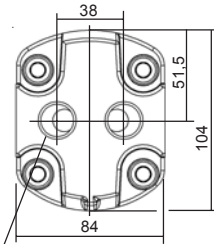
**L**

Standard



**A**

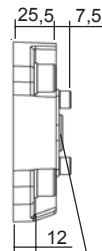
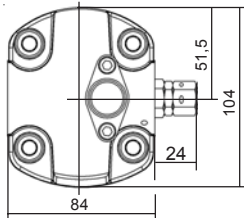
with ports



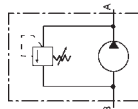
(2x) 1/2" BSP  
effective depth 14

**X**

High pressure relief valve  
(Adjustable) Internal return

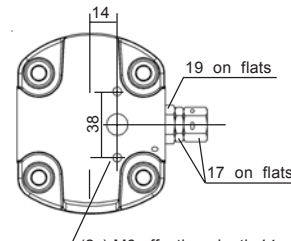


Blank port  
connector only  
internal return

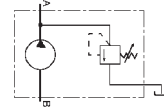


**T**

High pressure relief valve  
(Adjustable) External return

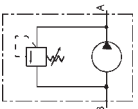
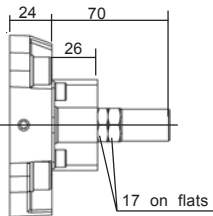
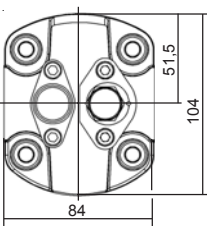


(2x) M6 effective depth 14



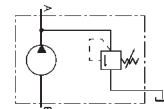
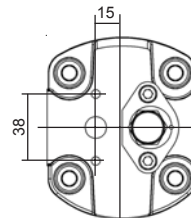
**V**

Low Pressure relief valve  
(Adjustable) Internal return



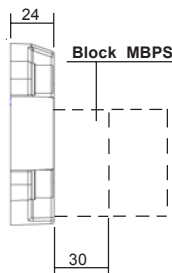
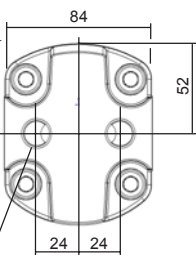
**W**

Low Pressure relief valve  
(Adjustable) External return



**AR**

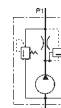
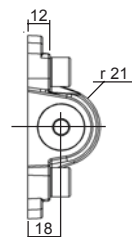
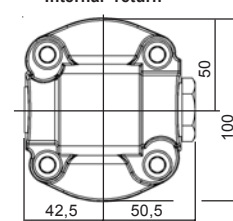
with block configuration MBPS



3/8" BSP (x2) effective depth 17,5

**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1330 3/4

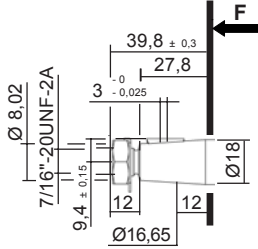
Consult us for availability

DRIVING SHAFTS

Tapered

10

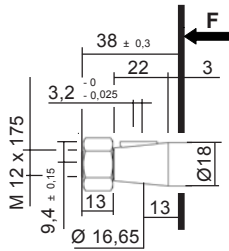
**B02** Cône 1 / 8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1 / 5



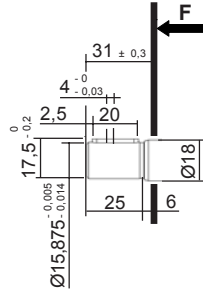
Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

Straight keyed

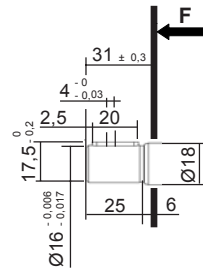
20

**A01**



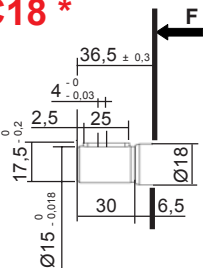
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

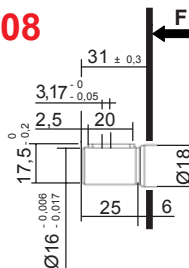
**C18 \***



Maxi transmissible torque  
**40 N.m**

\* ONLY 2006 to 2012

**A08**

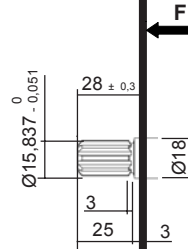


Maxi transmissible torque  
**50 N.m**

Splined

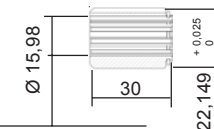
30

**A01**



Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle  
Maxi transmissible torque  
**100 N.m**

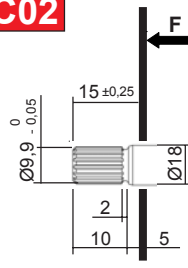
Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310  
Mounting with splinned shaft 30 A01



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

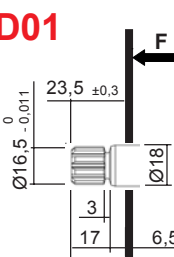
**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

**D01**



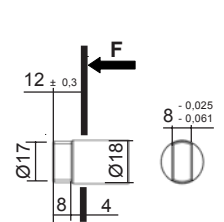
Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

Tang

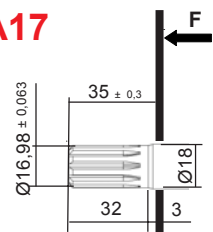
40

**C03**



Maxi transmissible torque  
**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque  
**100 N.m**

Dimensions readings and approximative characteristics subject to modifications.

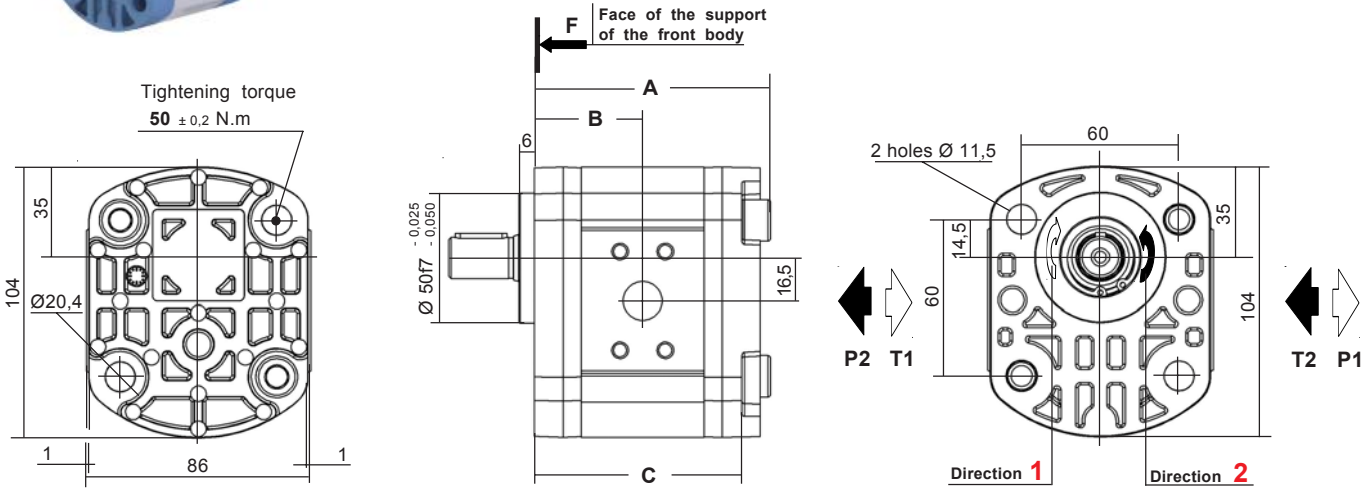
F.T 20 1330 4/4

Consult us for availability



**P** II Sign **DCN** 2 VI Sign **HL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



| CHOICE of the Capacity              | Dimensions |      |      |
|-------------------------------------|------------|------|------|
|                                     | A          | B    | C    |
| 004 - 006 - 008<br>010 - 012        | 90,5       | 41,5 | 79,5 |
| <b>014 - 015 - 017</b><br>018 - 022 | 105        | 49   | 94   |
| 026 - 030                           | 121        | 57   | 110  |

Multiples geared pumps, see data sheet **F.T 20 1306**

Seal kits:

Nitrile: **K5069890**

Viton: **K5069820**

(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| <b>2004</b> | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500              | 6,97         | 16,2          | 0,91   | 8,70                                  | 1,6                  |
| <b>2006</b> | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500              | 9,67         | 22,5          | 1,26   | 12,07                                 | 1,6                  |
| <b>2008</b> | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500              | 12,37        | 28,8          | 1,62   | 15,43                                 | 1,7                  |
| <b>2010</b> | 10,12                | 280           | 4060 | 240                  | 3480 | 3500              | 15,18        | 35,3          | 1,98   | 18,93                                 | 1,7                  |
| <b>2012</b> | 12                   | 280           | 4060 | 240                  | 3480 | 3500              | 18           | 42            | 2,35   | 22,45                                 | 1,7                  |
| <b>2014</b> | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500              | 20,7         | 48,3          | 2,71   | 25,81                                 | 2                    |
| <b>2015</b> | 15,52                | 250           | 3625 | 210                  | 3045 | 3500              | 23,25        | 52,5          | 3,04   | 29,03                                 | 2,1                  |
| <b>2017</b> | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500              | 25,95        | 60,55         | 3,39   | 32,36                                 | 2,1                  |
| <b>2018</b> | 19,12                | 200           | 2900 | 170                  | 2465 | 3500              | 28,65        | 66,8          | 3,75   | 35,77                                 | 2,2                  |
| <b>2022</b> | 22,87                | 175           | 2537 | 150                  | 2175 | 3500              | 34,2         | 79,8          | 4,30   | 42,78                                 | 2,3                  |
| <b>2026</b> | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000              | 41,4         | 82,8          | 5,16   | 51,63                                 | 2,7                  |
| <b>2030</b> | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000              | 46,8         | 93,6          | 5,77   | 58,36                                 | 2,8                  |

Dimensions readings and approximative characteristics subject to modifications.

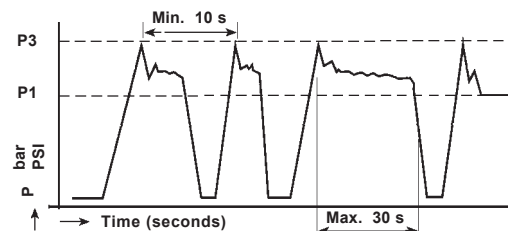
HYDRAULIC GEAR PUMPS SERIES 2

F.T 20 1305 1/4

P1 Maximum pressure in continuous duty.

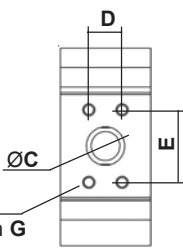
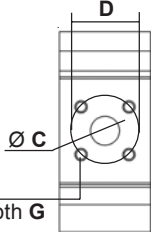
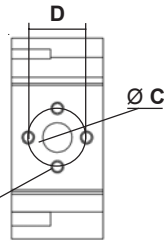
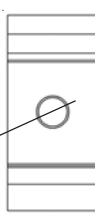
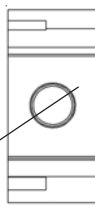
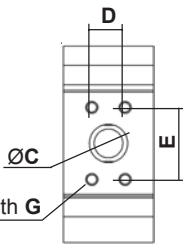


Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity     | INLET (T)                  |      |      |                  |    | OUTLET (P) |      |    |                  |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min)   |  |
|---|--------------|----------------------------|------|------|------------------|----|------------|------|----|------------------|----|--|--|
|   |              | ØC                         | D    | E    | ØF               | G  | ØC         | D    | E  | ØF               | G  | INLET (T)  | OUTLET (P)   |
| <b>H</b><br>(HPI)<br>                  | 2004 to 2012 | 20                         | 17,4 | 38   | M6               | 12 | 15         | 17,4 | 38 | M6               | 15 | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126  | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |
|   | 2014 to 2030 | 26                         | 47,6 | 22,4 | M6               | 12 | 15         | 17,4 | 38 | M6               | 12 | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |
| <b>C</b><br>(Square)<br>               | 2004 to 2012 | 20                         | 40   |      | M6               | 12 | 15         | 35   |    | M6               | 12 | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |
|   | 2014 to 2030 |                            |      |      |                  |    |            |      |    |                  |    | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |
| <b>B</b><br>(Italian)<br>             | 2004 to 2012 | 15                         | 30   |      | M6               | 13 | 15         | 30   |    | M6               | 13 | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202   | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |
|   | 2014 to 2030 | 23,5                       | 40   |      | M8               | 13 | 15         | 30   |    | M6               | 13 | 1 / 2 " BSP<br>N: X.367508.101<br>3 / 4 " BSP<br>N: X.367508.102   | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |
| <b>F</b><br>(Threaded)<br>           | 2004 to 2012 |                            |      |      | 3/4" BSP         | 16 |            |      |    | 3/8" BSP         | 12 |  |  |
|   | 2014 to 2022 |                            |      |      | 1" BSP           | 18 |            |      |    | 1/2" BSP         | 14 |  |  |
| <b>U</b><br>(Threaded SAE J 475)<br> | 2004 to 2012 |                            |      |      | 1"1/16 12 UNF 2B | 20 |            |      |    | 7/8" 14 UNF 2B   | 17 |  |  |
|   | 2014 to 2022 |                            |      |      | 1"5/16 12 UNF 2B | 20 |            |      |    | 7/8" 14 UNF 2B   | 17 |  |  |
|   | 2026-2030    |                            |      |      | 1"5/16 12 UNF 2B | 20 |            |      |    | 1"1/16 12 UNF 2B | 20 |  |  |
| <b>Y</b><br>(ISO 6162)<br>           | 2004 to 2012 | 20                         | 17,4 | 38   | M8               | 14 | 15         | 17,4 | 38 | M8               | 14 |  |  |
|   | 2014 to 2022 | 26                         | 47,6 | 22,4 | M10              | 14 | 15         | 17,4 | 38 | M8               | 14 |  |  |
|   | 2026-2030    | 26                         | 52,4 | 26,2 | M10              | 14 | 15         | 17,4 | 38 | M8               | 14 |  |  |
| <b>X</b><br>(without ports)<br>      | 2004 to 2030 | Only with rear body Type A |      |      |                  |    |            |      |    |                  |    | <br>Consult us for availability |  |

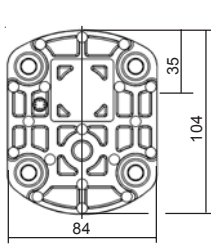
Dimensions readings and approximative characteristics subject to modifications.

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REAR BODIES

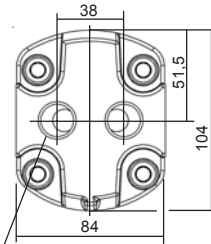
**L**

Standard



**A**

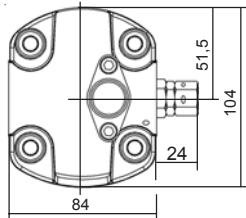
with ports



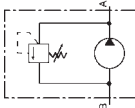
(2x) 1/2" BSP  
effective depth 14

**X**

High pressure relief valve  
(Adjustable) Internal return

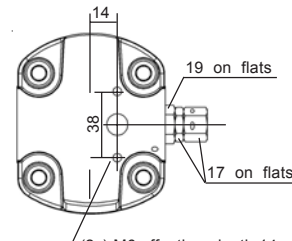


Blank port  
connector only  
internal return

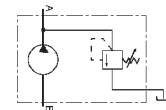


**T**

High pressure relief valve  
(Adjustable) External return

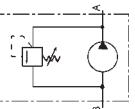
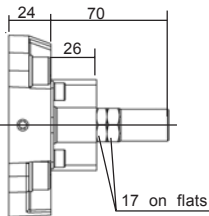
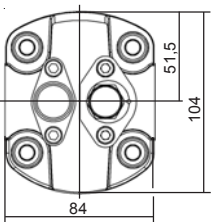


(2x) M6 effective depth 14



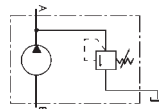
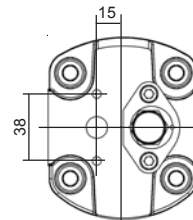
**V**

Low Pressure relief valve  
(Adjustable) Internal return



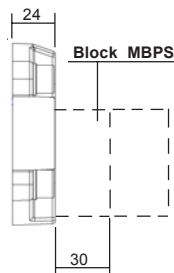
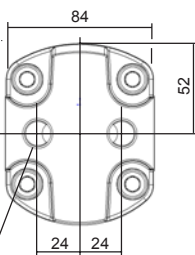
**W**

Low Pressure relief valve  
(Adjustable) External return



**AR**

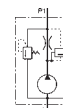
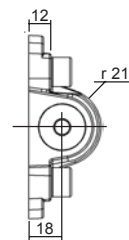
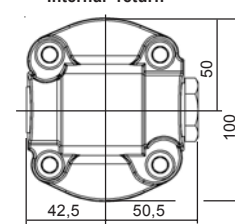
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

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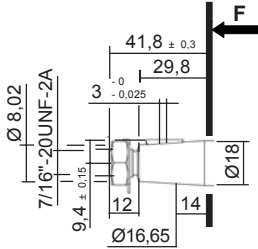
Consult us for availability

DRIVING SHAFTS

Tapered

**10**

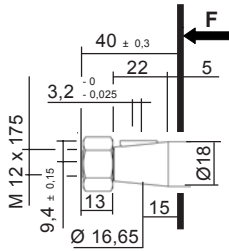
**B02** Cône 1/8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1/5



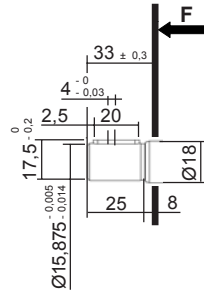
Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

Straight keyed

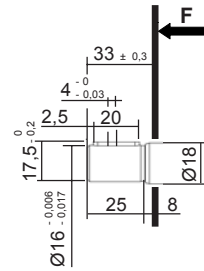
**20**

**A01**



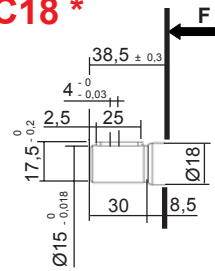
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

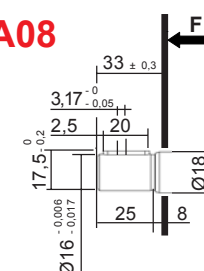
**C18 \***



Maxi transmissible torque  
**40 N.m**

**\* ONLY 2006 to 2012**

**A08**

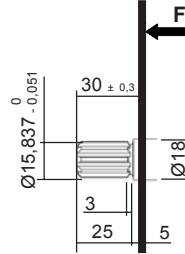


Maxi transmissible torque  
**50 N.m**

Splined

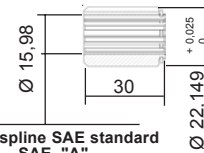
**30**

**A01**



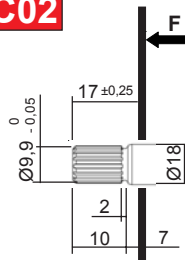
Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle  
Maxi transmissible torque  
**100 N.m**

Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310  
Mounting with splined shaft **30 A01**



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle  
Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

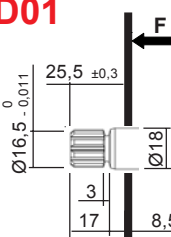
**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

**D01**



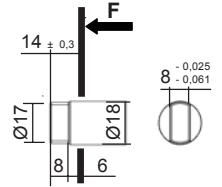
Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

Tang

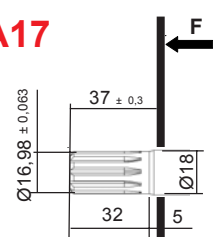
**40**

**C03**



Maxi transmissible torque  
**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque  
**100 N.m**

Dimensions readings and approximative characteristics subject to modifications.

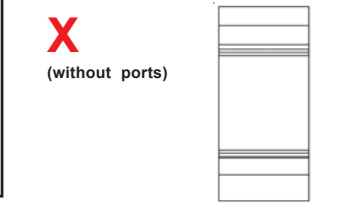
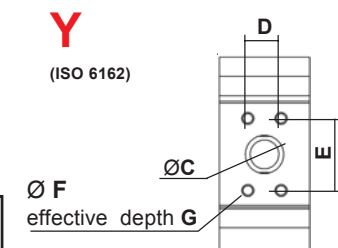
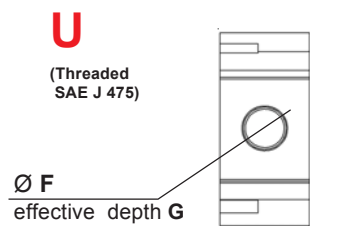
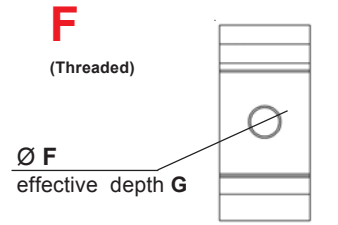
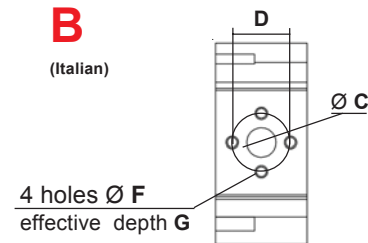
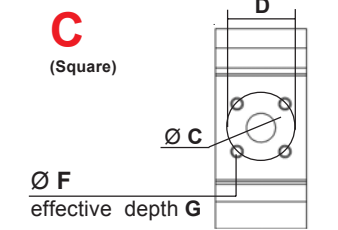
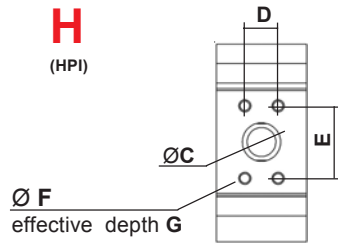
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Consult us for availability





CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                           |    | OUTLET (P) |      |    |    |                           | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |
|--------------|----------------------------|------|------|---------------------------|----|------------|------|----|----|---------------------------|--|--|
|              | ØC                         | D    | E    | ØF                        | G  | ØC         | D    | E  | ØF | G                         | INLET (T)  | OUTLET (P)   |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6                        | 12 | 15         | 17,4 | 38 | M6 | 15                        | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6                        | 12 | 15         | 17,4 | 38 | M6 | 12                        | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |
| 2004 to 2012 | 20                         | 40   |      | M6                        | 12 | 15         | 35   |    | M6 | 12                        | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |
| 2014 to 2030 |                            |      |      |                           |    |            |      |    |    |                           | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |
| 2004 to 2012 | 15                         | 30   |      | M6                        | 13 | 15         | 30   |    | M6 | 13                        | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |
| 2014 to 2030 |                            |      |      |                           |    |            |      |    |    |                           | 23,5   | 40   |
| 2004 to 2012 |                            |      |      | 3/4" BSP                  | 16 |            |      |    |    | 3/8" BSP                  | 12   |  |
| 2014 to 2022 |                            |      |      |                           |    |            |      |    |    |                           |  |  |
| 2004 to 2012 |                            |      |      | 1"1/16<br>12<br>UNF<br>2B | 20 |            |      |    |    | 7/8"<br>14<br>UNF<br>2B   | 17   |  |
| 2014 to 2022 |                            |      |      |                           |    |            |      |    |    |                           |  |  |
| 2026-2030    |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    |    | 1"1/16<br>12<br>UNF<br>2B | 20   |  |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8                        | 14 | 15         | 17,4 | 38 | M8 | 14                        |  |  |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10                       | 14 | 15         | 17,4 | 38 | M8 | 14                        |  |  |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10                       | 14 | 15         | 17,4 | 38 | M8 | 14                        |  |  |
| 2004 to 2030 | Only with rear body Type A |      |      |                           |    |            |      |    |    |                           | Consult us for availability  |  |

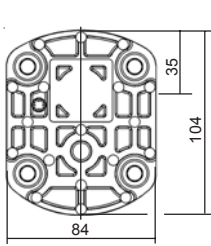
Dimensions readings and approximative characteristics subject to modifications.

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REAR BODIES

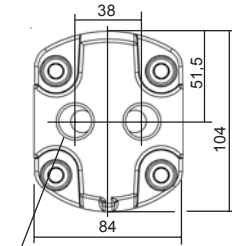
**L**

Standard



**A**

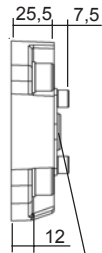
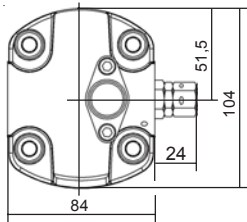
with ports



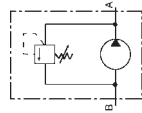
(2x) 1/2" BSP  
effective depth 14

**X**

High pressure relief valve  
(Adjustable) Internal return

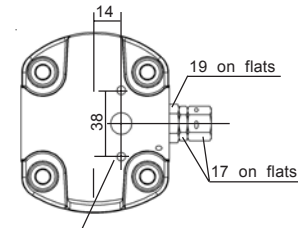


Blank port  
connector only  
internal return

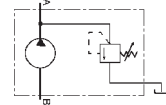


**T**

High pressure relief valve  
(Adjustable) External return

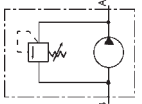
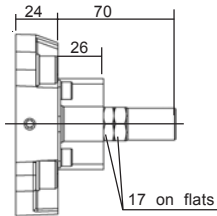
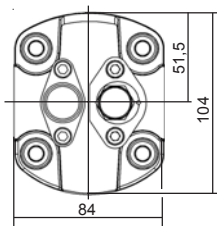


(2x) M6 effective depth 14



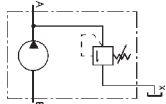
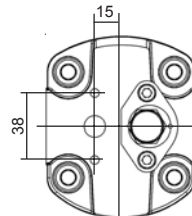
**V**

Low Pressure relief valve  
(Adjustable) Internal return



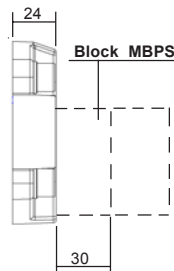
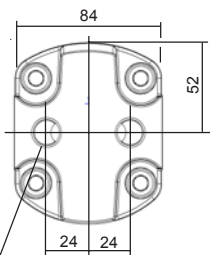
**W**

Low Pressure relief valve  
(Adjustable) External return



**AR**

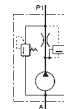
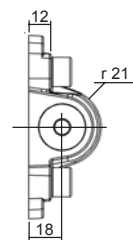
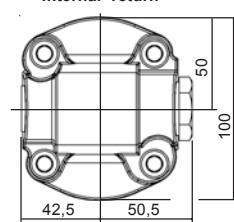
with block configuration MBPS



3/8" BSP (x2) effective depth 17,5

**Q**

Flow control  
Internal return



Consult us for availability

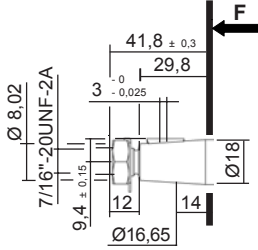
Dimensions readings and approximative characteristics subject to modifications.

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DRIVING SHAFTS

Tapered  
**10**

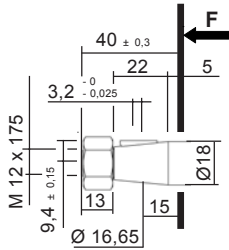
**B02** Cône 1 / 8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1 / 5

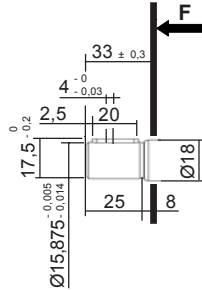


Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

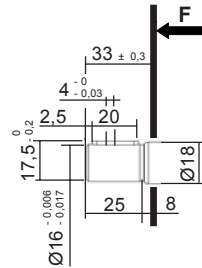
Straight keyed  
**20**

**A01**



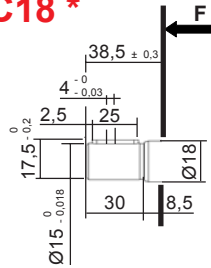
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

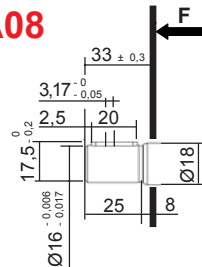
**C18 \***



Maxi transmissible torque  
**40 N.m**

**\* ONLY 2006 to 2012**

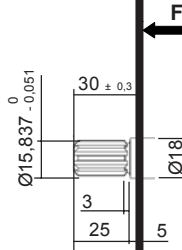
**A08**



Maxi transmissible torque  
**50 N.m**

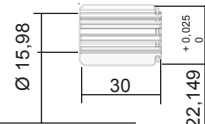
Splined  
**30**

**A01**



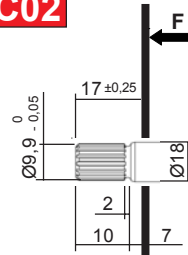
Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle  
Maxi transmissible torque  
**100 N.m**

Sleeve coupling 9 teeth / 13 teeth  
Ref.: **K.5041310**  
Mounting with splinned shaft **30 A01**



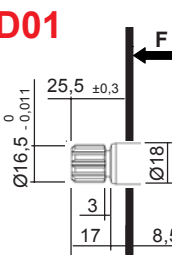
Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle  
Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks  
Maxi transmissible torque  
**100 N.m**

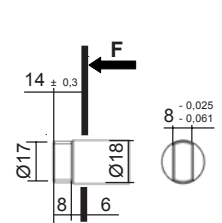
**D01**



Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks  
Maxi transmissible torque  
**100 N.m**

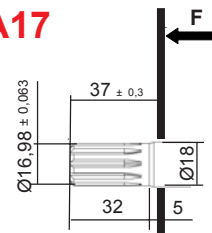
Tang  
**40**

**C03**



Maxi transmissible torque  
**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle  
Maxi transmissible torque  
**100 N.m**

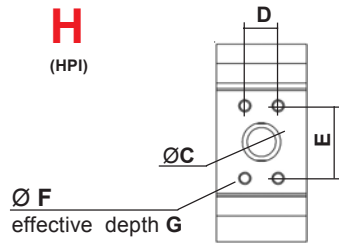
Dimensions readings and approximative characteristics subject to modifications.

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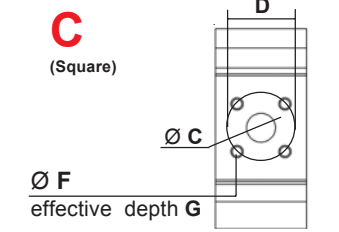
Consult us for availability



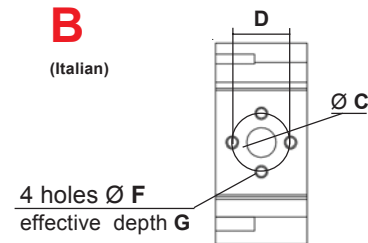
CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



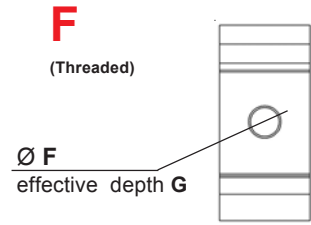
**H**  
(HPI)



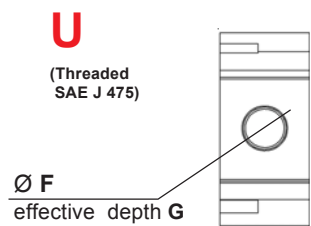
**C**  
(Square)



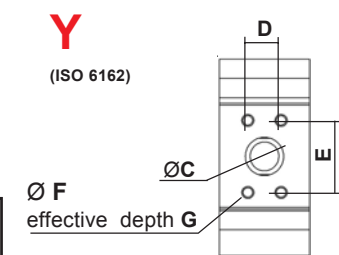
**B**  
(Italian)



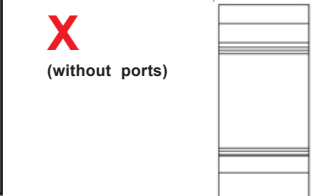
**F**  
(Threaded)




**U**  
(Threaded SAE J 475)



**Y**  
(ISO 6162)



**X**  
(without ports)

| Capacity     | INLET (T)                  |      |      |                           |    | OUTLET (P) |      |    |                           |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min)   |  |
|--------------|----------------------------|------|------|---------------------------|----|------------|------|----|---------------------------|----|--|--|
|              | ØC                         | D    | E    | ØF                        | G  | ØC         | D    | E  | ØF                        | G  | INLET (T)  | OUTLET (P)   |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6                        | 12 | 15         | 17,4 | 38 | M6                        | 15 | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126  | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6                        | 12 | 15         | 17,4 | 38 | M6                        | 12 | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |
| 2004 to 2012 | 20                         | 40   |      | M6                        | 12 | 15         | 35   |    | M6                        | 12 | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |
| 2014 to 2030 |                            |      |      |                           |    |            |      |    |                           |    | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |
| 2004 to 2012 | 15                         | 30   |      | M6                        | 13 | 15         | 30   |    | M6                        | 13 | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202   | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |
| 2014 to 2030 | 23,5                       | 40   |      | M8                        | 13 | 15         | 30   |    | M6                        | 13 | 1 / 2 " BSP<br>N: X.367508.101<br>3 / 4 " BSP<br>N: X.367508.102   | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |
| 2004 to 2012 |                            |      |      | 3/4" BSP                  | 16 |            |      |    | 3/8" BSP                  | 12 |  |  |
| 2014 to 2022 |                            |      |      | 1" BSP                    | 18 |            |      |    | 1/2" BSP                  | 14 |  |  |
| 2004 to 2012 |                            |      |      | 1"1/16<br>12<br>UNF<br>2B | 20 |            |      |    | 7/8"<br>14<br>UNF<br>2B   | 17 |  |  |
| 2014 to 2022 |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 7/8"<br>14<br>UNF<br>2B   | 17 |  |  |
| 2026-2030    |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 1"1/16<br>12<br>UNF<br>2B | 20 |  |  |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8                        | 14 | 15         | 17,4 | 38 | M8                        | 14 |  |  |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |  |  |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |  |  |
| 2004 to 2030 | Only with rear body Type A |      |      |                           |    |            |      |    |                           |    | <br>Consult us for availability |  |

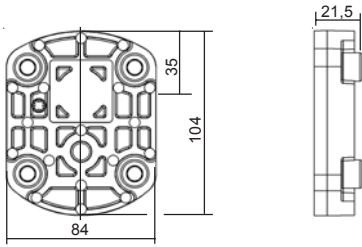
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1333 2/4

REAR BODIES

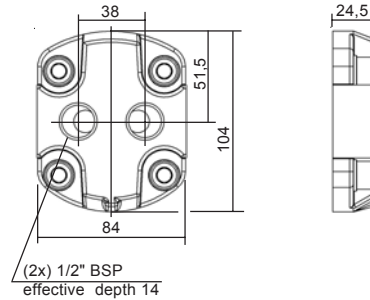
**L**

Standard



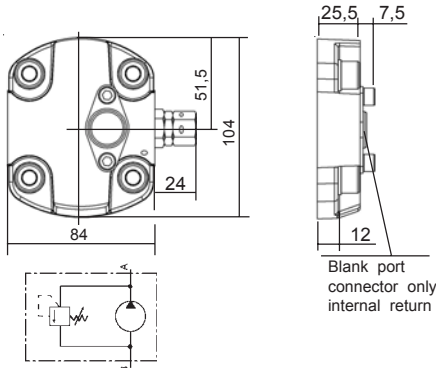
**A**

with ports



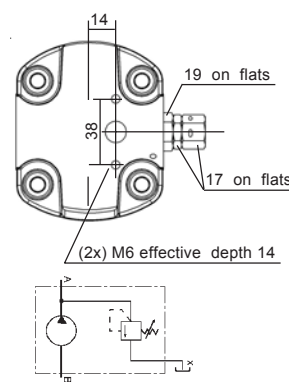
**X**

High pressure relief valve (Adjustable) Internal return



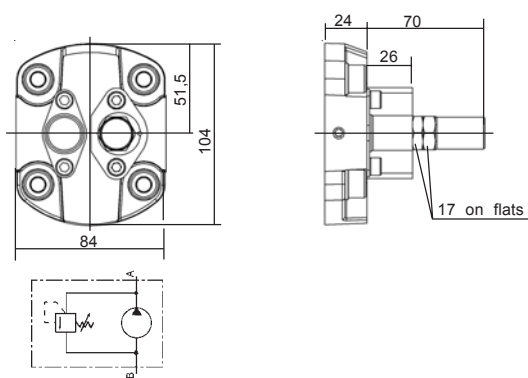
**T**

High pressure relief valve (Adjustable) External return



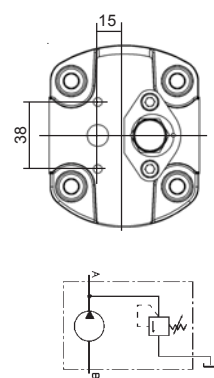
**V**

Low Pressure relief valve (Adjustable) Internal return



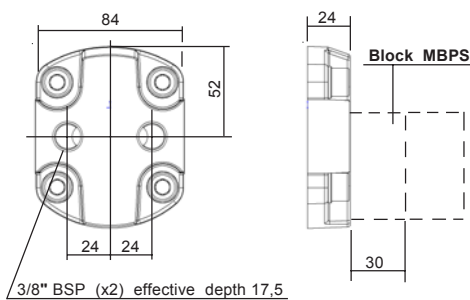
**W**

Low Pressure relief valve (Adjustable) External return



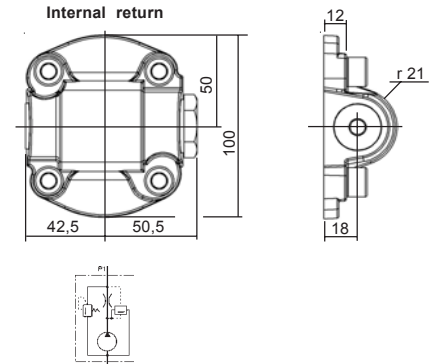
**AR**

with block configuration MBPS



**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1333 3/4

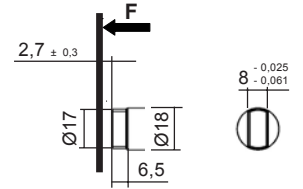


Consult us for availability

DRIVING SHAFT (DUK)

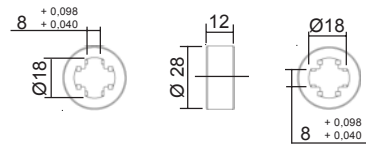
| Tapered   | Straight keyed | Splined   | Tang      |
|-----------|----------------|-----------|-----------|
| <b>10</b> | <b>20</b>      | <b>30</b> | <b>40</b> |

**D02**



**Max tightening torque**  
**70 N.m**

Coupling on request: Ref. K102947



Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1333 4/4**

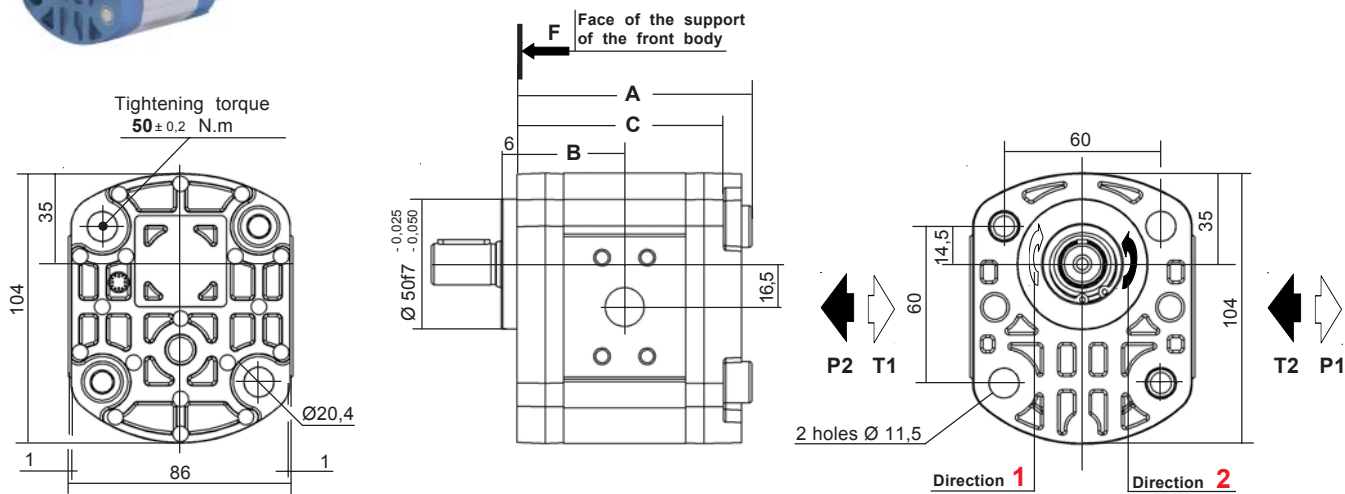
Consult us for availability





**P** II Sign **DW N 2** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



| CHOICE of the Capacity       | Dimensions |      |      |
|------------------------------|------------|------|------|
|                              | A          | B    | C    |
| 004 - 006 - 008<br>010 - 012 | 90,5       | 41,5 | 79,5 |
| 014 - 015 - 017<br>018 - 022 | 105        | 49   | 94   |
| 026 - 030                    | 121        | 57   | 110  |

Multiples geared pumps, see data sheet **F.T 20 1306**

Seal kits:

Nitrile: **K5069890**

Viton: **K5069820**

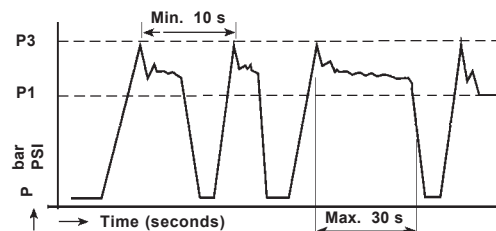
(For the manufacturings from January 1984)

| MODEL | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |         | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------|----------------------|---------------|------|----------------------|---------|-------------------|--------------|---------------|---|---------------------------------|----------------------|
|       |                      | bar           | PSI  | bar                  | PSI     |                   | at 1500 RPM  | at Max. speed |   |                                 |                      |
|       |                      |               |      | I / min              | I / min |                   |              |               |   |                                 |                      |
| 2004  | 4,65                 | 280           | 4060 | 240                  | 3480    | 3500              | 6,97         | 16,2          | 0,91  | 8,70                            | 1,6                  |
| 2006  | 6,45                 | 280           | 4060 | 240                  | 3480    | 3500              | 9,67         | 22,5          | 1,26  | 12,07                           | 1,6                  |
| 2008  | 8,25                 | 280           | 4060 | 240                  | 3480    | 3500              | 12,37        | 28,8          | 1,62  | 15,43                           | 1,7                  |
| 2010  | 10,12                | 280           | 4060 | 240                  | 3480    | 3500              | 15,18        | 35,3          | 1,98  | 18,93                           | 1,7                  |
| 2012  | 12                   | 280           | 4060 | 240                  | 3480    | 3500              | 18           | 42            | 2,35  | 22,45                           | 1,7                  |
| 2014  | 13,8                 | 250           | 3625 | 210                  | 3045    | 3500              | 20,7         | 48,3          | 2,71  | 25,81                           | 2                    |
| 2015  | 15,52                | 250           | 3625 | 210                  | 3045    | 3500              | 23,25        | 52,5          | 3,04  | 29,03                           | 2,1                  |
| 2017  | 17,3                 | 220           | 3190 | 190                  | 2755    | 3500              | 25,95        | 60,55         | 3,39  | 32,36                           | 2,1                  |
| 2018  | 19,12                | 200           | 2900 | 170                  | 2465    | 3500              | 28,65        | 66,8          | 3,75  | 35,77                           | 2,2                  |
| 2022  | 22,87                | 175           | 2537 | 150                  | 2175    | 3500              | 34,2         | 79,8          | 4,30  | 42,78                           | 2,3                  |
| 2026  | 27,6                 | 175           | 2537 | 150                  | 2175    | 3000              | 41,4         | 82,8          | 5,16  | 51,63                           | 2,7                  |
| 2030  | 31,2                 | 175           | 2537 | 150                  | 2175    | 3000              | 46,8         | 93,6          | 5,77  | 58,36                           | 2,8                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



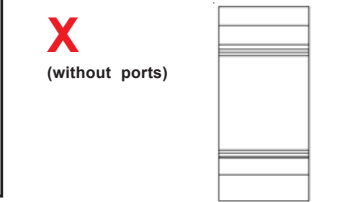
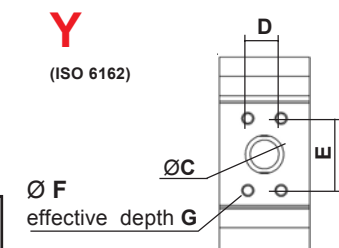
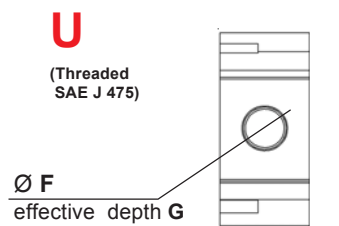
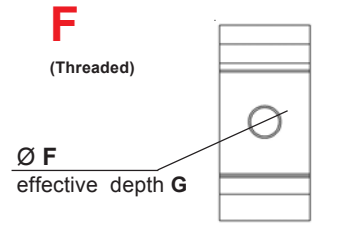
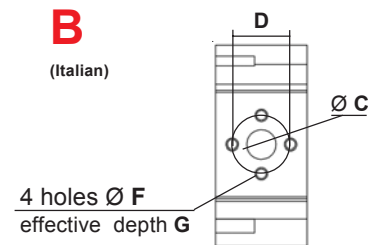
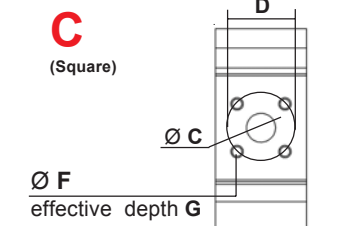
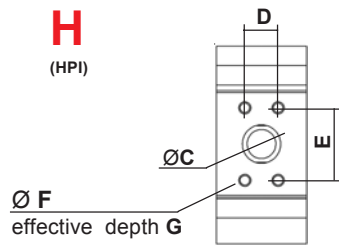
Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1332 1/4

HYDRAULIC GEAR PUMPS

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                  |    | OUTLET (P) |      |    |    |                | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |                  |    |                  |    |
|--------------|----------------------------|------|------|------------------|----|------------|------|----|----|----------------|--|--|------------------|----|------------------|----|
|              | ØC                         | D    | E    | ØF               | G  | ØC         | D    | E  | ØF | G              | INLET (T)  | OUTLET (P)   |                  |    |                  |    |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6               | 12 | 15         | 17,4 | 38 | M6 | 15             | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |                  |    |                  |    |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6               | 12 | 15         | 17,4 | 38 | M6 | 12             | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |                  |    |                  |    |
| 2004 to 2012 | 20                         | 40   |      | M6               | 12 | 15         | 35   |    | M6 | 12             | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |                  |    |                  |    |
| 2004 to 2012 | 15                         | 30   |      | M6               | 13 | 15         | 30   |    | M6 | 13             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 23,5   | 40   | M8               | 13 | 15               | 30 |
| 2004 to 2012 |                            |      |      | 3/4" BSP         | 16 |            |      |    |    | 3/8" BSP       | 12   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1" BSP           | 18 | 1/2" BSP         | 14 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"1/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2004 to 2012 |                            |      |      | 1"5/16 12 UNF 2B | 20 |            |      |    |    | 7/8" 14 UNF 2B | 17   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 1"1/16 12 UNF 2B | 20 |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8               | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2004 to 2030 | Only with rear body Type A |      |      |                  |    |            |      |    |    |                | Consult us for availability  |  |                  |    |                  |    |

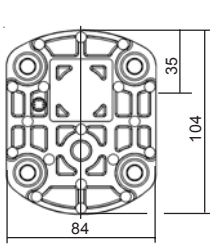
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1332 2/4

REAR BODIES

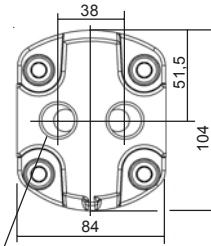
**L**

Standard



**A**

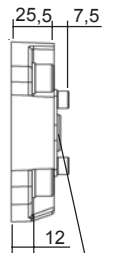
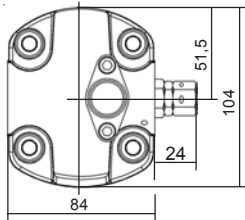
with ports



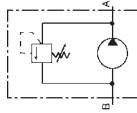
(2x) 1/2" BSP effective depth 14

**X**

High pressure relief valve (Adjustable) Internal return

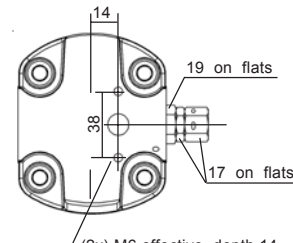


Blank port connector only internal return

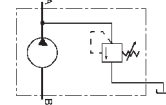


**T**

High pressure relief valve (Adjustable) External return

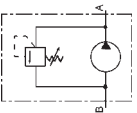
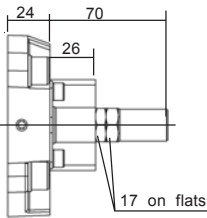
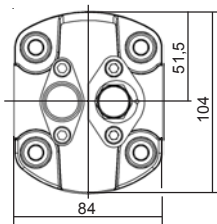


(2x) M6 effective depth 14



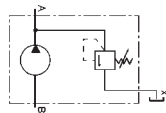
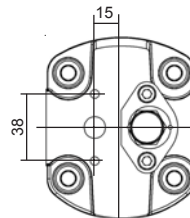
**V**

Low Pressure relief valve (Adjustable) Internal return



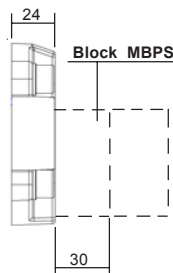
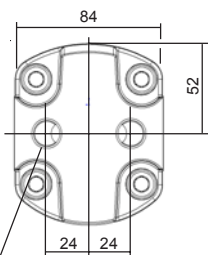
**W**

Low Pressure relief valve (Adjustable) External return



**AR**

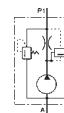
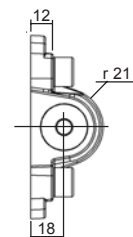
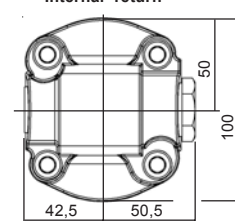
with block configuration MBPS



3/8" BSP (x2) effective depth 17,5

**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

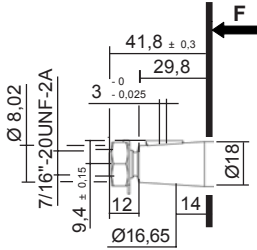
F.T 20 1332 3/4

Consult us for availability

DRIVING SHAFTS

Tapered  
**10**

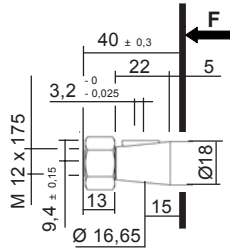
**B02** Cône 1 / 8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1 / 5

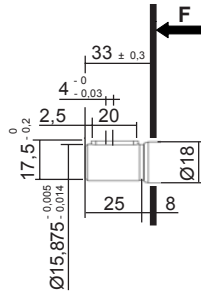


Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

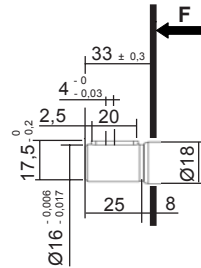
Straight keyed  
**20**

**A01**



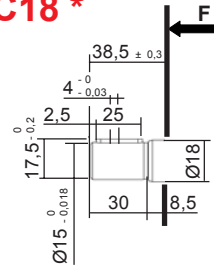
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

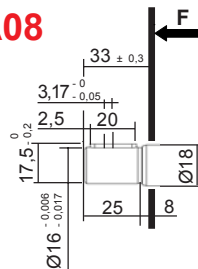
**C18 \***



Maxi transmissible torque  
**40 N.m**

**\* ONLY 2006 to 2012**

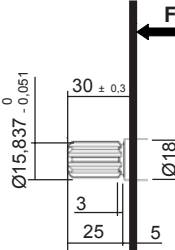
**A08**



Maxi transmissible torque  
**50 N.m**

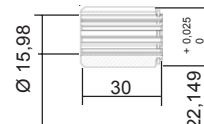
Splined  
**30**

**A01**



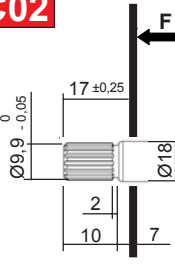
Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle  
Maxi transmissible torque  
**100 N.m**

Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310  
Mounting with splined shaft 30 A01



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle  
Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

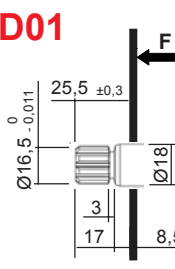
**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

**D01**

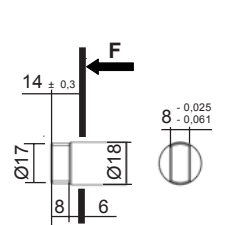


Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

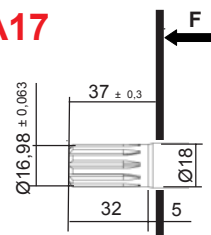
Tang  
**40**

**C03**



Maxi transmissible torque  
**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque  
**100 N.m**

Dimensions readings and approximative characteristics subject to modifications.

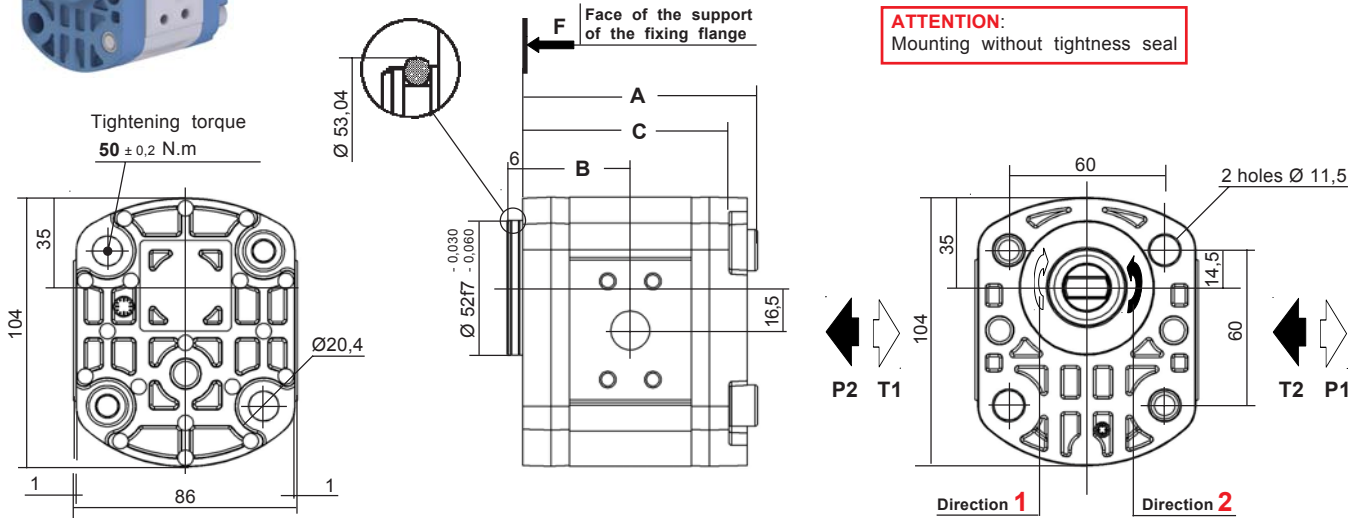
F.T 20 1332 4/4

Consult us for availability



**P** II Sign **DZK 2** VI Sign **HL 4 0 D02** XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity       | Dimensions |      |      |
|------------------------------|------------|------|------|
|                              | A          | B    | C    |
| 004 - 006 - 008<br>010 - 012 | 90,5       | 41,5 | 79,5 |
| 014 - 015 - 017<br>018 - 022 | 105        | 49   | 94   |
| 026 - 030                    | 121        | 57   | 110  |

Multiples geared pumps, see data sheet **F.T 20 1306**

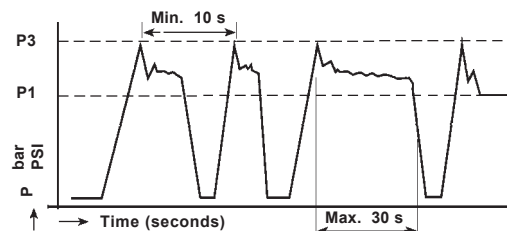
Seal kits:  
Nitrile: **K5069830 + K102539**  
Viton: **K5069840 + K107013**  
(For the manufacturings from January 1984)

| MODEL | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|       |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|       |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| 2004  | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500              | 6,97         | 16,2          | 0,91   | 8,70                                  | 1,6                  |
| 2006  | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500              | 9,67         | 22,5          | 1,26   | 12,07                                 | 1,6                  |
| 2008  | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500              | 12,37        | 28,8          | 1,62   | 15,43                                 | 1,7                  |
| 2010  | 10,12                | 280           | 4060 | 240                  | 3480 | 3500              | 15,18        | 35,3          | 1,98   | 18,93                                 | 1,7                  |
| 2012  | 12                   | 280           | 4060 | 240                  | 3480 | 3500              | 18           | 42            | 2,35   | 22,45                                 | 1,7                  |
| 2014  | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500              | 20,7         | 48,3          | 2,71   | 25,81                                 | 2                    |
| 2015  | 15,52                | 250           | 3625 | 210                  | 3045 | 3500              | 23,25        | 52,5          | 3,04   | 29,03                                 | 2,1                  |
| 2017  | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500              | 25,95        | 60,55         | 3,39   | 32,36                                 | 2,1                  |
| 2018  | 19,12                | 200           | 2900 | 170                  | 2465 | 3500              | 28,65        | 66,8          | 3,75   | 35,77                                 | 2,2                  |
| 2022  | 22,87                | 175           | 2537 | 150                  | 2175 | 3500              | 34,2         | 79,8          | 4,30   | 42,78                                 | 2,3                  |
| 2026  | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000              | 41,4         | 82,8          | 5,16   | 51,63                                 | 2,7                  |
| 2030  | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000              | 46,8         | 93,6          | 5,77   | 58,36                                 | 2,8                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

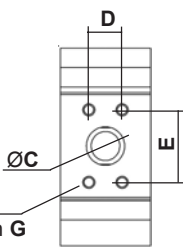
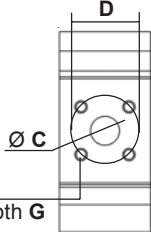
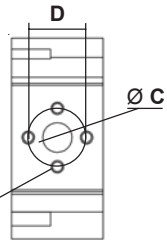
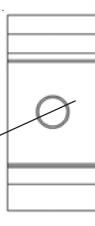
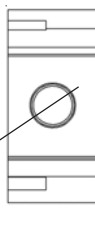
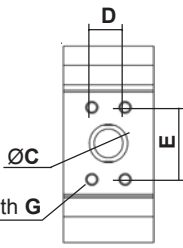


P3 Allowable peak pressure.



Consult us for availability

**F.T 20 1362 1/4**

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity     | INLET (T)                  |      |      |                        |    | OUTLET (P) |      |    |                        |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min)   |  |
|---|--------------|----------------------------|------|------|------------------------|----|------------|------|----|------------------------|----|--|--|
|   |              | ØC                         | D    | E    | ØF                     | G  | ØC         | D    | E  | ØF                     | G  | INLET (T)  | OUTLET (P)   |
| <b>H</b><br>(HPI)<br><br>Ø F<br>effective depth G                  | 2004 to 2012 | 20                         | 17,4 | 38   | M6                     | 12 | 15         | 17,4 | 38 | M6                     | 15 | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126  | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |
|   | 2014 to 2030 | 26                         | 47,6 | 22,4 | M6                     | 12 | 15         | 17,4 | 38 | M6                     | 12 | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |
| <b>C</b><br>(Square)<br><br>Ø F<br>effective depth G               | 2004 to 2012 | 20                         | 40   |      | M6                     | 12 | 15         | 35   |    | M6                     | 12 | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |
|   | 2014 to 2030 |                            |      |      |                        |    |            |      |    |                        |    | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |
| <b>B</b><br>(Italian)<br><br>4 holes Ø F<br>effective depth G     | 2004 to 2012 | 15                         | 30   |      | M6                     | 13 | 15         | 30   |    | M6                     | 13 | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202   | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |
|   | 2014 to 2030 | 23,5                       | 40   |      | M8                     | 13 | 15         | 30   |    | M6                     | 13 | 1 / 2 " BSP<br>N: X.367508.101<br>3 / 4 " BSP<br>N: X.367508.102   | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |
| <b>F</b><br>(Threaded)<br><br>Ø F<br>effective depth G           | 2004 to 2012 |                            |      |      | 3/4" BSP               | 16 |            |      |    | 3/8" BSP               | 12 |  |  |
|   | 2014 to 2022 |                            |      |      | 1" BSP                 | 18 |            |      |    | 1/2" BSP               | 14 |  |  |
| <b>U</b><br>(Threaded SAE J 475)<br><br>Ø F<br>effective depth G | 2004 to 2012 |                            |      |      | 1"1/16<br>12 UNF<br>2B | 20 |            |      |    | 7/8"<br>14 UNF<br>2B   | 17 |  |  |
|   | 2014 to 2022 |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    | 7/8"<br>14 UNF<br>2B   | 17 |  |  |
|   | 2026-2030    |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    | 1"1/16<br>12 UNF<br>2B | 20 |  |  |
| <b>Y</b><br>(ISO 6162)<br><br>Ø F<br>effective depth G           | 2004 to 2012 | 20                         | 17,4 | 38   | M8                     | 14 | 15         | 17,4 | 38 | M8                     | 14 |  |  |
|   | 2014 to 2022 | 26                         | 47,6 | 22,4 | M10                    | 14 | 15         | 17,4 | 38 | M8                     | 14 |  |  |
|   | 2026-2030    | 26                         | 52,4 | 26,2 | M10                    | 14 | 15         | 17,4 | 38 | M8                     | 14 |  |  |
| <b>X</b><br>(without ports)<br>                                  | 2004 to 2030 | Only with rear body Type A |      |      |                        |    |            |      |    |                        |    | <br>Consult us for availability |  |

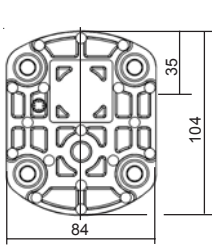
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1362 2/4

REAR BODIES

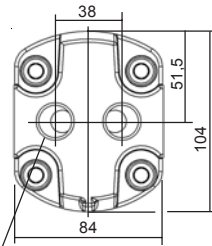
**L**

Standard



**A**

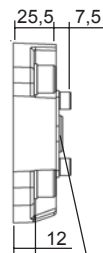
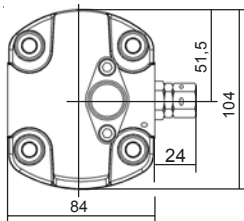
with ports



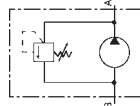
(2x) 1/2" BSP  
effective depth 14

**X**

High pressure relief valve  
(Adjustable) Internal return

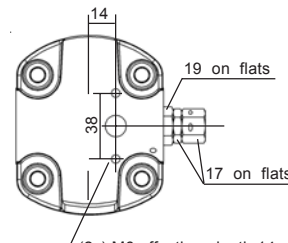


Blank port  
connector only  
internal return

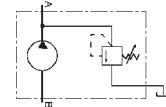


**T**

High pressure relief valve  
(Adjustable) External return

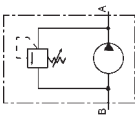
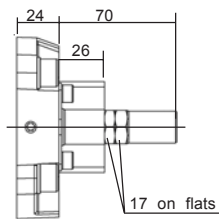
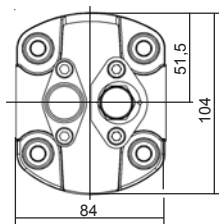


(2x) M6 effective depth 14



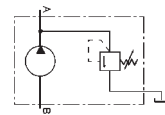
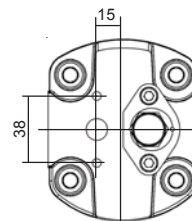
**V**

Low Pressure relief valve  
(Adjustable) Internal return



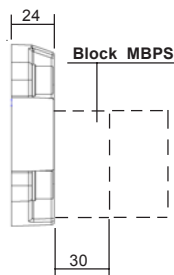
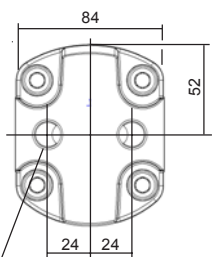
**W**

Low Pressure relief valve  
(Adjustable) External return



**AR**

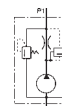
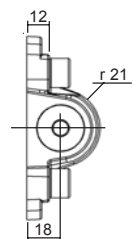
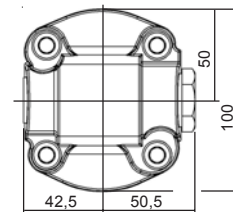
with block configuration MBPS



3/8" BSP (x2) effective depth 17,5

**Q**

Flow control  
Internal return



Consult us for availability

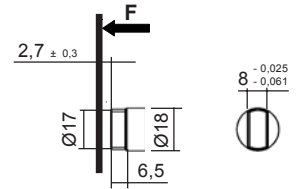
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1362 3/4

DRIVING SHAFT (DZK)

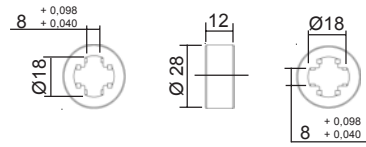
| Tapered   | Straight keyed | Splined   | Tang      |
|-----------|----------------|-----------|-----------|
| <b>10</b> | <b>20</b>      | <b>30</b> | <b>40</b> |

**D02**



Max tightening torque  
**70 N.m**

Coupling on request: Ref. K102947



Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1362 4/4**

Consult us for availability





PUMPS PRESENTATION  
**SERIES 2 and 2,5**

F.T 20 1299

- THICK FRONT BODIES

PUMP **AAP**



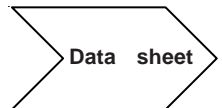
F.T 20 1339

PUMP **AAR**



F.T 20 1341

PUMP **ARP**



F.T 20 1343

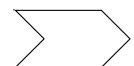
PUMP **ARK**



F.T 20 1345



Consult us for availability



- THICK FRONT BODIES (rest)

PUMP

**DBP**



**F.T 20 1347**

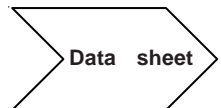
PUMP

**DBR**

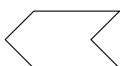


**F.T 20 1349**

MULTIPLES  
PUMPS



**F.T 20 1306**

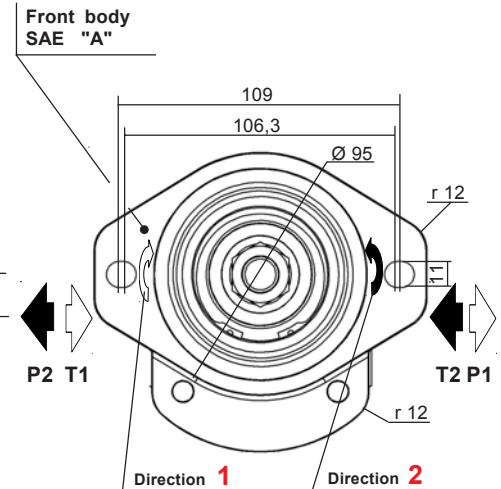
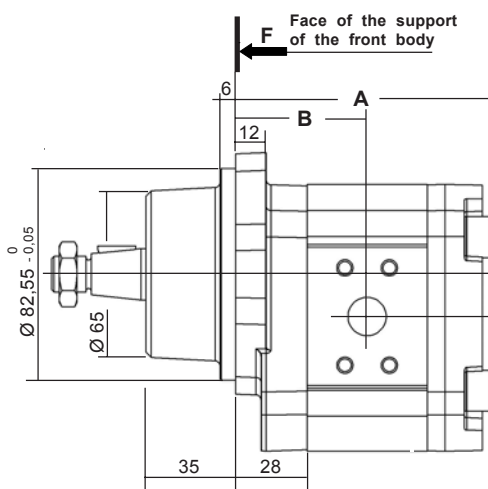
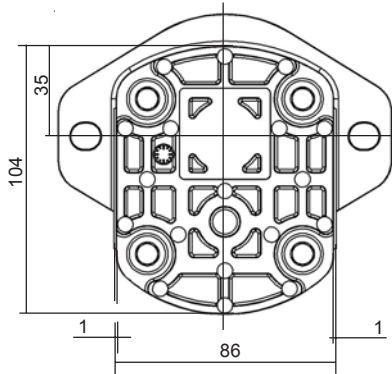


Consult us for availability



**P** II Sign **AA** **P** **2** VI Sign **H** **L** IX Sign X Sign **C03** XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity              | Dimensions |      |
|-------------------------------------|------------|------|
|                                     | A          | B    |
| 004 - 006 - 008<br>010 - 012        | 100,5      | 51,5 |
| <b>014 - 015 - 017</b><br>018 - 022 | 115        | 59   |
| 026 - 030                           | 131        | 67   |

Multiples geared pumps, see data sheet **F.T 20 1306**

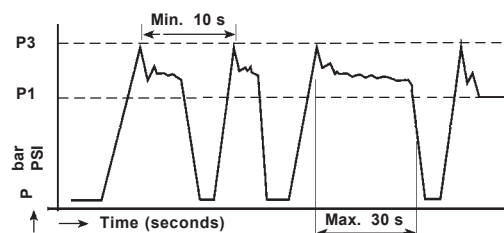
Seal kits:  
Nitrile: **K5069870 + K5069830**  
Viton: **K5069880 + K5069840**  
(For the manufacturings from february 1986)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                 |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| <b>2004</b> | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500              | 6,97         | 16,2          | 0,91                                     | 8,70                            | 2,7                  |
| <b>2006</b> | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500              | 9,67         | 22,5          | 1,26                                     | 12,07                           | 2,7                  |
| <b>2008</b> | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500              | 12,37        | 28,8          | 1,62                                     | 15,43                           | 2,8                  |
| <b>2010</b> | 10,12                | 280           | 4060 | 240                  | 3480 | 3500              | 15,18        | 35,3          | 1,98                                     | 18,93                           | 2,8                  |
| <b>2012</b> | 12                   | 280           | 4060 | 240                  | 3480 | 3500              | 18           | 42            | 2,35                                     | 22,45                           | 2,8                  |
| <b>2014</b> | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500              | 20,7         | 48,3          | 2,71                                     | 25,81                           | 3                    |
| <b>2015</b> | 15,52                | 250           | 3625 | 210                  | 3045 | 3500              | 23,25        | 52,5          | 3,04                                     | 29,03                           | 3,1                  |
| <b>2017</b> | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500              | 25,95        | 60,55         | 3,39                                     | 32,36                           | 3,2                  |
| <b>2018</b> | 19,12                | 200           | 2900 | 170                  | 2465 | 3500              | 28,65        | 66,8          | 3,75                                     | 35,77                           | 3,3                  |
| <b>2022</b> | 22,87                | 175           | 2537 | 150                  | 2175 | 3500              | 34,2         | 79,8          | 4,30                                     | 42,78                           | 3,4                  |
| <b>2026</b> | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000              | 41,4         | 82,8          | 5,16                                     | 51,63                           | 3,8                  |
| <b>2030</b> | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000              | 46,8         | 93,6          | 5,77                                     | 58,36                           | 3,9                  |

P1 Maximum pressure in continuous duty.

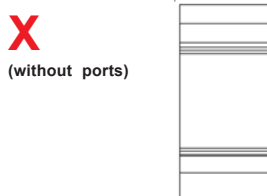
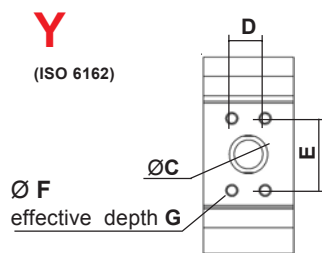
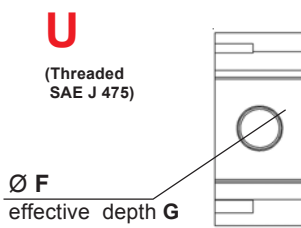
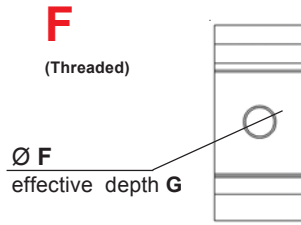
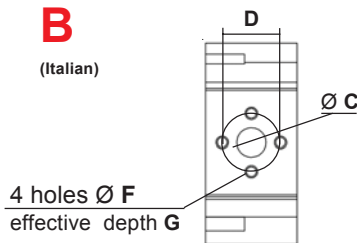
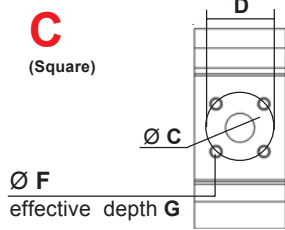
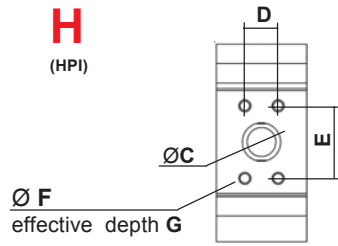
Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                  |    | OUTLET (P) |      |    |    |                | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |                  |    |                  |    |
|--------------|----------------------------|------|------|------------------|----|------------|------|----|----|----------------|--|--|------------------|----|------------------|----|
|              | ØC                         | D    | E    | ØF               | G  | ØC         | D    | E  | ØF | G              | INLET (T)  | OUTLET (P)   |                  |    |                  |    |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6               | 12 | 15         | 17,4 | 38 | M6 | 15             | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |                  |    |                  |    |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6               | 12 | 15         | 17,4 | 38 | M6 | 12             | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |                  |    |                  |    |
| 2004 to 2012 | 20                         | 40   |      | M6               | 12 | 15         | 35   |    | M6 | 12             | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |                  |    |                  |    |
| 2004 to 2012 | 15                         | 30   |      | M6               | 13 | 15         | 30   |    | M6 | 13             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 23,5   | 40   | M8               | 13 | 15               | 30 |
| 2004 to 2012 |                            |      |      | 3/4" BSP         | 16 |            |      |    |    | 3/8" BSP       | 12   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1" BSP           | 18 | 1/2" BSP         | 14 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"1/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2004 to 2012 |                            |      |      | 1"5/16 12 UNF 2B | 20 |            |      |    |    | 7/8" 14 UNF 2B | 17   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 1"1/16 12 UNF 2B | 20 |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8               | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2004 to 2030 | Only with rear body Type A |      |      |                  |    |            |      |    |    |                | Consult us for availability  |  |                  |    |                  |    |

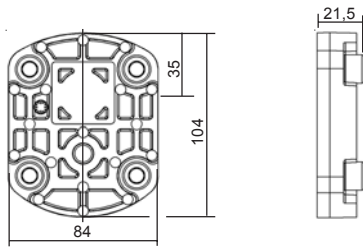
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1339 2/4

**REAR BODIES**

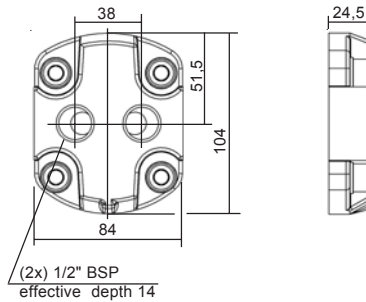
**L**

Standard



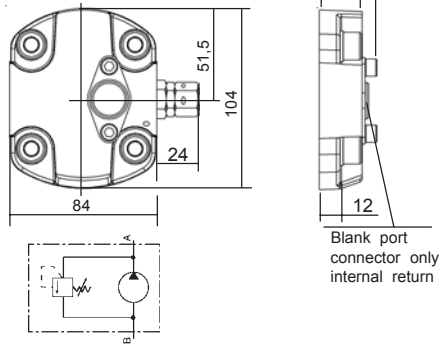
**A**

with ports



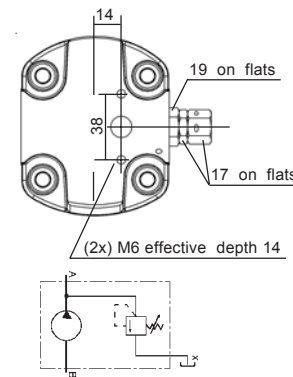
**X**

High pressure relief valve (Adjustable) Internal return



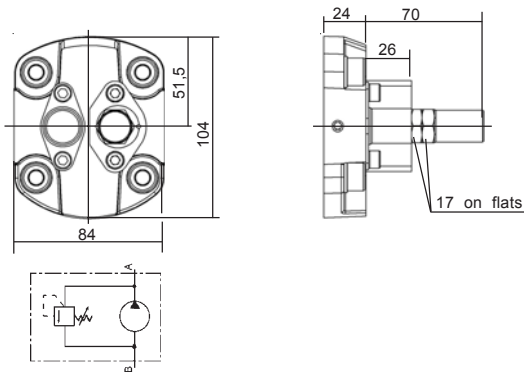
**T**

High pressure relief valve (Adjustable) External return



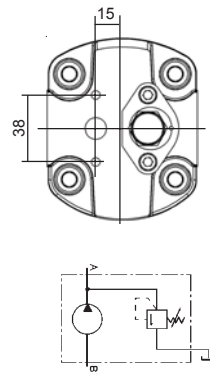
**V**

Low Pressure relief valve (Adjustable) Internal return



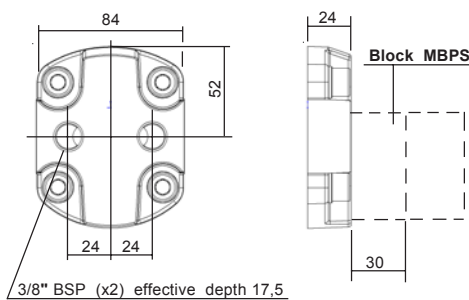
**W**

Low Pressure relief valve (Adjustable) External return



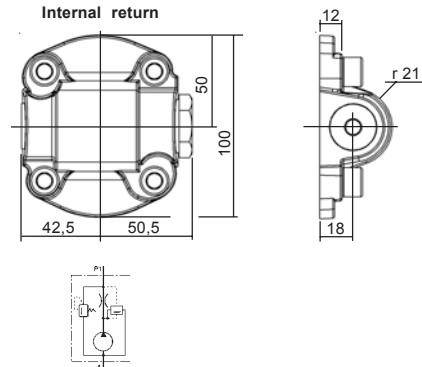
**AR**

with block configuration MBPS



**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1339 3/4**



Consult us for availability

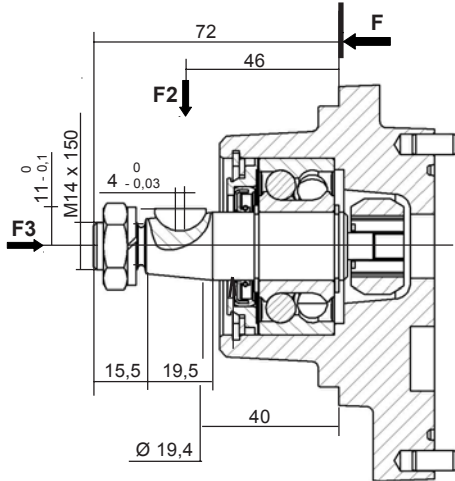
**DRIVING SHAFTS**

**Tapered**

**10**

**C03**

Taper 1/5



Delivered with nut: K102045

**F2 Maxi: 120 daN**

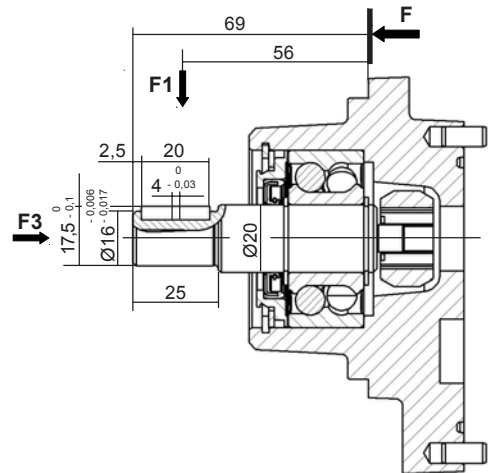
**F3 Maxi: 50 daN**

**Maxi transmissible torque**  
**50 N.m**

**Straight keyed**

**20**

**C03**



**F1 Maxi: 100 daN**

**F3 Maxi: 50 daN**

**Maxi transmissible torque**  
**50 N.m**

Dimensions readings and approximative characteristics subject to modifications.

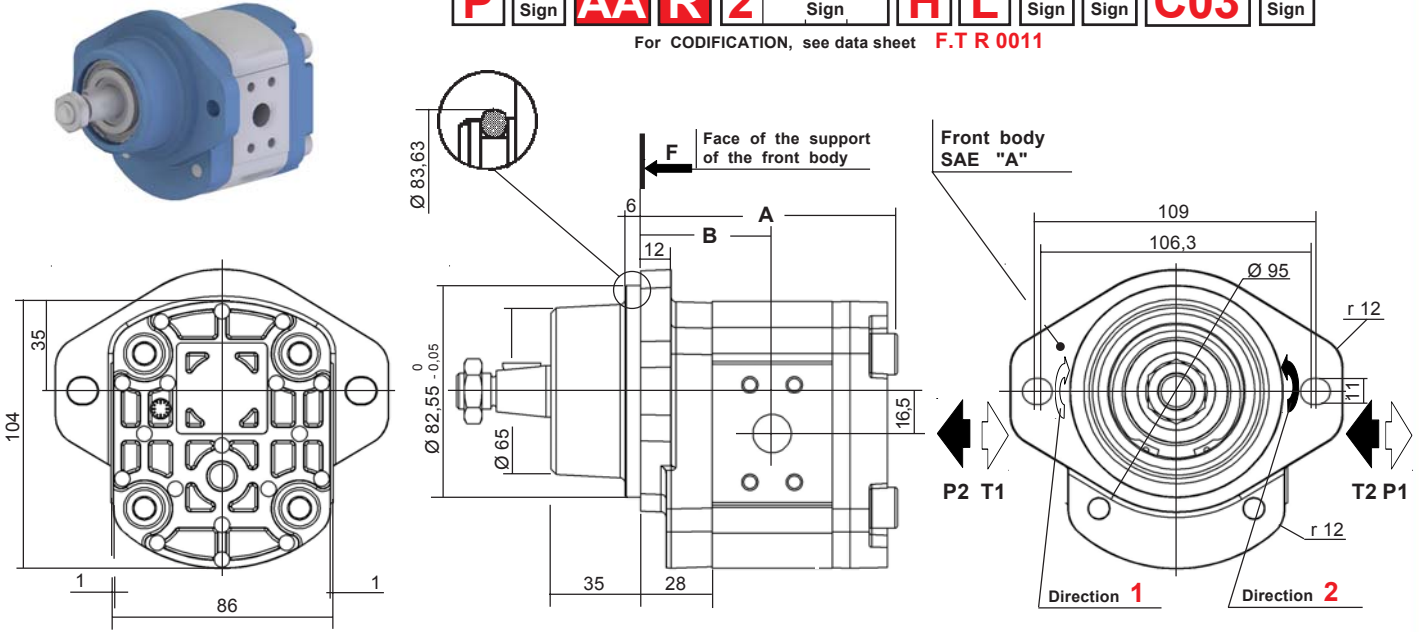
**F.T 20 1339 4/4**



Consult us for availability

**P** II Sign **AAR** **2** VI Sign **HL** IX Sign X Sign **C03** XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity              | Dimensions |      |
|-------------------------------------|------------|------|
|                                     | A          | B    |
| 004 - 006 - 008<br>010 - 012        | 100,5      | 51,5 |
| <b>014 - 015 - 017</b><br>018 - 022 | 115        | 59   |
| 026 - 030                           | 131        | 67   |

Multiples geared pumps, see data sheet **F.T 20 1306**

Seal kits:  
Nitrile: **K5069870 + K5069830 + K102901**  
Viton: **K5069880 + K5069840 + K104093**  
(For the manufacturings from february 1986)

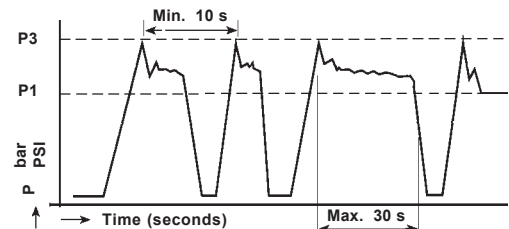
| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| <b>2004</b> | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500              | 6,97         | 16,2          | 0,91   | 8,70                                  | 2,7                  |
| <b>2006</b> | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500              | 9,67         | 22,5          | 1,26   | 12,07                                 | 2,7                  |
| <b>2008</b> | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500              | 12,37        | 28,8          | 1,62   | 15,43                                 | 2,8                  |
| <b>2010</b> | 10,12                | 280           | 4060 | 240                  | 3480 | 3500              | 15,18        | 35,3          | 1,98   | 18,93                                 | 2,8                  |
| <b>2012</b> | 12                   | 280           | 4060 | 240                  | 3480 | 3500              | 18           | 42            | 2,35   | 22,45                                 | 2,8                  |
| <b>2014</b> | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500              | 20,7         | 48,3          | 2,71   | 25,81                                 | 3                    |
| <b>2015</b> | 15,52                | 250           | 3625 | 210                  | 3045 | 3500              | 23,25        | 52,5          | 3,04   | 29,03                                 | 3,1                  |
| <b>2017</b> | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500              | 25,95        | 60,55         | 3,39   | 32,36                                 | 3,2                  |
| <b>2018</b> | 19,12                | 200           | 2900 | 170                  | 2465 | 3500              | 28,65        | 66,8          | 3,75   | 35,77                                 | 3,3                  |
| <b>2022</b> | 22,87                | 175           | 2537 | 150                  | 2175 | 3500              | 34,2         | 79,8          | 4,30   | 42,78                                 | 3,4                  |
| <b>2026</b> | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000              | 41,4         | 82,8          | 5,16   | 51,63                                 | 3,8                  |
| <b>2030</b> | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000              | 46,8         | 93,6          | 5,77   | 58,36                                 | 3,9                  |

**F.T 20 1341 1/4**

P1 Maximum pressure in continuous duty.

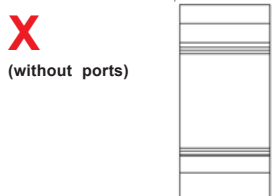
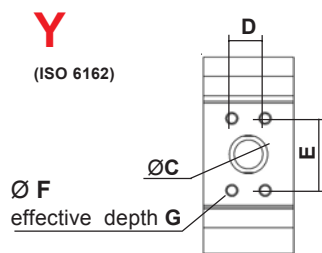
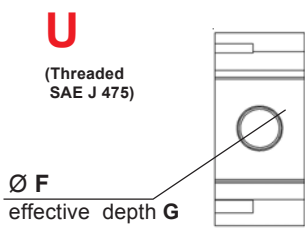
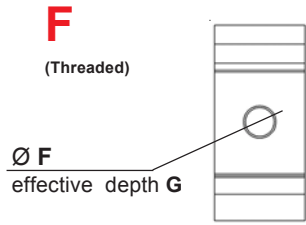
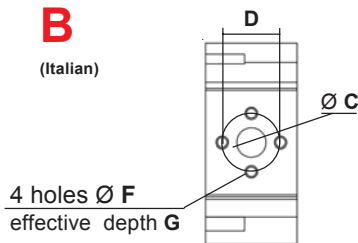
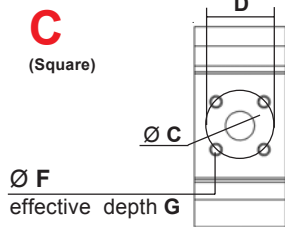
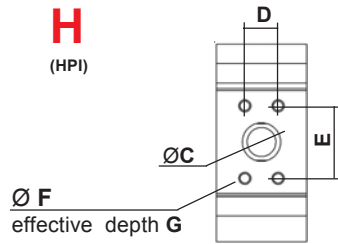
Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                  |    | OUTLET (P) |      |    |    |                | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |                  |    |                  |    |
|--------------|----------------------------|------|------|------------------|----|------------|------|----|----|----------------|--|--|------------------|----|------------------|----|
|              | ØC                         | D    | E    | ØF               | G  | ØC         | D    | E  | ØF | G              | INLET (T)  | OUTLET (P)   |                  |    |                  |    |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6               | 12 | 15         | 17,4 | 38 | M6 | 15             | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |                  |    |                  |    |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6               | 12 | 15         | 17,4 | 38 | M6 | 12             | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |                  |    |                  |    |
| 2004 to 2012 | 20                         | 40   |      | M6               | 12 | 15         | 35   |    | M6 | 12             | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |                  |    |                  |    |
| 2004 to 2012 | 15                         | 30   |      | M6               | 13 | 15         | 30   |    | M6 | 13             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 23,5   | 40   | M8               | 13 | 15               | 30 |
| 2004 to 2012 |                            |      |      | 3/4" BSP         | 16 |            |      |    |    | 3/8" BSP       | 12   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1" BSP           | 18 | 1/2" BSP         | 14 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"1/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2004 to 2012 |                            |      |      | 1"5/16 12 UNF 2B | 20 |            |      |    |    | 7/8" 14 UNF 2B | 17   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 1"1/16 12 UNF 2B | 20 |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8               | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2004 to 2030 | Only with rear body Type A |      |      |                  |    |            |      |    |    |                |  | Consult us for availability                                      |                  |    |                  |    |

Dimensions readings and approximative characteristics subject to modifications.

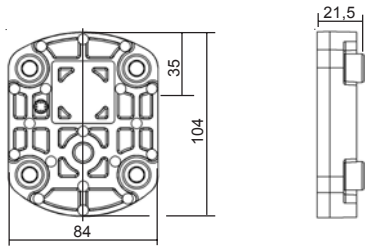
F.T 20 1341 2/4



REAR BODIES

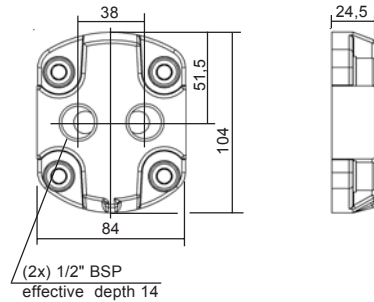
**L**

Standard



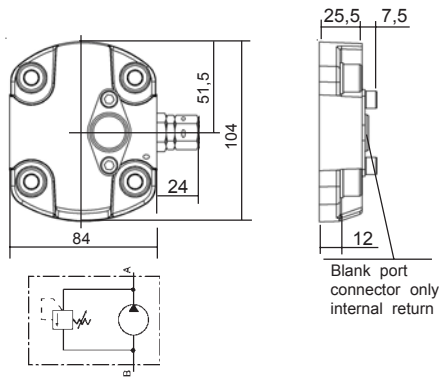
**A**

with ports



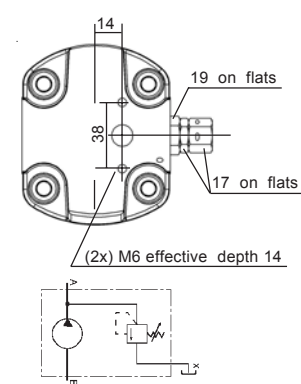
**X**

High pressure relief valve (Adjustable) Internal return



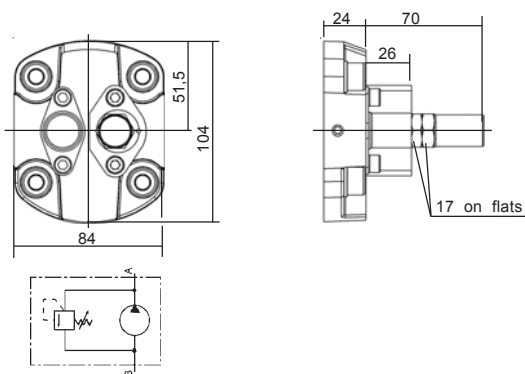
**T**

High pressure relief valve (Adjustable) External return



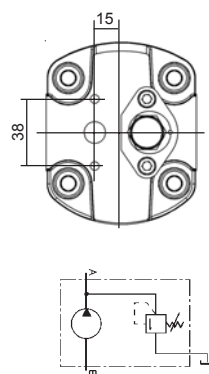
**V**

Low Pressure relief valve (Adjustable) Internal return



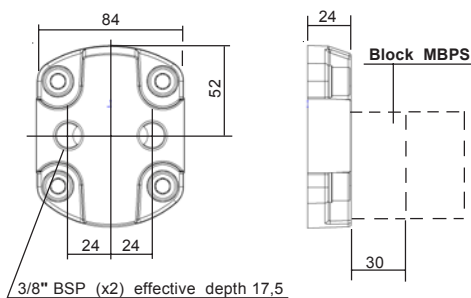
**W**

Low Pressure relief valve (Adjustable) External return



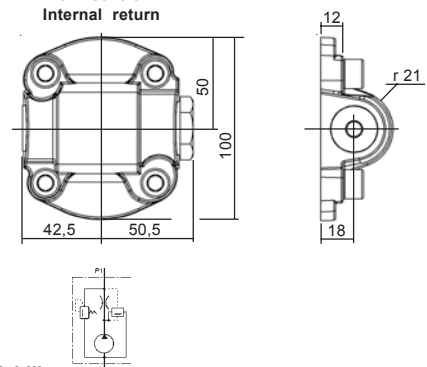
**AR**

with block configuration MBPS



**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1341 3/4

Consult us for availability

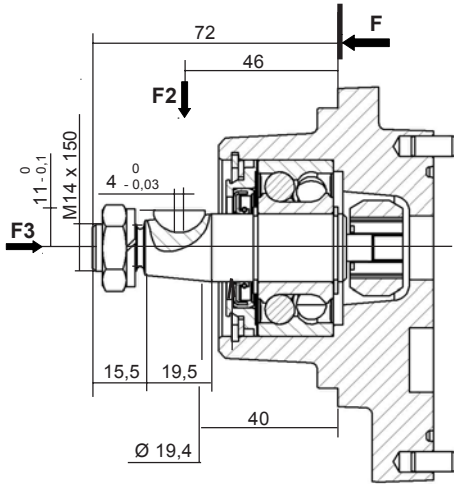
**DRIVING SHAFTS**

**Tapered**

**10**

**C03**

Taper 1/5



Delivered with nut: K102045

**F2 Maxi: 120 daN**

**F3 Maxi: 50 daN**

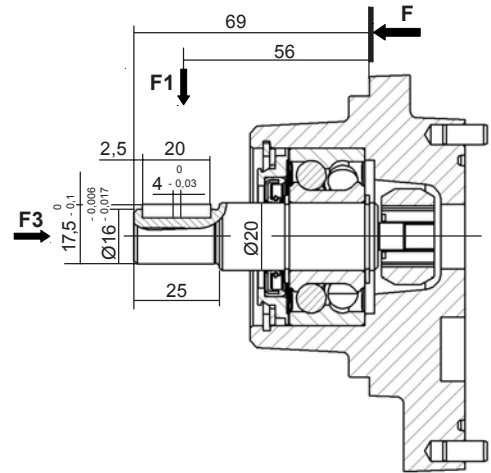
Maxi transmissible torque

**50 N.m**

**Straight keyed**

**20**

**C03**



**F1 Maxi: 100 daN**

**F3 Maxi: 50 daN**

Maxi transmissible torque

**50 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1341 4/4**

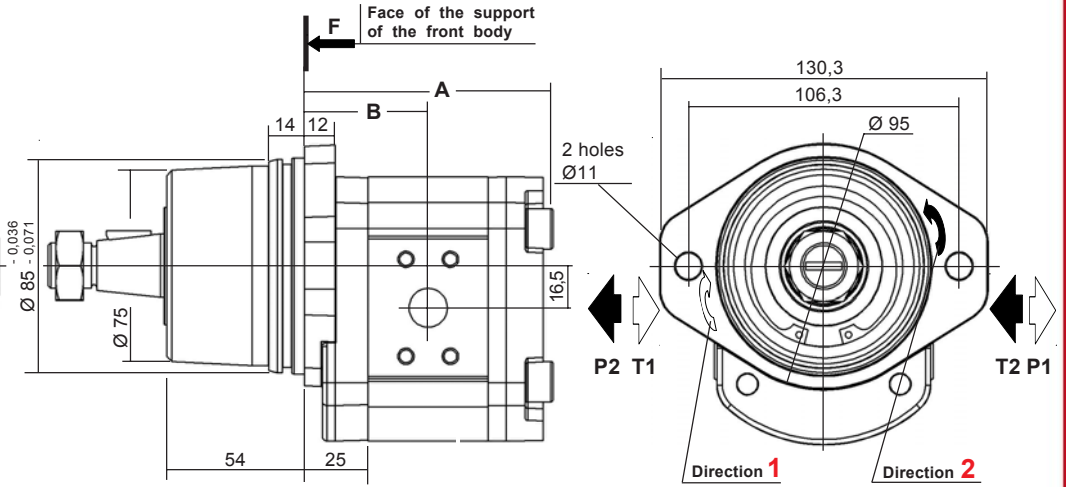
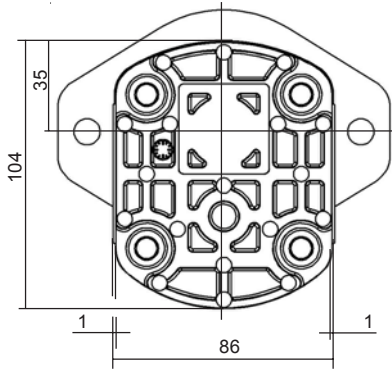


Consult us for availability



**P** II Sign **AR P 2** VI Sign **H L 1 0 C05** XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the capacity       | Dimensions |      |
|------------------------------|------------|------|
|                              | A          | B    |
| 004 - 006 - 008<br>010 - 012 | 97,5       | 48,5 |
| 014 - 015 - 017<br>018 - 022 | 112        | 56   |
| 026 - 030                    | 128        | 64   |

Multiples geared pumps, see data sheet **F.T 20 1306**

Seal kits:  
Nitrile: **K112366 + K5069830**  
Viton: **K112366 + K5069840**  
(For the manufacturings from february 1986)

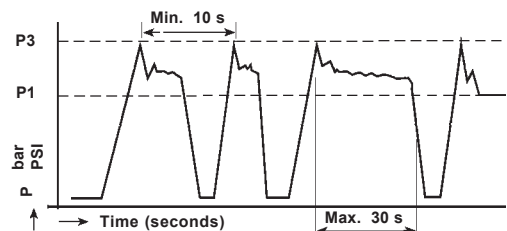
| MODEL | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|---|---------------------------------|----------------------|
|       |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |   |                                 |                      |
|       |                      |               |      |                      |      |                   | l / min      | l / min       |   |                                 |                      |
| 2004  | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500              | 6,97         | 16,2          | 0,91  | 8,70                            | 2,7                  |
| 2006  | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500              | 9,67         | 22,5          | 1,26  | 12,07                           | 2,7                  |
| 2008  | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500              | 12,37        | 28,8          | 1,62  | 15,43                           | 2,8                  |
| 2010  | 10,12                | 280           | 4060 | 240                  | 3480 | 3500              | 15,18        | 35,3          | 1,98  | 18,93                           | 2,8                  |
| 2012  | 12                   | 280           | 4060 | 240                  | 3480 | 3500              | 18           | 42            | 2,35  | 22,45                           | 2,8                  |
| 2014  | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500              | 20,7         | 48,3          | 2,71  | 25,81                           | 3                    |
| 2015  | 15,52                | 250           | 3625 | 210                  | 3045 | 3500              | 23,25        | 52,5          | 3,04  | 29,03                           | 3,1                  |
| 2017  | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500              | 25,95        | 60,55         | 3,39  | 32,36                           | 3,2                  |
| 2018  | 19,12                | 200           | 2900 | 170                  | 2465 | 3500              | 28,65        | 66,8          | 3,75  | 35,77                           | 3,3                  |
| 2022  | 22,87                | 175           | 2537 | 150                  | 2175 | 3500              | 34,2         | 79,8          | 4,30  | 42,78                           | 3,4                  |
| 2026  | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000              | 41,4         | 82,8          | 5,16  | 51,63                           | 3,8                  |
| 2030  | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000              | 46,8         | 93,6          | 5,77  | 58,36                           | 3,9                  |

**F.T 20 1343 1/4**

P1 Maximum pressure in continuous duty.

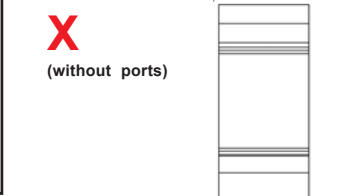
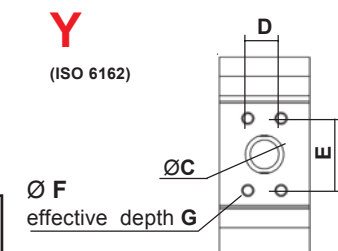
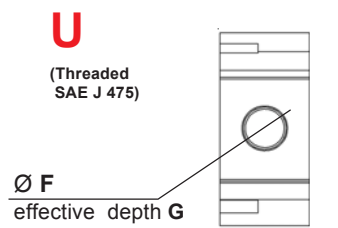
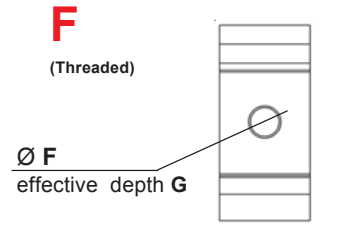
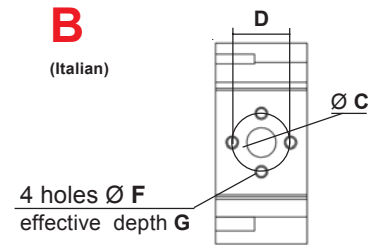
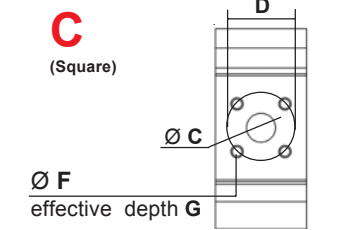
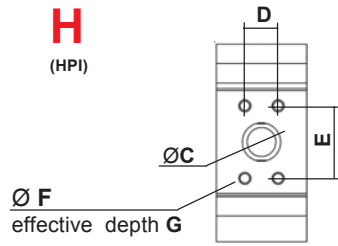
Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                  |    | OUTLET (P) |      |    |    |                | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |                  |    |                  |    |
|--------------|----------------------------|------|------|------------------|----|------------|------|----|----|----------------|--|--|------------------|----|------------------|----|
|              | ØC                         | D    | E    | ØF               | G  | ØC         | D    | E  | ØF | G              | INLET (T)  | OUTLET (P)   |                  |    |                  |    |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6               | 12 | 15         | 17,4 | 38 | M6 | 15             | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |                  |    |                  |    |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6               | 12 | 15         | 17,4 | 38 | M6 | 12             | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |                  |    |                  |    |
| 2004 to 2012 | 20                         | 40   |      | M6               | 12 | 15         | 35   |    | M6 | 12             | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |                  |    |                  |    |
| 2004 to 2012 | 15                         | 30   |      | M6               | 13 | 15         | 30   |    | M6 | 13             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 23,5   | 40   | M8               | 13 | 15               | 30 |
| 2004 to 2012 |                            |      |      | 3/4" BSP         | 16 |            |      |    |    | 3/8" BSP       | 12   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"               | 18 | 1/2" BSP         | 14 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"1/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2004 to 2012 |                            |      |      | 1"5/16 12 UNF 2B | 20 |            |      |    |    | 7/8" 14 UNF 2B | 17   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 1"1/16 12 UNF 2B | 20 |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8               | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2004 to 2030 | Only with rear body Type A |      |      |                  |    |            |      |    |    |                | Consult us for availability  |  |                  |    |                  |    |

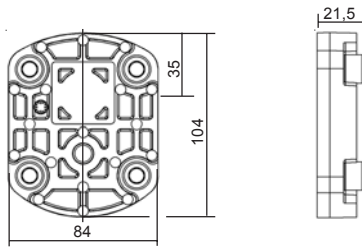
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1343 2/4

REAR BODIES

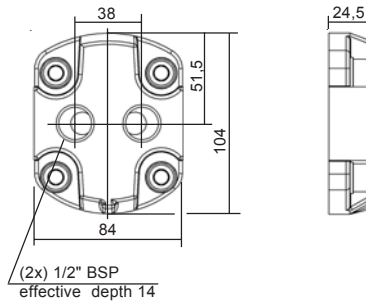
**L**

Standard



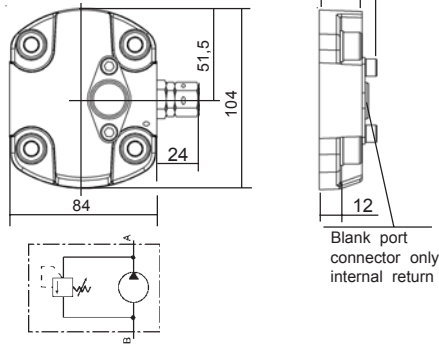
**A**

with ports



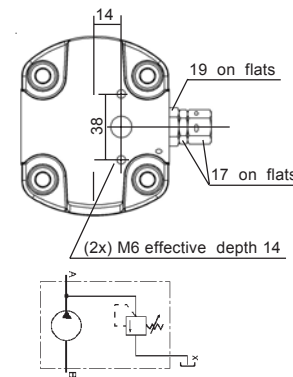
**X**

High pressure relief valve (Adjustable) Internal return



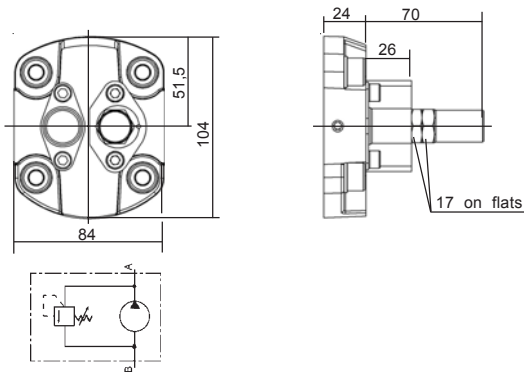
**T**

High pressure relief valve (Adjustable) External return



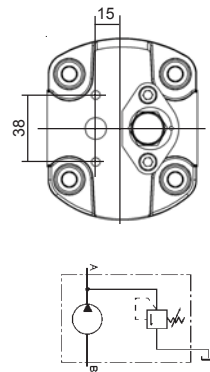
**V**

Low Pressure relief valve (Adjustable) Internal return



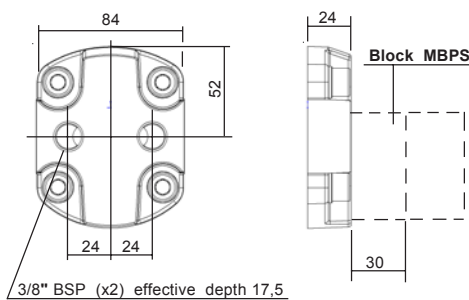
**W**

Low Pressure relief valve (Adjustable) External return



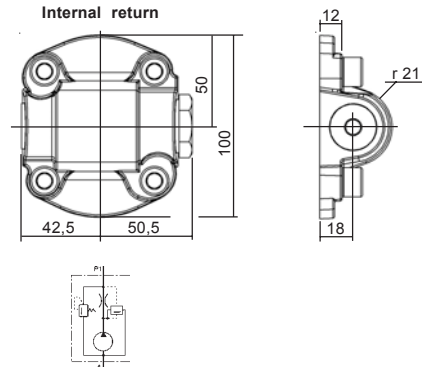
**AR**

with block configuration MBPS



**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1343 3/4**



Consult us for availability

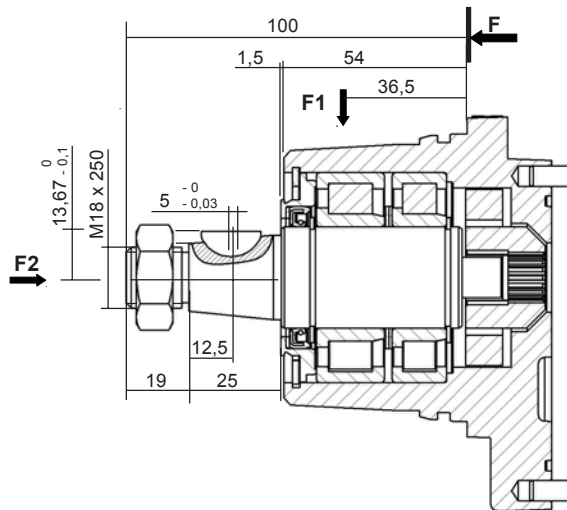
**DRIVING SHAFT**

Tapered

**10**

**C05**

Cône 1/5



Delivered with nut: K106295

**F1 Maxi: 350 daN**

**F2 Maxi: 50 daN**

Maxi transmissible torque

**70 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1343 4/4**

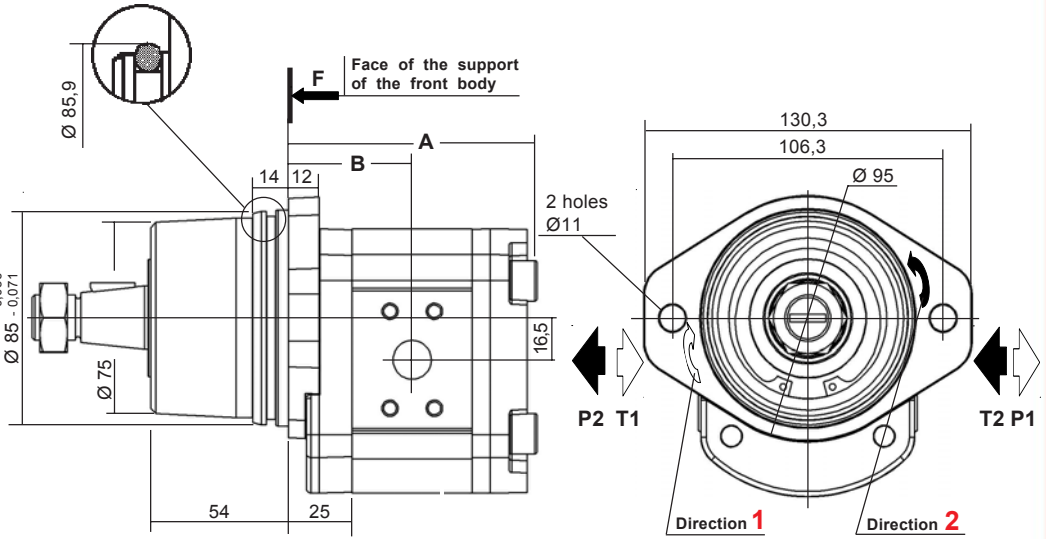
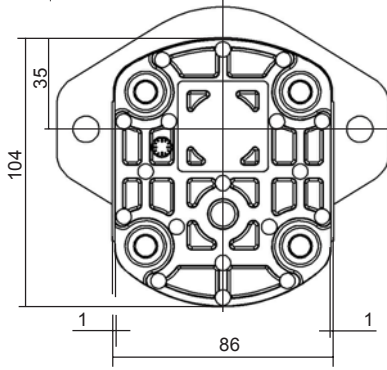


Consult us for availability



P II Sign **AR K 2** VI Sign **H L 1 0 C05** XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the capacity       | Dimensions |      |
|------------------------------|------------|------|
|                              | A          | B    |
| 004 - 006 - 008<br>010 - 012 | 97,5       | 48,5 |
| 014 - 015 - 017<br>018 - 022 | 112        | 56   |
| 026 - 030                    | 128        | 64   |

Multiples geared pumps, see data sheet **F.T 20 1306**

Seal kits:  
Nitrile: **K112366 + K5069830 + K106139**  
Viton: **K112366 + K5069840 + K106139**  
(For the manufacturings from february 1986)

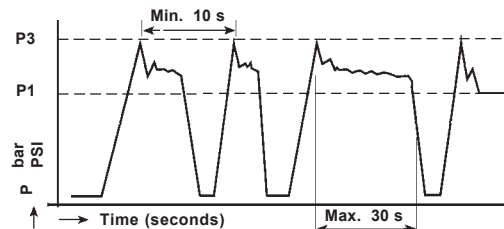
| MODEL | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|       |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|       |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| 2004  | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500              | 6,97         | 16,2          | 0,91   | 8,70                                  | 2,7                  |
| 2006  | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500              | 9,67         | 22,5          | 1,26   | 12,07                                 | 2,7                  |
| 2008  | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500              | 12,37        | 28,8          | 1,62   | 15,43                                 | 2,8                  |
| 2010  | 10,12                | 280           | 4060 | 240                  | 3480 | 3500              | 15,18        | 35,3          | 1,98   | 18,93                                 | 2,8                  |
| 2012  | 12                   | 280           | 4060 | 240                  | 3480 | 3500              | 18           | 42            | 2,35   | 22,45                                 | 2,8                  |
| 2014  | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500              | 20,7         | 48,3          | 2,71   | 25,81                                 | 3                    |
| 2015  | 15,52                | 250           | 3625 | 210                  | 3045 | 3500              | 23,25        | 52,5          | 3,04   | 29,03                                 | 3,1                  |
| 2017  | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500              | 25,95        | 60,55         | 3,39   | 32,36                                 | 3,2                  |
| 2018  | 19,12                | 200           | 2900 | 170                  | 2465 | 3500              | 28,65        | 66,8          | 3,75   | 35,77                                 | 3,3                  |
| 2022  | 22,87                | 175           | 2537 | 150                  | 2175 | 3500              | 34,2         | 79,8          | 4,30   | 42,78                                 | 3,4                  |
| 2026  | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000              | 41,4         | 82,8          | 5,16   | 51,63                                 | 3,8                  |
| 2030  | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000              | 46,8         | 93,6          | 5,77   | 58,36                                 | 3,9                  |

F.T 20 1344 1/4

P1 Maximum pressure in continuous duty.

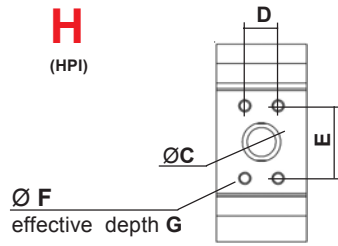
Maximum Pressure ⇒

P3 Allowable peak pressure.

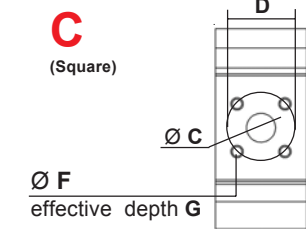


Consult us for availability

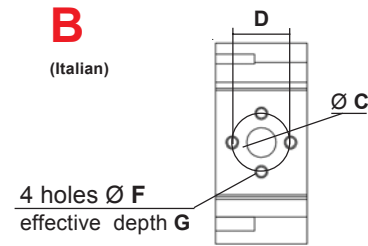
CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



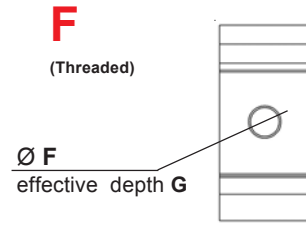
**H**  
(HPI)



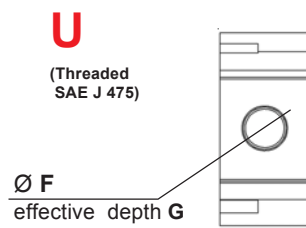
**C**  
(Square)



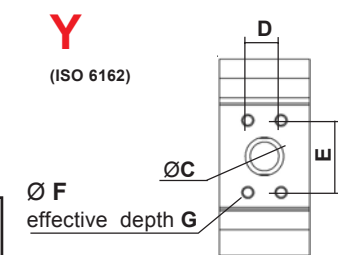
**B**  
(Italian)



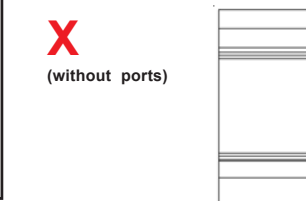
**F**  
(Threaded)



**U**  
(Threaded SAE J 475)



**Y**  
(ISO 6162)



**X**  
(without ports)

| Capacity     | INLET (T)                  |      |      |                  |    | OUTLET (P) |      |    |    |                | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |                  |    |                  |    |
|--------------|----------------------------|------|------|------------------|----|------------|------|----|----|----------------|--|--|------------------|----|------------------|----|
|              | ØC                         | D    | E    | ØF               | G  | ØC         | D    | E  | ØF | G              | INLET (T)  | OUTLET (P)   |                  |    |                  |    |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6               | 12 | 15         | 17,4 | 38 | M6 | 15             | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |                  |    |                  |    |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6               | 12 | 15         | 17,4 | 38 | M6 | 12             | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |                  |    |                  |    |
| 2004 to 2012 | 20                         | 40   |      | M6               | 12 | 15         | 35   |    | M6 | 12             | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |                  |    |                  |    |
| 2004 to 2012 | 15                         | 30   |      | M6               | 13 | 15         | 30   |    | M6 | 13             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |                  |    |                  |    |
| 2014 to 2030 |                            |      |      |                  |    |            |      |    |    |                | 23,5   | 40   | M8               | 13 | 15               | 30 |
| 2004 to 2012 |                            |      |      | 3/4" BSP         | 16 |            |      |    |    | 3/8" BSP       | 12   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1" BSP           | 18 | 1/2" BSP         | 14 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"1/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2004 to 2012 |                            |      |      | 1"5/16 12 UNF 2B | 20 |            |      |    |    | 7/8" 14 UNF 2B | 17   |  |                  |    |                  |    |
| 2014 to 2022 |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 7/8" 14 UNF 2B   | 17 |
| 2026-2030    |                            |      |      |                  |    |            |      |    |    |                |  |  | 1"5/16 12 UNF 2B | 20 | 1"1/16 12 UNF 2B | 20 |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8               | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10              | 14 | 15         | 17,4 | 38 | M8 | 14             |  |  |                  |    |                  |    |
| 2004 to 2030 | Only with rear body Type A |      |      |                  |    |            |      |    |    |                |  | Consult us for availability                                      |                  |    |                  |    |

Dimensions readings and approximative characteristics subject to modifications.

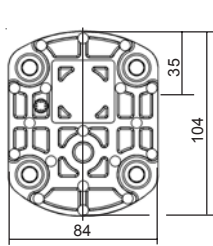
F.T 20 1344 2/4



REAR BODIES

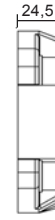
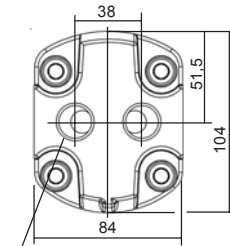
**L**

Standard



**A**

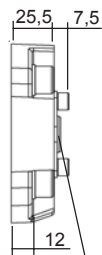
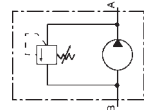
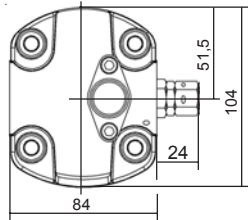
with ports



(2x) 1/2" BSP  
effective depth 14

**X**

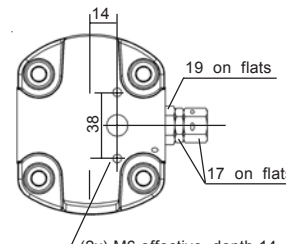
High pressure relief valve  
(Adjustable) Internal return



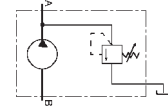
Blank port  
connector only  
internal return

**T**

High pressure relief valve  
(Adjustable) External return

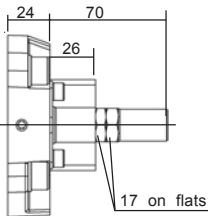
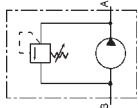
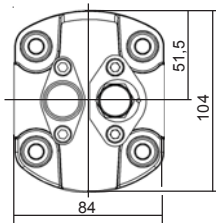


(2x) M6 effective depth 14



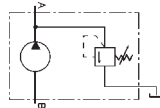
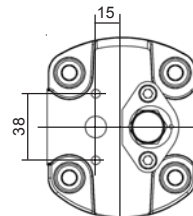
**V**

Low Pressure relief valve  
(Adjustable) Internal return



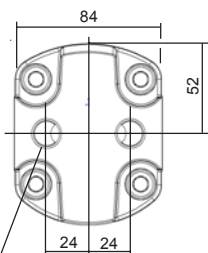
**W**

Low Pressure relief valve  
(Adjustable) External return

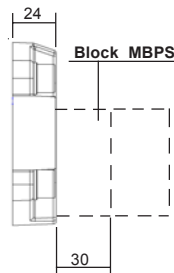


**AR**

with block configuration MBPS

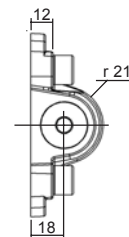
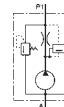
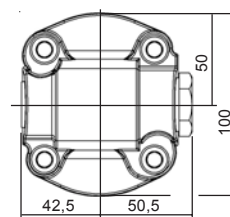


3/8" BSP (x2) effective depth 17,5



**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1344 3/4

Consult us for availability

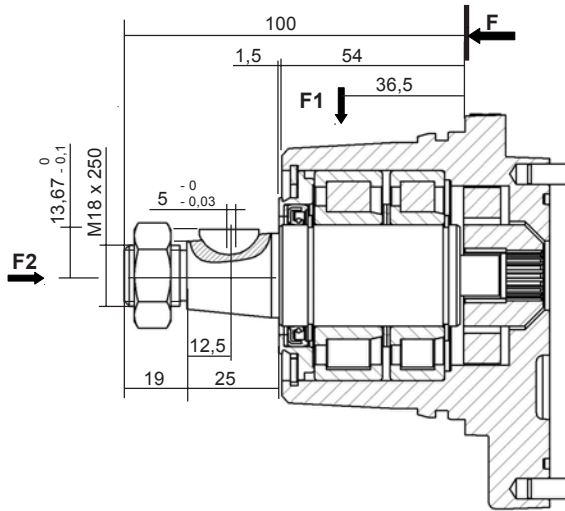
**DRIVING SHAFT**

Tapered

**10**

**C05**

Cône 1/5



Delivered with nut: K106295

**F1 Maxi: 350 daN**

**F2 Maxi: 50 daN**

Maxi transmissible torque

**70 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1344 4/4**

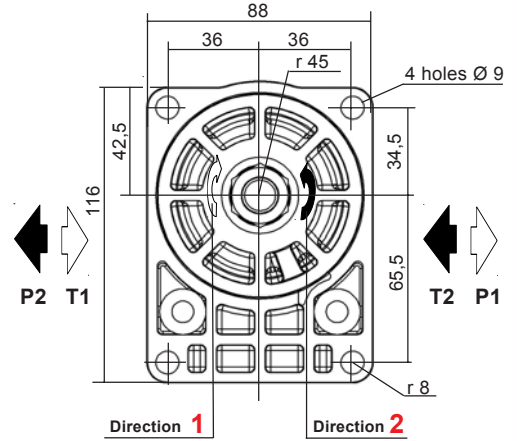
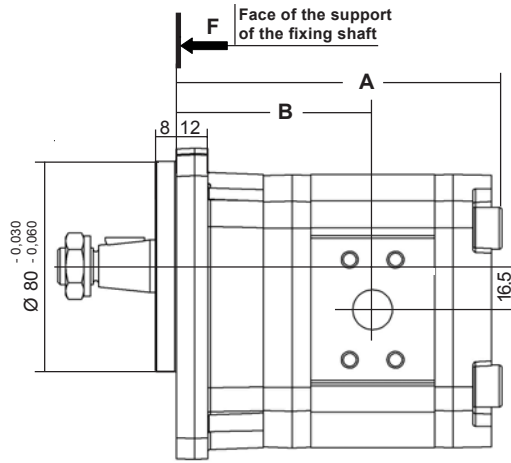
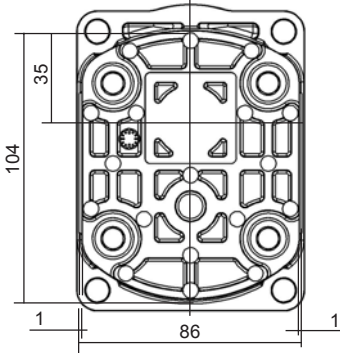


Consult us for availability



**P** II Sign **DB P 2** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



| CHOICE of the Capacity              | Dimensions |      |
|-------------------------------------|------------|------|
|                                     | A          | B    |
| 004 - 006 - 008<br>010 - 012        | 123,5      | 74,5 |
| <b>014 - 015 - 017</b><br>018 - 022 | 138        | 82   |
| 026 - 030                           | 154        | 90   |

Multiples geared pumps, see data sheet **F.T 20 1306**

Seal kits:  
Nitrile: **K5073298 + K5069830**  
Viton: **K5073299 + K5069840**  
(For the manufacturings from may 1986)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| <b>2004</b> | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500              | 6,97         | 16,2          | 0,91   | 8,70                                  | 2,7                  |
| <b>2006</b> | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500              | 9,67         | 22,5          | 1,26   | 12,07                                 | 2,7                  |
| <b>2008</b> | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500              | 12,37        | 28,8          | 1,62   | 15,43                                 | 2,8                  |
| <b>2010</b> | 10,12                | 280           | 4060 | 240                  | 3480 | 3500              | 15,18        | 35,3          | 1,98   | 18,93                                 | 2,8                  |
| <b>2012</b> | 12                   | 280           | 4060 | 240                  | 3480 | 3500              | 18           | 42            | 2,35   | 22,45                                 | 2,8                  |
| <b>2014</b> | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500              | 20,7         | 48,3          | 2,71   | 25,81                                 | 3                    |
| <b>2015</b> | 15,52                | 250           | 3625 | 210                  | 3045 | 3500              | 23,25        | 52,5          | 3,04   | 29,03                                 | 3,1                  |
| <b>2017</b> | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500              | 25,95        | 60,55         | 3,39   | 32,36                                 | 3,2                  |
| <b>2018</b> | 19,12                | 200           | 2900 | 170                  | 2465 | 3500              | 28,65        | 66,8          | 3,75   | 35,77                                 | 3,3                  |
| <b>2022</b> | 22,87                | 175           | 2537 | 150                  | 2175 | 3500              | 34,2         | 79,8          | 4,30   | 42,78                                 | 3,4                  |
| <b>2026</b> | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000              | 41,4         | 82,8          | 5,16   | 51,63                                 | 3,8                  |
| <b>2030</b> | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000              | 46,8         | 93,6          | 5,77   | 58,36                                 | 3,9                  |

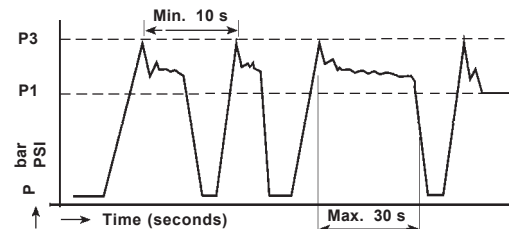
Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1347 1/4**

P1 Maximum pressure in continuous duty.

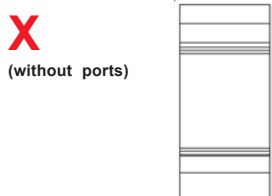
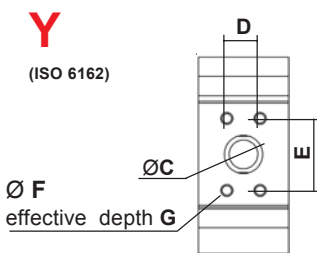
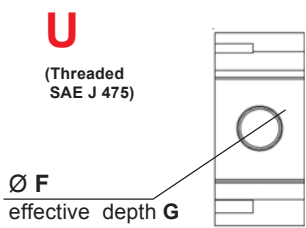
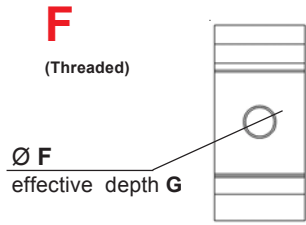
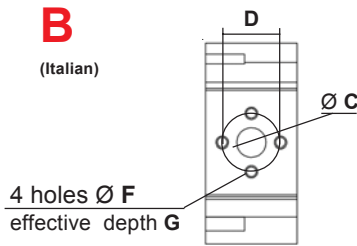
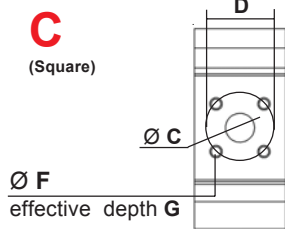
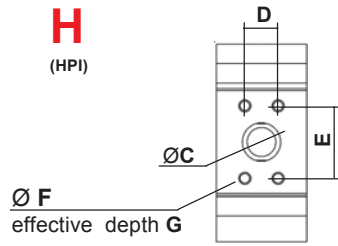
Maximum Pressure ⇒


P3 Allowable peak pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                        |    | OUTLET (P) |      |    |    |                        | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |                        |
|--------------|----------------------------|------|------|------------------------|----|------------|------|----|----|------------------------|--|--|------------------------|
|              | ØC                         | D    | E    | ØF                     | G  | ØC         | D    | E  | ØF | G                      | INLET (T)  | OUTLET (P)   |                        |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6                     | 12 | 15         | 17,4 | 38 | M6 | 15                     | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994  |                        |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6                     | 12 | 15         | 17,4 | 38 | M6 | 12                     | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026  |                        |
| 2004 to 2012 | 20                         | 40   |      | M6                     | 12 | 15         | 35   |    | M6 | 12                     | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702   |                        |
| 2014 to 2030 |                            |      |      |                        |    |            |      |    |    |                        | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703   |                        |
| 2004 to 2012 | 15                         | 30   |      | M6                     | 13 | 15         | 30   |    | M6 | 13                     | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202   |                        |
| 2014 to 2030 |                            |      |      |                        |    |            |      |    |    |                        | 23,5   | 40   | M8                     |
| 2004 to 2012 |                            |      |      | 3/4" BSP               | 16 |            |      |    |    | 3/8" BSP               | 12   |  |                        |
| 2014 to 2022 |                            |      |      |                        |    |            |      |    |    |                        |  |  | 1" BSP                 |
| 2004 to 2012 |                            |      |      | 1"1/16<br>12 UNF<br>2B | 20 |            |      |    |    | 7/8"<br>14 UNF<br>2B   | 17   |  |                        |
| 2014 to 2022 |                            |      |      |                        |    |            |      |    |    |                        |  |  | 1"5/16<br>12 UNF<br>2B |
| 2026-2030    |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    |    | 1"1/16<br>12 UNF<br>2B | 20   |  |                        |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8                     | 14 | 15         | 17,4 | 38 | M8 | 14                     |  |  |                        |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10                    | 14 | 15         | 17,4 | 38 | M8 | 14                     |  |  |                        |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10                    | 14 | 15         | 17,4 | 38 | M8 | 14                     |  |  |                        |
| 2004 to 2030 | Only with rear body Type A |      |      |                        |    |            |      |    |    |                        |  | <br>Consult us for availability |                        |

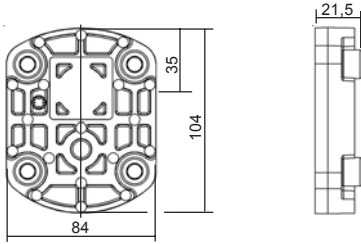
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1347 2/4

REAR BODIES

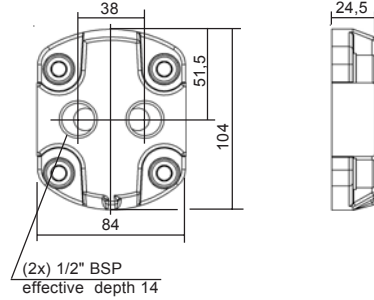
**L**

Standard



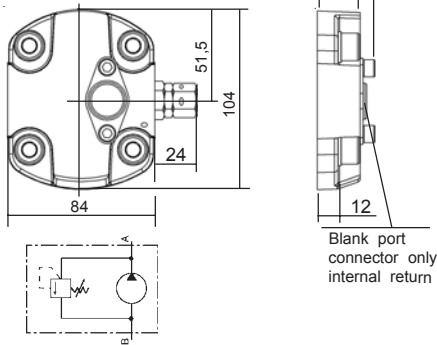
**A**

with ports



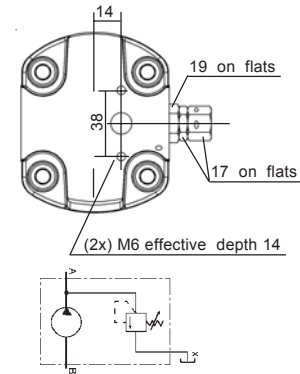
**X**

High pressure relief valve (Adjustable) Internal return



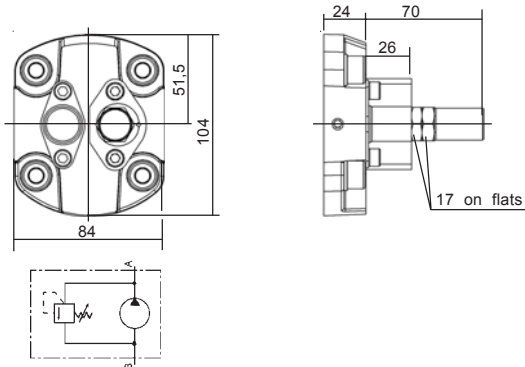
**T**

High pressure relief valve (Adjustable) External return



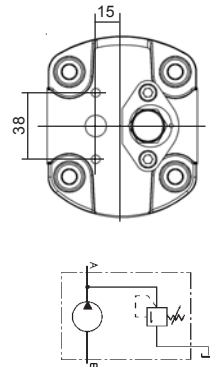
**V**

Low Pressure relief valve (Adjustable) Internal return



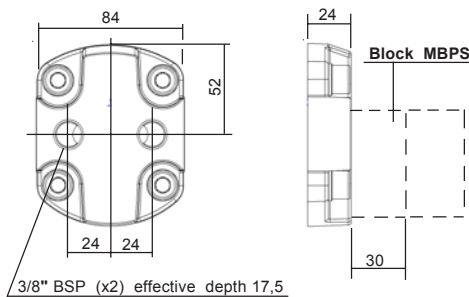
**W**

Low Pressure relief valve (Adjustable) External return



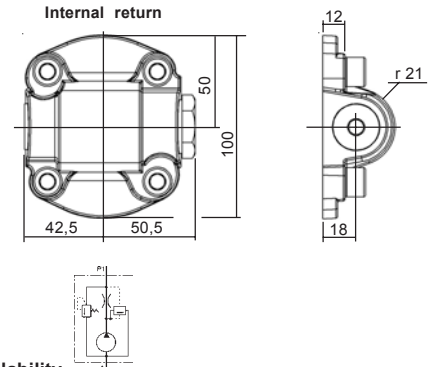
**AR**

with block configuration MBPS



**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1347 3/4

Consult us for availability

DRIVING SHAFTS

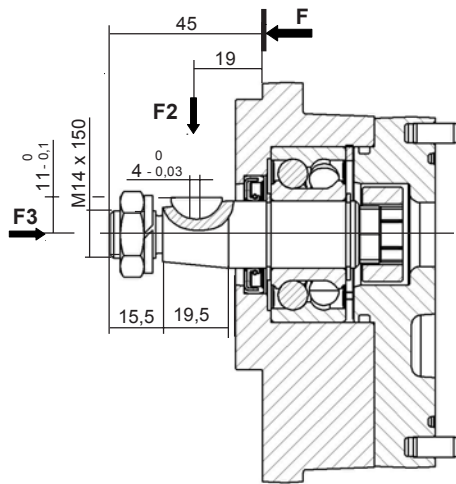
Tapered

**10**

Straight keyed

**20**

**C07** Taper 1 / 5

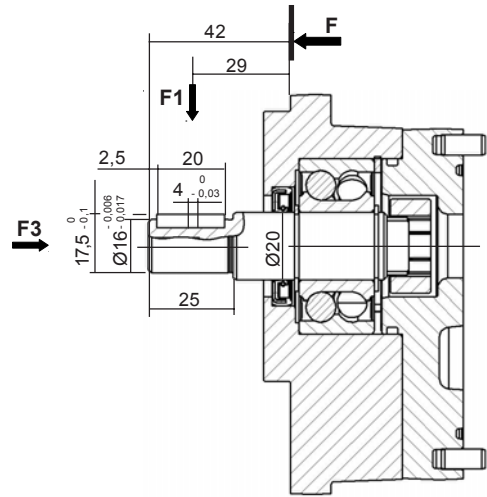


Delivered with Nut: K102045

F2 Maxi: 120 daN  
F3 Maxi: 50 daN

Maxi transmissible torque  
**50 N.m**

**C15**



F1 Maxi: 100 daN  
F3 Maxi: 50 daN

Maxi transmissible torque  
**50 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1347 4/4**

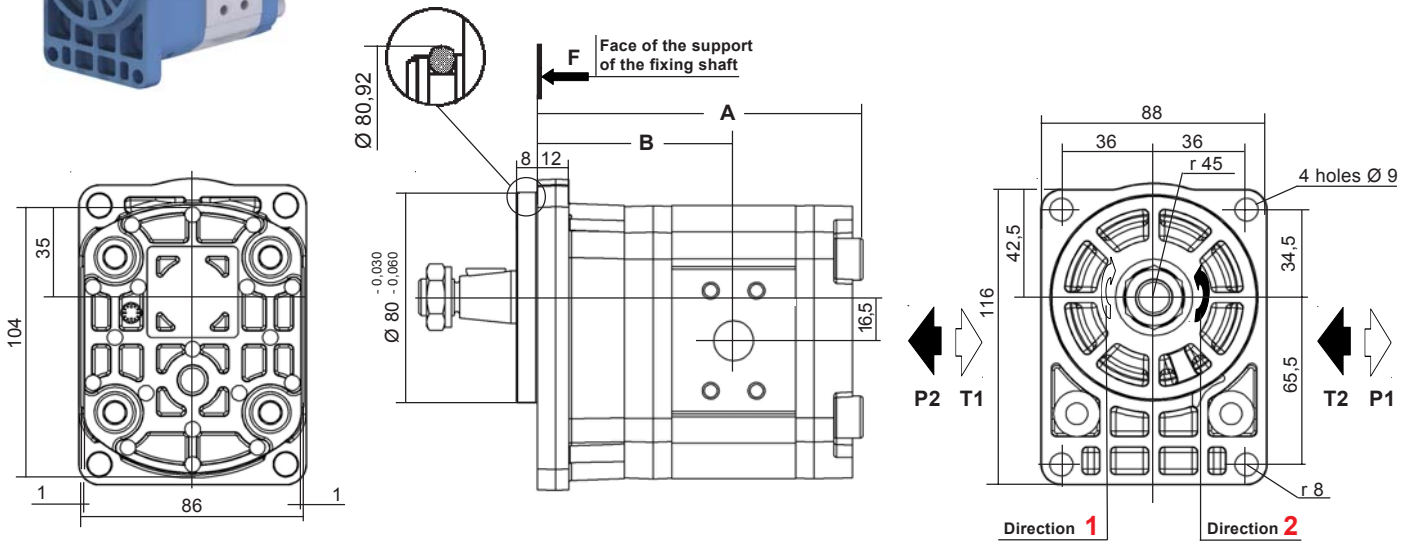


Consult us for availability



**P** II Sign **DBR 2** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity              | Dimensions |      |
|-------------------------------------|------------|------|
|                                     | A          | B    |
| 004 - 006 - 008<br>010 - 012        | 123,5      | 74,5 |
| <b>014 - 015 - 017</b><br>018 - 022 | 138        | 82   |
| 026 - 030                           | 154        | 90   |

Multiples geared pumps, see data sheet **F.T 20 1306**

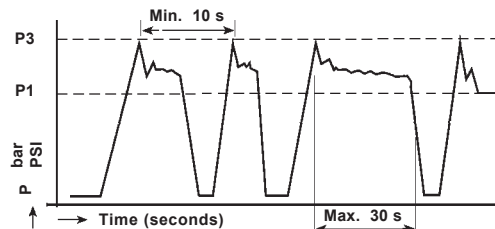
Seal kits:  
Nitrile: **K5073298 + K5069830 + K101517**  
Viton: **K5073299 + K5069830 + K104406**  
(For the manufacturings from may 1986)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| <b>2004</b> | 4,65                 | 280           | 4060 | 240                  | 3480 | 3500              | 6,97         | 16,2          | 0,91   | 8,70                                  | 2,7                  |
| <b>2006</b> | 6,45                 | 280           | 4060 | 240                  | 3480 | 3500              | 9,67         | 22,5          | 1,26   | 12,07                                 | 2,7                  |
| <b>2008</b> | 8,25                 | 280           | 4060 | 240                  | 3480 | 3500              | 12,37        | 28,8          | 1,62   | 15,43                                 | 2,8                  |
| <b>2010</b> | 10,12                | 280           | 4060 | 240                  | 3480 | 3500              | 15,18        | 35,3          | 1,98   | 18,93                                 | 2,8                  |
| <b>2012</b> | 12                   | 280           | 4060 | 240                  | 3480 | 3500              | 18           | 42            | 2,35   | 22,45                                 | 2,8                  |
| <b>2014</b> | 13,8                 | 250           | 3625 | 210                  | 3045 | 3500              | 20,7         | 48,3          | 2,71   | 25,81                                 | 3                    |
| <b>2015</b> | 15,52                | 250           | 3625 | 210                  | 3045 | 3500              | 23,25        | 52,5          | 3,04   | 29,03                                 | 3,1                  |
| <b>2017</b> | 17,3                 | 220           | 3190 | 190                  | 2755 | 3500              | 25,95        | 60,55         | 3,39   | 32,36                                 | 3,2                  |
| <b>2018</b> | 19,12                | 200           | 2900 | 170                  | 2465 | 3500              | 28,65        | 66,8          | 3,75   | 35,77                                 | 3,3                  |
| <b>2022</b> | 22,87                | 175           | 2537 | 150                  | 2175 | 3500              | 34,2         | 79,8          | 4,30   | 42,78                                 | 3,4                  |
| <b>2026</b> | 27,6                 | 175           | 2537 | 150                  | 2175 | 3000              | 41,4         | 82,8          | 5,16   | 51,63                                 | 3,8                  |
| <b>2030</b> | 31,2                 | 175           | 2537 | 150                  | 2175 | 3000              | 46,8         | 93,6          | 5,77   | 58,36                                 | 3,9                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

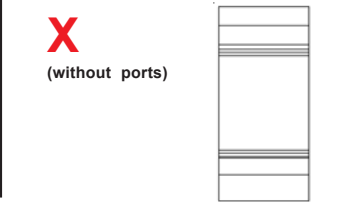
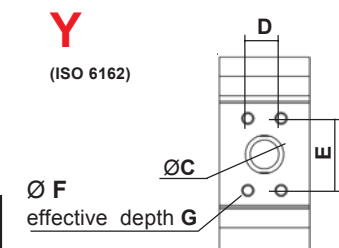
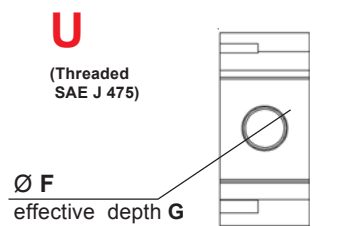
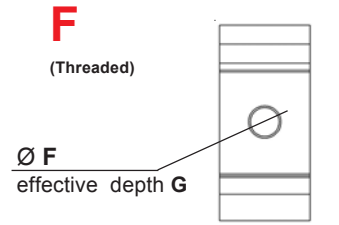
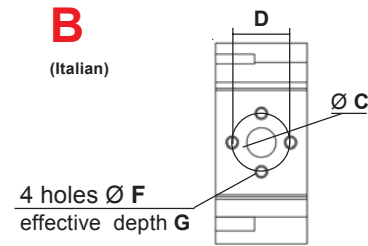
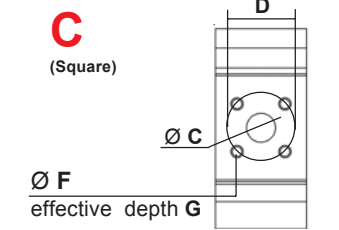
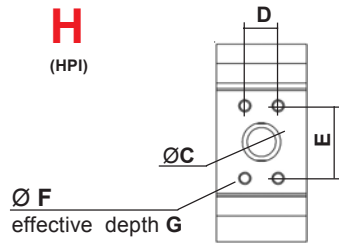
P3 Allowable peak pressure.



F.T 20 1349 1/4

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                        |    | OUTLET (P) |      |    |    |                        | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |                        |
|--------------|----------------------------|------|------|------------------------|----|------------|------|----|----|------------------------|--|--|------------------------|
|              | ØC                         | D    | E    | ØF                     | G  | ØC         | D    | E  | ØF | G                      | INLET (T)  | OUTLET (P)   |                        |
| 2004 to 2012 | 20                         | 17,4 | 38   | M6                     | 12 | 15         | 17,4 | 38 | M6 | 15                     | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                                    | 3 / 8 " BSP<br>N: 2.500054<br>V: 2.505994                        |                        |
| 2014 to 2030 | 26                         | 47,6 | 22,4 | M6                     | 12 | 15         | 17,4 | 38 | M6 | 12                     | 1 " BSP<br>N: 2.500496<br>V: 2.504117  | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504026                        |                        |
| 2004 to 2012 | 20                         | 40   |      | M6                     | 12 | 15         | 35   |    | M6 | 12                     | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |                        |
| 2014 to 2030 |                            |      |      |                        |    |            |      |    |    |                        | 3 / 4 " BSP<br>N: 367141.503   | 1 / 2 " BSP<br>N: 367141.703                                     |                        |
| 2004 to 2012 | 15                         | 30   |      | M6                     | 13 | 15         | 30   |    | M6 | 13                     | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |                        |
| 2014 to 2030 |                            |      |      |                        |    |            |      |    |    |                        | 23,5   | 40   | M8                     |
| 2004 to 2012 |                            |      |      | 3/4" BSP               | 16 |            |      |    |    | 3/8" BSP               | 12   |  |                        |
| 2014 to 2022 |                            |      |      |                        |    |            |      |    |    |                        |  |  | 1" BSP                 |
| 2004 to 2012 |                            |      |      | 1"1/16<br>12 UNF<br>2B | 20 |            |      |    |    | 7/8" 14 UNF 2B         | 17   |  |                        |
| 2014 to 2022 |                            |      |      |                        |    |            |      |    |    |                        |  |  | 1"5/16<br>12 UNF<br>2B |
| 2026-2030    |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    |    | 1"1/16<br>12 UNF<br>2B | 20   |  |                        |
| 2004 to 2012 | 20                         | 17,4 | 38   | M8                     | 14 | 15         | 17,4 | 38 | M8 | 14                     |  |  |                        |
| 2014 to 2022 | 26                         | 47,6 | 22,4 | M10                    | 14 | 15         | 17,4 | 38 | M8 | 14                     |  |  |                        |
| 2026-2030    | 26                         | 52,4 | 26,2 | M10                    | 14 | 15         | 17,4 | 38 | M8 | 14                     |  |  |                        |
| 2004 to 2030 | Only with rear body Type A |      |      |                        |    |            |      |    |    |                        |  | Consult us for availability                                      |                        |

Dimensions readings and approximative characteristics subject to modifications.

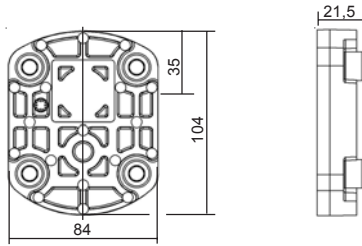
F.T 20 1349 2/4



REAR BODIES

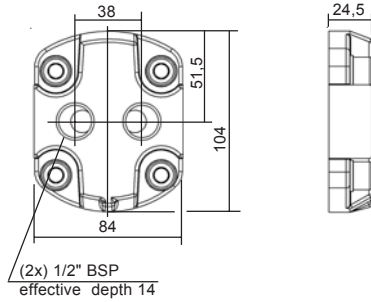
**L**

Standard



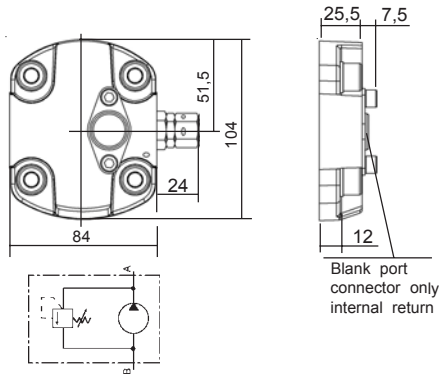
**A**

with ports



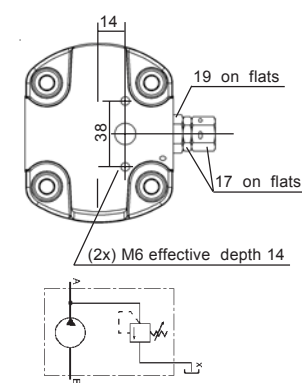
**X**

High pressure relief valve (Adjustable) Internal return



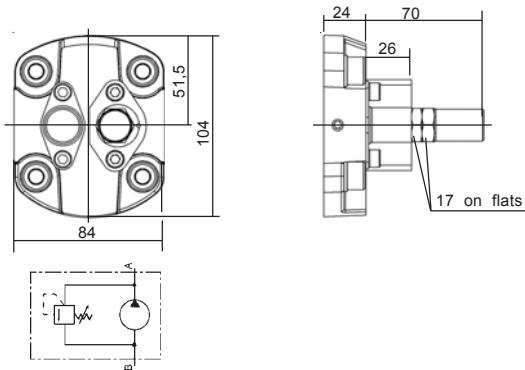
**T**

High pressure relief valve (Adjustable) External return



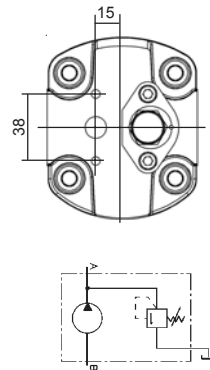
**V**

Low Pressure relief valve (Adjustable) Internal return



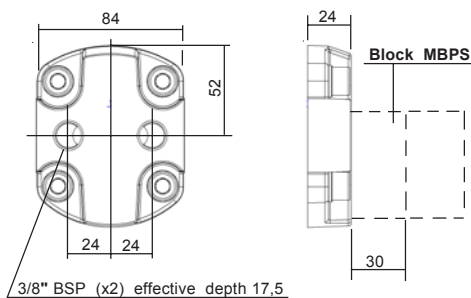
**W**

Low Pressure relief valve (Adjustable) External return



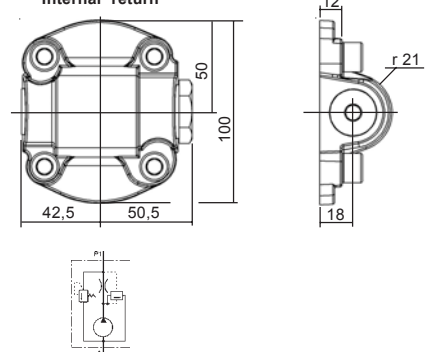
**AR**

with block configuration MBPS



**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1349 3/4

Consult us for availability

DRIVING SHAFTS

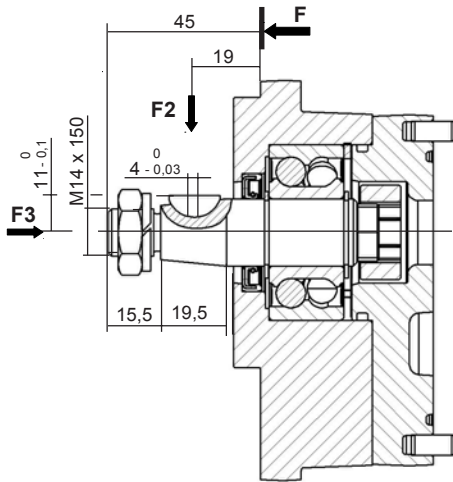
Tapered

**10**

Straight keyed

**20**

**C07** Taper 1 / 5

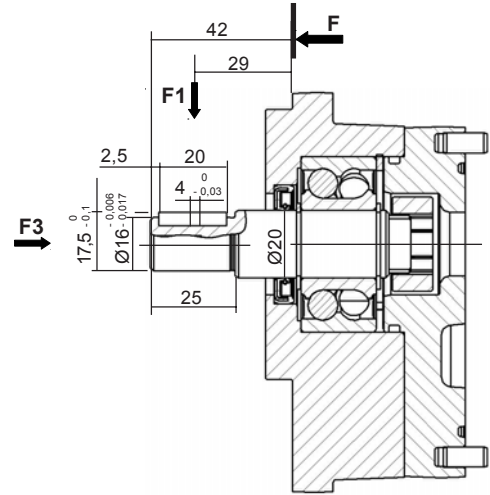


Delivered with Nut: K102045

F2 Maxi: 120 daN  
F3 Maxi: 50 daN

Maxi transmissible torque  
**50 N.m**

**C15**



F1 Maxi: 100 daN  
F3 Maxi: 50 daN

Maxi transmissible torque  
**50 N.m**

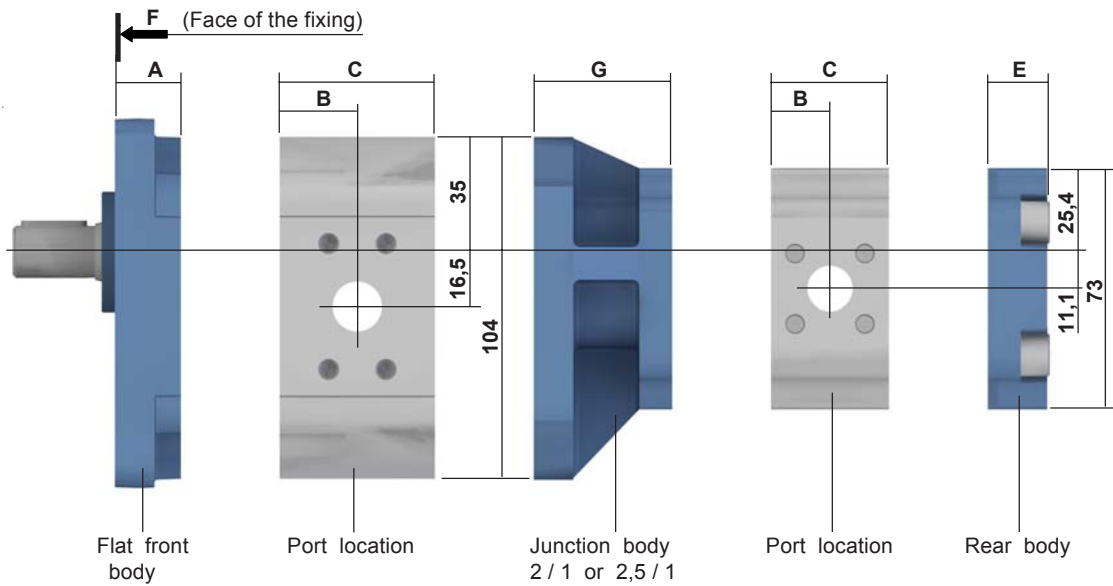
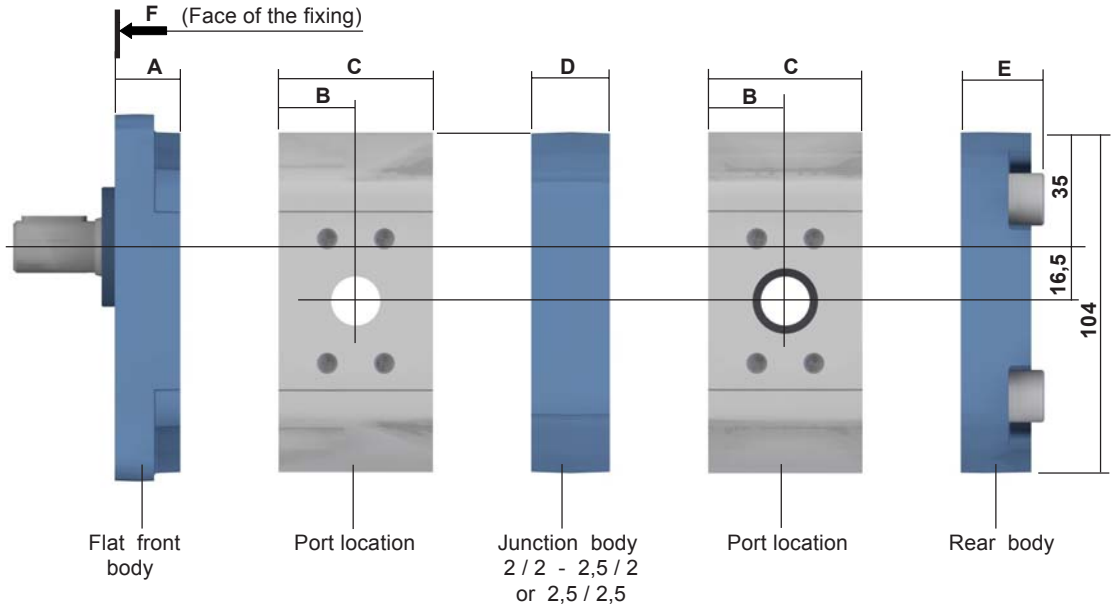
Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1349 4/4**



Consult us for availability

For CODIFICATION, see data sheet **F.T R 0030**



Dimensions readings and approximative characteristics subject to modifications.

**ATTENTION**

For common suction.

The flow of the pump, or pumps preceding or following the section including the suction must not exceed **12 l / min.**

**NOTA :** Versions 2 / 1 are not feasible in **DCN** and **DUK**.

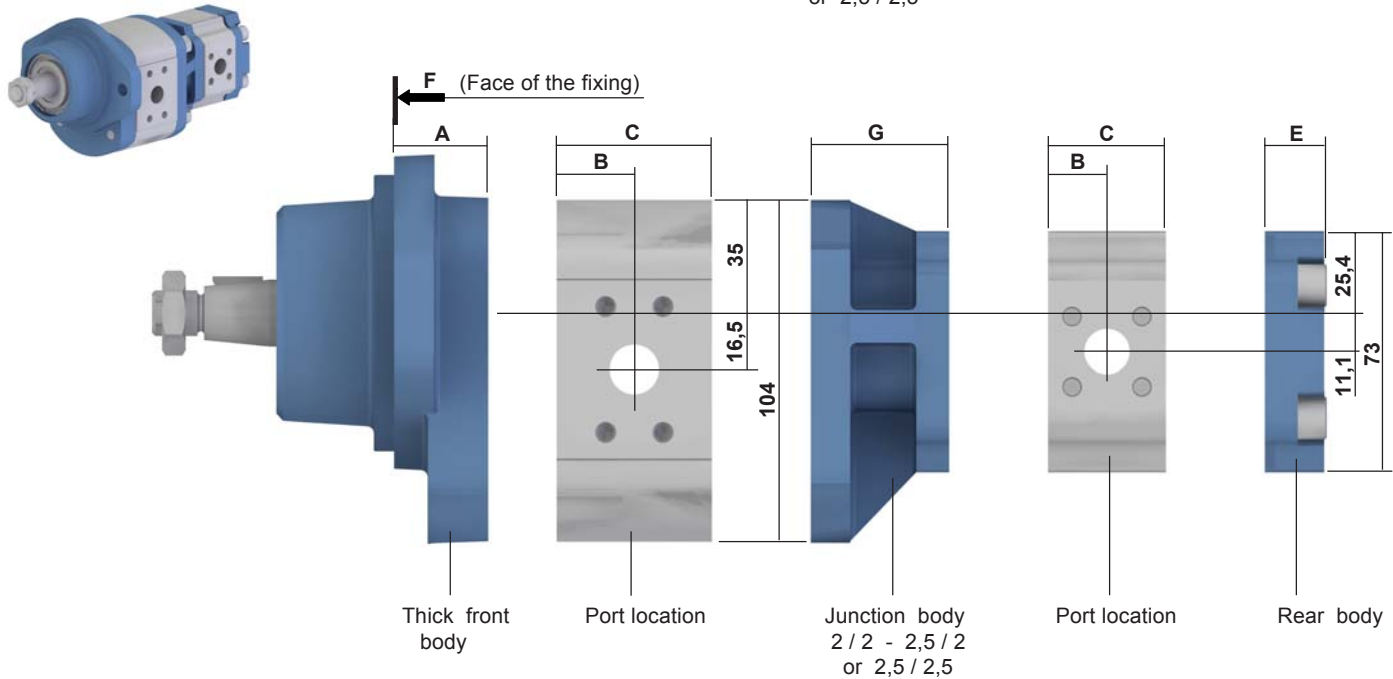
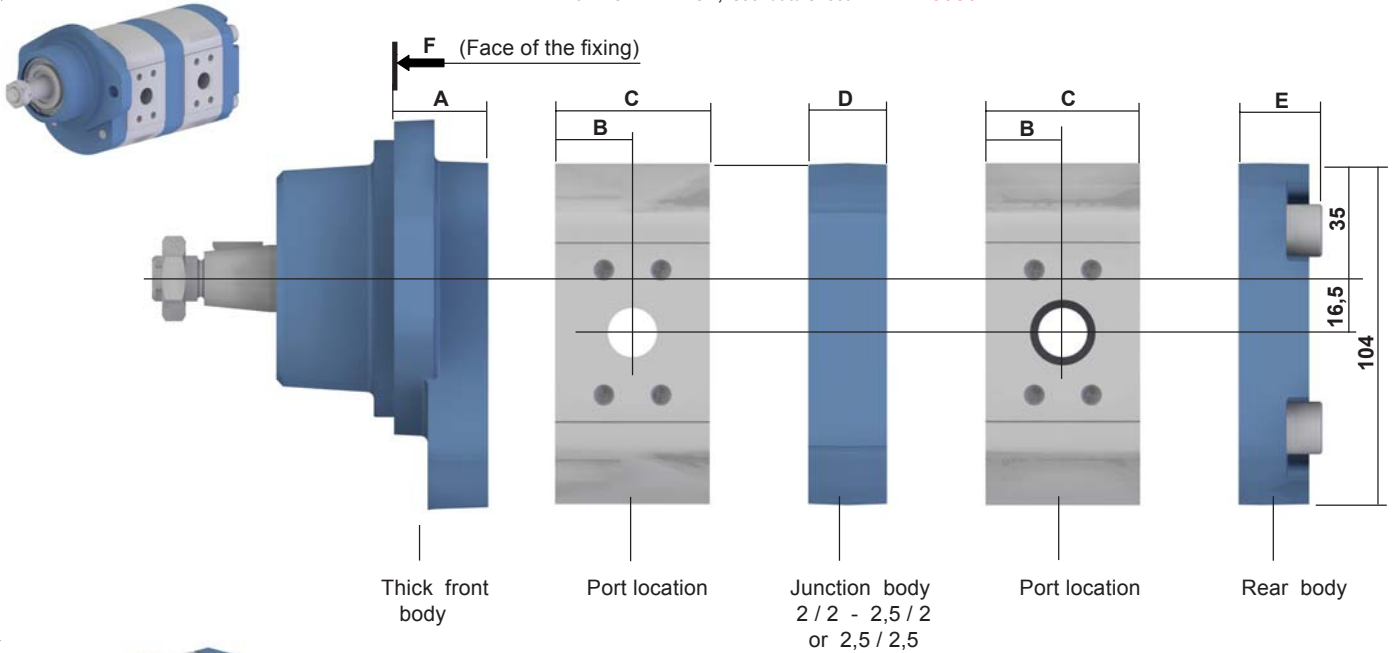
**NOTA :**  
Versions 2 / 1 - 2,5 / 1 only Codes **A - D** and **E**.  
Versions 2 / 2 - 2,5 / 2,5 only Codes **A - D** and **X**.

| Capacity          |                             | B    | C    | D  | E    | G  |
|-------------------|-----------------------------|------|------|----|------|----|
| Series<br>2 - 2,5 | 2004 to 2012                | 23,5 | 47   |    |      |    |
|                   | 2014 to 2022                | 31   | 61,6 | 24 | 25,5 | 42 |
|                   | 2512                        |      |      |    |      |    |
|                   | 2026 - 2030<br>2515 to 2522 | 38,8 | 77,7 |    |      |    |
| Series<br>1       | 1001 to 1003                | 17,9 | 35,8 |    | 18   |    |
|                   | 1004 to 1006                | 22,7 | 45,6 |    |      |    |

| Flat front bodies |                       | A  |
|-------------------|-----------------------|----|
| Series<br>2 - 2,5 | AAN / AAK - APK       | 20 |
|                   | BAN - CAN - DBN / DBK |    |
|                   | AFN                   | 21 |
|                   | CEN / CEK             | 22 |
|                   | DCN / DCK - DUK - DWN | 18 |
|                   | DZK                   |    |

Consult us for availability

For CODIFICATION, see data sheet **F.T R 0030**



Dimensions readings and approximative characteristics subject to modifications.

**ATTENTION**

**For common suction.**

The flow of the pump, or pumps preceding or following the section including the suction must not exceed **12 l / min.**

**NOTA :**

Versions 2 / 1 - 2,5 / 1 only Codes **A - D** and **E**.  
Versions 2 / 2 - 2,5 / 2,5 only Codes **A - D** and **X**.

**F.T 20 1306 2/3**

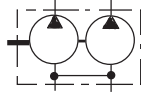
|                   | Capacity                    | B    | C    | D  | E    | G  |
|-------------------|-----------------------------|------|------|----|------|----|
| Series<br>2 - 2,5 | 2004 to 2012                | 23,5 | 47   |    |      |    |
|                   | 2014 to 2022                | 31   | 61,6 | 24 | 25,5 | 42 |
|                   | 2512                        |      |      |    |      |    |
|                   | 2026 - 2030<br>2515 to 2522 | 38,8 | 77,7 |    |      |    |
| Series<br>1       | 1001 to 1003                | 17,9 | 35,8 |    | 18   |    |
|                   | 1004 to 1006                | 22,7 | 45,6 |    |      |    |

|                   | Thick front bodies | A  |
|-------------------|--------------------|----|
| Series<br>2 - 2,5 | <b>AAP / AAR</b>   | 28 |
|                   | <b>ARP / ARK</b>   | 25 |
|                   | <b>DBP / DBK</b>   | 51 |

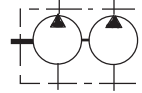
Consult us for availability

**JUNCTION BODY (Schematic examples for 2 elements pumps)**

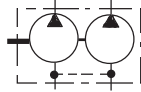
**Code A** **Communication between suction ports**  
(Capacity of the pump without suction ≥ half of the capacity of the front section)



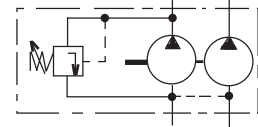
**Code E** **Tightness between ports**



**Code D** **Independant inlet side (communication of leaks)**  
(Oil and tank to be necessarily)



**Code X** **Adjustable relief valve internal return in preceding pump**



**Possible combinations of junctions up to 5 elements**

**CALCULATION of the TORQUE**

**Q** Capacity in cc / rev

**P** Pressure in bar

**η<sub>m</sub>** Mechanical efficiency (see catalogue **C10**)

Calculation of the torque for one pump body :  $\frac{1,59 \times Q \times P}{1000 \times \eta_m} = C \text{ (N.m)}$

Example : P 1 AAK 2015 H A 2008 H L 30 A01 Pressure : 2015 200 bar Speed : 1500 RPM  
2008 150 bar

$$\frac{1,59 \times 15 \times 200}{1000 \times 0,87} = 5,48 \text{ N.m}$$

$$\frac{1,59 \times 8 \times 150}{1000 \times 0,87} = 2,19 \text{ N.m}$$

$$= \boxed{7,67 \text{ N.m}} \rightarrow \text{Total torque}$$

Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1306 3/3**

Consult us for availability



**PUMPS PRESENTATION**  
**SERIES 2 and 2,5**

**F.T 20 1299**

**- FLAT FRONT BODIES**

**PUMP AAN**



**F.T 25 1307**

**PUMP AAK**



**F.T 25 1334**

**PUMP AFN**



**F.T 25 1367**

**PUMP APK**



**F.T 25 1369**

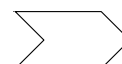
**PUMP BAN**

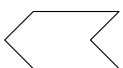


**F.T 25 1308**

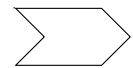


Consult us for availability



**- FLAT FRONT BODIES (rest)****PUMP****CAN****Data sheet****F.T 25 1309****PUMP****CEN****Data sheet****F.T 25 1310****PUMP****CEK****Data sheet****F.T 25 1361****PUMP****DBN****Data sheet****F.T 25 1311****PUMP****DBK****Data sheet****F.T 25 1335**

Consult us for availability



- FLAT FRONT BODIES (rest)

PUMP

**DCN**



**F.T 25 1312**

PUMP

**DCK**



**F.T 25 1336**

PUMP

**DUK**



**F.T 25 1338**

PUMP

**DWN**



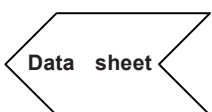
**F.T 25 1337**

PUMP

**DZK**

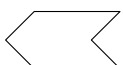


**F.T 25 1363**



**F.T 20 1306**

MULTIPLES  
PUMPS



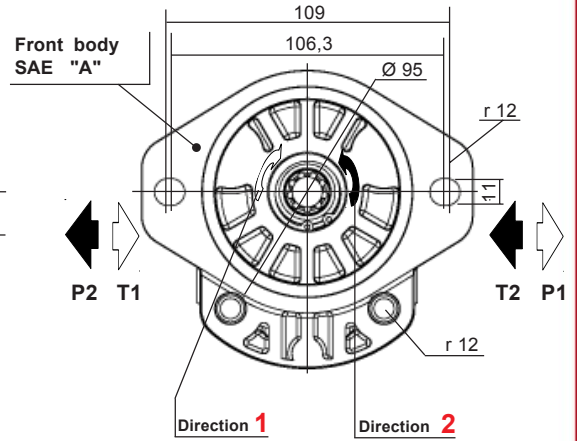
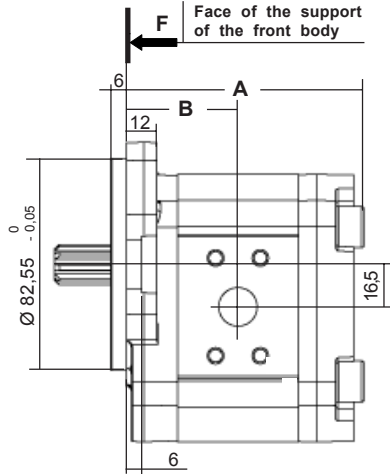
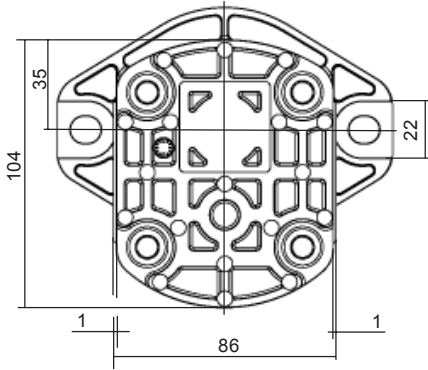
Consult us for availability





**P** II Sign **AA** **N** **25** VI Sign **H** **L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity   | Dimensions |    |
|--------------------------|------------|----|
|                          | A          | B  |
| <b>12</b>                | 107        | 51 |
| <b>15 - 17 - 18 - 22</b> | 123        | 59 |

Multiples geared pumps, see data sheet **F.T 20 1306**

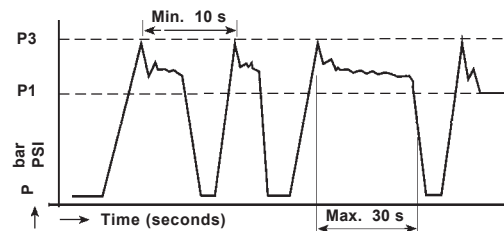
Seal kits:  
Nitrile: **K5069810**  
Viton: **K5069820**  
(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                 |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| <b>2512</b> | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35                                     | 22,45                           | 2,3                  |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04                                     | 29,03                           | 2,6                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39                                     | 32,36                           | 2,7                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75                                     | 35,77                           | 2,7                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48                                     | 42,78                           | 2,8                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

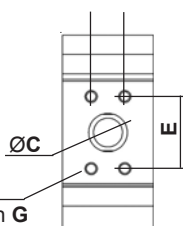
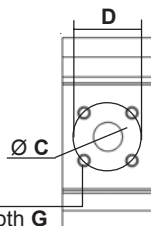
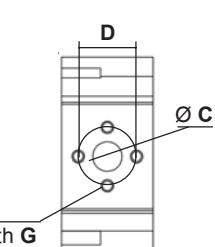
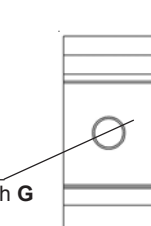
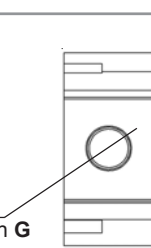
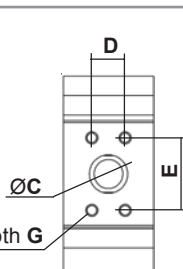
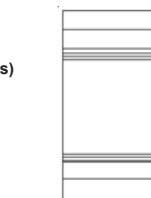
P3 Allowable peak pressure.



**F.T 25 1307 1/4**

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity  | INLET (T)                  |      |      |                           |    | OUTLET (P) |      |        |    |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min)  |   |
|---|---|----------------------------|------|------|---------------------------|----|------------|------|--------|----|----|---|---|
|   |   | ØC                         | D    | E    | ØF                        | G  | ØC         | D    | E      | ØF | G  | INLET (T)   | OUTLET (P)  |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 26                         | 47,6 | 22,4 | M6                        | 12 | 15         | 17,4 | 38     | M6 | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                                | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                            |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 20                         | 40   |      | M6                        | 12 | 15         | 35   |        | M6 | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>  | <p>1 / 2 " BSP<br/>N: 367141.703</p>  |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 23,5                       | 40   |      | M8                        | 13 | 15         | 30   |        | M6 | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101</p> <p>3 / 4 " BSP<br/>N: X.367508.102</p> | <p>3 / 8 " BSP<br/>N: X.367508.201</p> <p>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    |                            |      |      |                           |    |            |      | 1" Gaz | 18 |    | 1/2" Gaz  | 14  |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512</p> <p>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |        |    |    | 7/8"<br>14<br>UNF<br>2B   | 17  |
|   |   |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |        |    |    | 1"1/16<br>12<br>UNF<br>2B   | 20  |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512</p> <p>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10                       | 14 | 15         | 17,4 | 38     | M8 | 14 |   |   |
|   |   | 26                         | 52,4 | 26,2 | M10                       | 14 | 15         | 17,4 | 38     | M8 | 14 |   |   |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | Only with rear body Type A |      |      |                           |    |            |      |        |    |    |   |   |

Dimensions readings and approximative characteristics subject to modifications.

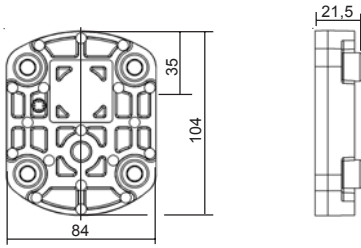
F.T 25 1307 2/4

Consult us for availability

**REAR BODIES**

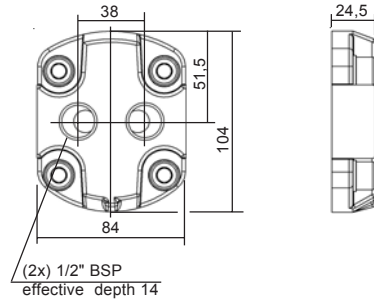
**L**

Standard



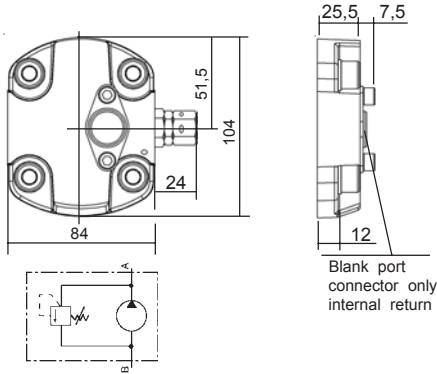
**A**

with ports



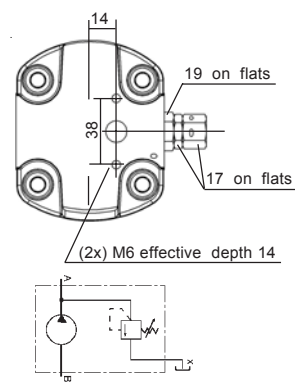
**X**

High pressure relief valve  
(Adjustable) Internal return



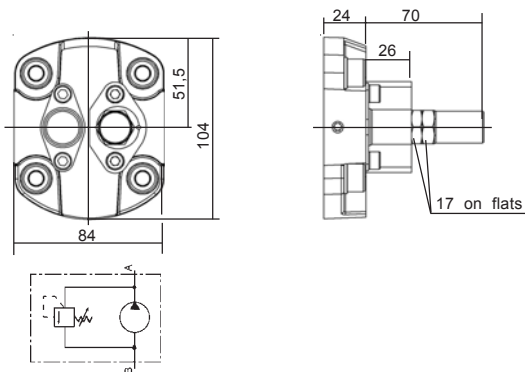
**T**

High pressure relief valve  
(Adjustable) External return



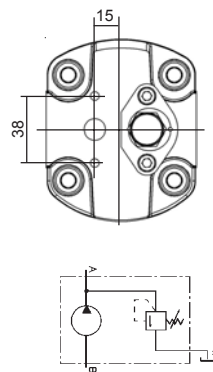
**V**

Low Pressure relief valve  
(Adjustable) Internal return



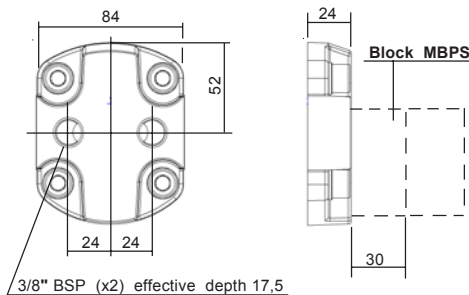
**W**

Low Pressure relief valve  
(Adjustable) External return



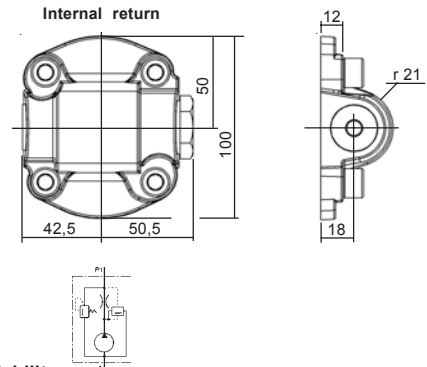
**AR**

with block configuration MBPS



**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1307 3/4**

Consult us for availability

DRIVING SHAFTS

Tapered

**10**

Straight keyed

**20**

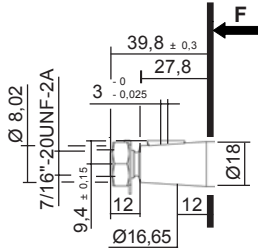
Splined

**30**

Tang

**40**

**B02** Cône 1 / 8

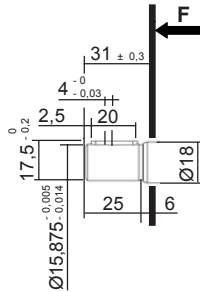


Delivered with nut: K100841

Maxi transmissible torque

**250 N.m**

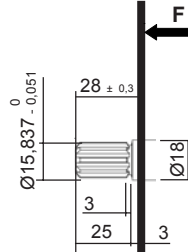
**A01**



Maxi transmissible torque

**50 N.m**

**A01**

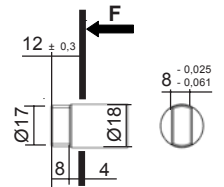


Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle

Maxi transmissible torque

**100 N.m**

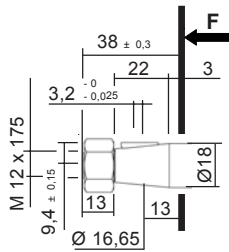
**C03**



Maxi transmissible torque

**70 N.m**

**C02** Cône 1 / 5

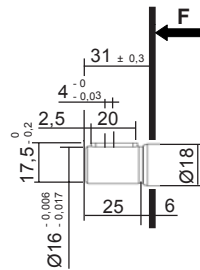


Delivered with nut: K106317

Maxi transmissible torque

**220 N.m**

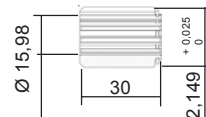
**C02**



Maxi transmissible torque

**50 N.m**

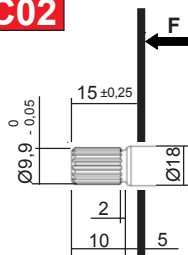
Sleeve coupling 9 teeth / 13 teeth  
Ref.: **K.5041310**  
Mounting with splined shaft **30 A01**



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

**C02**

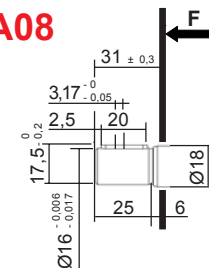


Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque

**100 N.m**

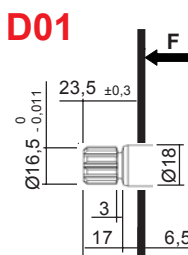
**A08**



Maxi transmissible torque

**50 N.m**

**D01**

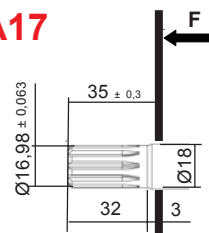


Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque

**100 N.m**

**A17**



Involute spline SAE Standard  
12 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque

**100 N.m**

Dimensions readings and approximative characteristics subject to modifications.

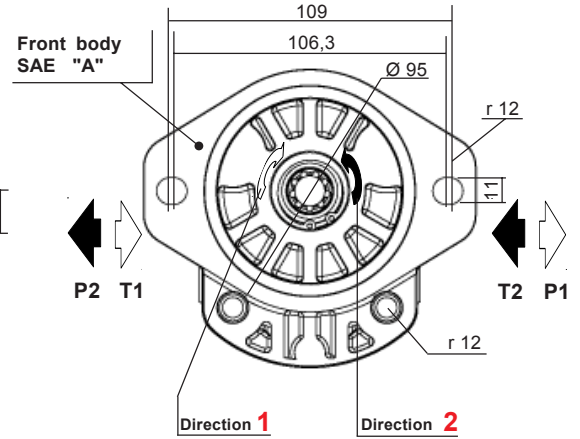
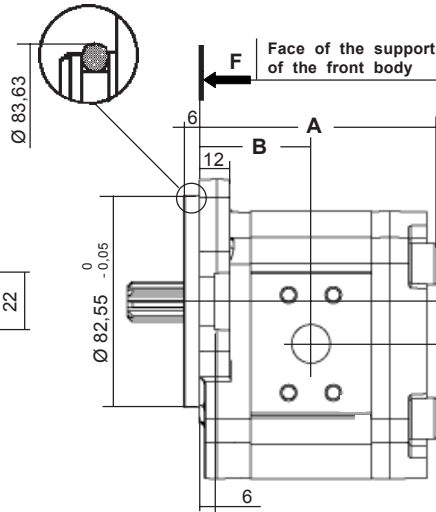
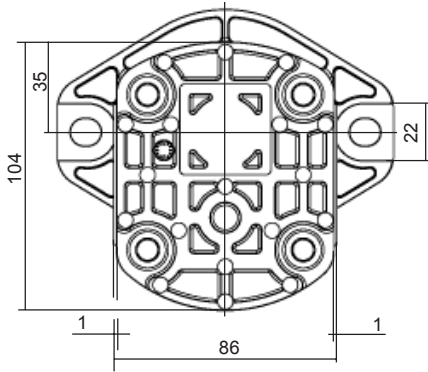
**F.T 25 1307 4/4**

Consult us for availability



**P** II Sign **AAK** 2 5 VI Sign **HL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |    |
|------------------------|------------|----|
|                        | A          | B  |
| 12                     | 107        | 51 |
| 15 - 17 - 18 - 22      | 123        | 59 |

Multiples geared pumps, see data sheet **F.T 20 1306**

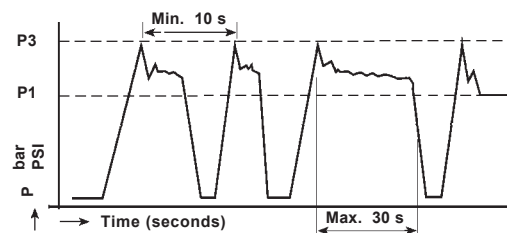
Seal kits:  
Nitrile: **K5069810**  
Viton: **K5069820**  
(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                 |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| <b>2512</b> | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35                                     | 22,45                           | 2,3                  |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04                                     | 29,03                           | 2,6                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39                                     | 32,36                           | 2,7                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75                                     | 35,77                           | 2,7                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48                                     | 42,78                           | 2,8                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

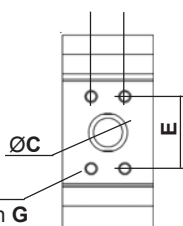
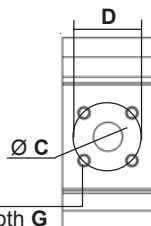
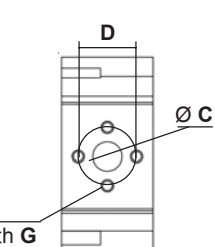
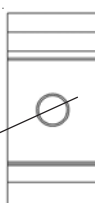
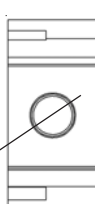
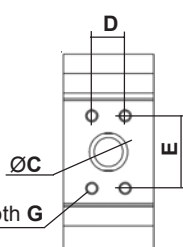

P3 Allowable peak pressure.



**F.T 25 1334 1/4**

**Consult us for availability**

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity   | INLET (T)                  |      |      |                        |    | OUTLET (P) |      |    |                        |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |
|---|--|----------------------------|------|------|------------------------|----|------------|------|----|------------------------|----|--|--|
|   |  | ØC                         | D    | E    | ØF                     | G  | ØC         | D    | E  | ØF                     | G  | INLET (T)  | OUTLET (P)   |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M6                     | 12 | 15         | 17,4 | 38 | M6                     | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                               | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                         |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 20                         | 40   |      | M6                     | 12 | 15         | 35   |    | M6                     | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>   | <p>1 / 2 " BSP<br/>N: 367141.703</p>                                       |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 23,5                       | 40   |      | M8                     | 13 | 15         | 30   |    | M6                     | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101<br/>3 / 4 " BSP<br/>N: X.367508.102</p>   | <p>3 / 8 " BSP<br/>N: X.367508.201<br/>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1" Gaz                 | 18 |            |      |    | 1/2" Gaz               | 14 |  |  |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    | 7/8"<br>14 UNF<br>2B   | 17 |  |  |
|   |  |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    | 1"1/16<br>12 UNF<br>2B | 20 |  |  |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10                    | 14 | 15         | 17,4 | 38 | M8                     | 14 |  |  |
|   |  | 26                         | 52,4 | 26,2 | M10                    | 14 | 15         | 17,4 | 38 | M8                     | 14 |  |  |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | Only with rear body Type A |      |      |                        |    |            |      |    |                        |    |  |  |

Dimensions readings and approximative characteristics subject to modifications.

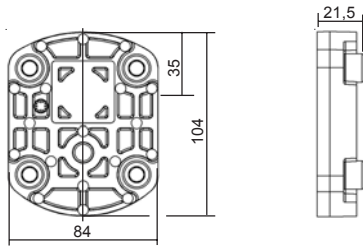
F.T 25 1334 2/4

Consult us for availability

**REAR BODIES**

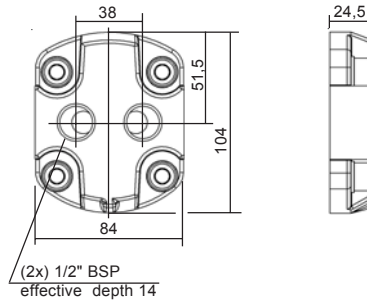
**L**

Standard



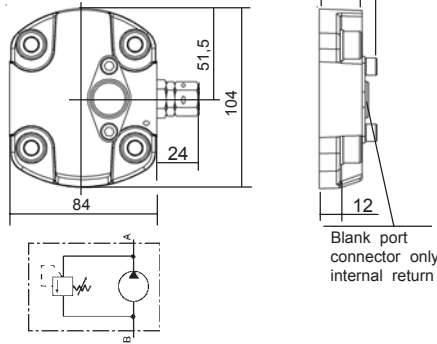
**A**

with ports



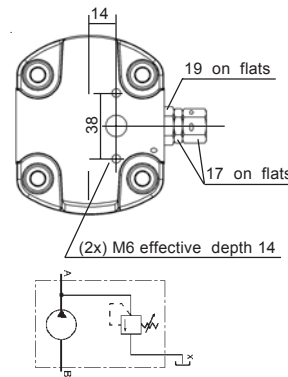
**X**

High pressure relief valve (Adjustable) Internal return



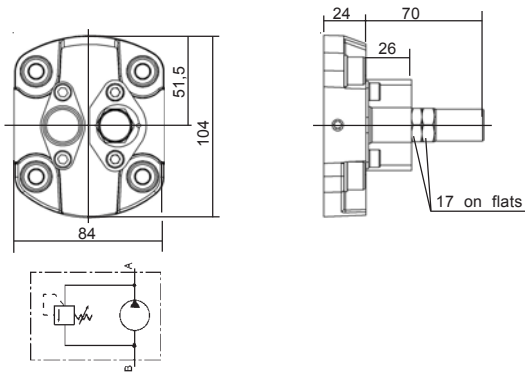
**T**

High pressure relief valve (Adjustable) External return



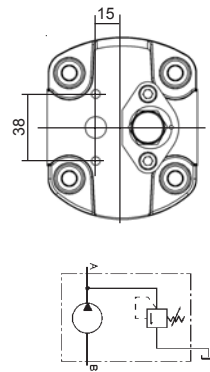
**V**

Low Pressure relief valve (Adjustable) Internal return



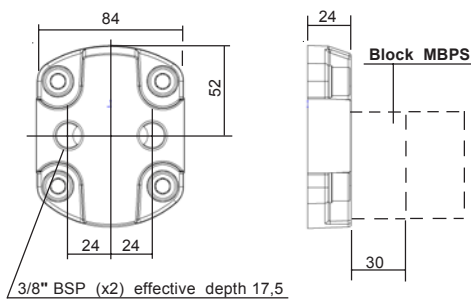
**W**

Low Pressure relief valve (Adjustable) External return



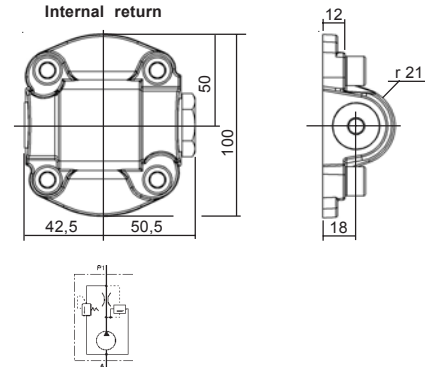
**AR**

with block configuration MBPS



**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1334 3/4**

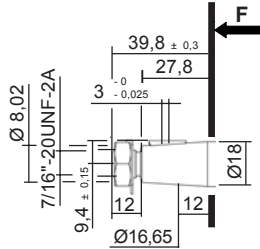
Consult us for availability

DRIVING SHAFTS

Tapered

10

**B02** Cône 1 / 8

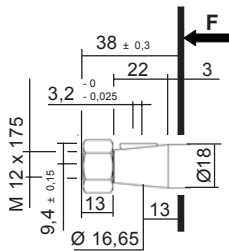


Delivered with nut: K100841

Maxi transmissible torque

**250 N.m**

**C02** Cône 1 / 5



Delivered with nut: K106317

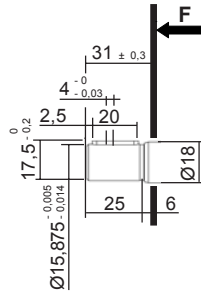
Maxi transmissible torque

**220 N.m**

Straight keyed

20

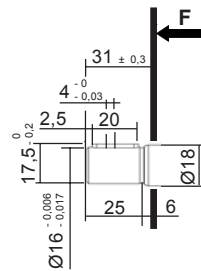
**A01**



Maxi transmissible torque

**50 N.m**

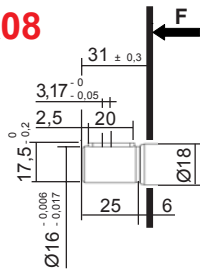
**C02**



Maxi transmissible torque

**50 N.m**

**A08**



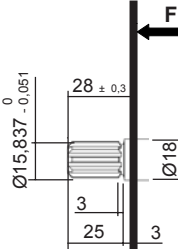
Maxi transmissible torque

**50 N.m**

Splined

30

**A01**

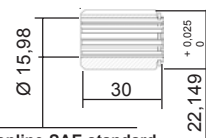


Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle

Maxi transmissible torque

**100 N.m**

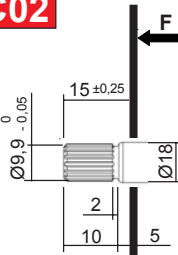
Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310  
Mounting with splinned shaft 30 A01



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

**C02**

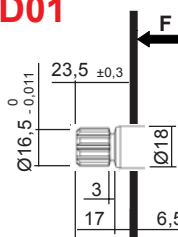


Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque

**100 N.m**

**D01**



Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

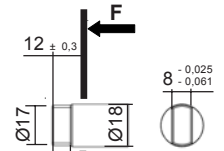
Maxi transmissible torque

**100 N.m**

Tang

40

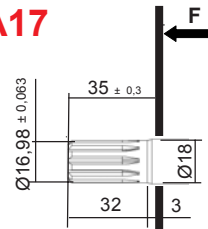
**C03**



Maxi transmissible torque

**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque

**100 N.m**

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1334 4/4

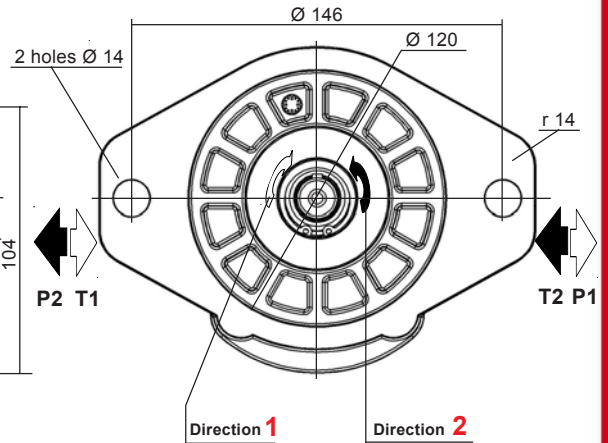
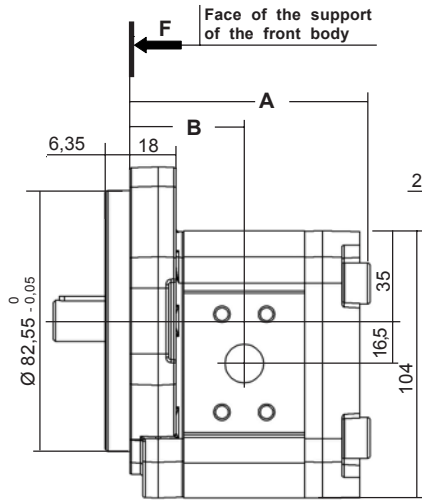
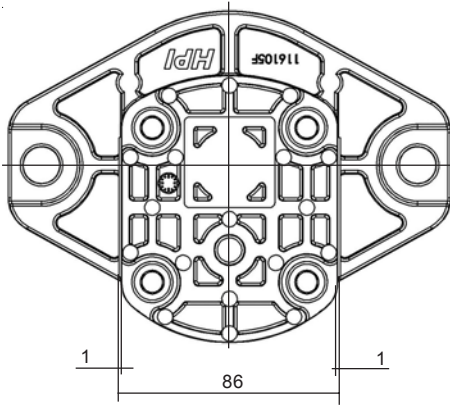
Consult us for availability





**P** II Sign **AF N 2 5** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |    |
|------------------------|------------|----|
|                        | A          | B  |
| 12                     | 108        | 52 |
| 15 - 17 - 18 - 22      | 124        | 60 |

Multiples geared pumps, see data sheet **F.T 20 1306**

**Seal kits:**

Nitrile: **K5069810**

Viton: **K5069820**

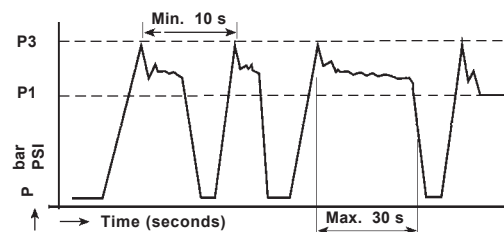
(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                 |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| <b>2512</b> | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35                                     | 22,45                           | 2,3                  |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04                                     | 29,03                           | 2,6                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39                                     | 32,36                           | 2,7                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75                                     | 35,77                           | 2,7                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48                                     | 42,78                           | 2,8                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

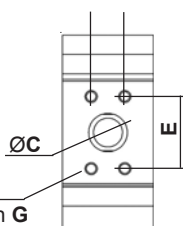
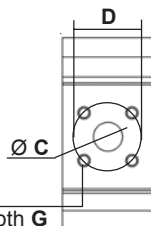
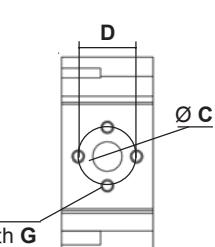
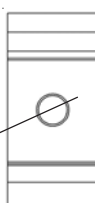
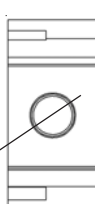
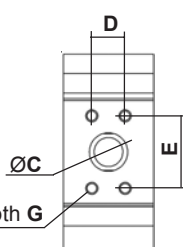

P3 Allowable peak pressure.



**F.T 25 1367 1/4**

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity   | INLET (T)                  |      |      |     |    | OUTLET (P) |      |                           |                           |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |    |
|---|--|----------------------------|------|------|-----|----|------------|------|---------------------------|---------------------------|----|--|--|----|
|   |  | ØC                         | D    | E    | ØF  | G  | ØC         | D    | E                         | ØF                        | G  | INLET (T)  | OUTLET (P)   |    |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M6  | 12 | 15         | 17,4 | 38                        | M6                        | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                               | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                         |    |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 20                         | 40   |      | M6  | 12 | 15         | 35   |                           | M6                        | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>   | <p>1 / 2 " BSP<br/>N: 367141.703</p>                                       |    |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 23,5                       | 40   |      | M8  | 13 | 15         | 30   |                           | M6                        | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101<br/>3 / 4 " BSP<br/>N: X.367508.102</p>   | <p>3 / 8 " BSP<br/>N: X.367508.201<br/>1 / 2 " BSP<br/>N: X.367508.202</p> |    |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      |     |    |            |      | 1" Gaz                    | 18                        |    | 1/2" Gaz   | 14   |    |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      |     |    |            |      | 1"5/16<br>12<br>UNF<br>2B | 20                        |    | 7/8"<br>14<br>UNF<br>2B  | 17   |    |
|   |  |                            |      |      |     |    |            |      |                           | 1"5/16<br>12<br>UNF<br>2B | 20 |  | 1"1/16<br>12<br>UNF<br>2B  | 20 |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10 | 14 | 15         | 17,4 | 38                        | M8                        | 14 |  |  |    |
|   |  | 26                         | 52,4 | 26,2 | M10 | 14 | 15         | 17,4 | 38                        | M8                        | 14 |  |  |    |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | Only with rear body Type A |      |      |     |    |            |      |                           |                           |    |  |  |    |

Dimensions readings and approximative characteristics subject to modifications.

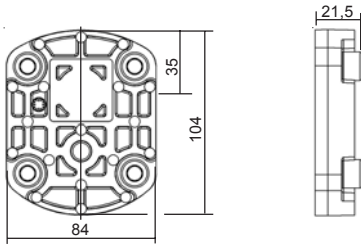
F.T 25 1367 2/4

Consult us for availability

**REAR BODIES**

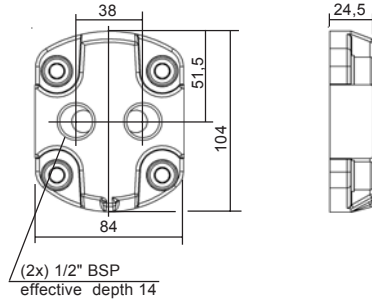
**L**

Standard



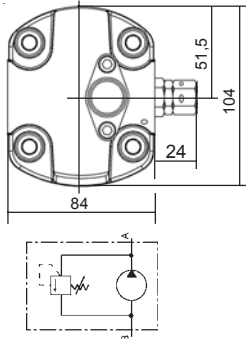
**A**

with ports



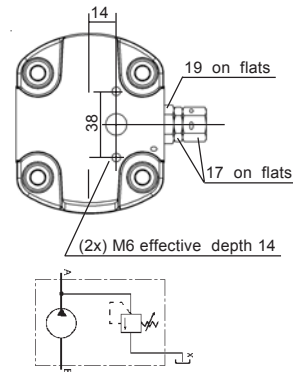
**X**

High pressure relief valve (Adjustable) Internal return



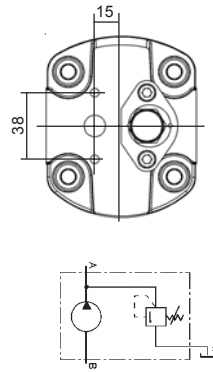
**T**

High pressure relief valve (Adjustable) External return



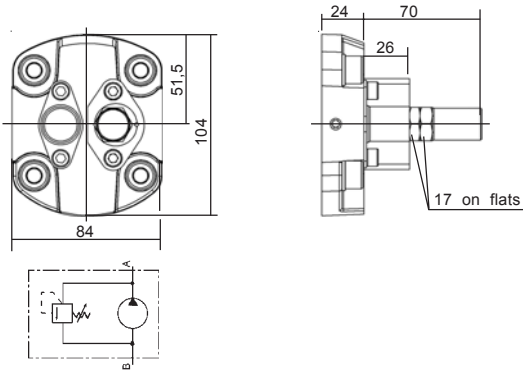
**W**

Low Pressure relief valve (Adjustable) External return



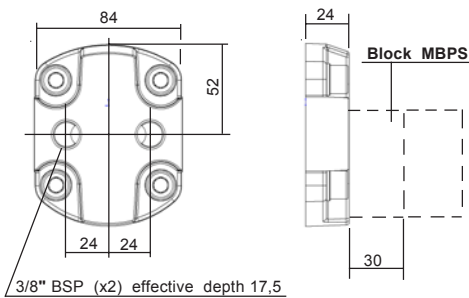
**V**

Low Pressure relief valve (Adjustable) Internal return



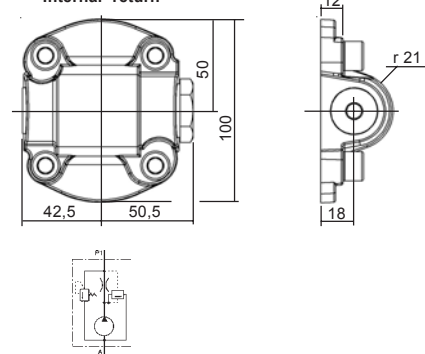
**AR**

with block configuration MBPS



**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1367 3/4**

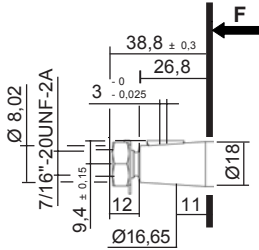
Consult us for availability

DRIVING SHAFTS

Tapered

10

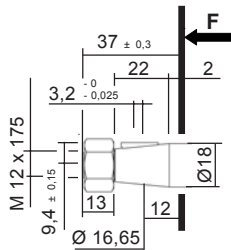
**B02** Cône 1 / 8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1 / 5



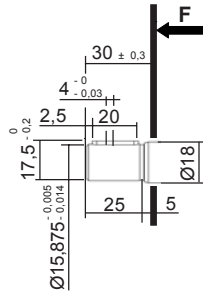
Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

Straight keyed

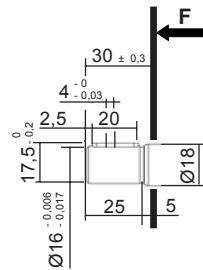
20

**A01**



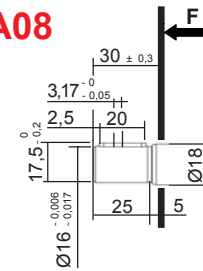
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

**A08**

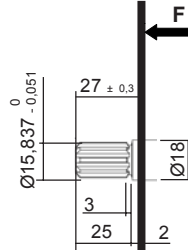


Maxi transmissible torque  
**50 N.m**

Splined

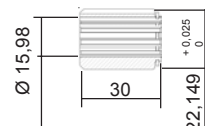
30

**A01**



Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle  
Maxi transmissible torque  
**100 N.m**

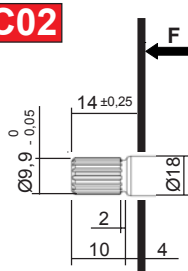
Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310  
Mounting with splinned shaft 30 A01



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

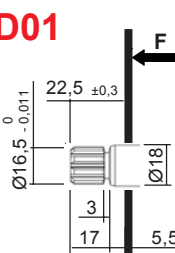
**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

**D01**



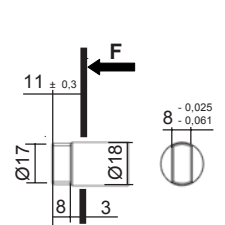
Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

Tang

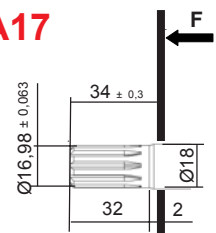
40

**C03**



Maxi transmissible torque  
**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque  
**100 N.m**

Dimensions readings and approximative characteristics subject to modifications.

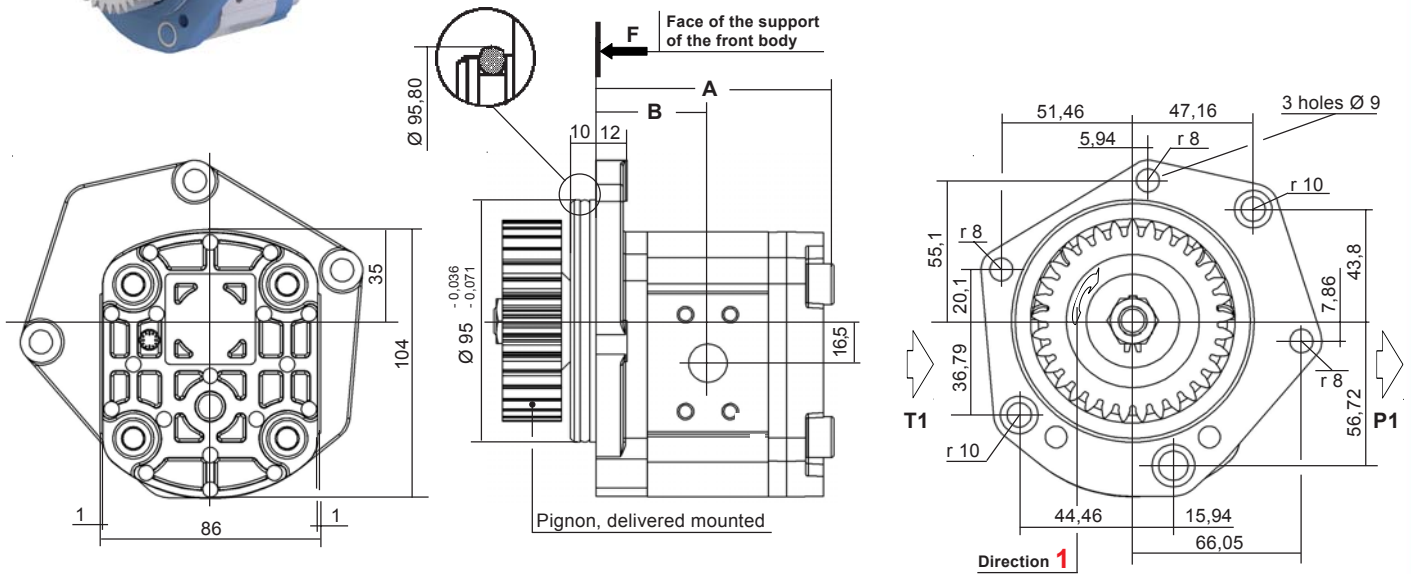
F.T 25 1367 4/4

Consult us for availability



**P 1** **APK 25** VI Sign **H L P** **P100 \*** XI Sign

For CODIFICATION, see data sheet **F.T R 0011**



| CHOICE of the PIGNONS |           |           |
|-----------------------|-----------|-----------|
|                       | Type 1000 | Type 1100 |
| Nb teeth:             | 28        | 33        |
| Module:               | 2,54      | 2,17      |
| Pressure angle:       | 20°       | 17°       |
| Angle of the helix:   | 14°8'     | 14°       |
| Way of the helix:     | left      | left      |

| CHOICE of the Capacity | Dimensions |    |
|------------------------|------------|----|
|                        | A          | B  |
| 12                     | 107        | 51 |
| 15 - 17 - 18 - 22      | 123        | 59 |

Multiples geared pumps, see data sheet **F.T 20 1306**

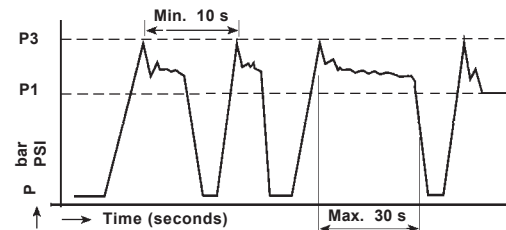
Seal kits:  
Nitrile: **K5069810 + X368928**  
Viton: **K5069820**  
(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW           |                          | Input power (kW)<br>at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|------------------------|--------------------------|---|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM<br>l / min | at Max. speed<br>l / min |   |                                 |                      |
|             |                      | <b>2512</b>   | 12   | 300                  | 4350 |                   | 255                    | 3697                     |   |                                 |                      |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25                  | 52,5                     | 3,04  | 29,03                           | 2,6                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95                  | 60,55                    | 3,39  | 32,36                           | 2,7                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65                  | 66,8                     | 3,75  | 35,77                           | 2,7                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2                   | 79,8                     | 4,48  | 42,78                           | 2,8                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.

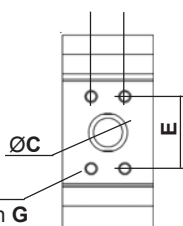
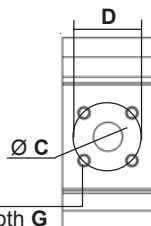
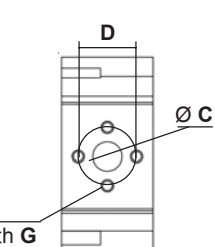
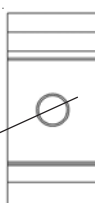
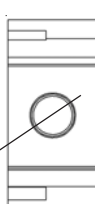
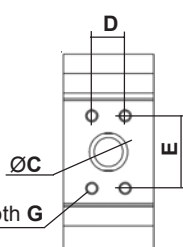



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1369 1/4

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity   | INLET (T)                  |      |      |     |    | OUTLET (P) |      |                           |                           |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |    |
|---|--|----------------------------|------|------|-----|----|------------|------|---------------------------|---------------------------|----|--|--|----|
|   |  | ØC                         | D    | E    | ØF  | G  | ØC         | D    | E                         | ØF                        | G  | INLET (T)  | OUTLET (P)   |    |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M6  | 12 | 15         | 17,4 | 38                        | M6                        | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                               | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                         |    |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 20                         | 40   |      | M6  | 12 | 15         | 35   |                           | M6                        | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>   | <p>1 / 2 " BSP<br/>N: 367141.703</p>                                       |    |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 23,5                       | 40   |      | M8  | 13 | 15         | 30   |                           | M6                        | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101<br/>3 / 4 " BSP<br/>N: X.367508.102</p>   | <p>3 / 8 " BSP<br/>N: X.367508.201<br/>1 / 2 " BSP<br/>N: X.367508.202</p> |    |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      |     |    |            |      | 1" Gaz                    | 18                        |    | 1/2" Gaz   | 14   |    |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      |     |    |            |      | 1"5/16<br>12<br>UNF<br>2B | 20                        |    | 7/8"<br>14<br>UNF<br>2B  | 17   |    |
|   |  |                            |      |      |     |    |            |      |                           | 1"5/16<br>12<br>UNF<br>2B | 20 |  | 1"1/16<br>12<br>UNF<br>2B  | 20 |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10 | 14 | 15         | 17,4 | 38                        | M8                        | 14 |  |  |    |
|   |  | 26                         | 52,4 | 26,2 | M10 | 14 | 15         | 17,4 | 38                        | M8                        | 14 |  |  |    |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | Only with rear body Type A |      |      |     |    |            |      |                           |                           |    |  |  |    |

Dimensions readings and approximative characteristics subject to modifications.

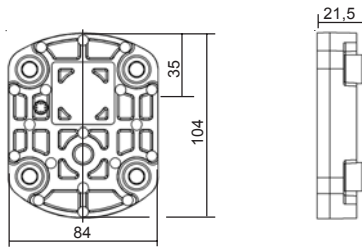
F.T 20 1369 2/4

Consult us for availability

**REAR BODIES**

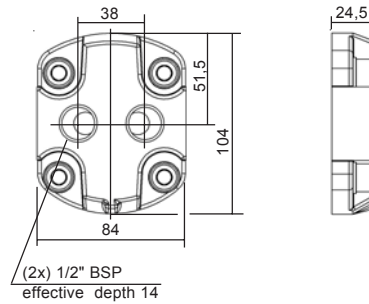
**L**

Standard



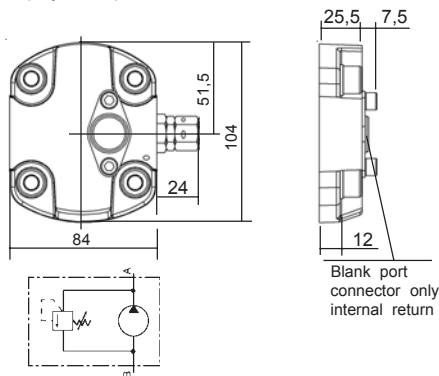
**A**

with ports



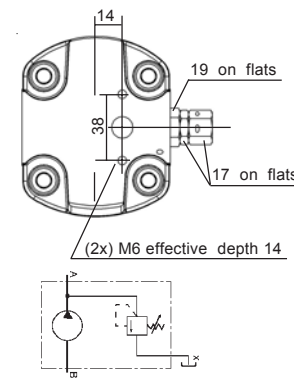
**X**

High pressure relief valve  
(Adjustable) Internal return



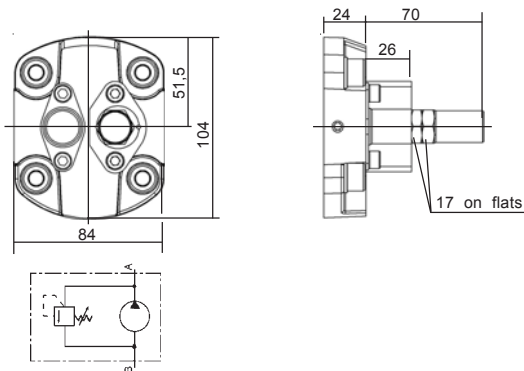
**T**

High pressure relief valve  
(Adjustable) External return



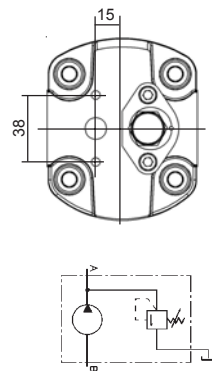
**V**

Low Pressure relief valve  
(Adjustable) Internal return



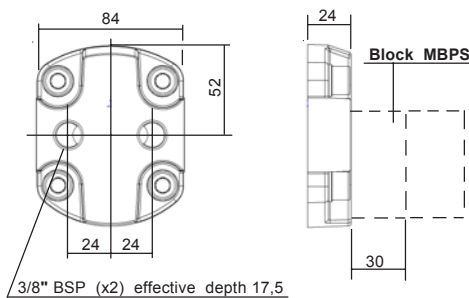
**W**

Low Pressure relief valve  
(Adjustable) External return



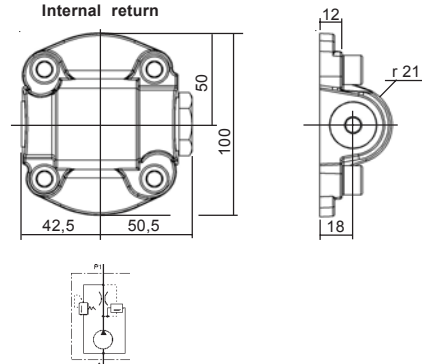
**AR**

with block configuration MBPS



**Q**

Flow control  
Internal return



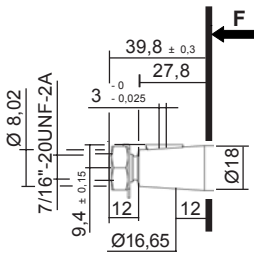
Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1369 3/4**



Consult us for availability

DRIVING SHAFT

| Tapered   | Straight keyed | Splined   | Tang      |
|---|----------------|-----------|-----------|
| <b>10</b>   | <b>20</b>      | <b>30</b> | <b>40</b> |
| <p><b>B02</b> Taper 1 / 8</p>  <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u><br/><b>250 N.m</b></p> |                |           |           |

Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1369 4/4**

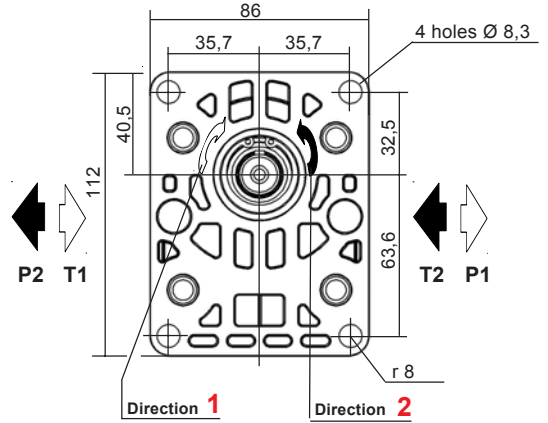
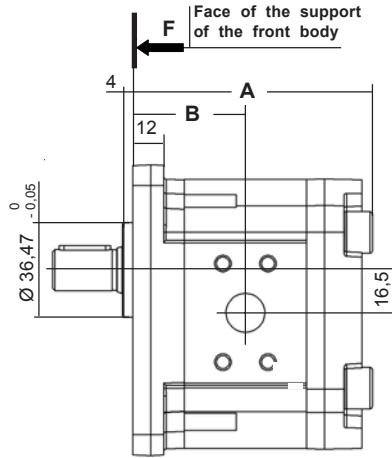
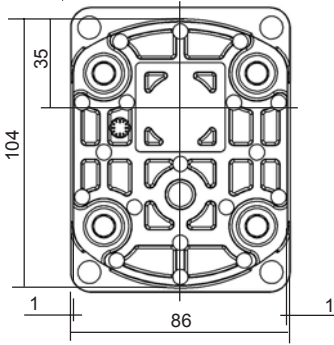


Consult us for availability



**P** II Sign **BAN** **N** **25** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |    |
|------------------------|------------|----|
|                        | A          | B  |
| 12                     | 107        | 51 |
| 15 - 17 - 18 - 22      | 123        | 59 |

Multiples geared pumps, see data sheet **F.T 20 1306**

**Seal kits:**

Nitrile: **K5069810**

Viton: **K5069820**

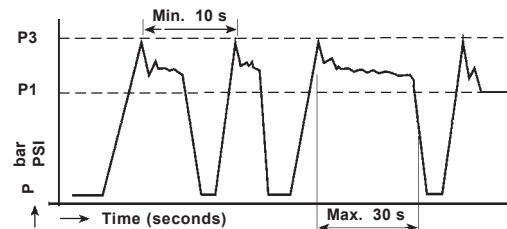
(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| <b>2512</b> | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35   | 22,45                                 | 2,3                  |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04   | 29,03                                 | 2,6                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39   | 32,36                                 | 2,7                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75   | 35,77                                 | 2,7                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48   | 42,78                                 | 2,8                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

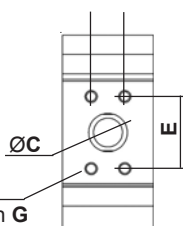
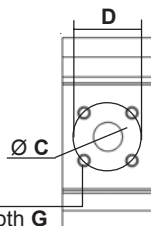
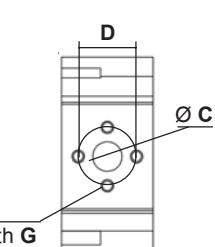
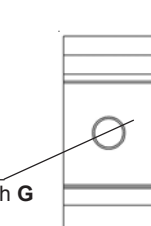
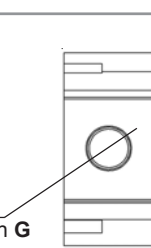
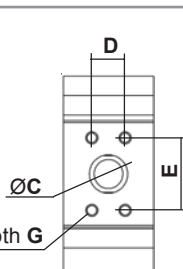
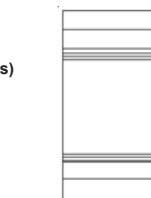
P3 Allowable peak pressure.



**F.T 25 1308 1/4**

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity   | INLET (T)                  |      |      |                           |    | OUTLET (P) |      |    |                           |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |
|---|--|----------------------------|------|------|---------------------------|----|------------|------|----|---------------------------|----|--|--|
|   |  | ØC                         | D    | E    | ØF                        | G  | ØC         | D    | E  | ØF                        | G  | INLET (T)  | OUTLET (P)   |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M6                        | 12 | 15         | 17,4 | 38 | M6                        | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                               | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                         |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 20                         | 40   |      | M6                        | 12 | 15         | 35   |    | M6                        | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>   | <p>1 / 2 " BSP<br/>N: 367141.703</p>                                       |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 23,5                       | 40   |      | M8                        | 13 | 15         | 30   |    | M6                        | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101<br/>3 / 4 " BSP<br/>N: X.367508.102</p>   | <p>3 / 8 " BSP<br/>N: X.367508.201<br/>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1" Gaz                    | 18 |            |      |    | 1/2" Gaz                  | 14 |  |  |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 7/8"<br>14<br>UNF<br>2B   | 17 |  |  |
|   |  |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 1"1/16<br>12<br>UNF<br>2B | 20 |  |  |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |  |  |
|   |  | 26                         | 52,4 | 26,2 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |  |  |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | Only with rear body Type A |      |      |                           |    |            |      |    |                           |    |  |  |

Dimensions readings and approximative characteristics subject to modifications.

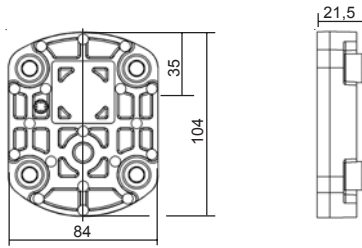
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Consult us for availability

REAR BODIES

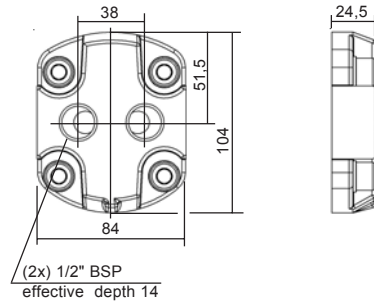
**L**

Standard



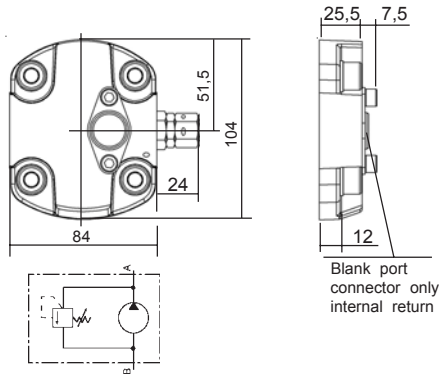
**A**

with ports



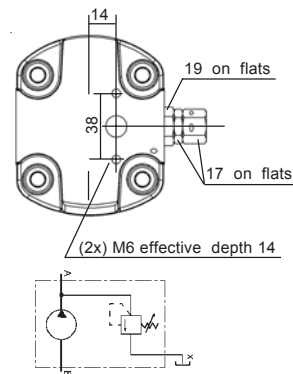
**X**

High pressure relief valve  
(Adjustable) Internal return



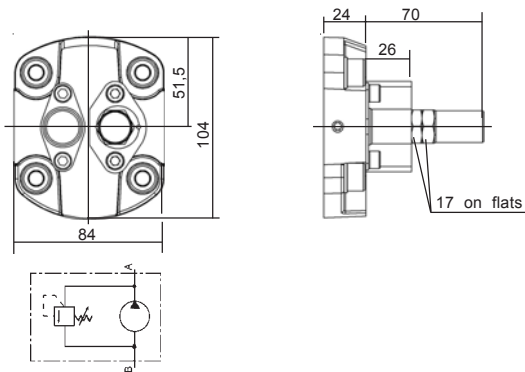
**T**

High pressure relief valve  
(Adjustable) External return



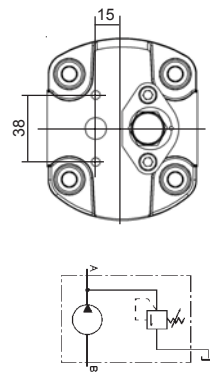
**V**

Low Pressure relief valve  
(Adjustable) Internal return



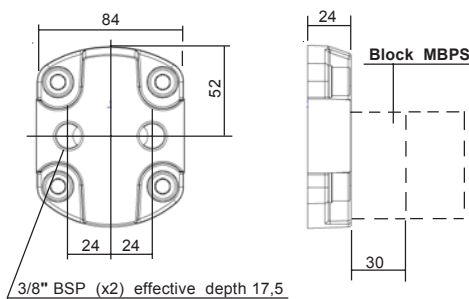
**W**

Low Pressure relief valve  
(Adjustable) External return



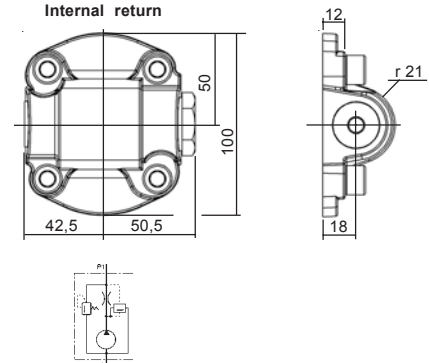
**AR**

with block configuration MBPS



**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

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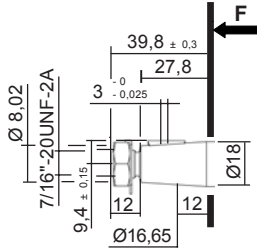
Consult us for availability

DRIVING SHAFTS

Tapered

**10**

**B02** Cône 1 / 8

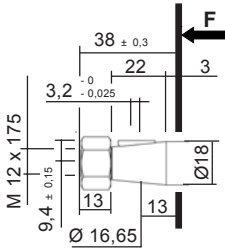


Delivered with nut: K100841

Maxi transmissible torque

**250 N.m**

**C02** Cône 1 / 5



Delivered with nut: K106317

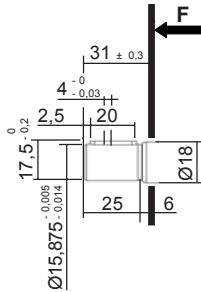
Maxi transmissible torque

**220 N.m**

Straight keyed

**20**

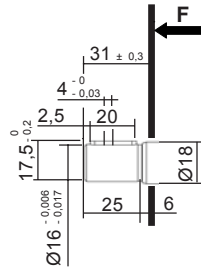
**A01**



Maxi transmissible torque

**50 N.m**

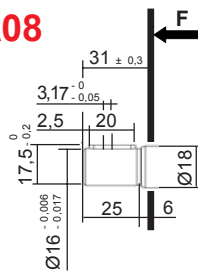
**C02**



Maxi transmissible torque

**50 N.m**

**A08**



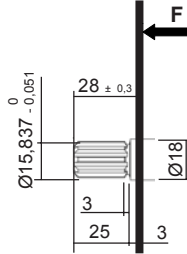
Maxi transmissible torque

**50 N.m**

Splined

**30**

**A01**



Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle

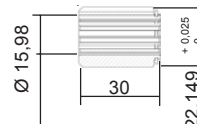
Maxi transmissible torque

**100 N.m**

Sleeve coupling 9 teeth / 13 teeth

Ref.: **K.5041310**

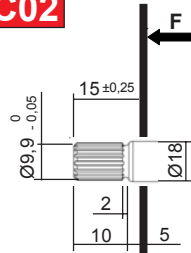
Mounting with splinned shaft **30 A01**



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

**C02**

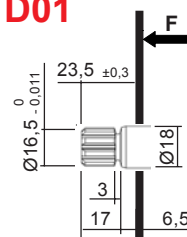


Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque

**100 N.m**

**D01**



Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

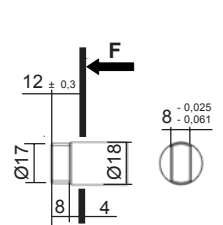
Maxi transmissible torque

**100 N.m**

Tang

**40**

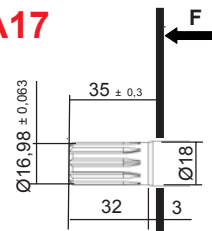
**C03**



Maxi transmissible torque

**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque

**100 N.m**

Dimensions readings and approximative characteristics subject to modifications.

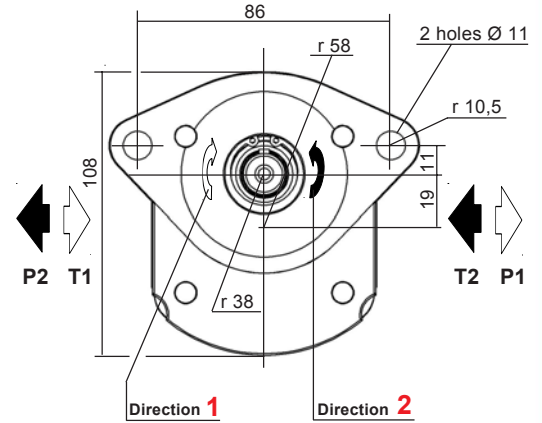
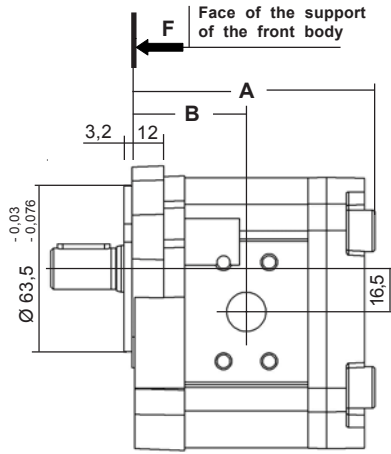
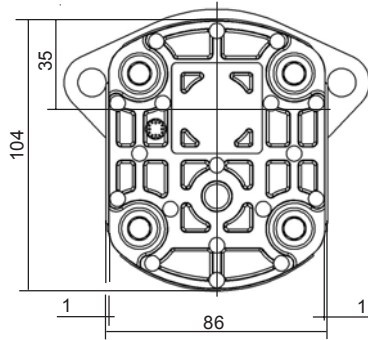
**F.T 25 1308 4/4**

Consult us for availability



**P** II Sign **CAN** **25** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity   | Dimensions |    |
|--------------------------|------------|----|
|                          | A          | B  |
| <b>12</b>                | 107        | 51 |
| 15 - <b>17</b> - 18 - 22 | 123        | 59 |

Multiples geared pumps, see data sheet **F.T 20 1306**

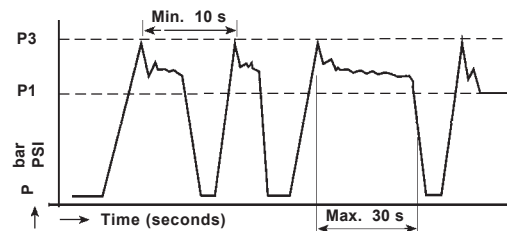
Seal kits:  
Nitrile: **K5069810**  
Viton: **K5069820**  
(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                 |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| <b>2512</b> | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35                                     | 22,45                           | 2,3                  |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04                                     | 29,03                           | 2,6                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39                                     | 32,36                           | 2,7                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75                                     | 35,77                           | 2,7                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48                                     | 42,78                           | 2,8                  |

**P1** Maximum pressure in continuous duty.

Maximum Pressure ⇒

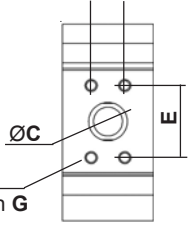
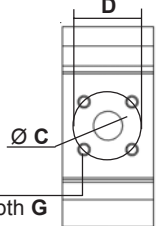
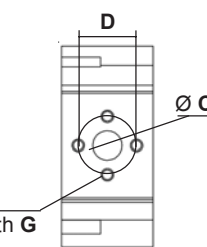
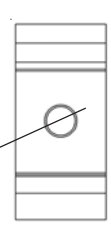
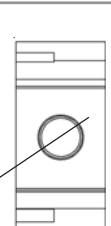
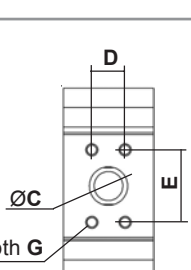

**P3** Allowable peak pressure.



**F.T 25 1309 1/4**

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity   | INLET (T)                  |      |      |                        |    | OUTLET (P) |      |    |                        |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |
|---|--|----------------------------|------|------|------------------------|----|------------|------|----|------------------------|----|--|--|
|   |  | ØC                         | D    | E    | ØF                     | G  | ØC         | D    | E  | ØF                     | G  | INLET (T)  | OUTLET (P)   |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M6                     | 12 | 15         | 17,4 | 38 | M6                     | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                               | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                         |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 20                         | 40   |      | M6                     | 12 | 15         | 35   |    | M6                     | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>   | <p>1 / 2 " BSP<br/>N: 367141.703</p>                                       |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 23,5                       | 40   |      | M8                     | 13 | 15         | 30   |    | M6                     | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101<br/>3 / 4 " BSP<br/>N: X.367508.102</p>   | <p>3 / 8 " BSP<br/>N: X.367508.201<br/>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1" Gaz                 | 18 |            |      |    | 1/2" Gaz               | 14 |  |  |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    | 7/8"<br>14 UNF<br>2B   | 17 |  |  |
|   |  |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    | 1"1/16<br>12 UNF<br>2B | 20 |  |  |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10                    | 14 | 15         | 17,4 | 38 | M8                     | 14 |  |  |
|   |  | 26                         | 52,4 | 26,2 | M10                    | 14 | 15         | 17,4 | 38 | M8                     | 14 |  |  |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | Only with rear body Type A |      |      |                        |    |            |      |    |                        |    |  |  |

Dimensions readings and approximative characteristics subject to modifications.

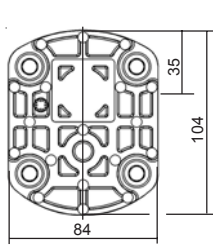
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Consult us for availability

**REAR BODIES**

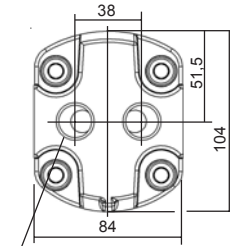
**L**

Standard



**A**

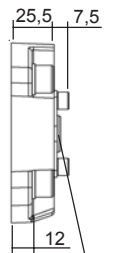
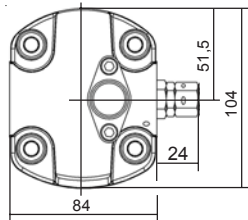
with ports



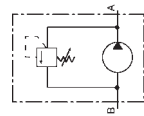
(2x) 1/2" BSP  
effective depth 14

**X**

High pressure relief valve  
(Adjustable) Internal return

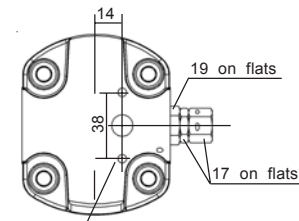


Blank port  
connector only  
internal return

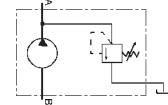


**T**

High pressure relief valve  
(Adjustable) External return

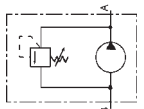
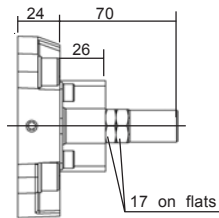
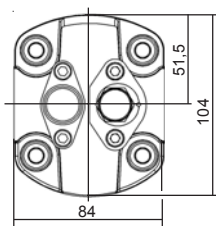


(2x) M6 effective depth 14



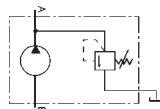
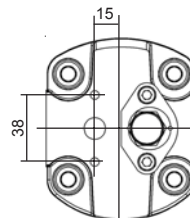
**V**

Low Pressure relief valve  
(Adjustable) Internal return



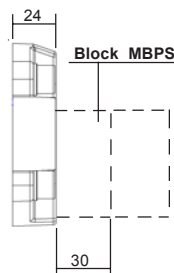
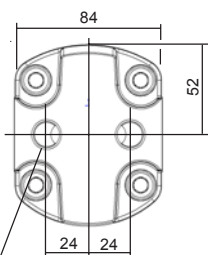
**W**

Low Pressure relief valve  
(Adjustable) External return



**AR**

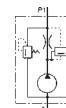
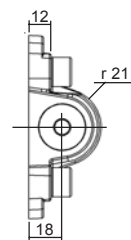
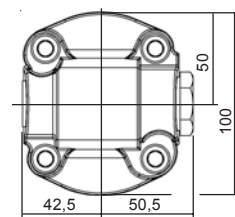
with block configuration MBPS



3/8" BSP (x2) effective depth 17,5

**Q**

Flow control  
Internal return



Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1309 3/4**

DRIVING SHAFTS

Tapered

10

Straight keyed

20

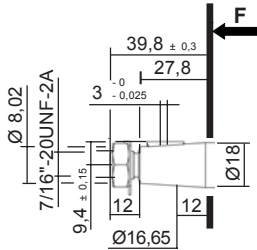
Splined

30

Tang

40

**B02** Cône 1 / 8

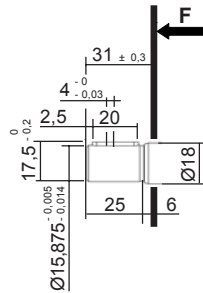


Delivered with nut: K100841

Maxi transmissible torque

**250 N.m**

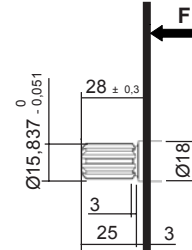
**A01**



Maxi transmissible torque

**50 N.m**

**A01**

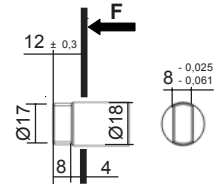


Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle

Maxi transmissible torque

**100 N.m**

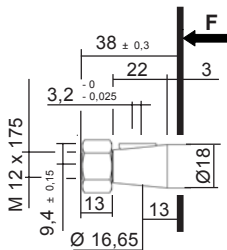
**C03**



Maxi transmissible torque

**70 N.m**

**C02** Cône 1 / 5

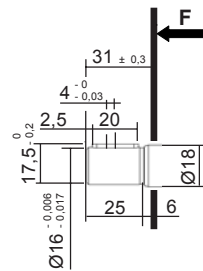


Delivered with nut: K106317

Maxi transmissible torque

**220 N.m**

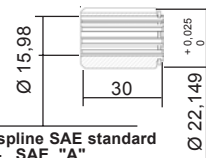
**C02**



Maxi transmissible torque

**50 N.m**

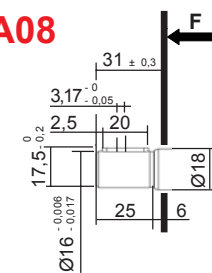
Sleeve coupling 9 teeth / 13 teeth  
Ref.: **K.5041310**  
Mounting with splined shaft **30 A01**



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

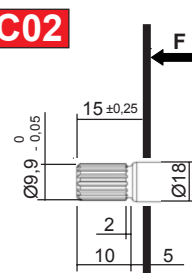
**A08**



Maxi transmissible torque

**50 N.m**

**C02**

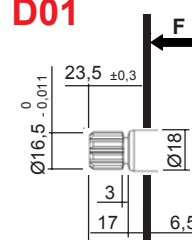


Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque

**100 N.m**

**D01**

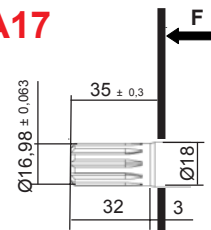


Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque

**100 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque

**100 N.m**

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1309 3/4

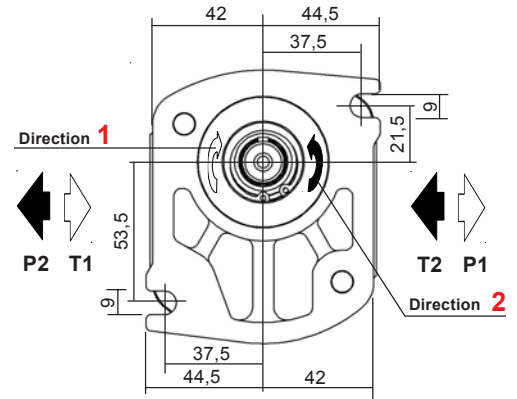
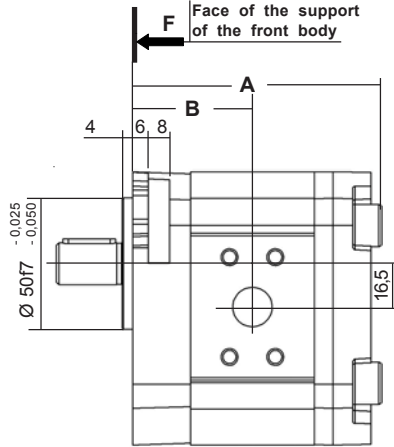
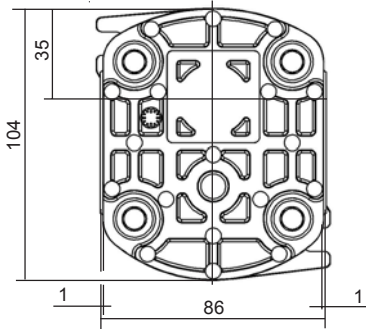


Consult us for availability



**P** **II** **CEN** **25** **VI** **HL** **IX** **X** **XI** **XII**  
Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |    |
|------------------------|------------|----|
|                        | A          | B  |
| 12                     | 108        | 52 |
| 15 - 17 - 18 - 22      | 124        | 60 |

Multiples geared pumps, see data sheet **F.T 20 1306**

**Seal kits:**

Nitrile: **K5069810**

Viton: **K5069820**

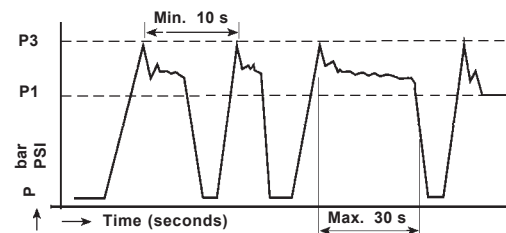
(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                 |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| <b>2512</b> | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35                                     | 22,45                           | 2,3                  |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04                                     | 29,03                           | 2,6                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39                                     | 32,36                           | 2,7                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75                                     | 35,77                           | 2,7                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48                                     | 42,78                           | 2,8                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

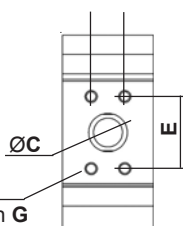
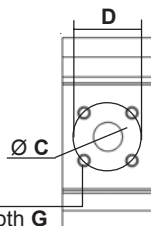
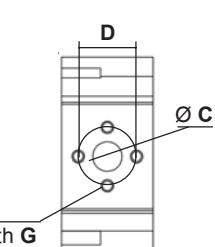
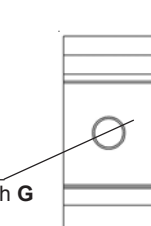
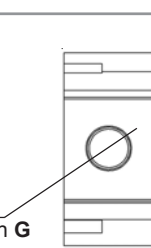
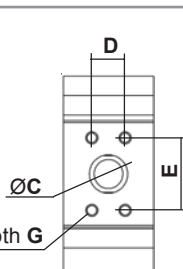
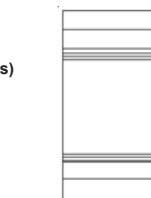
P3 Allowable peak pressure.



**F.T 25 1310 1/4**

  Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity   | INLET (T)                  |      |      |                        |    | OUTLET (P) |      |    |                        |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |
|---|--|----------------------------|------|------|------------------------|----|------------|------|----|------------------------|----|--|--|
|   |  | ØC                         | D    | E    | ØF                     | G  | ØC         | D    | E  | ØF                     | G  | INLET (T)  | OUTLET (P)   |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M6                     | 12 | 15         | 17,4 | 38 | M6                     | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                               | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                         |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 20                         | 40   |      | M6                     | 12 | 15         | 35   |    | M6                     | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>   | <p>1 / 2 " BSP<br/>N: 367141.703</p>                                       |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 23,5                       | 40   |      | M8                     | 13 | 15         | 30   |    | M6                     | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101<br/>3 / 4 " BSP<br/>N: X.367508.102</p>   | <p>3 / 8 " BSP<br/>N: X.367508.201<br/>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1" Gaz                 | 18 |            |      |    | 1/2" Gaz               | 14 |  |  |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    | 7/8"<br>14 UNF<br>2B   | 17 |  |  |
|   |  |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    | 1"1/16<br>12 UNF<br>2B | 20 |  |  |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10                    | 14 | 15         | 17,4 | 38 | M8                     | 14 |  |  |
|   |  | 26                         | 52,4 | 26,2 | M10                    | 14 | 15         | 17,4 | 38 | M8                     | 14 |  |  |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | Only with rear body Type A |      |      |                        |    |            |      |    |                        |    |  |  |

Dimensions readings and approximative characteristics subject to modifications.

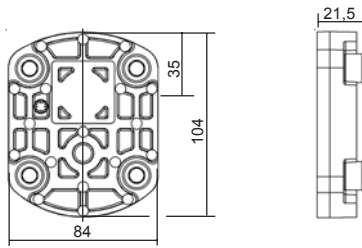
F.T 25 1310 2/4

Consult us for availability

**REAR BODIES**

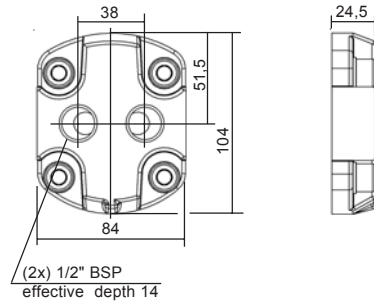
**L**

Standard



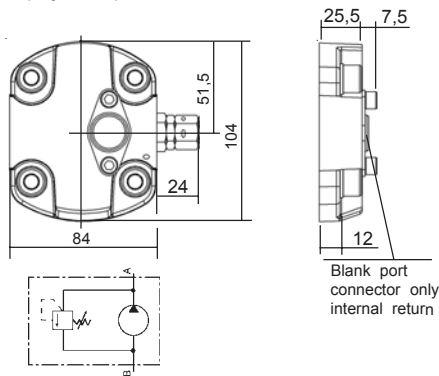
**A**

with ports



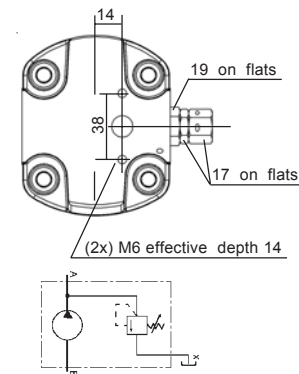
**X**

High pressure relief valve  
(Adjustable) Internal return



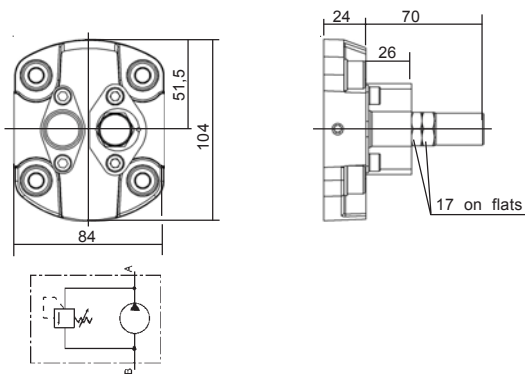
**T**

High pressure relief valve  
(Adjustable) External return



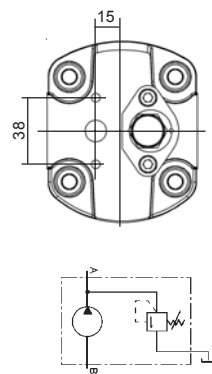
**V**

Low Pressure relief valve  
(Adjustable) Internal return



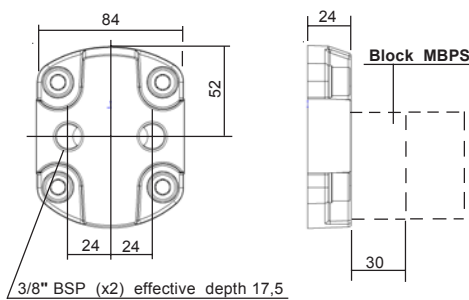
**W**

Low Pressure relief valve  
(Adjustable) External return



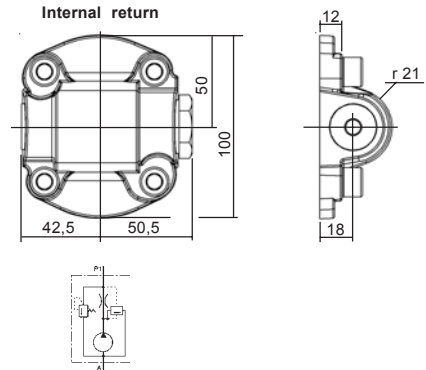
**AR**

with block configuration MBPS



**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

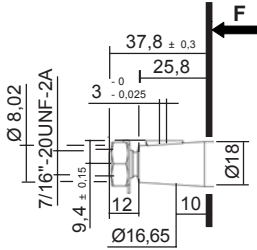
**F.T 25 1310 3/4**

Consult us for availability

DRIVING SHAFTS

**Tapered**  
**10**

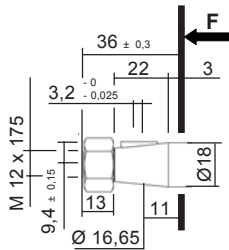
**B02** Cône 1 / 8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1 / 5

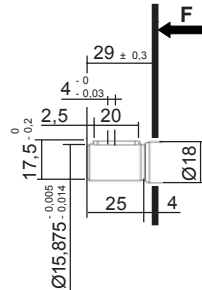


Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

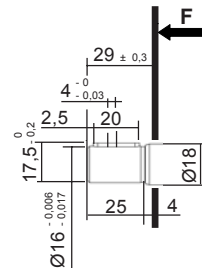
**Straight keyed**  
**20**

**A01**



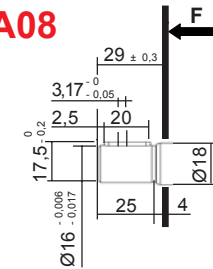
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

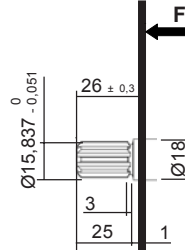
**A08**



Maxi transmissible torque  
**50 N.m**

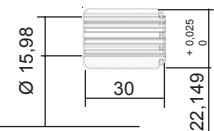
**Splined**  
**30**

**A01**



Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle  
Maxi transmissible torque  
**100 N.m**

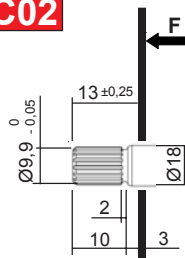
Sleeve coupling 9 teeth / 13 teeth  
Ref.: **K.5041310**  
Mounting with splinned shaft **30 A01**



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

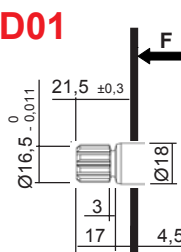
Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks  
Maxi transmissible torque  
**100 N.m**

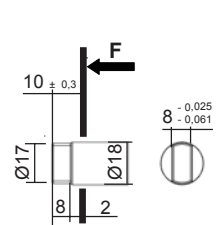
**D01**



Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks  
Maxi transmissible torque  
**100 N.m**

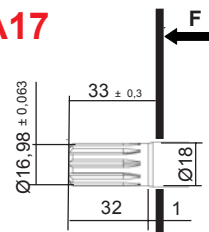
**Tang**  
**40**

**C03**



Maxi transmissible torque  
**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle  
Maxi transmissible torque  
**100 N.m**

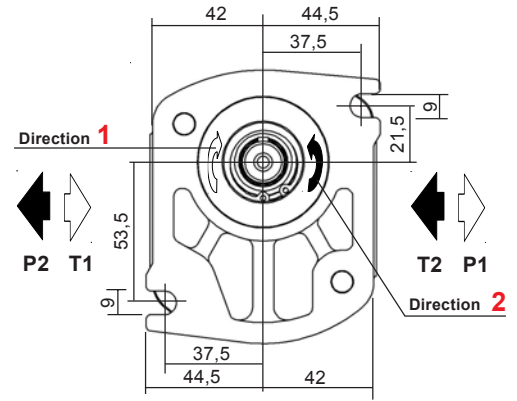
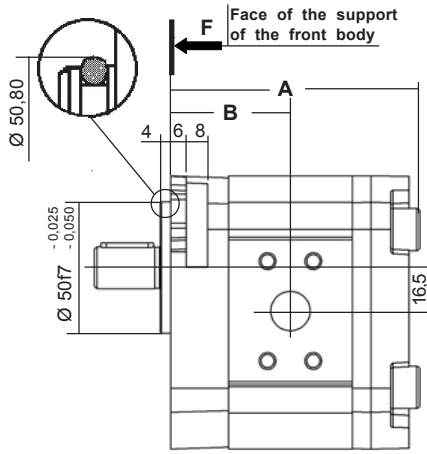
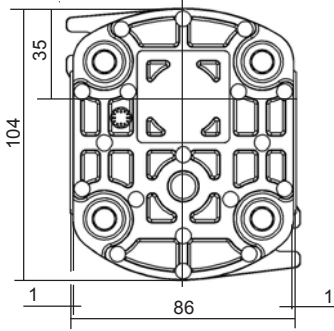
Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1310 3/4**

Consult us for availability

P II Sign CEK 25 VI Sign HL IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet F.T R 0011



| CHOICE of the Capacity | Dimensions |    |
|------------------------|------------|----|
|                        | A          | B  |
| 12                     | 108        | 52 |
| 15 - 17 - 18 - 22      | 124        | 60 |

Multiples geared pumps, see data sheet F.T 20 1306

Seal kits:  
Nitrile: K5069810 + K102238  
Viton: K5069820  
(For the manufacturings from January 1984)

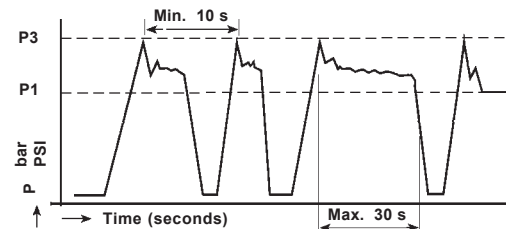
| MODEL | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|       |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                 |                      |
|       |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| 2512  | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35                                     | 22,45                           | 2,3                  |
| 2515  | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04                                     | 29,03                           | 2,6                  |
| 2517  | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39                                     | 32,36                           | 2,7                  |
| 2518  | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75                                     | 35,77                           | 2,7                  |
| 2522  | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48                                     | 42,78                           | 2,8                  |

Dimensions readings and approximative characteristics subject to modifications.

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

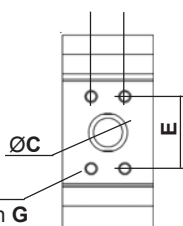
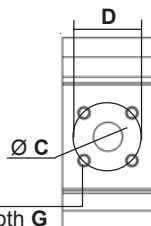
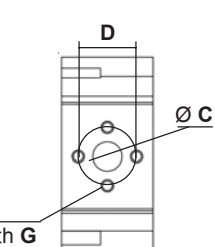
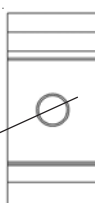
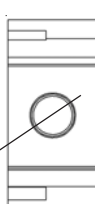
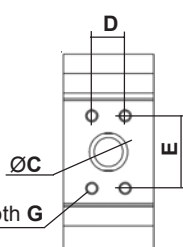

P3 Allowable peak pressure.



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Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity   | INLET (T)                  |      |      |                        |    | OUTLET (P) |      |    |                        |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |
|---|--|----------------------------|------|------|------------------------|----|------------|------|----|------------------------|----|--|--|
|   |  | ØC                         | D    | E    | ØF                     | G  | ØC         | D    | E  | ØF                     | G  | INLET (T)  | OUTLET (P)   |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M6                     | 12 | 15         | 17,4 | 38 | M6                     | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                               | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                         |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 20                         | 40   |      | M6                     | 12 | 15         | 35   |    | M6                     | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>   | <p>1 / 2 " BSP<br/>N: 367141.703</p>                                       |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 23,5                       | 40   |      | M8                     | 13 | 15         | 30   |    | M6                     | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101<br/>3 / 4 " BSP<br/>N: X.367508.102</p>   | <p>3 / 8 " BSP<br/>N: X.367508.201<br/>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1" Gaz                 | 18 |            |      |    | 1/2" Gaz               | 14 |  |  |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    | 7/8"<br>14 UNF<br>2B   | 17 |  |  |
|   |  |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    | 1"1/16<br>12 UNF<br>2B | 20 |  |  |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10                    | 14 | 15         | 17,4 | 38 | M8                     | 14 |  |  |
|   |  | 26                         | 52,4 | 26,2 | M10                    | 14 | 15         | 17,4 | 38 | M8                     | 14 |  |  |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | Only with rear body Type A |      |      |                        |    |            |      |    |                        |    |  |  |

Dimensions readings and approximative characteristics subject to modifications.

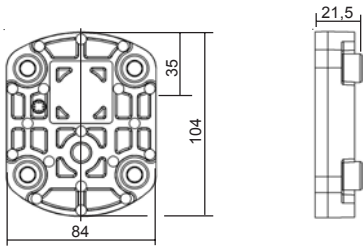
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Consult us for availability

**REAR BODIES**

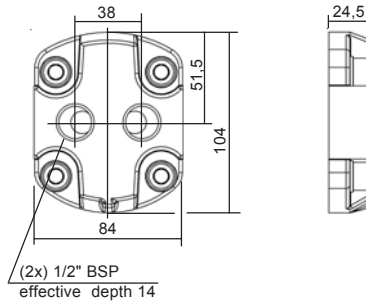
**L**

Standard



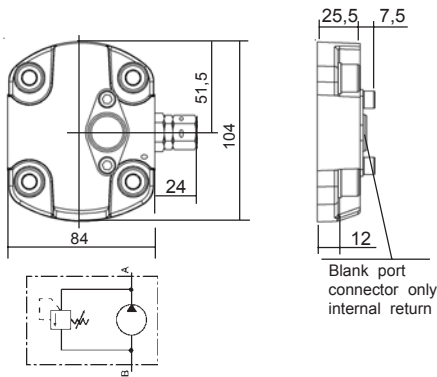
**A**

with ports



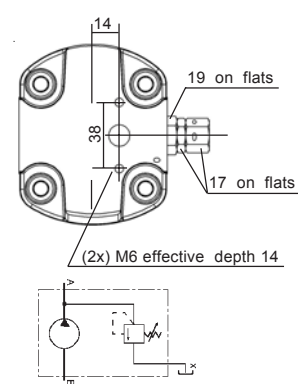
**X**

High pressure relief valve (Adjustable) Internal return



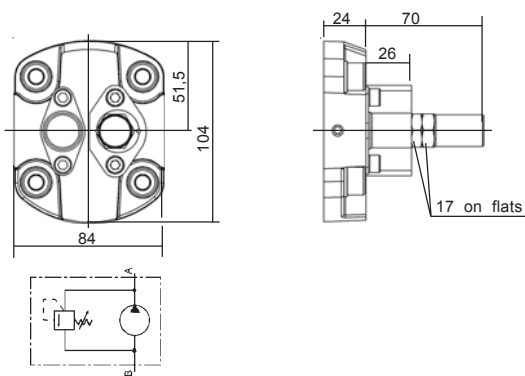
**T**

High pressure relief valve (Adjustable) External return



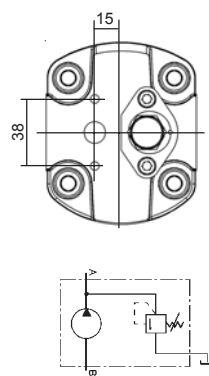
**V**

Low Pressure relief valve (Adjustable) Internal return



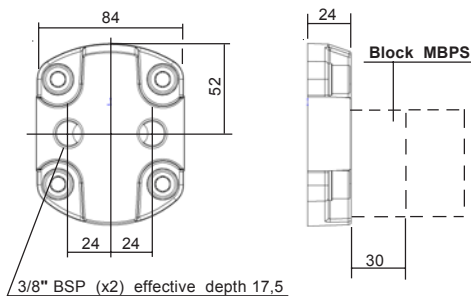
**W**

Low Pressure relief valve (Adjustable) External return



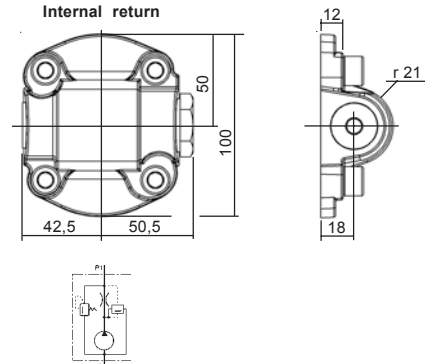
**AR**

with block configuration MBPS



**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1361 3/4**

Consult us for availability

DRIVING SHAFTS

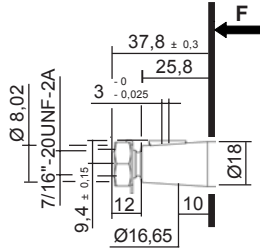
Tapered  
10

Straight keyed  
20

Splined  
30

Tang  
40

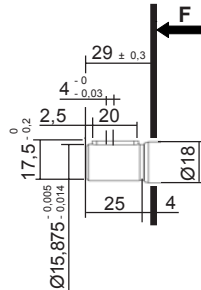
**B02** Cône 1 / 8



Delivered with nut: K100841

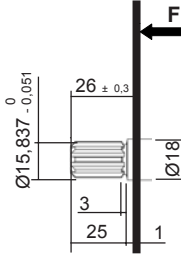
Maxi transmissible torque  
250 N.m

**A01**



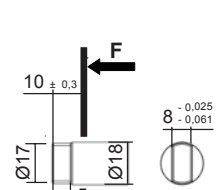
Maxi transmissible torque  
50 N.m

**A01**



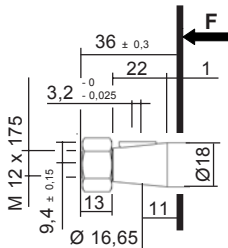
Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle  
Maxi transmissible torque  
100 N.m

**C03**



Maxi transmissible torque  
70 N.m

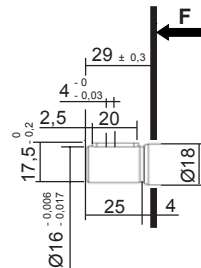
**C02** Cône 1 / 5



Delivered with nut: K106317

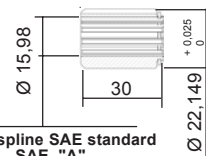
Maxi transmissible torque  
220 N.m

**C02**



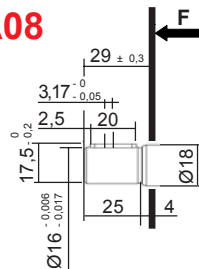
Maxi transmissible torque  
50 N.m

Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310  
Mounting with splined shaft 30 A01



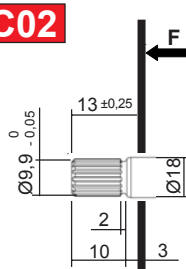
Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle  
Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

**A08**



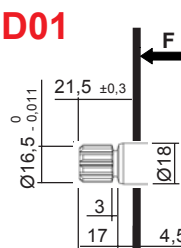
Maxi transmissible torque  
50 N.m

**C02**



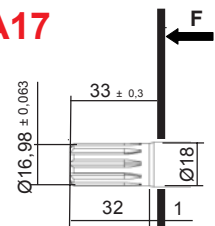
Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks  
Maxi transmissible torque  
100 N.m

**D01**



Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks  
Maxi transmissible torque  
100 N.m

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle  
Maxi transmissible torque  
100 N.m

Dimensions readings and approximative characteristics subject to modifications.

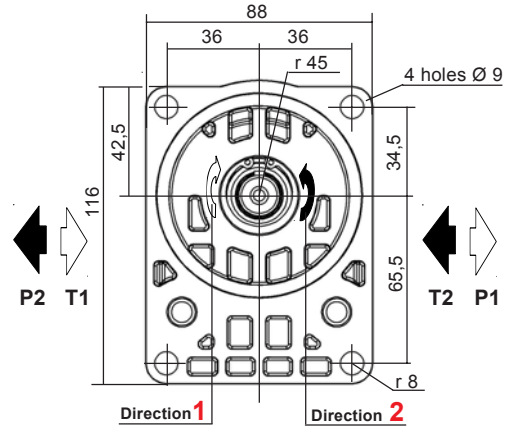
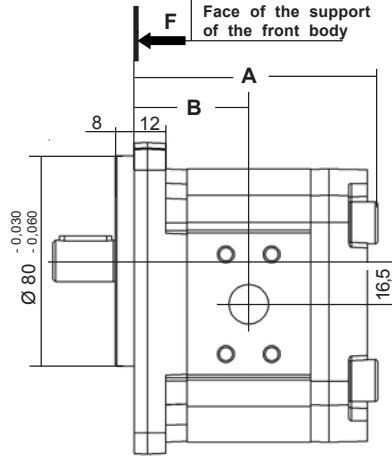
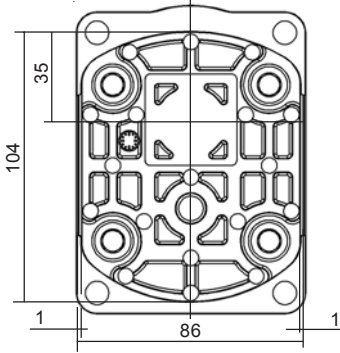
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Consult us for availability



**P** **II** **DB** **N** **25** **VI** **H** **L** **IX** **X** **XI** **XII**  
Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |    |
|------------------------|------------|----|
|                        | A          | B  |
| 12                     | 107        | 51 |
| 15 - 17 - 18 - 22      | 123        | 59 |

Multiples geared pumps, see data sheet **F.T 20 1306**

**Seal kits:**

Nitrile: **K5069810**

Viton: **K5069820**

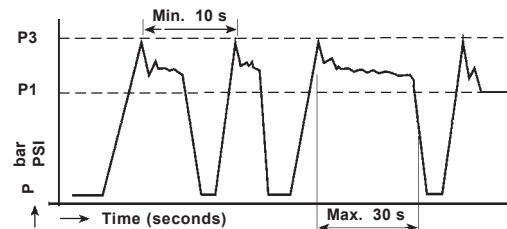
(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                       |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| <b>2512</b> | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35   | 22,45                                 | 2,3                  |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04   | 29,03                                 | 2,6                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39   | 32,36                                 | 2,7                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75   | 35,77                                 | 2,7                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48   | 42,78                                 | 2,8                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

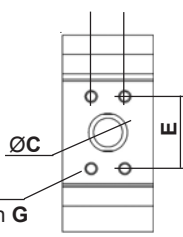
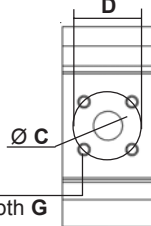
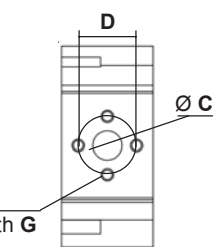
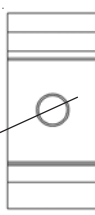
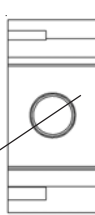
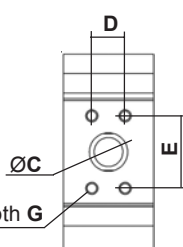

P3 Allowable peak pressure.



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CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity   | INLET (T)                  |      |      |                        |    | OUTLET (P) |      |    |                        |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |
|---|--|----------------------------|------|------|------------------------|----|------------|------|----|------------------------|----|--|--|
|   |  | ØC                         | D    | E    | ØF                     | G  | ØC         | D    | E  | ØF                     | G  | INLET (T)  | OUTLET (P)   |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M6                     | 12 | 15         | 17,4 | 38 | M6                     | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                               | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                         |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 20                         | 40   |      | M6                     | 12 | 15         | 35   |    | M6                     | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>   | <p>1 / 2 " BSP<br/>N: 367141.703</p>                                       |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 23,5                       | 40   |      | M8                     | 13 | 15         | 30   |    | M6                     | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101<br/>3 / 4 " BSP<br/>N: X.367508.102</p>   | <p>3 / 8 " BSP<br/>N: X.367508.201<br/>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1" Gaz                 | 18 |            |      |    | 1/2" Gaz               | 14 |  |  |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    | 7/8"<br>14 UNF<br>2B   | 17 |  |  |
|   |  |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    | 1"1/16<br>12 UNF<br>2B | 20 |  |  |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10                    | 14 | 15         | 17,4 | 38 | M8                     | 14 |  |  |
|   |  | 26                         | 52,4 | 26,2 | M10                    | 14 | 15         | 17,4 | 38 | M8                     | 14 |  |  |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | Only with rear body Type A |      |      |                        |    |            |      |    |                        |    |  |  |

Dimensions readings and approximative characteristics subject to modifications.

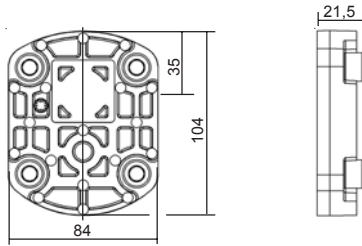
F.T 25 1311 2/4

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**REAR BODIES**

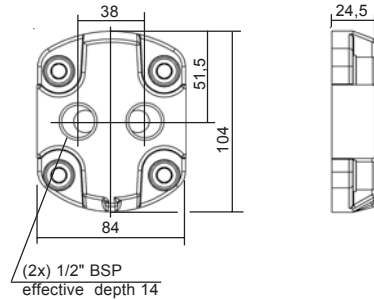
**L**

Standard



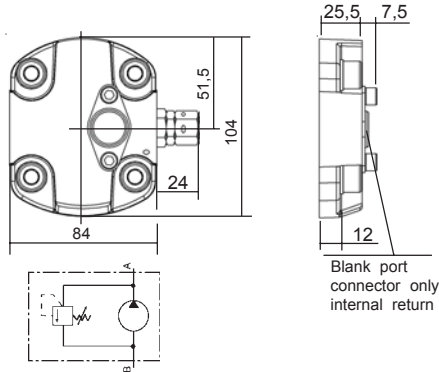
**A**

with ports



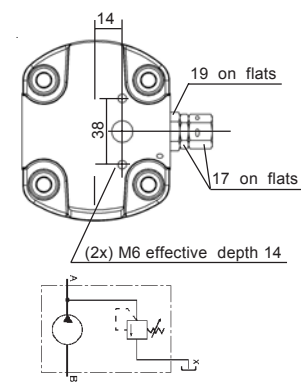
**X**

High pressure relief valve  
(Adjustable) Internal return



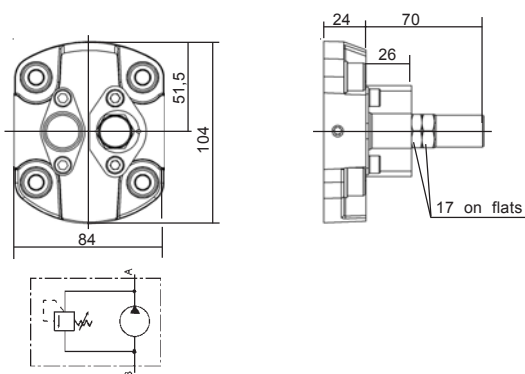
**T**

High pressure relief valve  
(Adjustable) External return



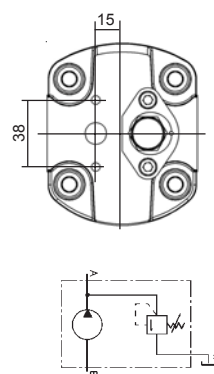
**V**

Low Pressure relief valve  
(Adjustable) Internal return



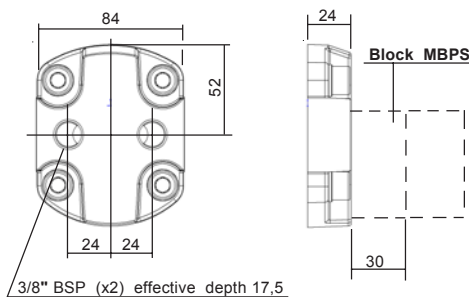
**W**

Low Pressure relief valve  
(Adjustable) External return



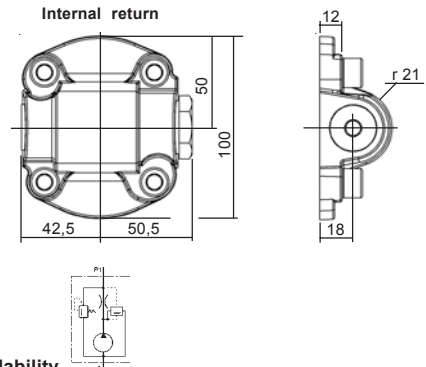
**AR**

with block configuration MBPS



**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1311 3/4**

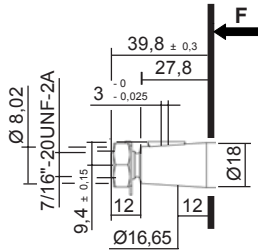
**Consult us for availability**

DRIVING SHAFTS

**Tapered**

**10**

**B02** Cône 1 / 8

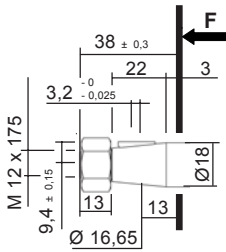


Delivered with nut: K100841

Maxi transmissible torque

**250 N.m**

**C02** Cône 1 / 5



Delivered with nut: K106317

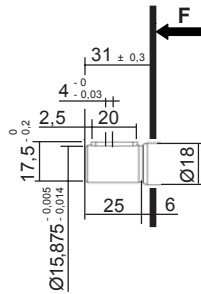
Maxi transmissible torque

**220 N.m**

**Straight keyed**

**20**

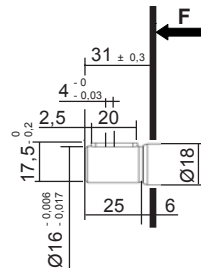
**A01**



Maxi transmissible torque

**50 N.m**

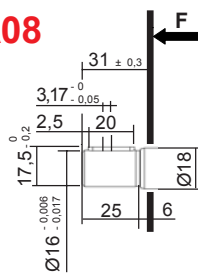
**C02**



Maxi transmissible torque

**50 N.m**

**A08**



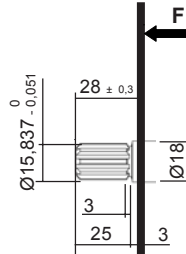
Maxi transmissible torque

**50 N.m**

**Splined**

**30**

**A01**

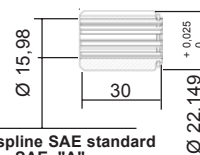


Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle

Maxi transmissible torque

**100 N.m**

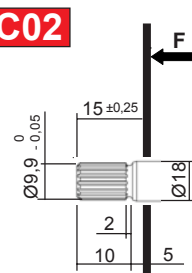
Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310  
Mounting with splined shaft 30 A01



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

**C02**

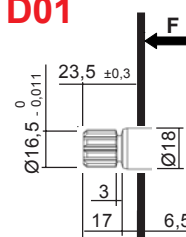


Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque

**100 N.m**

**D01**



Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

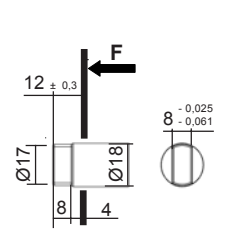
Maxi transmissible torque

**100 N.m**

**Tang**

**40**

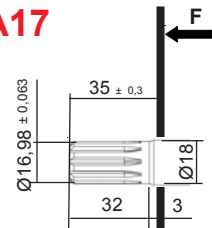
**C03**



Maxi transmissible torque

**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque

**100 N.m**

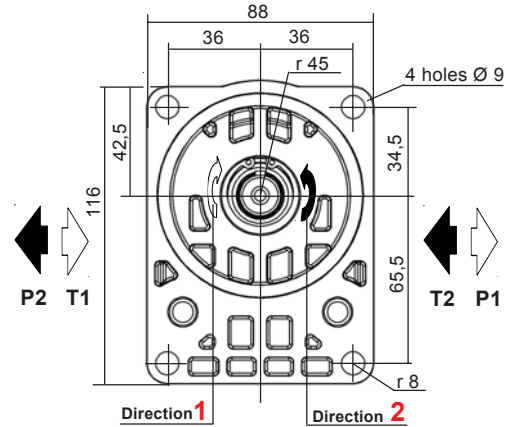
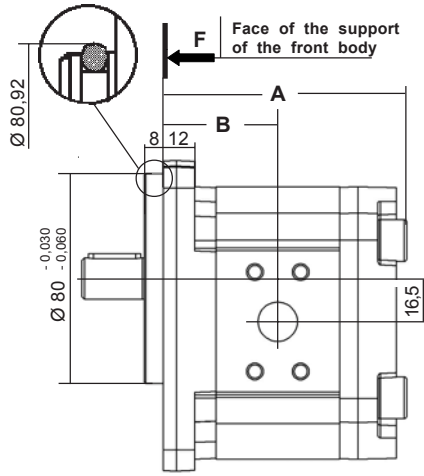
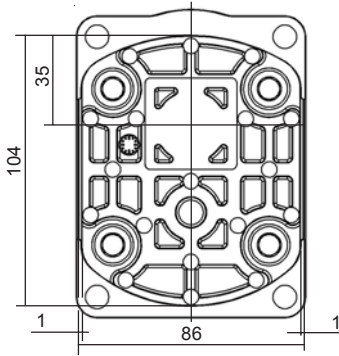
Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1311 4/4**

Consult us for availability

P II Sign **DBK** 2 5 VI Sign **HL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |    |     |
|------------------------|------------|----|-----|
|                        | A          | B  | C   |
| 12                     | 105        | 49 | 94  |
| 15 - 17 - 18 - 22      | 121        | 57 | 110 |

Multiples geared pumps, see data sheet **F.T 20 1306**

Seal kits:

Nitrile: **K5069810**

Viton: **K5069820**

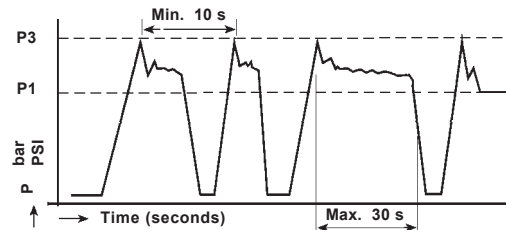
(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW           |                          | Input power (kW)<br>at<br>1000 RPM<br>and<br>100 bar | Input torque<br>at<br>100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|------------------------|--------------------------|--|--|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM<br>l / min | at Max. speed<br>l / min |  |  |                      |
|             |                      |               |      |                      |      |                   |                        |                          |  |  |                      |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25                  | 52,5                     | 3,04   | 29,03                                    | 2,6                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95                  | 60,55                    | 3,39   | 32,36                                    | 2,7                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65                  | 66,8                     | 3,75   | 35,77                                    | 2,7                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2                   | 79,8                     | 4,48   | 42,78                                    | 2,8                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

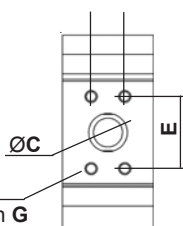
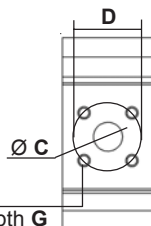
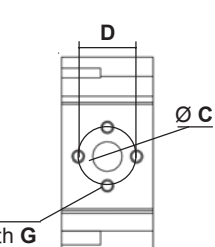
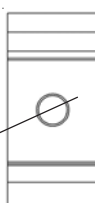
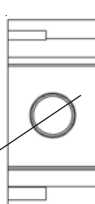
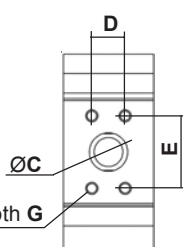

P3 Allowable peak pressure.



F.T 25 1335 1/4

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity   | INLET (T)                  |      |      |                        |    | OUTLET (P) |      |    |                        |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min)  |   |
|---|--|----------------------------|------|------|------------------------|----|------------|------|----|------------------------|----|---|---|
|   |  | ØC                         | D    | E    | ØF                     | G  | ØC         | D    | E  | ØF                     | G  | INLET (T)   | OUTLET (P)  |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M6                     | 12 | 15         | 17,4 | 38 | M6                     | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                                | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                            |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 20                         | 40   |      | M6                     | 12 | 15         | 35   |    | M6                     | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>  | <p>1 / 2 " BSP<br/>N: 367141.703</p>  |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 23,5                       | 40   |      | M8                     | 13 | 15         | 30   |    | M6                     | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101</p> <p>3 / 4 " BSP<br/>N: X.367508.102</p> | <p>3 / 8 " BSP<br/>N: X.367508.201</p> <p>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      |                        |    | 1" Gaz     | 18   |    | 1/2" Gaz               | 14 |   |   |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    | 7/8"<br>14 UNF<br>2B   | 17 |   |   |
|   |  |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    | 1"1/16<br>12 UNF<br>2B | 20 |   |   |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10                    | 14 | 15         | 17,4 | 38 | M8                     | 14 |   |   |
|   |  | 26                         | 52,4 | 26,2 | M10                    | 14 | 15         | 17,4 | 38 | M8                     | 14 |   |   |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | Only with rear body Type A |      |      |                        |    |            |      |    |                        |    |   |   |

Dimensions readings and approximative characteristics subject to modifications.

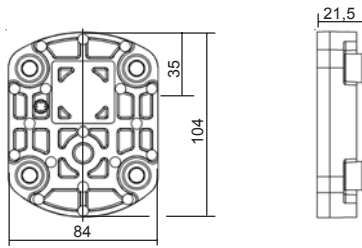
F.T 25 1335 2/4

Consult us for availability

REAR BODIES

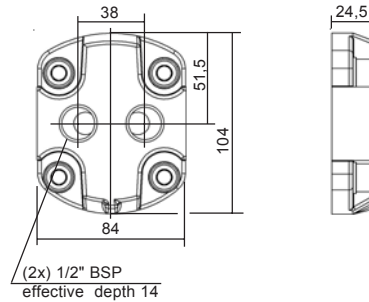
**L**

Standard



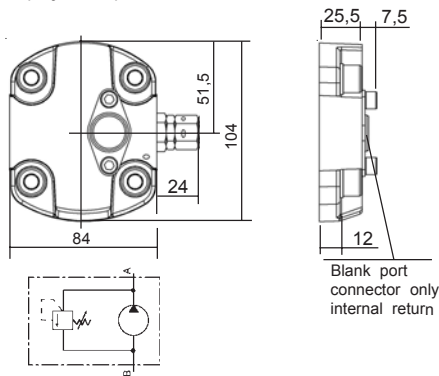
**A**

with ports



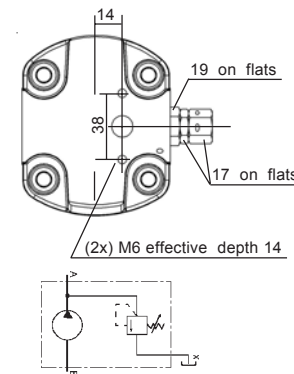
**X**

High pressure relief valve (Adjustable) Internal return



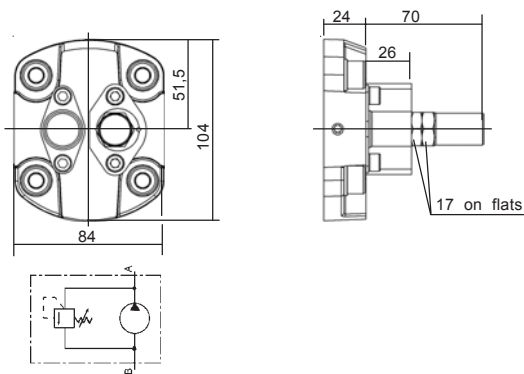
**T**

High pressure relief valve (Adjustable) External return



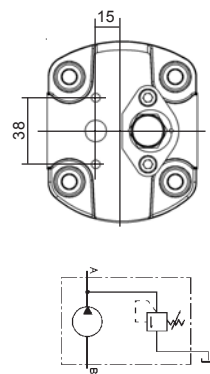
**V**

Low Pressure relief valve (Adjustable) Internal return



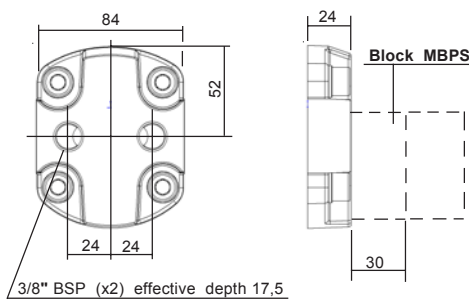
**W**

Low Pressure relief valve (Adjustable) External return



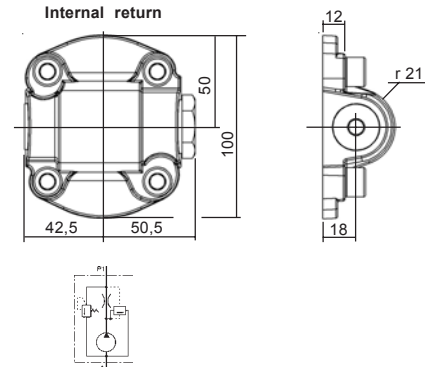
**AR**

with block configuration MBPS



**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1335 3/4

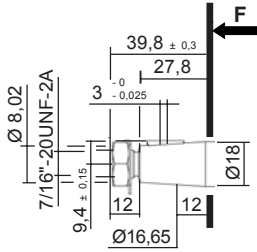
Consult us for availability

DRIVING SHAFTS

Tapered

10

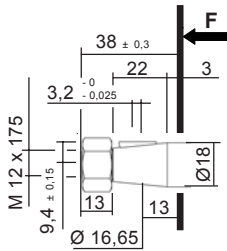
**B02** Cône 1 / 8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1 / 5



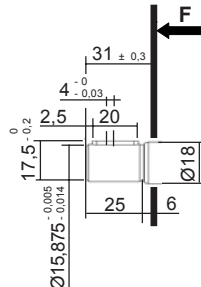
Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

Straight keyed

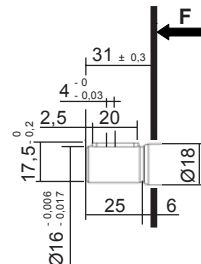
20

**A01**



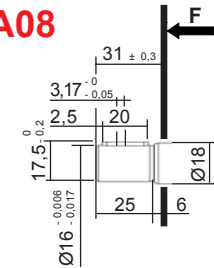
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

**A08**

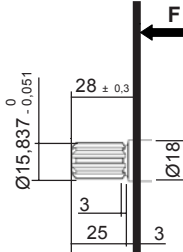


Maxi transmissible torque  
**50 N.m**

Splined

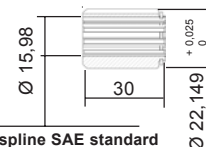
30

**A01**



Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle  
Maxi transmissible torque  
**100 N.m**

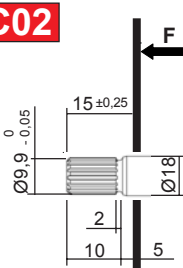
Sleeve coupling 9 teeth / 13 teeth  
Ref.: **K.5041310**  
Mounting with splinned shaft 30 A01



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

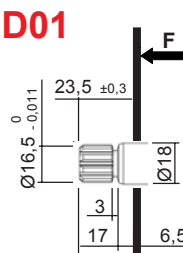
**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

**D01**



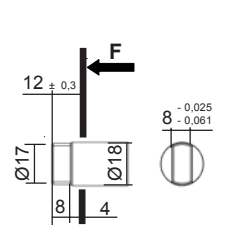
Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

Tang

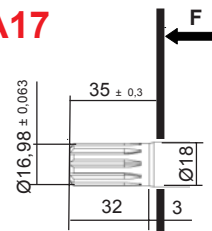
40

**C03**



Maxi transmissible torque  
**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque  
**100 N.m**

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1335 4/4

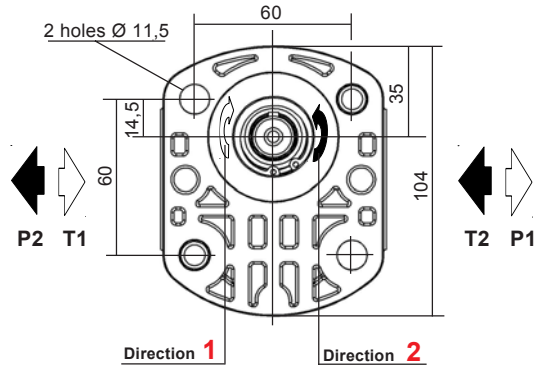
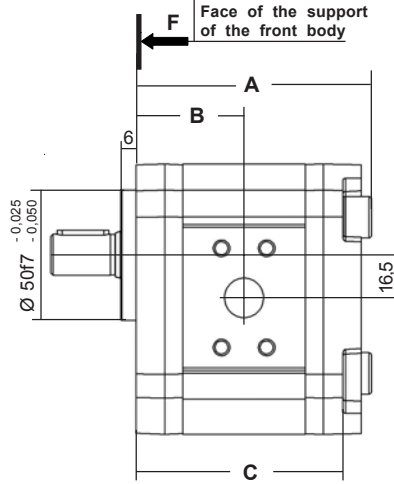
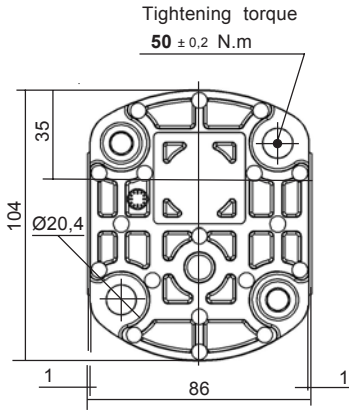
Consult us for availability





**P** **II** **DCN** **25** **VI** **HL** **IX** **X** **XI** **XII**  
Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |    |     |
|------------------------|------------|----|-----|
|                        | A          | B  | C   |
| 12                     | 105        | 49 | 94  |
| 15 - 17 - 18 - 22      | 121        | 57 | 110 |

Multiples geared pumps, see data sheet **F.T 25 1313**

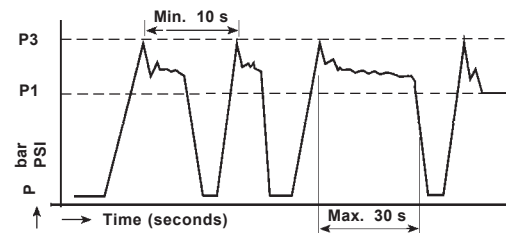
Seal kits:  
Nitrile: **K5069890**  
Viton: **K5069820**  
(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|---|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |   |                                 |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |   |                                 |                      |
| <b>2512</b> | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35  | 22,45                           | 2,3                  |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04  | 29,03                           | 2,6                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39  | 32,36                           | 2,7                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75  | 35,77                           | 2,7                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48  | 42,78                           | 2,8                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

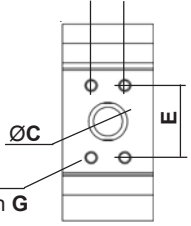
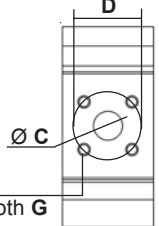
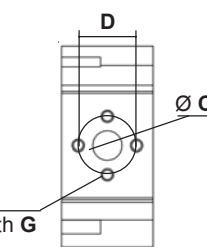
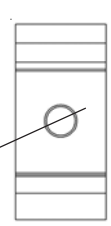
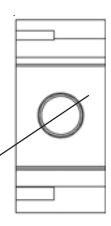
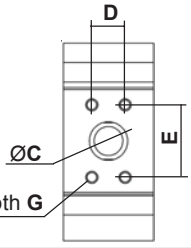
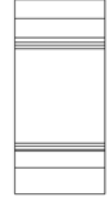
P3 Allowable peak pressure.



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Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity   | INLET (T)                  |      |      |                           |    | OUTLET (P) |      |    |                           |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |
|---|--|----------------------------|------|------|---------------------------|----|------------|------|----|---------------------------|----|--|--|
|   |  | ØC                         | D    | E    | ØF                        | G  | ØC         | D    | E  | ØF                        | G  | INLET (T)  | OUTLET (P)   |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M6                        | 12 | 15         | 17,4 | 38 | M6                        | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                               | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                         |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 20                         | 40   |      | M6                        | 12 | 15         | 35   |    | M6                        | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>   | <p>1 / 2 " BSP<br/>N: 367141.703</p>                                       |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 23,5                       | 40   |      | M8                        | 13 | 15         | 30   |    | M6                        | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101<br/>3 / 4 " BSP<br/>N: X.367508.102</p>   | <p>3 / 8 " BSP<br/>N: X.367508.201<br/>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1" Gaz                    | 18 |            |      |    | 1/2" Gaz                  | 14 |  |  |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 7/8"<br>14<br>UNF<br>2B   | 17 |  |  |
|   |  |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 1"1/16<br>12<br>UNF<br>2B | 20 |  |  |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |  |  |
|   |  | 26                         | 52,4 | 26,2 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |  |  |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | Only with rear body Type A |      |      |                           |    |            |      |    |                           |    |  |  |

Dimensions readings and approximative characteristics subject to modifications.

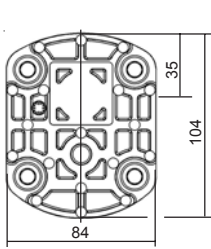
F.T 25 1312 2/4

Consult us for availability

REAR BODIES

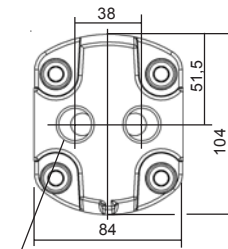
**L**

Standard



**A**

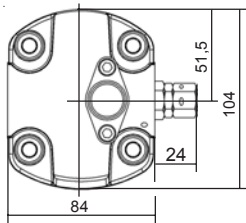
with ports



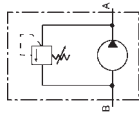
(2x) 1/2" BSP  
effective depth 14

**X**

High pressure relief valve  
(Adjustable) Internal return

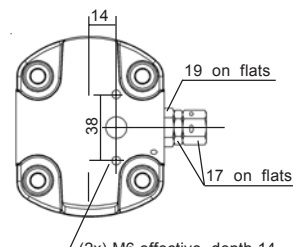


Blank port  
connector only  
internal return

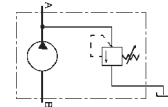


**T**

High pressure relief valve  
(Adjustable) External return

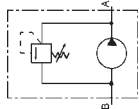
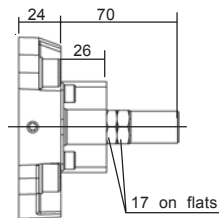
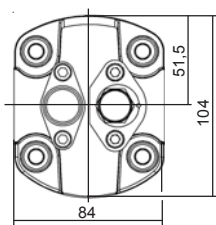


(2x) M6 effective depth 14



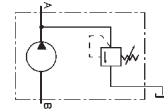
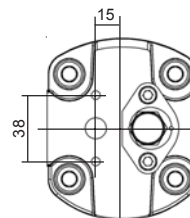
**V**

Low Pressure relief valve  
(Adjustable) Internal return



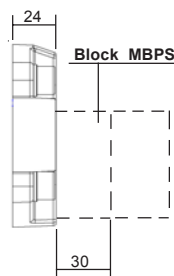
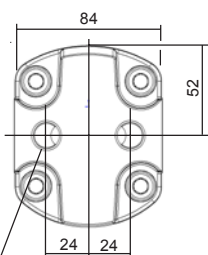
**W**

Low Pressure relief valve  
(Adjustable) External return



**AR**

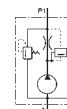
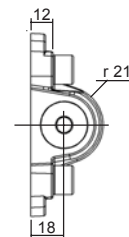
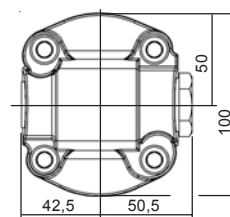
with block configuration MBPS



3/8" BSP (x2) effective depth 17,5

**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1312 3/4**

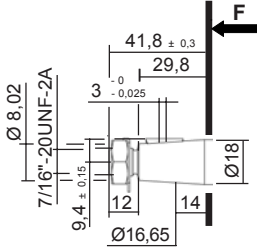
Consult us for availability

DRIVING SHAFTS

Tapered

10

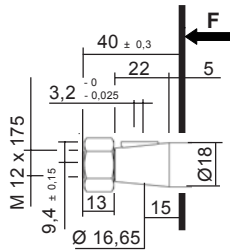
**B02** Cône 1 / 8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1 / 5



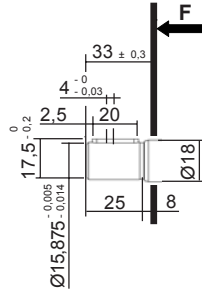
Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

Straight keyed

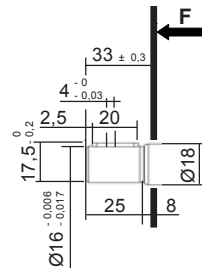
20

**A01**



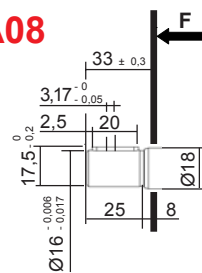
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

**A08**

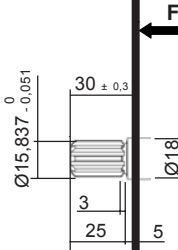


Maxi transmissible torque  
**50 N.m**

Splined

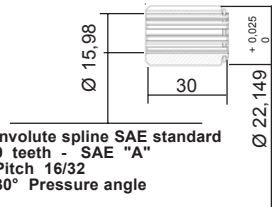
30

**A01**



Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle  
Maxi transmissible torque  
**100 N.m**

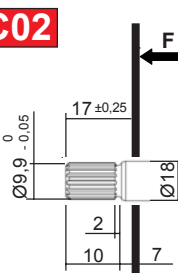
Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310  
Mounting with splinned shaft 30 A01



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

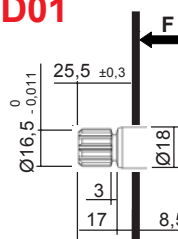
**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

**D01**



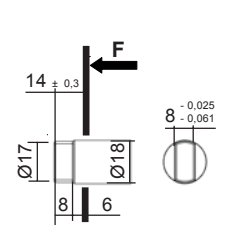
Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

Maxi transmissible torque  
**100 N.m**

Tang

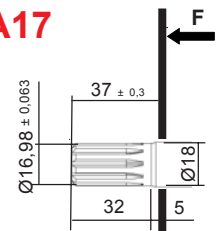
40

**C03**



Maxi transmissible torque  
**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque  
**100 N.m**

Consult us for availability

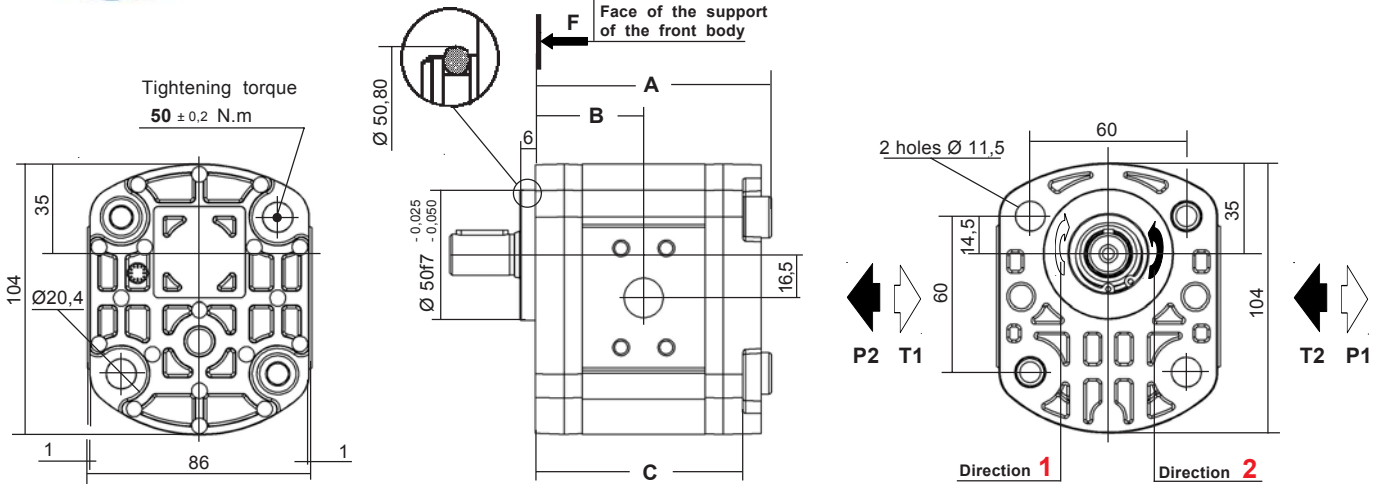
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1312 4/4



**P** II Sign **DC K 2 5** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



| CHOICE of the Capacity | Dimensions |    |     |
|------------------------|------------|----|-----|
|                        | A          | B  | C   |
| 12                     | 105        | 49 | 94  |
| 15 - 17 - 18 - 22      | 121        | 57 | 110 |

Multiples geared pumps, see data sheet **F.T 20 1306**

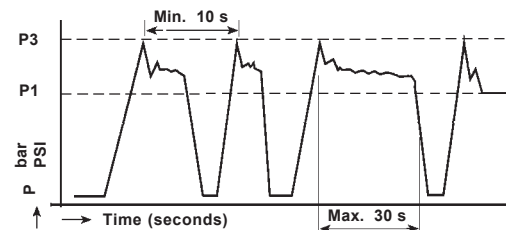
Seal kits:  
Nitrile: **K5069890 + K101513**  
Viton: **K5069820 + K101326**  
(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW           |                          | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|------------------------|--------------------------|--|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM<br>l / min | at Max. speed<br>l / min |  |                                 |                      |
|             |                      | <b>2512</b>   | 12   | 300                  | 4350 |                   | 255                    | 3697                     |  |                                 |                      |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25                  | 52,5                     | 3,04                                     | 29,03                           | 2,6                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95                  | 60,55                    | 3,39                                     | 32,36                           | 2,7                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65                  | 66,8                     | 3,75                                     | 35,77                           | 2,7                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2                   | 79,8                     | 4,48                                     | 42,78                           | 2,8                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.

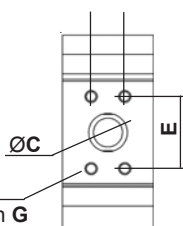
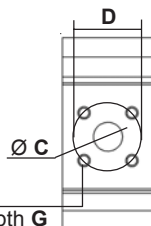
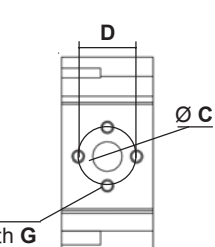
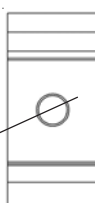
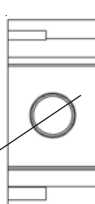
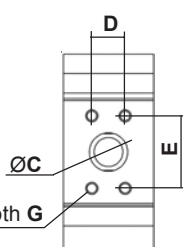



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1336 1/4

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity   | INLET (T)                  |      |      |                        |    | OUTLET (P) |      |    |                        |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |
|---|--|----------------------------|------|------|------------------------|----|------------|------|----|------------------------|----|--|--|
|   |  | ØC                         | D    | E    | ØF                     | G  | ØC         | D    | E  | ØF                     | G  | INLET (T)  | OUTLET (P)   |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M6                     | 12 | 15         | 17,4 | 38 | M6                     | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                               | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                         |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 20                         | 40   |      | M6                     | 12 | 15         | 35   |    | M6                     | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>   | <p>1 / 2 " BSP<br/>N: 367141.703</p>                                       |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 23,5                       | 40   |      | M8                     | 13 | 15         | 30   |    | M6                     | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101<br/>3 / 4 " BSP<br/>N: X.367508.102</p>   | <p>3 / 8 " BSP<br/>N: X.367508.201<br/>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1" Gaz                 | 18 |            |      |    | 1/2" Gaz               | 14 |  |  |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    | 7/8"<br>14 UNF<br>2B   | 17 |  |  |
|   |  |                            |      |      | 1"5/16<br>12 UNF<br>2B | 20 |            |      |    | 1"1/16<br>12 UNF<br>2B | 20 |  |  |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10                    | 14 | 15         | 17,4 | 38 | M8                     | 14 |  |  |
|   |  | 26                         | 52,4 | 26,2 | M10                    | 14 | 15         | 17,4 | 38 | M8                     | 14 |  |  |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | Only with rear body Type A |      |      |                        |    |            |      |    |                        |    |  |  |

Dimensions readings and approximative characteristics subject to modifications.

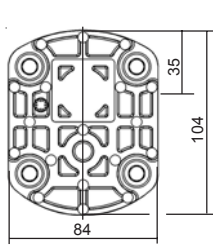
F.T 25 1336 2/4

Consult us for availability

REAR BODIES

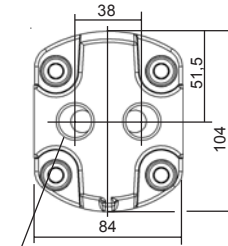
**L**

Standard



**A**

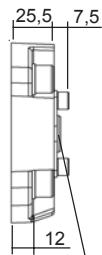
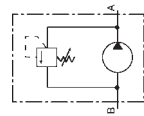
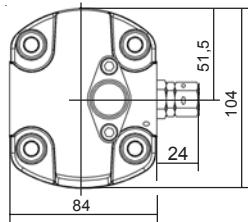
with ports



(2x) 1/2" BSP  
effective depth 14

**X**

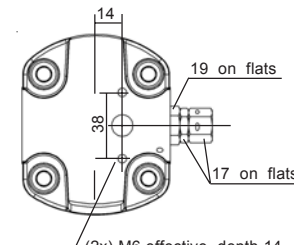
High pressure relief valve  
(Adjustable) Internal return



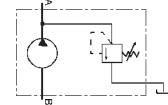
Blank port  
connector only  
internal return

**T**

High pressure relief valve  
(Adjustable) External return

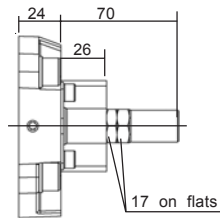
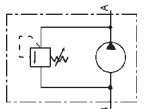
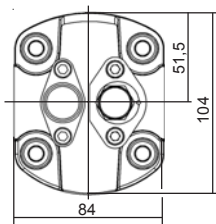


(2x) M6 effective depth 14



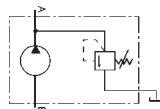
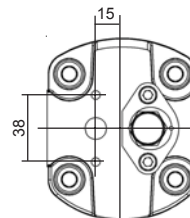
**V**

Low Pressure relief valve  
(Adjustable) Internal return



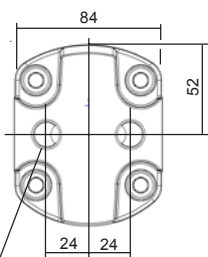
**W**

Low Pressure relief valve  
(Adjustable) External return

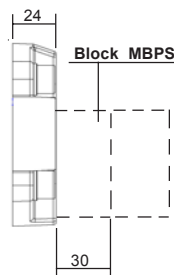


**AR**

with block configuration MBPS

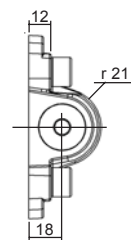
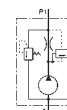
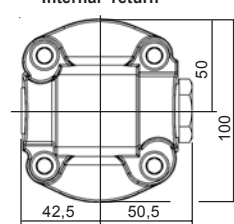


3/8" BSP (x2) effective depth 17,5



**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

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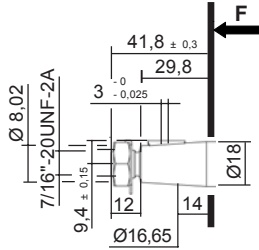
Consult us for availability

DRIVING SHAFTS

Tapered

10

**B02** Cône 1 / 8

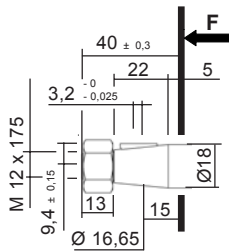


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

**C02** Cône 1 / 5



Delivered with nut: K106317

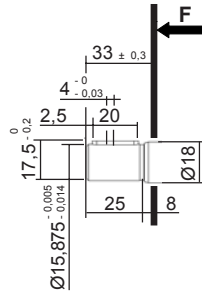
Maxi transmissible torque

220 N.m

Straight keyed

20

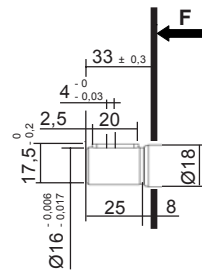
**A01**



Maxi transmissible torque

50 N.m

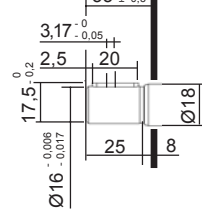
**C02**



Maxi transmissible torque

50 N.m

**A08**



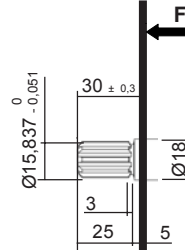
Maxi transmissible torque

50 N.m

Splined

30

**A01**

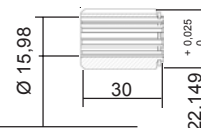


Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle

Maxi transmissible torque

100 N.m

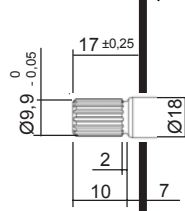
Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310  
Mounting with splined shaft 30 A01



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

**C02**

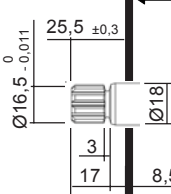


Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque

100 N.m

**D01**



Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks

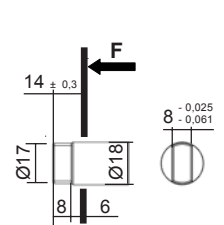
Maxi transmissible torque

100 N.m

Tang

40

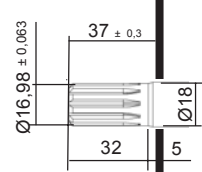
**C03**



Maxi transmissible torque

70 N.m

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle

Maxi transmissible torque

100 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1336 4/4

  Consult us for availability

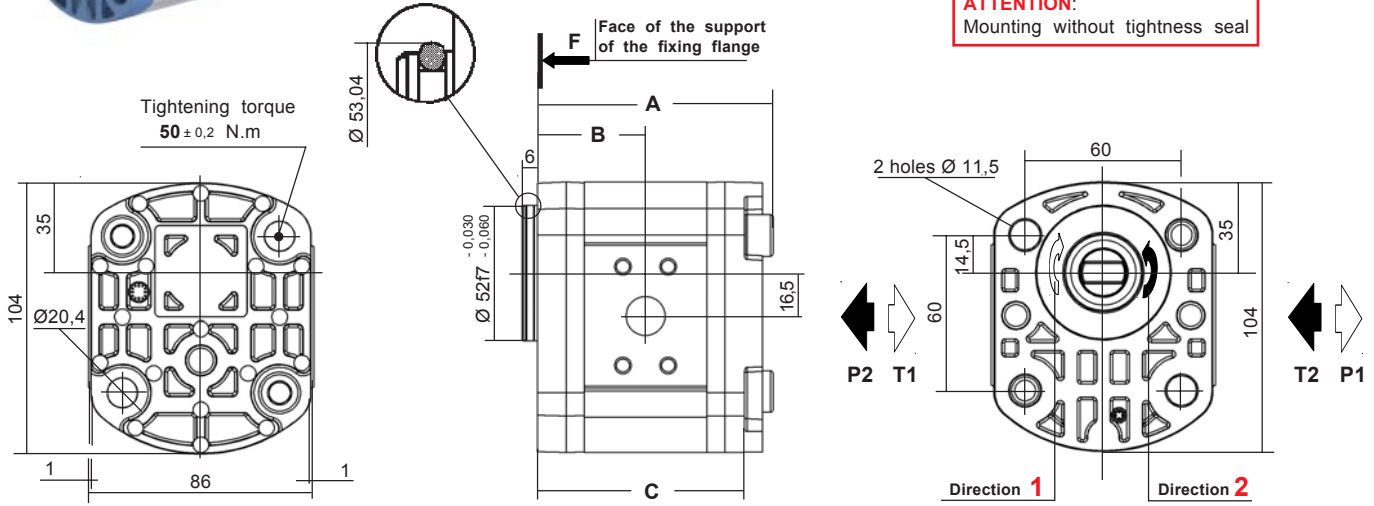




**P** II Sign **DUK 25** VI Sign **HL 40 D02** XII Sign

For CODIFICATION, see data sheet **F.T R 0011**

**ATTENTION:**  
Mounting without tightness seal



| CHOICE of the Capacity | Dimensions |    |     |
|------------------------|------------|----|-----|
|                        | A          | B  | C   |
| 12                     | 105        | 49 | 94  |
| 15 - 17 - 18 - 22      | 121        | 57 | 110 |

Multiples geared pumps, see data sheet **F.T 20 1306**

**Seal kits:**

Nitrile: **K5069830 + K102539**

Viton: **K5069840 + K107013**

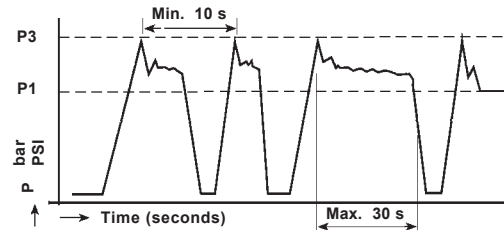
(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                 |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| <b>2512</b> | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35                                     | 22,45                           | 2,3                  |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04                                     | 29,03                           | 2,6                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39                                     | 32,36                           | 2,7                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75                                     | 35,77                           | 2,7                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48                                     | 42,78                           | 2,8                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.

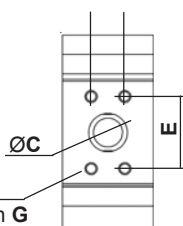
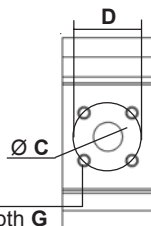
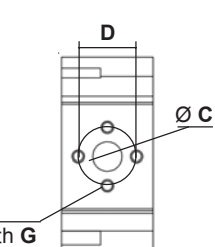
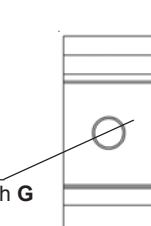
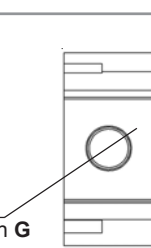
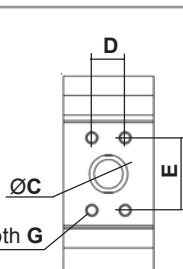
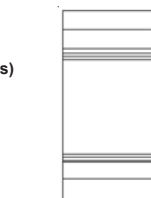


Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1338 1/4**

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity   | INLET (T)                  |      |      |     |    | OUTLET (P) |      |                           |                           |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |    |
|---|--|----------------------------|------|------|-----|----|------------|------|---------------------------|---------------------------|----|--|--|----|
|   |  | ØC                         | D    | E    | ØF  | G  | ØC         | D    | E                         | ØF                        | G  | INLET (T)  | OUTLET (P)   |    |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M6  | 12 | 15         | 17,4 | 38                        | M6                        | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                               | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                         |    |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 20                         | 40   |      | M6  | 12 | 15         | 35   |                           | M6                        | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>   | <p>1 / 2 " BSP<br/>N: 367141.703</p>                                       |    |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 23,5                       | 40   |      | M8  | 13 | 15         | 30   |                           | M6                        | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101<br/>3 / 4 " BSP<br/>N: X.367508.102</p>   | <p>3 / 8 " BSP<br/>N: X.367508.201<br/>1 / 2 " BSP<br/>N: X.367508.202</p> |    |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      |     |    |            |      | 1" Gaz                    | 18                        |    | 1/2" Gaz   | 14   |    |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      |     |    |            |      | 1"5/16<br>12<br>UNF<br>2B | 20                        |    | 7/8"<br>14<br>UNF<br>2B  | 17   |    |
|   |  |                            |      |      |     |    |            |      |                           | 1"5/16<br>12<br>UNF<br>2B | 20 |  | 1"1/16<br>12<br>UNF<br>2B  | 20 |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10 | 14 | 15         | 17,4 | 38                        | M8                        | 14 |  |  |    |
|   |  | 26                         | 52,4 | 26,2 | M10 | 14 | 15         | 17,4 | 38                        | M8                        | 14 |  |  |    |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | Only with rear body Type A |      |      |     |    |            |      |                           |                           |    |  |  |    |

Dimensions readings and approximative characteristics subject to modifications.

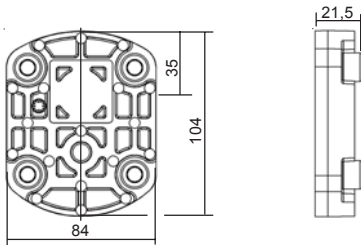
F.T 25 1338 2/4

Consult us for availability

REAR BODIES

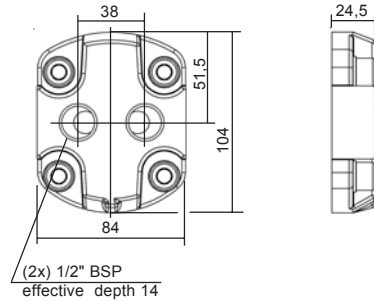
**L**

Standard



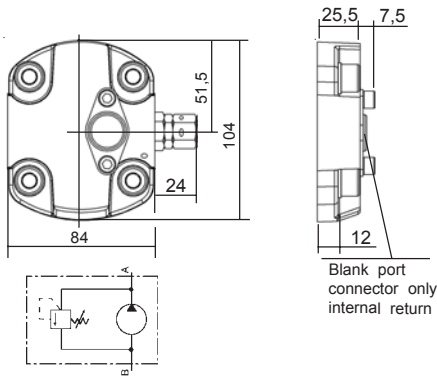
**A**

with ports



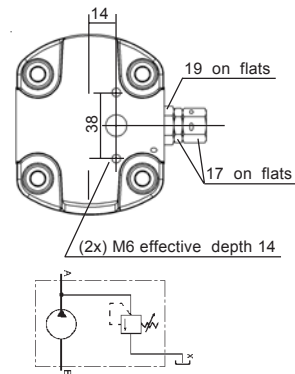
**X**

High pressure relief valve  
(Adjustable) Internal return



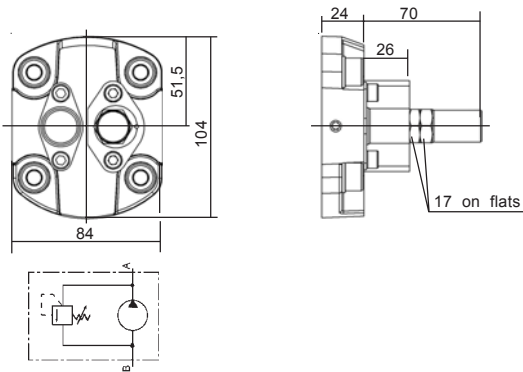
**T**

High pressure relief valve  
(Adjustable) External return



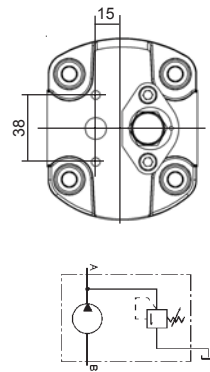
**V**

Low Pressure relief valve  
(Adjustable) Internal return



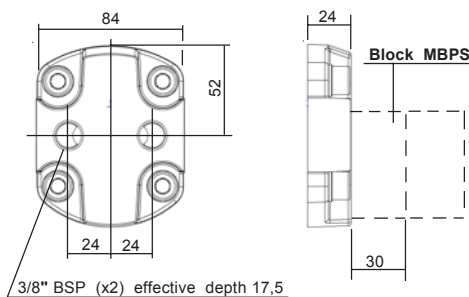
**W**

Low Pressure relief valve  
(Adjustable) External return



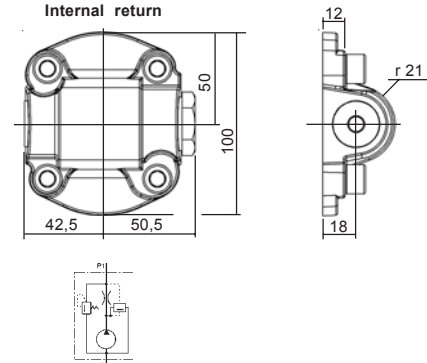
**AR**

with block configuration MBPS



**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

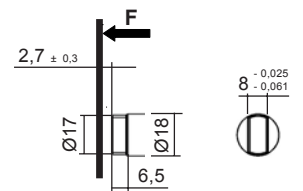
F.T 25 1338 3/4

Consult us for availability

DRIVING SHAFT (DUK)

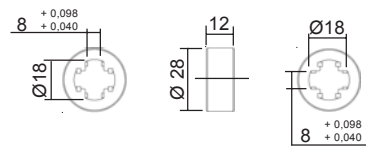
| Tapered   | Straight keyed | Splined   | Tang      |
|-----------|----------------|-----------|-----------|
| <b>10</b> | <b>20</b>      | <b>30</b> | <b>40</b> |

**D02**



**Max tightening torque**  
**70 N.m**

Coupling on request: Ref. K102947



Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1338 4/4**

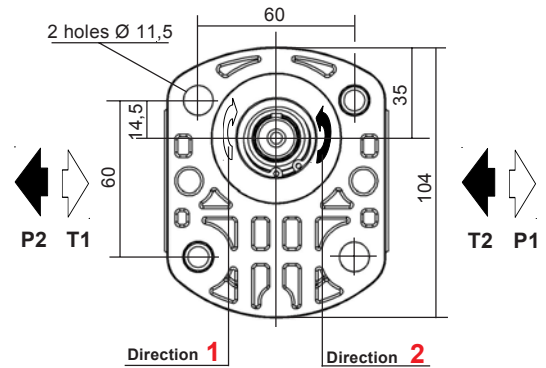
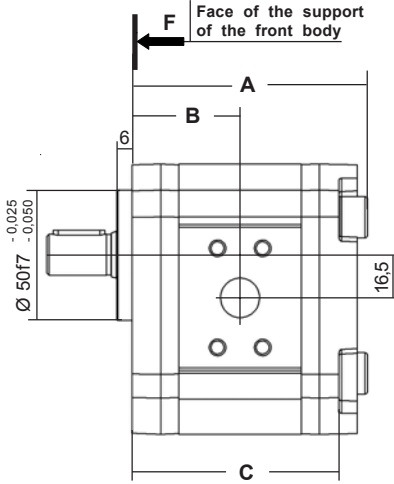
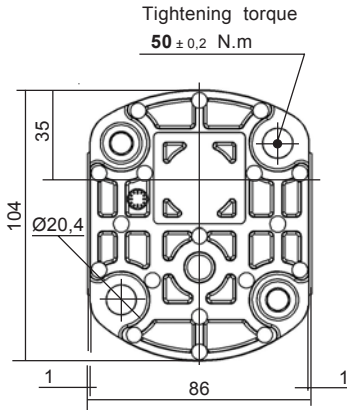


Consult us for availability



**P** **II** Sign **DW** **N** **2 5** **VI** Sign **H** **L** **IX** Sign **X** Sign **XI** Sign **XII** Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity   | Dimensions |    |     |
|--------------------------|------------|----|-----|
|                          | A          | B  | C   |
| <b>12</b>                | 105        | 49 | 94  |
| <b>15 - 17 - 18 - 22</b> | 121        | 57 | 110 |

Multiples geared pumps, see data sheet **F.T 20 1306**

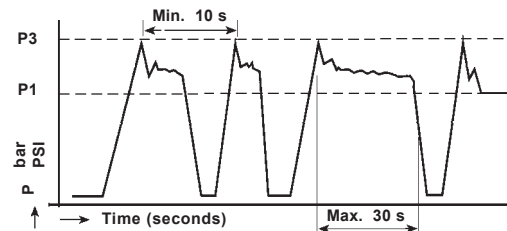
Seal kits:  
Nitrile: **K5069890**  
Viton: **K5069820**  
(For the manufacturings from January 1984)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|---|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |   |                                 |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |   |                                 |                      |
| <b>2512</b> | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35  | 22,45                           | 2,3                  |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04  | 29,03                           | 2,6                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39  | 32,36                           | 2,7                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75  | 35,77                           | 2,7                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48  | 42,78                           | 2,8                  |

**P1** Maximum pressure in continuous duty.

Maximum Pressure ⇒

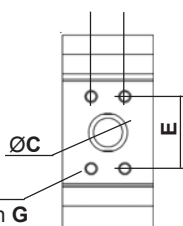
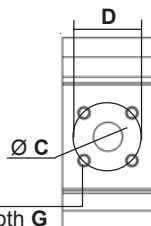
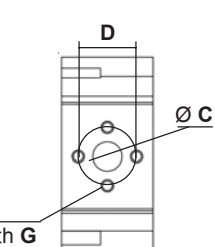
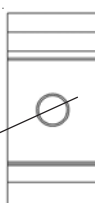
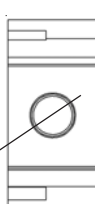
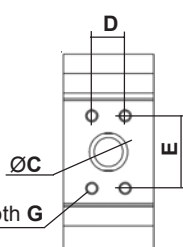

**P3** Allowable peak pressure.



**F.T 25 1337 1/4**

**Consult us for availability**

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity   | INLET (T)                  |      |      |                           |    | OUTLET (P) |      |    |                           |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |
|---|--|----------------------------|------|------|---------------------------|----|------------|------|----|---------------------------|----|--|--|
|   |  | ØC                         | D    | E    | ØF                        | G  | ØC         | D    | E  | ØF                        | G  | INLET (T)  | OUTLET (P)   |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M6                        | 12 | 15         | 17,4 | 38 | M6                        | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                               | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                         |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 20                         | 40   |      | M6                        | 12 | 15         | 35   |    | M6                        | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>   | <p>1 / 2 " BSP<br/>N: 367141.703</p>                                       |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 23,5                       | 40   |      | M8                        | 13 | 15         | 30   |    | M6                        | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101<br/>3 / 4 " BSP<br/>N: X.367508.102</p>   | <p>3 / 8 " BSP<br/>N: X.367508.201<br/>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1" Gaz                    | 18 |            |      |    | 1/2" Gaz                  | 14 |  |  |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 7/8"<br>14<br>UNF<br>2B   | 17 |  |  |
|   |  |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 1"1/16<br>12<br>UNF<br>2B | 20 |  |  |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |  |  |
|   |  | 26                         | 52,4 | 26,2 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |  |  |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | Only with rear body Type A |      |      |                           |    |            |      |    |                           |    |  |  |

Dimensions readings and approximative characteristics subject to modifications.

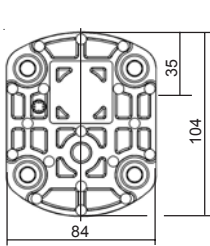
F.T 25 1337 2/4

Consult us for availability

**REAR BODIES**

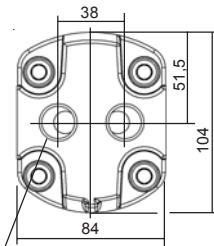
**L**

Standard



**A**

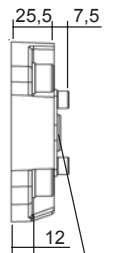
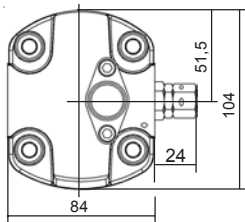
with ports



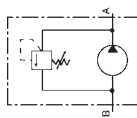
(2x) 1/2" BSP  
effective depth 14

**X**

High pressure relief valve  
(Adjustable) Internal return

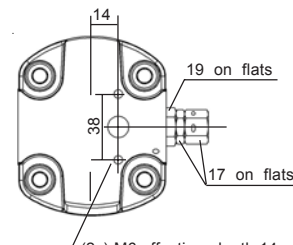


Blank port  
connector only  
internal return

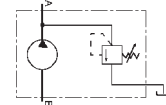


**T**

High pressure relief valve  
(Adjustable) External return

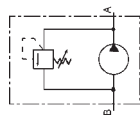
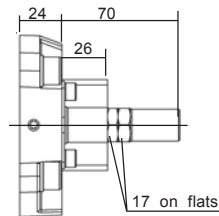
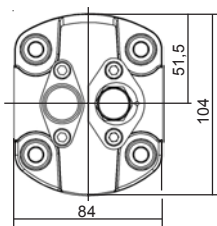


(2x) M6 effective depth 14



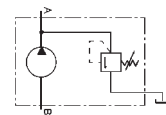
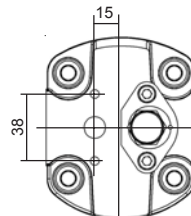
**V**

Low Pressure relief valve  
(Adjustable) Internal return



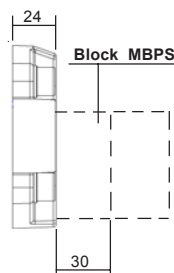
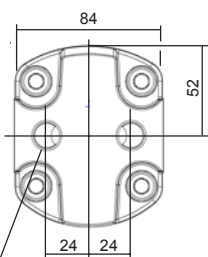
**W**

Low Pressure relief valve  
(Adjustable) External return



**AR**

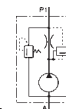
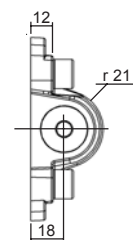
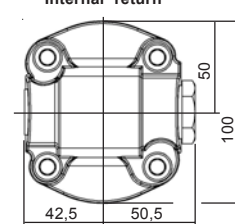
with block configuration MBPS



3/8" BSP (x2) effective depth 17,5

**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

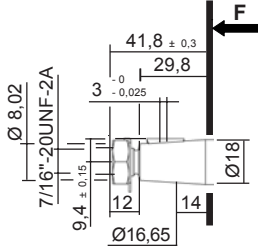
**F.T 25 1337 3/4**

**Consult us for availability**

DRIVING SHAFTS

**Tapered**  
**10**

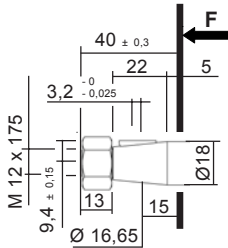
**B02** Cône 1 / 8



Delivered with nut: K100841

Maxi transmissible torque  
**250 N.m**

**C02** Cône 1 / 5

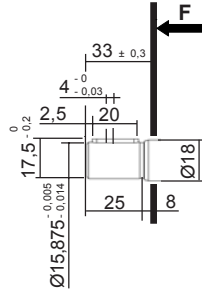


Delivered with nut: K106317

Maxi transmissible torque  
**220 N.m**

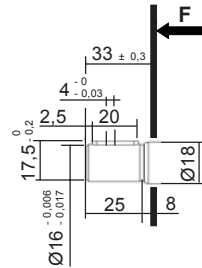
**Straight keyed**  
**20**

**A01**



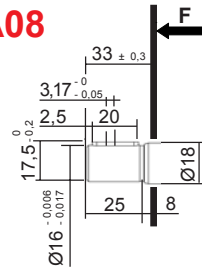
Maxi transmissible torque  
**50 N.m**

**C02**



Maxi transmissible torque  
**50 N.m**

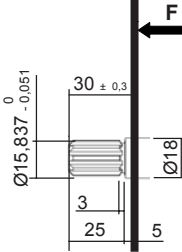
**A08**



Maxi transmissible torque  
**50 N.m**

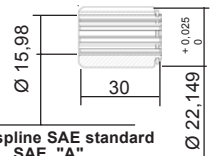
**Splined**  
**30**

**A01**



Involute spline SAE Standard  
9 teeth - Pitch 16/32 - Flat root  
30° Pressure angle  
Maxi transmissible torque  
**100 N.m**

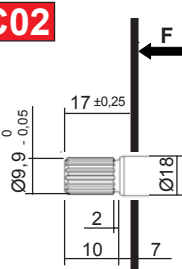
Sleeve coupling 9 teeth / 13 teeth  
Ref.: K.5041310  
Mounting with splinned shaft 30 A01



Involute spline SAE standard  
9 teeth - SAE "A"  
Pitch 16/32  
30° Pressure angle

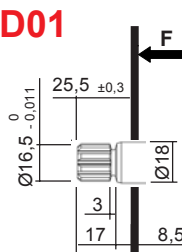
Involute spline SAE Standard  
13 teeth - SAE "B"  
Pitch 16/32  
30° Pressure angle

**C02**



Involute spline shaft 17x15x1  
Standard NF E 22 141 - BNA 455  
Spigot on free flanks  
Maxi transmissible torque  
**100 N.m**

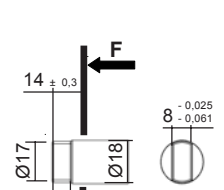
**D01**



Involute spline shaft B 17 x 14  
9 teeth - Standard DIN 5482 - Module 1,6  
Spigot on free flanks  
Maxi transmissible torque  
**100 N.m**

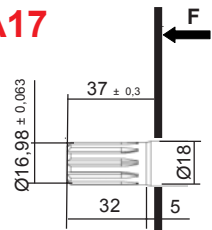
**Tang**  
**40**

**C03**



Maxi transmissible torque  
**70 N.m**

**A17**



Involute spline SAE Standard  
10 teeth - Pitch 16/32 - Flat root  
20° Pressure angle  
Maxi transmissible torque  
**100 N.m**

Dimensions readings and approximative characteristics subject to modifications.

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Consult us for availability

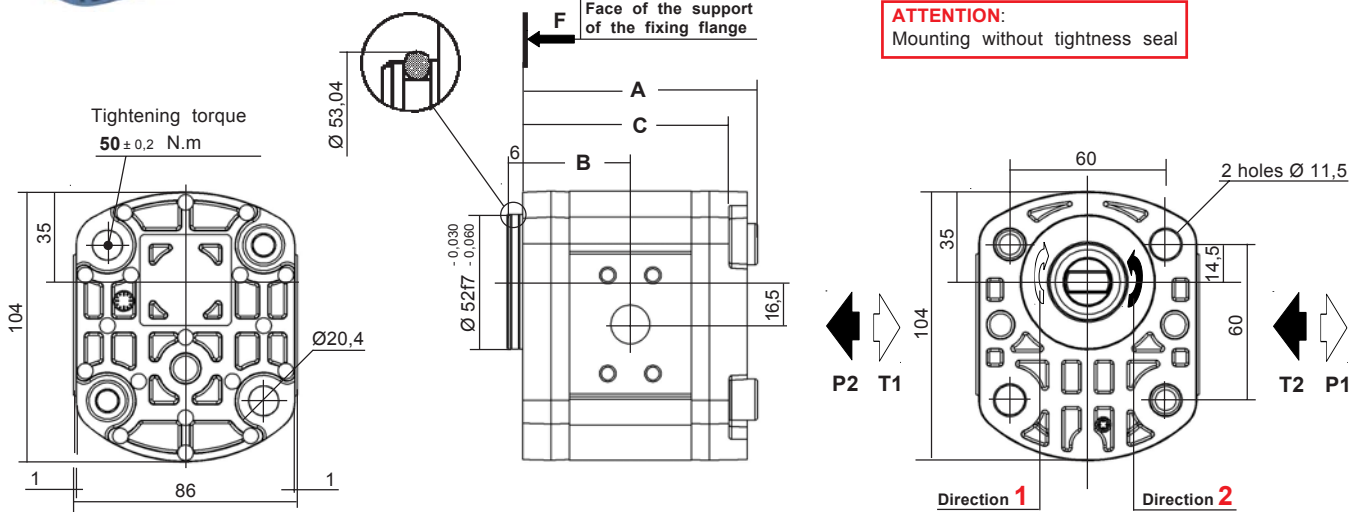




**P** II Sign **DZ K 2 5** VI Sign **H L 4 0 D 02** XII Sign

For CODIFICATION, see data sheet **F.T R 0011**

**ATTENTION:**  
Mounting without tightness seal



| CHOICE of the Capacity | Dimensions |    |     |
|------------------------|------------|----|-----|
|                        | A          | B  | C   |
| 12                     | 105        | 49 | 94  |
| 15 - 17 - 18 - 22      | 121        | 57 | 110 |

Multiples geared pumps, see data sheet **F.T 20 1306**

**Seal kits:**

Nitrile: **K5069830 + K102539**

Viton: **K5069840 + K107013**

(For the manufacturings from January 1984)

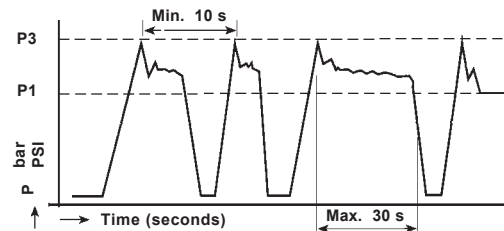
| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|---|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |   |                                 |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |   |                                 |                      |
| <b>2512</b> | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35  | 22,45                           | 2,3                  |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04  | 29,03                           | 2,6                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39  | 32,36                           | 2,7                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75  | 35,77                           | 2,7                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48  | 42,78                           | 2,8                  |

Dimensions readings and approximative characteristics subject to modifications.

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

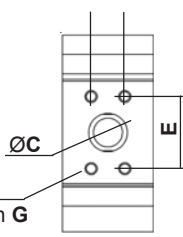
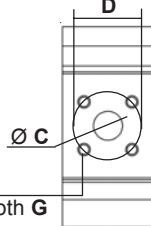
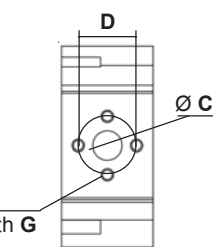
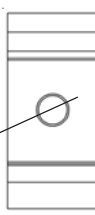
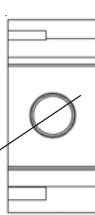
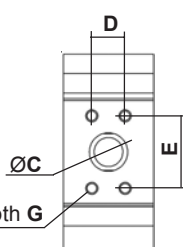

P3 Allowable peak pressure.



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Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity  | INLET (T)                  |      |      |     |                           | OUTLET (P) |      |        |    |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min)  |   |
|---|---|----------------------------|------|------|-----|---------------------------|------------|------|--------|----|----|---|---|
|   |   | ØC                         | D    | E    | ØF  | G                         | ØC         | D    | E      | ØF | G  | INLET (T)   | OUTLET (P)  |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 26                         | 47,6 | 22,4 | M6  | 12                        | 15         | 17,4 | 38     | M6 | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                                | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                            |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 20                         | 40   |      | M6  | 12                        | 15         | 35   |        | M6 | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>  | <p>1 / 2 " BSP<br/>N: 367141.703</p>  |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 23,5                       | 40   |      | M8  | 13                        | 15         | 30   |        | M6 | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101</p> <p>3 / 4 " BSP<br/>N: X.367508.102</p> | <p>3 / 8 " BSP<br/>N: X.367508.201</p> <p>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    |                            |      |      |     |                           |            |      | 1" Gaz | 18 |    | 1/2" Gaz  | 14  |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512</p> <p>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      |     | 1"5/16<br>12<br>UNF<br>2B | 20         |      |        |    |    | 7/8"<br>14<br>UNF<br>2B   | 17  |
|   |   |                            |      |      |     | 1"5/16<br>12<br>UNF<br>2B | 20         |      |        |    |    | 1"1/16<br>12<br>UNF<br>2B   | 20  |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512</p> <p>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10 | 14                        | 15         | 17,4 | 38     | M8 | 14 |   |   |
|   |   | 26                         | 52,4 | 26,2 | M10 | 14                        | 15         | 17,4 | 38     | M8 | 14 |   |   |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | Only with rear body Type A |      |      |     |                           |            |      |        |    |    |   |   |

Dimensions readings and approximative characteristics subject to modifications.

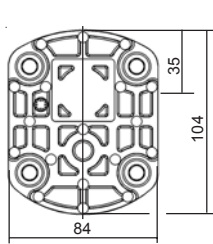
F.T 25 1362 2/4

Consult us for availability

REAR BODIES

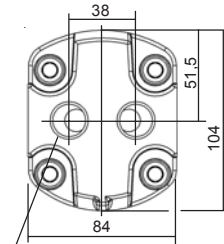
**L**

Standard



**A**

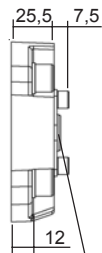
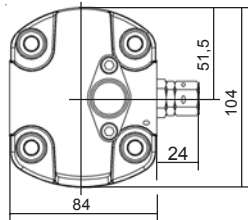
with ports



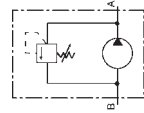
(2x) 1/2" BSP effective depth 14

**X**

High pressure relief valve (Adjustable) Internal return

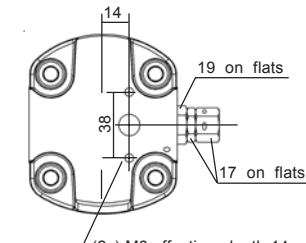


Blank port connector only internal return

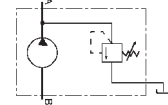


**T**

High pressure relief valve (Adjustable) External return

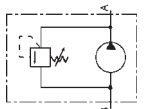
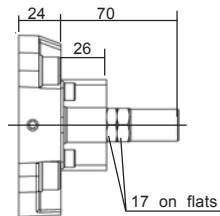
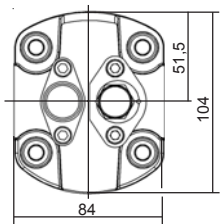


(2x) M6 effective depth 14



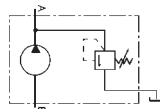
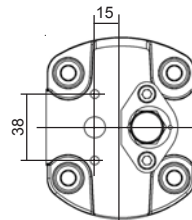
**V**

Low Pressure relief valve (Adjustable) Internal return



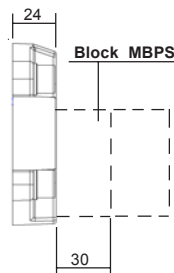
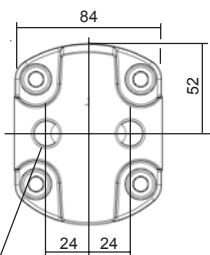
**W**

Low Pressure relief valve (Adjustable) External return



**AR**

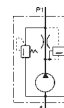
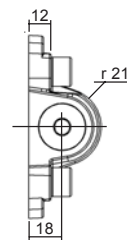
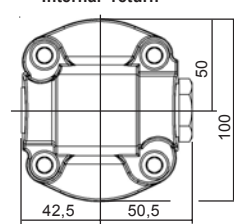
with block configuration MBPS



3/8" BSP (x2) effective depth 17,5

**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

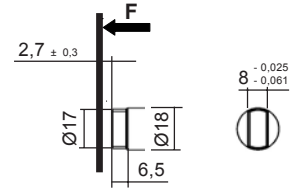
F.T 25 1362 3/4

Consult us for availability

DRIVING SHAFT (DZK)

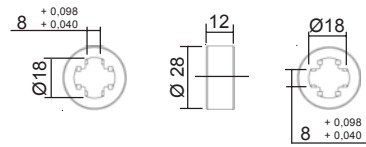
| Tapered   | Straight keyed | Splined   | Tang      |
|-----------|----------------|-----------|-----------|
| <b>10</b> | <b>20</b>      | <b>30</b> | <b>40</b> |

**D02**



**Max tightening torque**  
**70 N.m**

Coupling on request: Ref. K102947

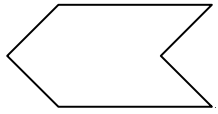


Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1362 4/4**



Consult us for availability



**PUMPS PRESENTATION**  
**SERIES 2 and 2,5**

**F.T 20 1299**

**- THICK FRONT BODIES**

**PUMP AAP**



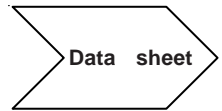
**F.T 251340**

**PUMP AAR**



**F.T 25 1342**

**PUMP ARP**



**F.T 25 1344**

**PUMP ARK**



**F.T 25 1346**



Consult us for availability

- THICK FRONT BODIES (rest)

PUMP

**DBP**



**F.T 25 1348**

PUMP

**DBR**



**F.T 25 1350**



**F.T 20 1306**

MULTIPLES  
PUMPS

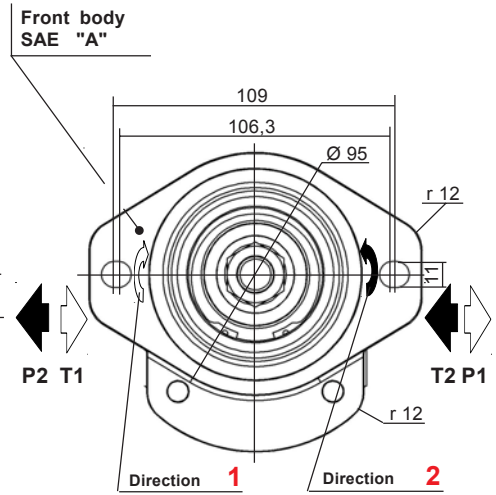
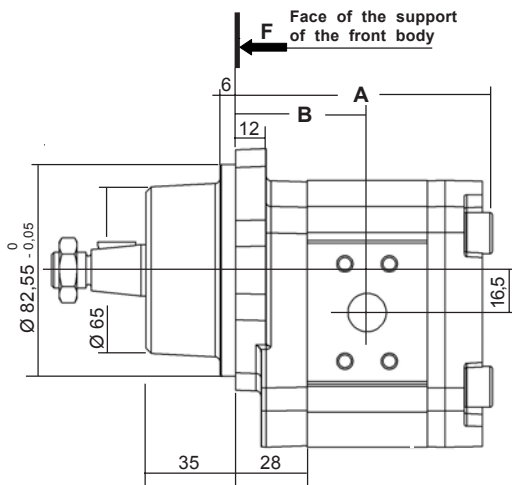
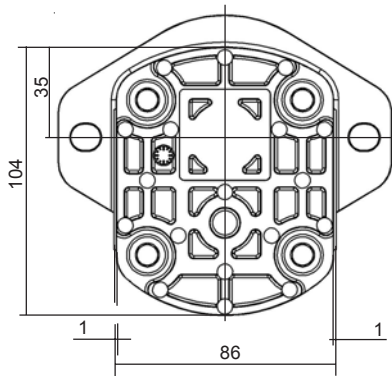


Consult us for availability



**P** II Sign **AA** **P** **25** VI Sign **H** **L** IX Sign X Sign **C03** XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |    |
|------------------------|------------|----|
|                        | A          | B  |
| 12                     | 115        | 59 |
| 15 - 17 - 18 - 22      | 131        | 67 |

Multiples geared pumps, see data sheet **F.T 20 1306**

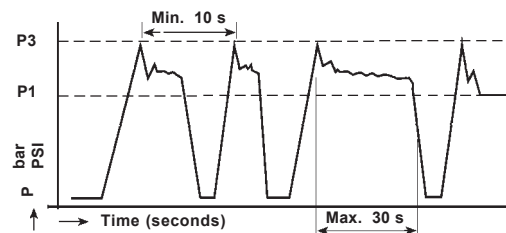
Seal kits:  
Nitrile: **K5069870 + K5069830**  
Viton: **K5069880 + K5069840**  
(For the manufacturings from february 1986)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at<br>1000 RPM<br>and<br>100 bar | Input torque<br>at<br>100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|--|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |  |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |  |                      |
| <b>2512</b> | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35   | 22,45                                    | 2,8                  |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04   | 29,03                                    | 3,1                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39   | 32,36                                    | 3,2                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75   | 35,77                                    | 3,3                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48   | 42,78                                    | 3,4                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

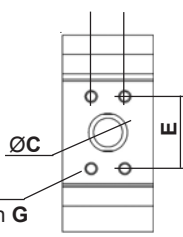
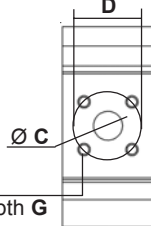
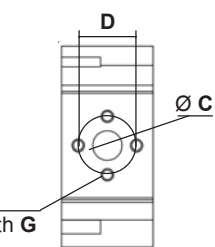
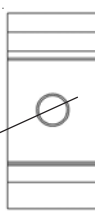
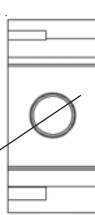
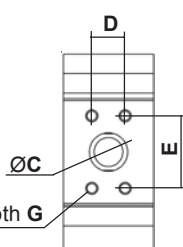

P3 Allowable peak pressure.



**F.T 25 1340 1/4**

  Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity  | INLET (T)                  |      |      |     |    | OUTLET (P) |      |                           |    |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min)  |   |
|---|---|----------------------------|------|------|-----|----|------------|------|---------------------------|----|----|---|---|
|   |   | ØC                         | D    | E    | ØF  | G  | ØC         | D    | E                         | ØF | G  | INLET (T)   | OUTLET (P)  |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 26                         | 47,6 | 22,4 | M6  | 12 | 15         | 17,4 | 38                        | M6 | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                                | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                            |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 20                         | 40   |      | M6  | 12 | 15         | 35   |                           | M6 | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>  | <p>1 / 2 " BSP<br/>N: 367141.703</p>  |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 23,5                       | 40   |      | M8  | 13 | 15         | 30   |                           | M6 | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101</p> <p>3 / 4 " BSP<br/>N: X.367508.102</p> | <p>3 / 8 " BSP<br/>N: X.367508.201</p> <p>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    |                            |      |      |     |    |            |      | 1" Gaz                    | 18 |    | 1/2" Gaz  | 14  |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512</p> <p>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      |     |    |            |      | 1"5/16<br>12<br>UNF<br>2B | 20 |    | 7/8"<br>14<br>UNF<br>2B   | 17  |
|   |   |                            |      |      |     |    |            |      |                           |    |    | 1"1/16<br>12<br>UNF<br>2B   | 20  |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512</p> <p>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10 | 14 | 15         | 17,4 | 38                        | M8 | 14 |   |   |
|   |   | 26                         | 52,4 | 26,2 | M10 | 14 | 15         | 17,4 | 38                        | M8 | 14 |   |   |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | Only with rear body Type A |      |      |     |    |            |      |                           |    |    |   |   |

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1340 2/4

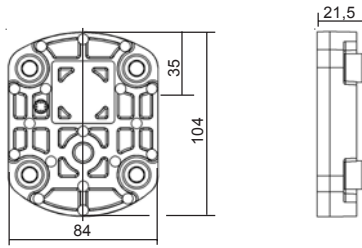
Consult us for availability



**REAR BODIES**

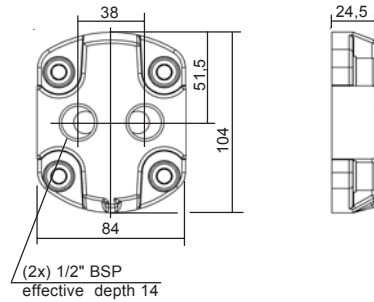
**L**

Standard



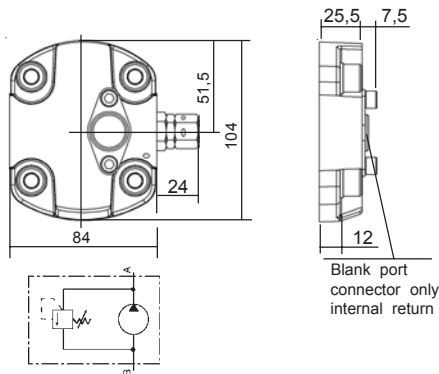
**A**

with ports



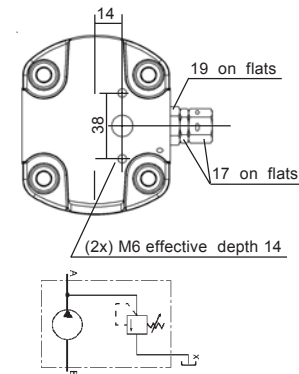
**X**

High pressure relief valve  
(Adjustable) Internal return



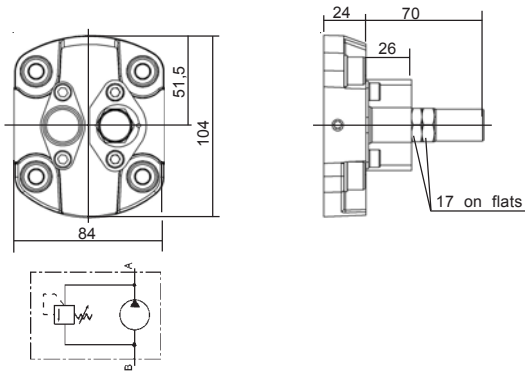
**T**

High pressure relief valve  
(Adjustable) External return



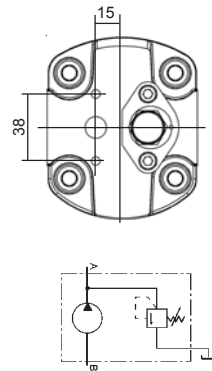
**V**

Low Pressure relief valve  
(Adjustable) Internal return



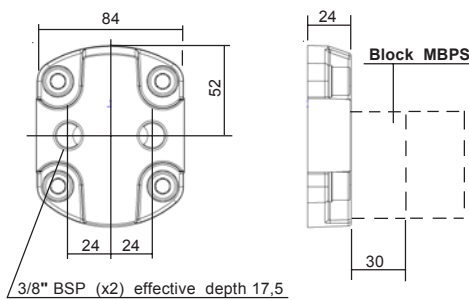
**W**

Low Pressure relief valve  
(Adjustable) External return



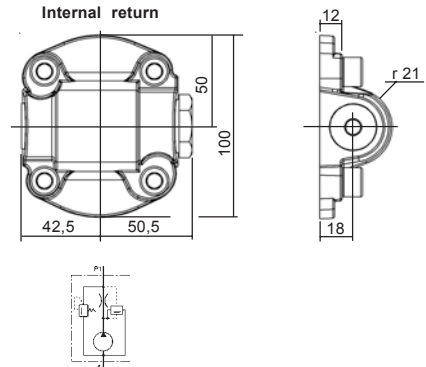
**AR**

with block configuration MBPS



**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1340 3/4**

Consult us for availability

**DRIVING SHAFTS**

Tapered

**10**

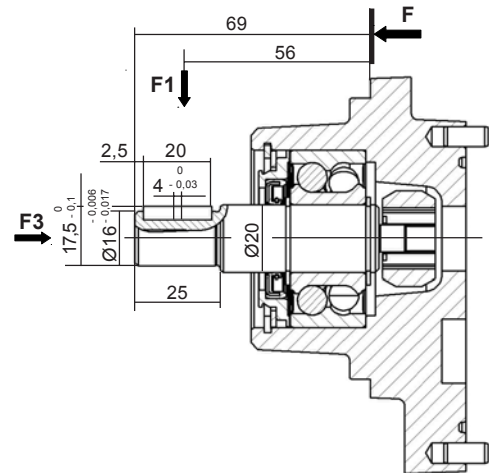
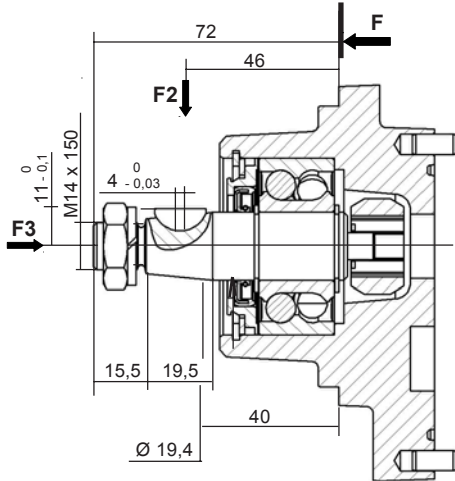
Straight keyed

**20**

**C03**

Taper 1/5

**C03**



Supplied with nut: 102 045

**F2 Maxi: 120 daN**

**F3 Maxi: 50 daN**

**Maxi transmissible torque**  
**50 N.m**

**F1 Maxi: 100 daN**

**F3 Maxi: 50 daN**

**Maxi transmissible torque**  
**50 N.m**

Dimensions readings and approximative characteristics subject to modifications.

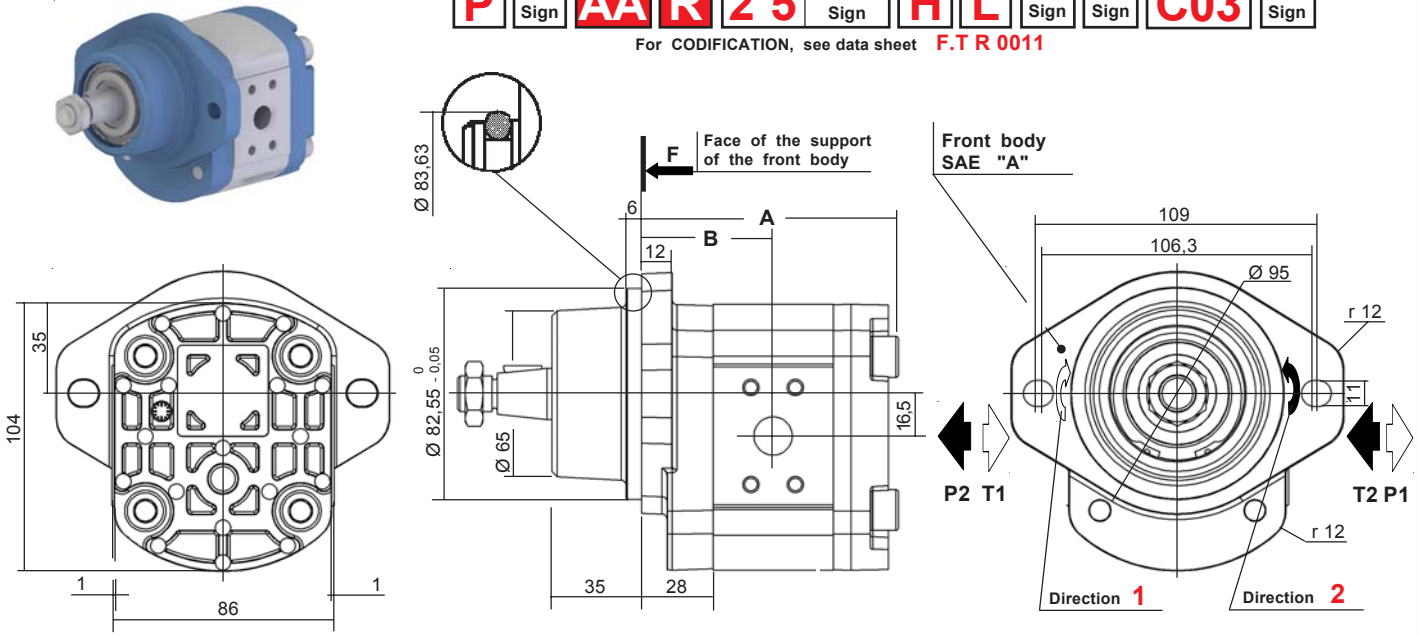
**F.T 25 1340 4/4**



Consult us for availability

**P** II Sign **AA R 2 5** VI Sign **H L** IX Sign X Sign **C03** XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |    |
|------------------------|------------|----|
|                        | A          | B  |
| 12                     | 115        | 59 |
| 15 - 17 - 18 - 22      | 131        | 67 |

Multiples geared pumps, see data sheet **F.T 20 1306**

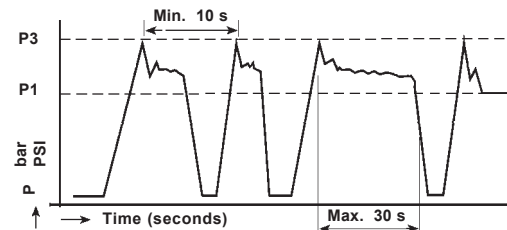
Seal kits:  
Nitrile: **K5069870 + K5069830 + K102901**  
Viton: **K5069880 + K5069840 + K104093**  
(For the manufacturings from february 1986)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                 |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| <b>2512</b> | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35                                     | 22,45                           | 2,8                  |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04                                     | 29,03                           | 3,1                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39                                     | 32,36                           | 3,2                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75                                     | 35,77                           | 3,3                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48                                     | 42,78                           | 3,4                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

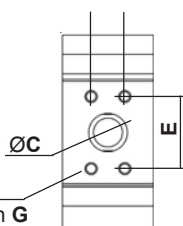
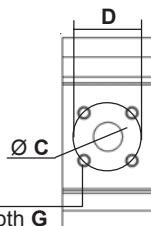
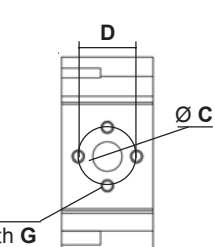
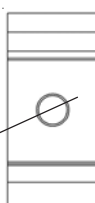
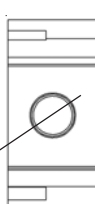
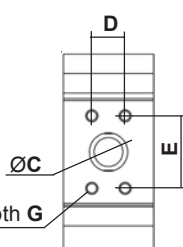

P3 Allowable peak pressure.



**F.T 25 1341 1/4**

  Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity  | INLET (T)                  |      |      |     |    | OUTLET (P) |      |                           |    |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min)  |   |
|---|---|----------------------------|------|------|-----|----|------------|------|---------------------------|----|----|---|---|
|   |   | ØC                         | D    | E    | ØF  | G  | ØC         | D    | E                         | ØF | G  | INLET (T)   | OUTLET (P)  |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 26                         | 47,6 | 22,4 | M6  | 12 | 15         | 17,4 | 38                        | M6 | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                                | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                            |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 20                         | 40   |      | M6  | 12 | 15         | 35   |                           | M6 | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>  | <p>1 / 2 " BSP<br/>N: 367141.703</p>  |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 23,5                       | 40   |      | M8  | 13 | 15         | 30   |                           | M6 | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101</p> <p>3 / 4 " BSP<br/>N: X.367508.102</p> | <p>3 / 8 " BSP<br/>N: X.367508.201</p> <p>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    |                            |      |      |     |    |            |      | 1" Gaz                    | 18 |    | 1/2" Gaz  | 14  |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512</p> <p>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      |     |    |            |      | 1"5/16<br>12<br>UNF<br>2B | 20 |    | 7/8"<br>14<br>UNF<br>2B   | 17  |
|   |   |                            |      |      |     |    |            |      |                           |    |    | 1"1/16<br>12<br>UNF<br>2B   | 20  |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512</p> <p>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10 | 14 | 15         | 17,4 | 38                        | M8 | 14 |   |   |
|   |   | 26                         | 52,4 | 26,2 | M10 | 14 | 15         | 17,4 | 38                        | M8 | 14 |   |   |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | Only with rear body Type A |      |      |     |    |            |      |                           |    |    |   |   |

Dimensions readings and approximative characteristics subject to modifications.

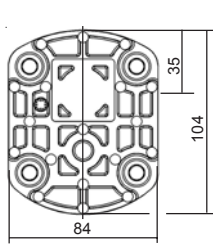
F.T 25 1341 2/4

Consult us for availability

REAR BODIES

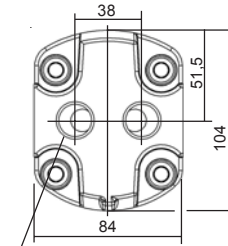
**L**

Standard



**A**

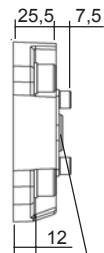
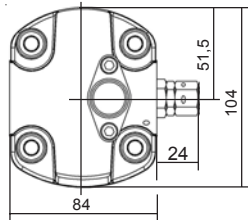
with ports



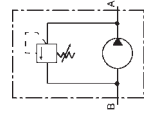
(2x) 1/2" BSP effective depth 14

**X**

High pressure relief valve (Adjustable) Internal return

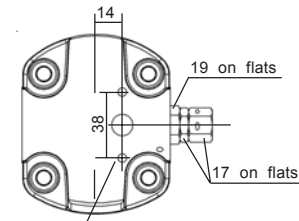


Blank port connector only internal return

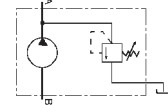


**T**

High pressure relief valve (Adjustable) External return

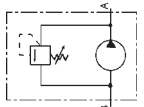
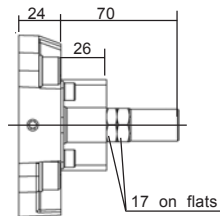
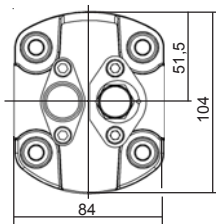


(2x) M6 effective depth 14



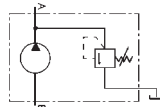
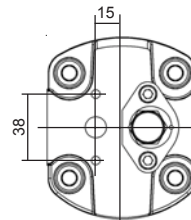
**V**

Low Pressure relief valve (Adjustable) Internal return



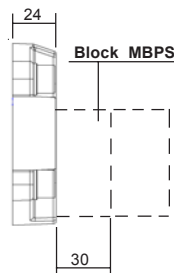
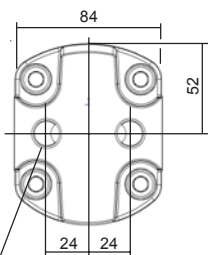
**W**

Low Pressure relief valve (Adjustable) External return



**AR**

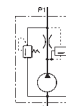
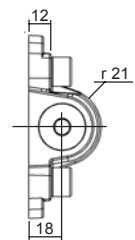
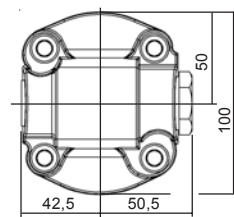
with block configuration MBPS



3/8" BSP (x2) effective depth 17,5

**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1341 3/4

Consult us for availability

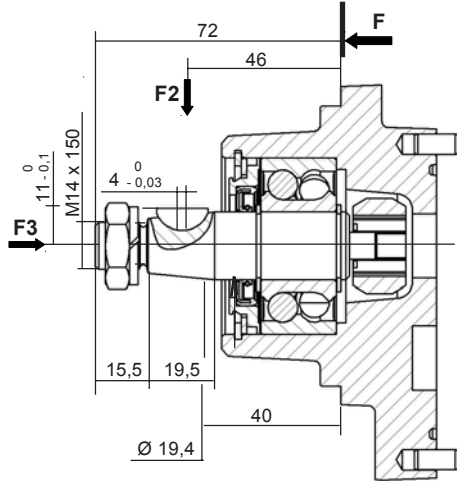
**DRIVING SHAFTS**

Tapered

**10**

**C03**

Taper 1/5



Suplied with nut: 102 045

**F2 Maxi: 120 daN**

**F3 Maxi: 50 daN**

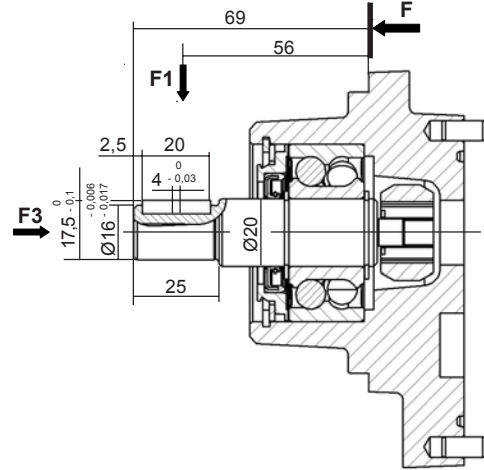
Maxi transmissible torque

**50 N.m**

Straight keyed

**20**

**C03**



**F1 Maxi: 100 daN**

**F3 Maxi: 50 daN**

Maxi transmissible torque

**50 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1341 4/4**

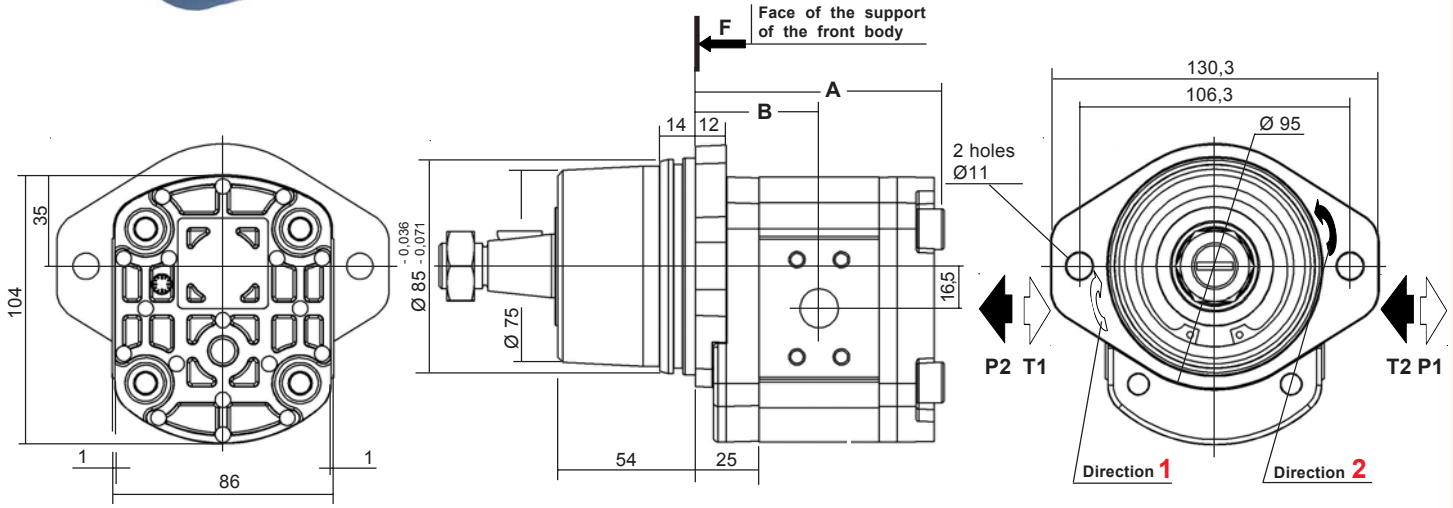


Consult us for availability



**P** II Sign **AR P** **2 5** VI Sign **H L 1 0** **C05** XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the capacity | Dimensions |    |
|------------------------|------------|----|
|                        | A          | B  |
| 12                     | 112        | 56 |
| 15 - 17 - 18 - 22      | 128        | 64 |

Multiples geared pumps, see data sheet **F.T 20 1306**

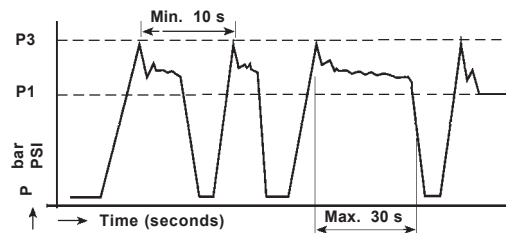
Seal kits:  
Nitrile: **K112366 + K5069830**  
Viton: **K112366 + K5069840**  
(For the manufacturings from february 1986)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|---|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |   |                                 |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |   |                                 |                      |
| <b>2512</b> | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35  | 22,45                           | 2,8                  |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04  | 29,03                           | 3,1                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39  | 32,36                           | 3,2                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75  | 35,77                           | 3,3                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48  | 42,78                           | 3,4                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

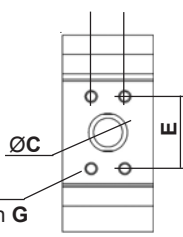
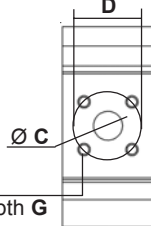
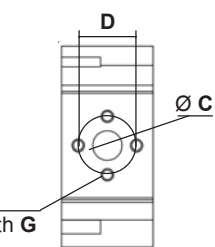
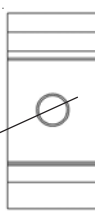
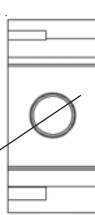
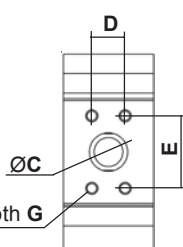

P3 Allowable peak pressure.



**F.T 25 1344 1/4**

  Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity  | INLET (T)                  |      |      |                           |    | OUTLET (P) |      |    |                           |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min)  |   |
|---|---|----------------------------|------|------|---------------------------|----|------------|------|----|---------------------------|----|---|---|
|   |   | ØC                         | D    | E    | ØF                        | G  | ØC         | D    | E  | ØF                        | G  | INLET (T)   | OUTLET (P)  |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 26                         | 47,6 | 22,4 | M6                        | 12 | 15         | 17,4 | 38 | M6                        | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                                | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                            |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 20                         | 40   |      | M6                        | 12 | 15         | 35   |    | M6                        | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>  | <p>1 / 2 " BSP<br/>N: 367141.703</p>  |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 23,5                       | 40   |      | M8                        | 13 | 15         | 30   |    | M6                        | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101</p> <p>3 / 4 " BSP<br/>N: X.367508.102</p> | <p>3 / 8 " BSP<br/>N: X.367508.201</p> <p>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    |                            |      |      |                           |    | 1" Gaz     | 18   |    | 1/2" Gaz                  | 14 |   |   |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512</p> <p>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 7/8"<br>14<br>UNF<br>2B   | 17 |   |   |
|   |   |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 1"1/16<br>12<br>UNF<br>2B | 20 |   |   |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512</p> <p>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |   |   |
|   |   | 26                         | 52,4 | 26,2 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |   |   |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | Only with rear body Type A |      |      |                           |    |            |      |    |                           |    |   |   |

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1344 2/4

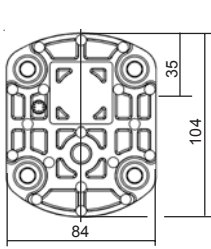
Consult us for availability



**REAR BODIES**

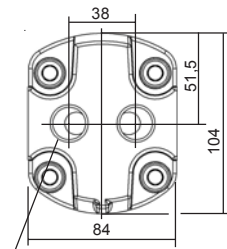
**L**

Standard



**A**

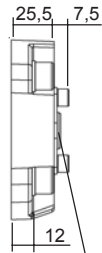
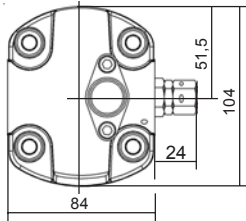
with ports



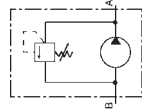
(2x) 1/2" BSP  
effective depth 14

**X**

High pressure relief valve  
(Adjustable) Internal return

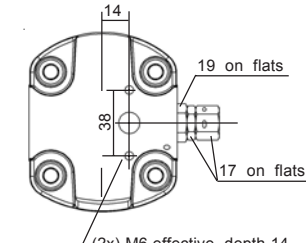


Blank port  
connector only  
internal return

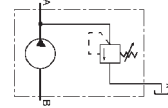


**T**

High pressure relief valve  
(Adjustable) External return

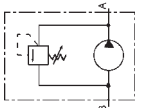
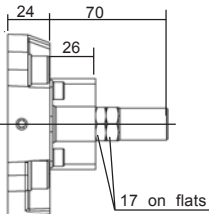
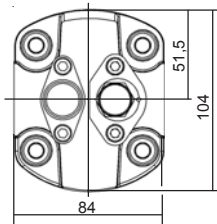


(2x) M6 effective depth 14



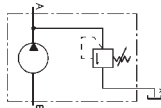
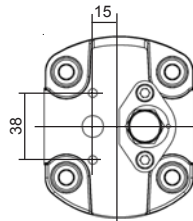
**V**

Low Pressure relief valve  
(Adjustable) Internal return



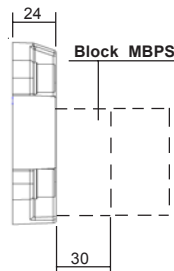
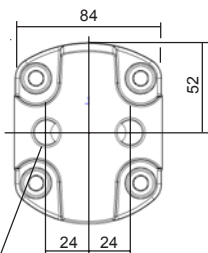
**W**

Low Pressure relief valve  
(Adjustable) External return



**AR**

with block configuration MBPS

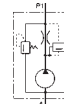
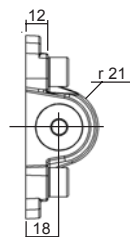
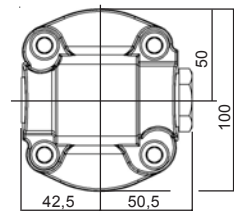


Block MBPS

3/8" BSP (x2) effective depth 17,5

**Q**

Flow control  
Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1344 3/4**



Consult us for availability

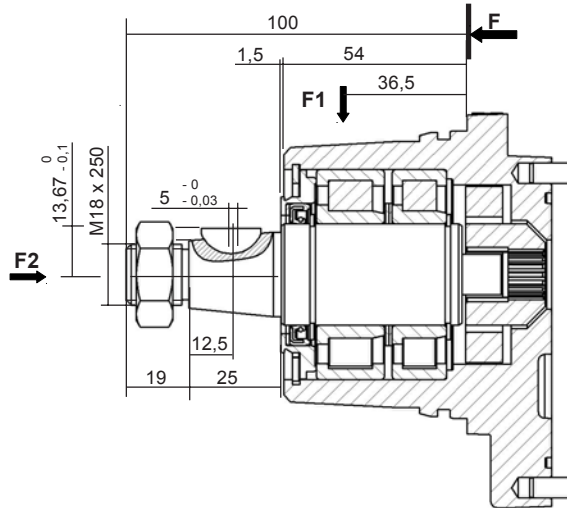
**DRIVING SHAFT**

Tapered

**10**

**C05**

Cône 1/5



Delivered with nut: K106295

**F1 Maxi: 350 daN**

**F2 Maxi: 50 daN**

Maxi transmissible torque

**70 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1344 4/4**

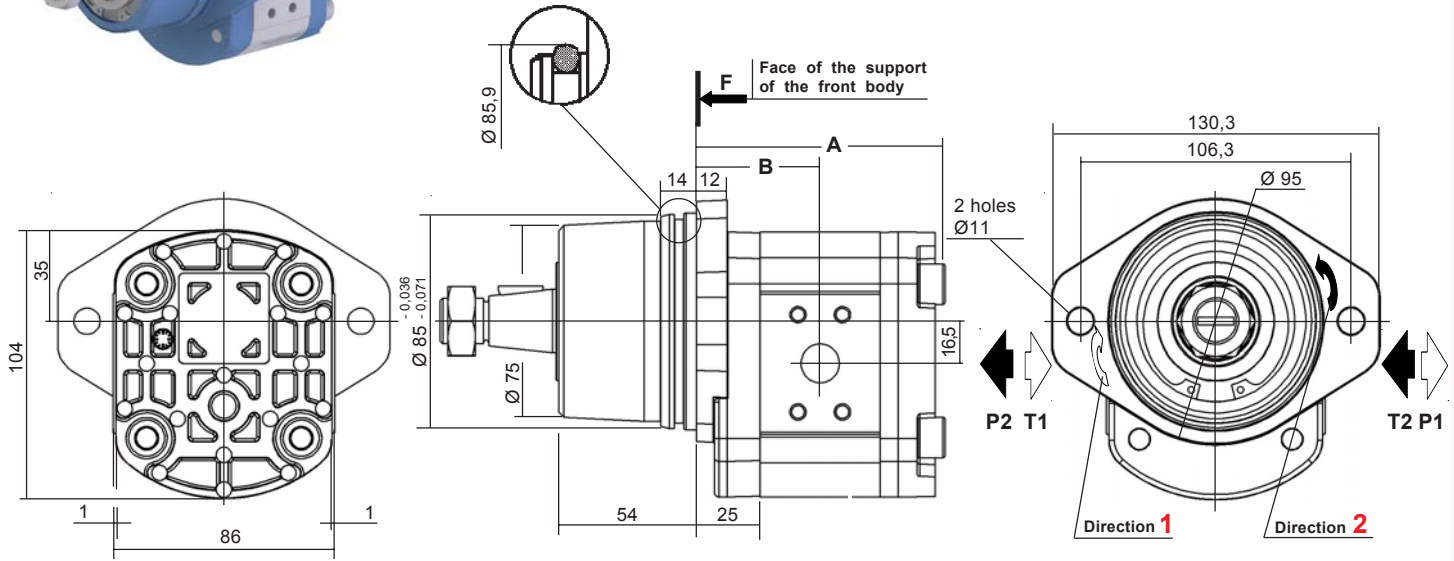


Consult us for availability



**P** II Sign **AR K 2 5** VI Sign **H L 1 0 C05** XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the capacity   | Dimensions |    |
|--------------------------|------------|----|
|                          | A          | B  |
| <b>12</b>                | 112        | 56 |
| <b>15 - 17 - 18 - 22</b> | 128        | 64 |

Multiples geared pumps, see data sheet **F.T 20 1306**

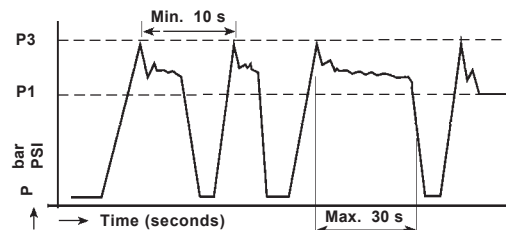
Seal kits:  
Nitrile: **K112366 + K5069830 + K106139**  
Viton: **K112366 + K5069840 + K106139**  
(For the manufacturings from february 1986)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW           |                          | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|------------------------|--------------------------|--|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM<br>l / min | at Max. speed<br>l / min |  |                                 |                      |
|             |                      | <b>2512</b>   | 12   | 300                  | 4350 |                   | 255                    | 3697                     |  |                                 |                      |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25                  | 52,5                     | 3,04                                     | 29,03                           | 3,1                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95                  | 60,55                    | 3,39                                     | 32,36                           | 3,2                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65                  | 66,8                     | 3,75                                     | 35,77                           | 3,3                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2                   | 79,8                     | 4,48                                     | 42,78                           | 3,4                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

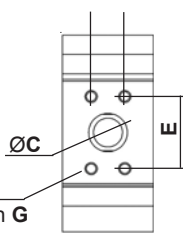
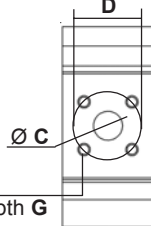
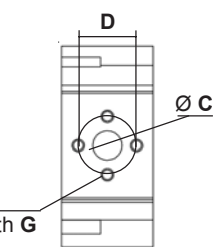
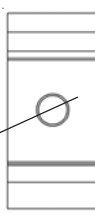
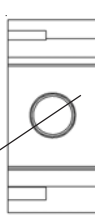
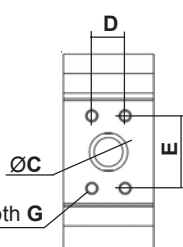

P3 Allowable peak pressure.



**F.T 25 1346 1/4**

  Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity   | INLET (T)                  |      |      |                           |    | OUTLET (P) |      |    |                           |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |
|---|--|----------------------------|------|------|---------------------------|----|------------|------|----|---------------------------|----|--|--|
|   |  | ØC                         | D    | E    | ØF                        | G  | ØC         | D    | E  | ØF                        | G  | INLET (T)  | OUTLET (P)   |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                      | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M6                        | 12 | 15         | 17,4 | 38 | M6                        | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                               | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                         |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>                   | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 20                         | 40   |      | M6                        | 12 | 15         | 35   |    | M6                        | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>   | <p>1 / 2 " BSP<br/>N: 367141.703</p>                                       |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>         | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 23,5                       | 40   |      | M8                        | 13 | 15         | 30   |    | M6                        | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101<br/>3 / 4 " BSP<br/>N: X.367508.102</p>   | <p>3 / 8 " BSP<br/>N: X.367508.201<br/>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1"<br>Gaz                 | 18 |            |      |    | 1/2"<br>Gaz               | 14 |  |  |
| <p><b>U</b><br/>(Threaded<br/>SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 7/8"<br>14<br>UNF<br>2B   | 17 |  |  |
|   |  |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 1"1/16<br>12<br>UNF<br>2B | 20 |  |  |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |  |  |
|   |  | 26                         | 52,4 | 26,2 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |  |  |
| <p><b>X</b><br/>(without ports)</p>    | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | Only with rear body Type A |      |      |                           |    |            |      |    |                           |    |  |  |

Dimensions readings and approximative characteristics subject to modifications.

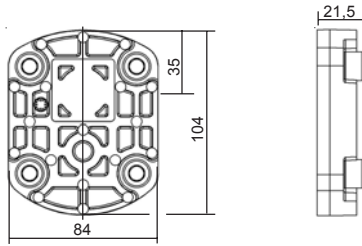
F.T 20 1346 2/4

Consult us for availability

**REAR BODIES**

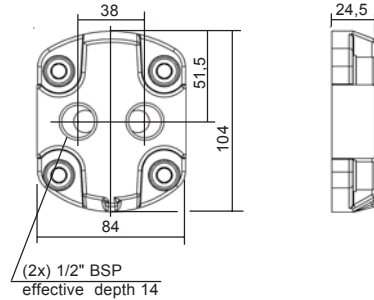
**L**

Standard



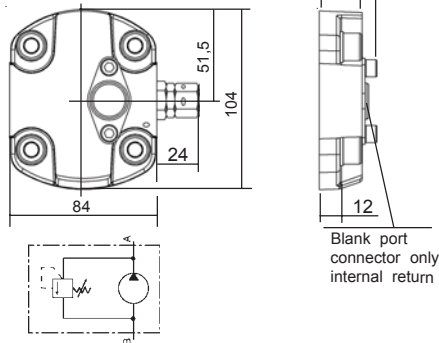
**A**

with ports



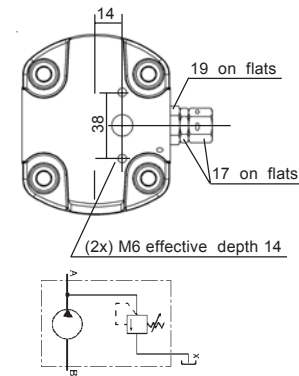
**X**

High pressure relief valve (Adjustable) Internal return



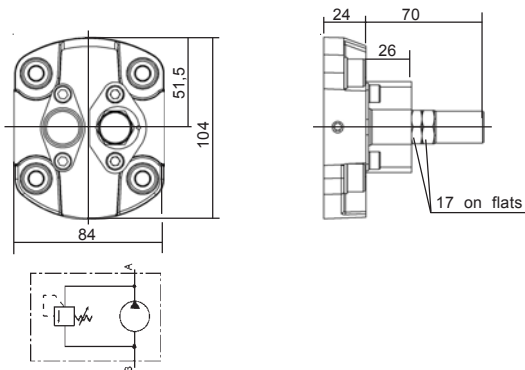
**T**

High pressure relief valve (Adjustable) External return



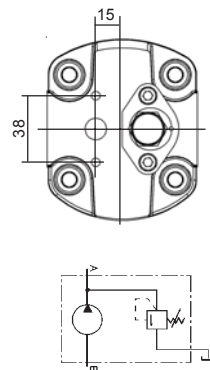
**V**

Low Pressure relief valve (Adjustable) Internal return



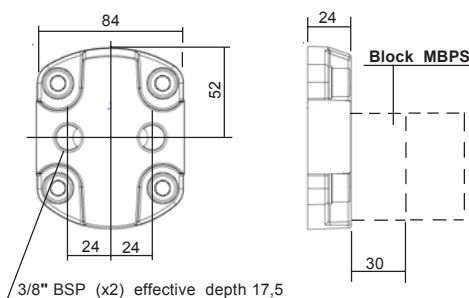
**W**

Low Pressure relief valve (Adjustable) External return



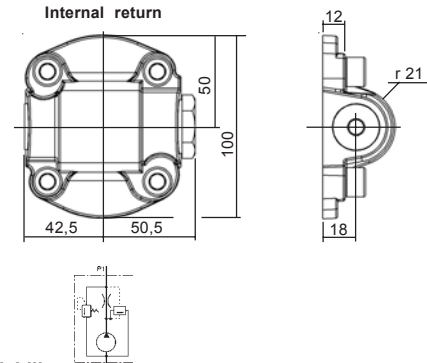
**AR**

with block configuration MBPS



**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1346 3/4**



Consult us for availability

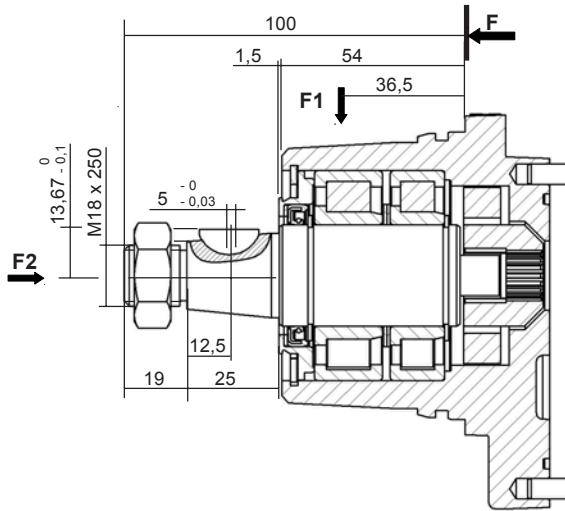
**DRIVING SHAFT**

Tapered

**10**

**C05**

Cône 1/5



Delivered with nut: K106295

**F1 Maxi: 350 daN**

**F2 Maxi: 50 daN**

Maxi transmissible torque

**70 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1346 4/4**

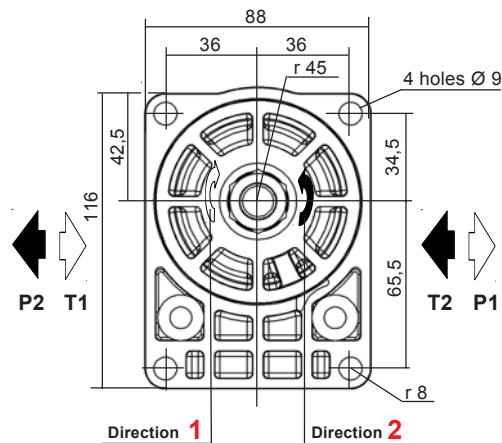
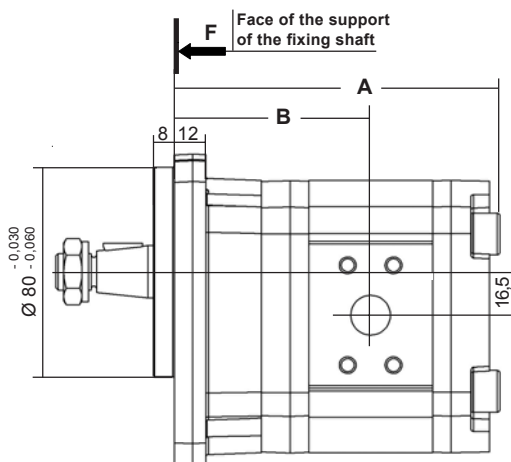
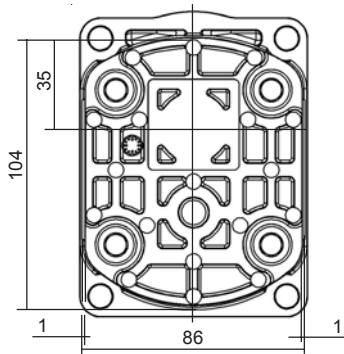


Consult us for availability



**P** II Sign **DB P 2 5** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



| CHOICE of the Capacity | Dimensions |    |
|------------------------|------------|----|
|                        | A          | B  |
| 12                     | 138        | 82 |
| 15 - 17 - 18 - 22      | 154        | 90 |

Multiples geared pumps, see data sheet **F.T 20 1306**

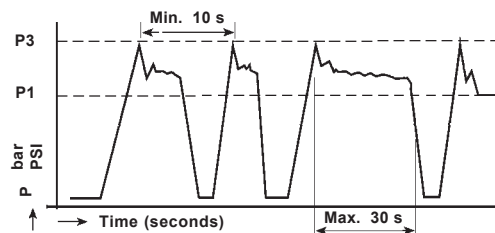
Seal kits:  
Nitrile: **K5073298 + K5096830**  
Viton: **K5073299 + K5096840**  
(For the manufacturings from may 1986)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                 |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| <b>2512</b> | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35                                     | 22,45                           | 2,8                  |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04                                     | 29,03                           | 3,1                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39                                     | 32,36                           | 3,2                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75                                     | 35,77                           | 3,3                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48                                     | 42,78                           | 3,4                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.

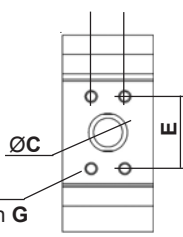
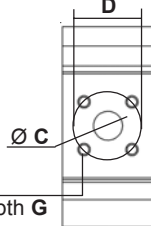
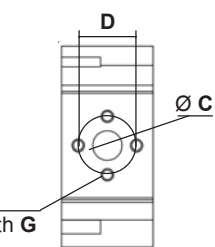
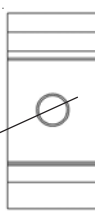
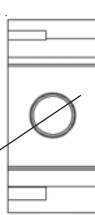
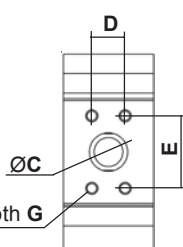



Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

F.T 25 1348 1/4

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity   | INLET (T)                  |      |      |                           |    | OUTLET (P) |      |    |                           |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |
|---|--|----------------------------|------|------|---------------------------|----|------------|------|----|---------------------------|----|--|--|
|   |  | ØC                         | D    | E    | ØF                        | G  | ØC         | D    | E  | ØF                        | G  | INLET (T)  | OUTLET (P)   |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M6                        | 12 | 15         | 17,4 | 38 | M6                        | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                               | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                         |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 20                         | 40   |      | M6                        | 12 | 15         | 35   |    | M6                        | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>   | <p>1 / 2 " BSP<br/>N: 367141.703</p>                                       |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 23,5                       | 40   |      | M8                        | 13 | 15         | 30   |    | M6                        | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101<br/>3 / 4 " BSP<br/>N: X.367508.102</p>   | <p>3 / 8 " BSP<br/>N: X.367508.201<br/>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1" Gaz                    | 18 |            |      |    | 1/2" Gaz                  | 14 |  |  |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 7/8"<br>14<br>UNF<br>2B   | 17 |  |  |
|   |  |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 1"1/16<br>12<br>UNF<br>2B | 20 |  |  |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |  |  |
|   |  | 26                         | 52,4 | 26,2 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |  |  |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | Only with rear body Type A |      |      |                           |    |            |      |    |                           |    |  |  |

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1348 2/4

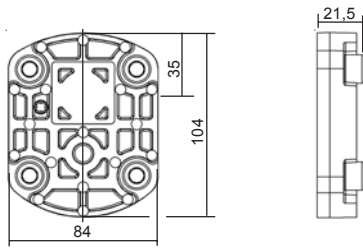
Consult us for availability



**REAR BODIES**

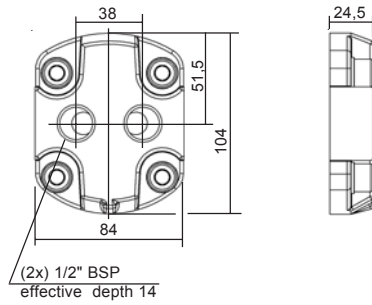
**L**

Standard



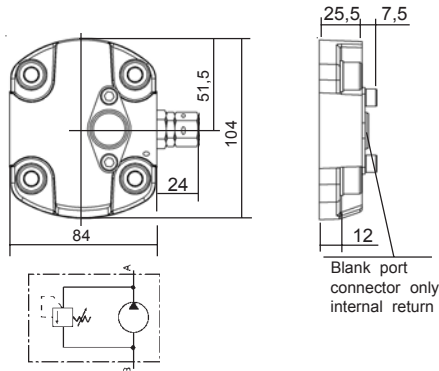
**A**

with ports



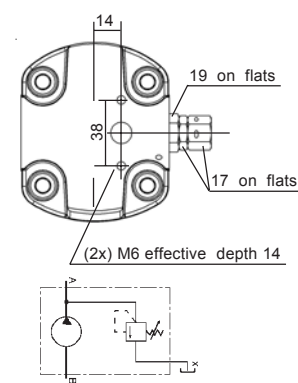
**X**

High pressure relief valve (Adjustable) Internal return



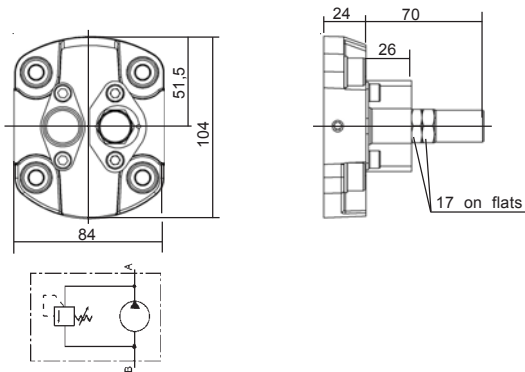
**T**

High pressure relief valve (Adjustable) External return



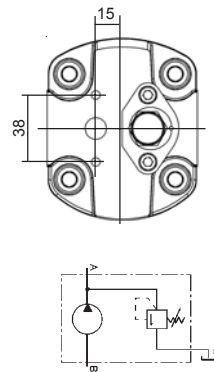
**V**

Low Pressure relief valve (Adjustable) Internal return



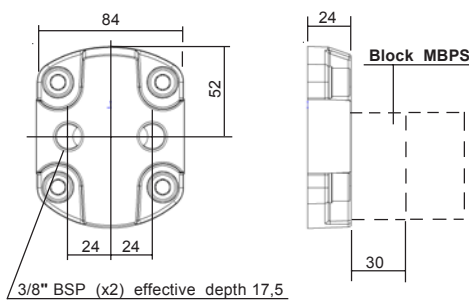
**W**

Low Pressure relief valve (Adjustable) External return



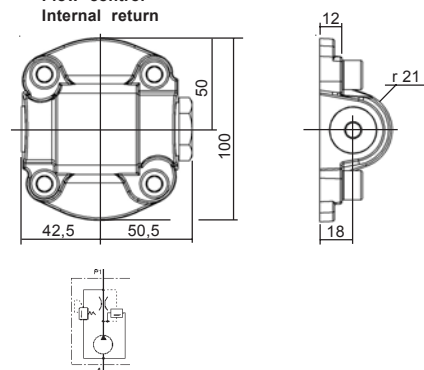
**AR**

with block configuration MBPS



**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1348 3/4**

**Consult us for availability**

DRIVING SHAFTS

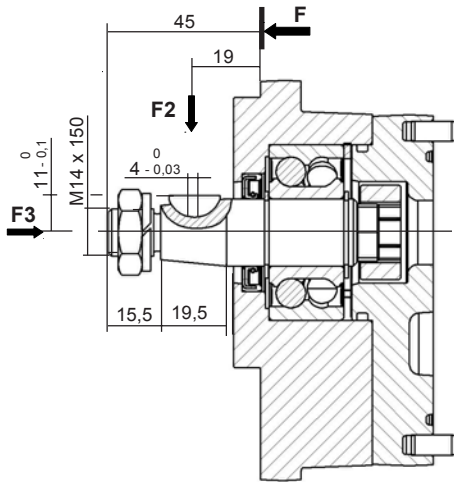
Tapered

**10**

Straight keyed

**20**

**C07** Taper 1 / 5

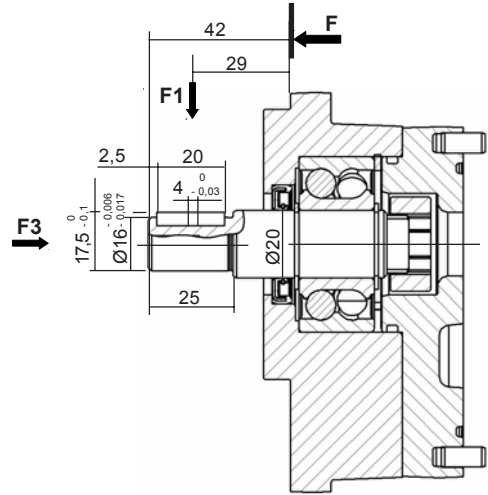


Delivered with Nut: K102045

F2 Maxi: 120 daN  
F3 Maxi: 50 daN

Maxi transmissible torque  
**50 N.m**

**C15**



F1 Maxi: 100 daN  
F3 Maxi: 50 daN

Maxi transmissible torque  
**50 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1348 4/4**

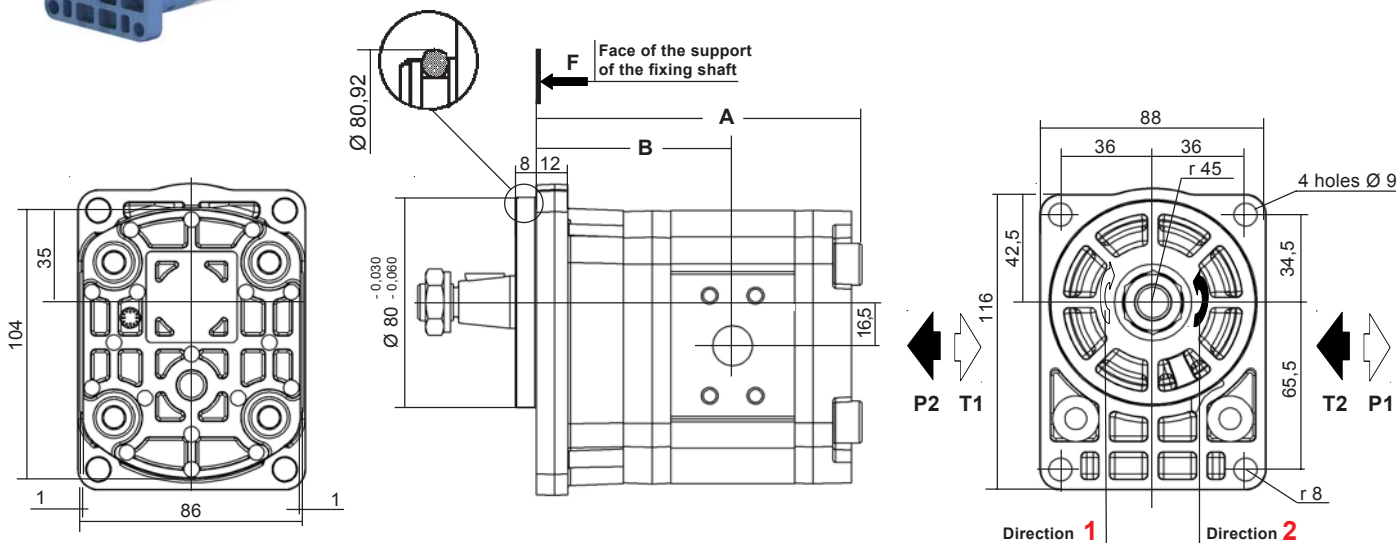


Consult us for availability



**P** II Sign **DBR 25** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



| CHOICE of the Capacity | Dimensions |    |
|------------------------|------------|----|
|                        | A          | B  |
| 12                     | 138        | 82 |
| 15 - 17 - 18 - 22      | 154        | 90 |

Multiples geared pumps, see data sheet **F.T 20 1306**

**Seal kits:**

Nitrile: **K5073298 + K5069830 + K101517**

Viton: **K5073299 + K5069840 + K104406**

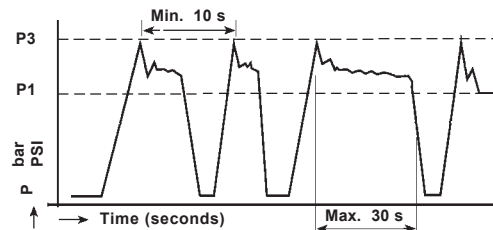
(For the manufacturings from may 1986)

| MODEL       | Capacity<br>cc / rev | PEAK PRESSURE |      | MAX WORKING PRESSURE |      | Max. speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|---------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|             |                      | bar           | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Max. speed |  |                                 |                      |
|             |                      |               |      |                      |      |                   | l / min      | l / min       |  |                                 |                      |
| <b>2512</b> | 12                   | 300           | 4350 | 255                  | 3697 | 3500              | 18           | 42            | 2,35                                     | 22,45                           | 2,8                  |
| <b>2515</b> | 15,52                | 300           | 4350 | 240                  | 3480 | 3500              | 23,25        | 52,5          | 3,04                                     | 29,03                           | 3,1                  |
| <b>2517</b> | 17,3                 | 300           | 4350 | 220                  | 3190 | 3500              | 25,95        | 60,55         | 3,39                                     | 32,36                           | 3,2                  |
| <b>2518</b> | 19,12                | 300           | 4350 | 215                  | 3117 | 3500              | 28,65        | 66,8          | 3,75                                     | 35,77                           | 3,3                  |
| <b>2522</b> | 22,87                | 300           | 4350 | 190                  | 2755 | 3500              | 34,2         | 79,8          | 4,48                                     | 42,78                           | 3,4                  |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.

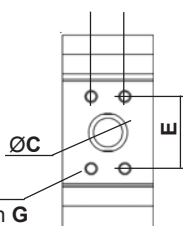
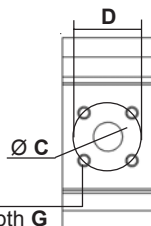
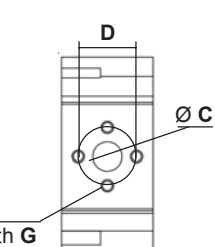
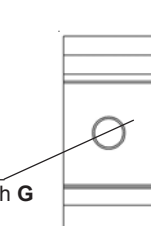
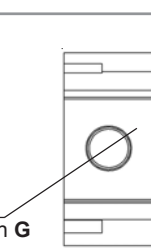
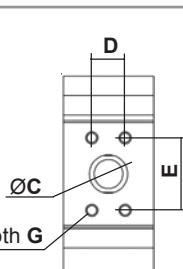
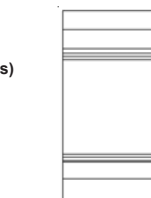


Cotes dimensionnelles et caractéristiques approximatives sous réserves de modifications

F.T 25 1350 1/4

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity  | INLET (T)                  |      |      |                           |    | OUTLET (P) |      |    |                           |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min)  |   |
|---|---|----------------------------|------|------|---------------------------|----|------------|------|----|---------------------------|----|---|---|
|   |   | ØC                         | D    | E    | ØF                        | G  | ØC         | D    | E  | ØF                        | G  | INLET (T)   | OUTLET (P)  |
| <p><b>H</b><br/>(HPI)</p>  <p>Ø F<br/>effective depth G</p>                  | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 26                         | 47,6 | 22,4 | M6                        | 12 | 15         | 17,4 | 38 | M6                        | 12 | <p>1 " BSP<br/>N: 2.500496<br/>V: 2.504117</p>                                | <p>1 / 2 " BSP<br/>N: 2.500055<br/>V: 2.504126</p>                            |
| <p><b>C</b><br/>(Square)</p>  <p>Ø F<br/>effective depth G</p>               | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 20                         | 40   |      | M6                        | 12 | 15         | 35   |    | M6                        | 12 | <p>3 / 4 " BSP<br/>N: 367141.503</p>  | <p>1 / 2 " BSP<br/>N: 367141.703</p>  |
| <p><b>B</b><br/>(Italian)</p>  <p>4 holes Ø F<br/>effective depth G</p>     | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | 23,5                       | 40   |      | M8                        | 13 | 15         | 30   |    | M6                        | 13 | <p>1 / 2 " BSP<br/>N: X.367508.101</p> <p>3 / 4 " BSP<br/>N: X.367508.102</p> | <p>3 / 8 " BSP<br/>N: X.367508.201</p> <p>1 / 2 " BSP<br/>N: X.367508.202</p> |
| <p><b>F</b><br/>(Threaded)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    |                            |      |      | 1" Gaz                    | 18 |            |      |    | 1/2" Gaz                  | 14 |   |   |
| <p><b>U</b><br/>(Threaded SAE J 475)</p>  <p>Ø F<br/>effective depth G</p> | <p>2512</p> <p>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 7/8"<br>14<br>UNF<br>2B   | 17 |   |   |
|   |   |                            |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |    | 1"1/16<br>12<br>UNF<br>2B | 20 |   |   |
| <p><b>Y</b><br/>(ISO 6162)</p>  <p>Ø F<br/>effective depth G</p>           | <p>2512</p> <p>2514<br/>2515<br/>2517<br/>2518<br/>2522</p> | 26                         | 47,6 | 22,4 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |   |   |
|   |   | 26                         | 52,4 | 26,2 | M10                       | 14 | 15         | 17,4 | 38 | M8                        | 14 |   |   |
| <p><b>X</b><br/>(without ports)</p>                                        | <p>2512<br/>2514<br/>2515<br/>2517<br/>2518<br/>2522</p>    | Only with rear body Type A |      |      |                           |    |            |      |    |                           |    |   |   |

Dimensions readings and approximative characteristics subject to modifications.

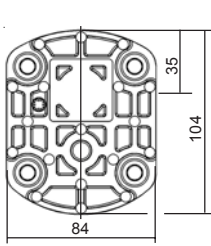
F.T 25 1350 2/4

Consult us for availability

REAR BODIES

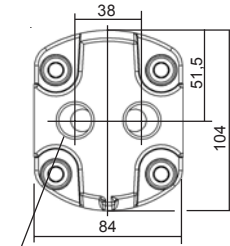
**L**

Standard



**A**

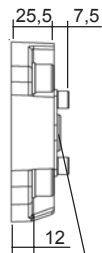
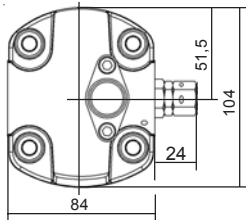
with ports



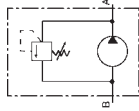
(2x) 1/2" BSP effective depth 14

**X**

High pressure relief valve (Adjustable) Internal return

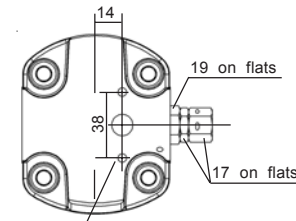


Blank port connector only internal return

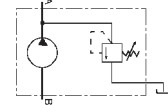


**T**

High pressure relief valve (Adjustable) External return

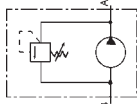
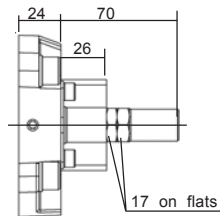
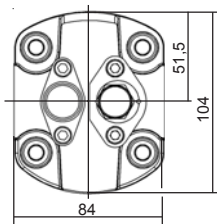


(2x) M6 effective depth 14



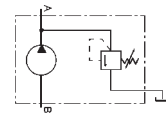
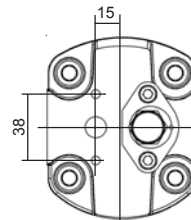
**V**

Low Pressure relief valve (Adjustable) Internal return



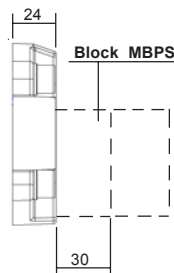
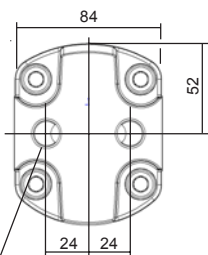
**W**

Low Pressure relief valve (Adjustable) External return



**AR**

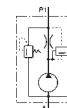
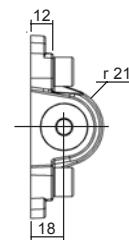
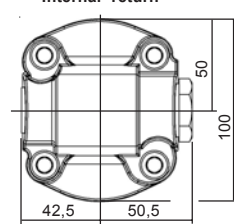
with block configuration MBPS



3/8" BSP (x2) effective depth 17,5

**Q**

Flow control Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1350 3/4**



Consult us for availability

DRIVING SHAFTS

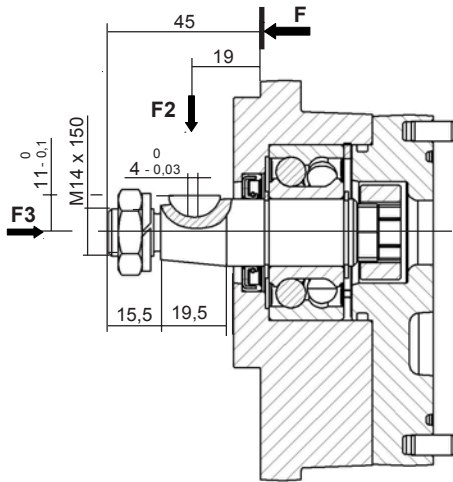
Tapered

**10**

Straight keyed

**20**

**C07** Taper 1 / 5

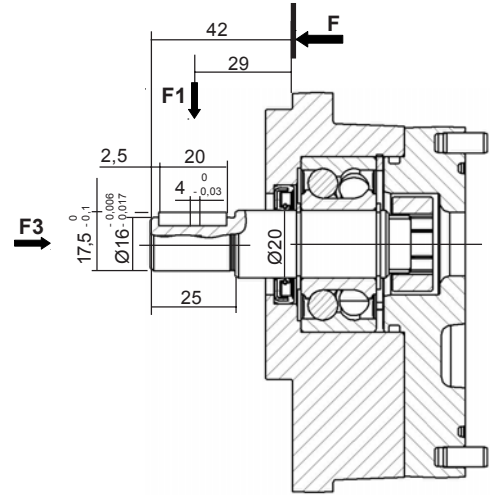


Delivered with Nut: K102045

F2 Maxi: 120 daN  
F3 Maxi: 50 daN

Maxi transmissible torque  
**50 N.m**

**C15**



F1 Maxi: 100 daN  
F3 Maxi: 50 daN

Maxi transmissible torque  
**50 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 25 1350 4/4**

Consult us for availability

**CODIFICATION**



**F.T R 0268**

**PUMPS PRESENTATION  
"SPECIAL" SERIES 2**



**F.T 20 1409**

PUMP **79**



**F.T 20 1410**

PUMP **86**



**F.T 20 1411**

PUMP **87**




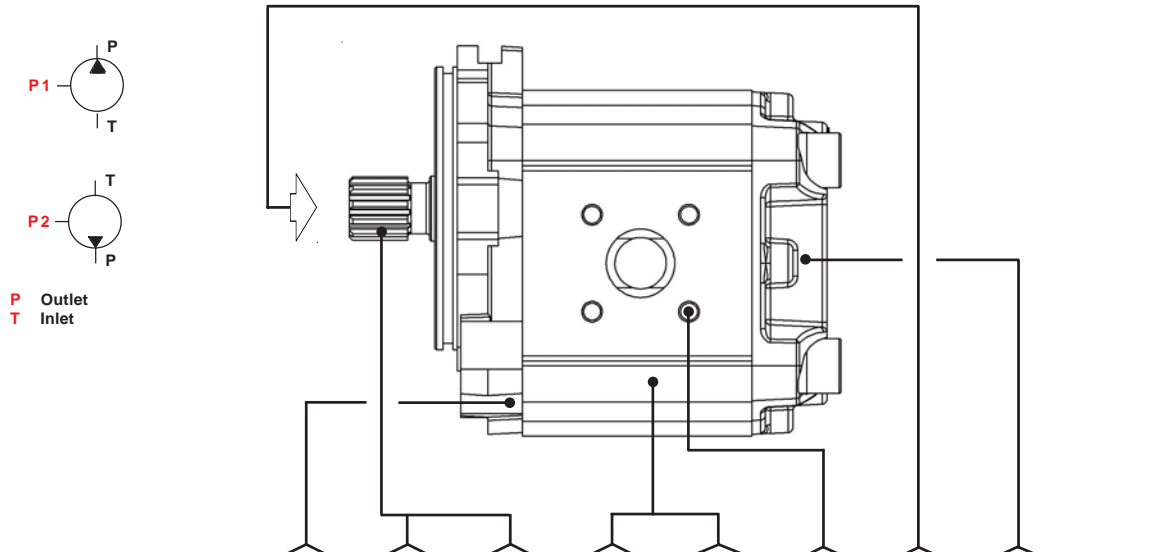
**F.T 20 1412**

PUMP **95**



**F.T 20 1413**

 Consult us for availability



Dimensions readings and approximative characteristics subject to modifications.

**PuMP**

**P**

**STANDARD CATALOGUE**

**C**

**FRONT BODY**

- 2 holes SAE with tightness on spigot joint
- 2 holes SAE
- 4 holes DIN
- 2 holes with tightness on spigot joint

- 79**
- 86**
- 87**
- 95**

**CODE of SHAFT**

Splined ANSI B92 (11 teeth)

**F**

**DIMENSION of EXIT SHAFT**  
(by report of the fixing flange)

- 31,5
- 32,9
- 37,7

- A**
- B**
- C**

**CODE of the SERIES**

Series 2

**2**

**CAPACITY (cc / rev)**

**(00)4 - (00)6 - (00)8 - (0)10 - (0)12 - (0)14 - (0)16 - (0)18 - (0)20 - (0)22 - (0)25**

(0) - Only for codification purposes

**OPTION**

- 00** Without option
- 01** Shaft seal in Viton
- 02** Double lips shaft seals in Viton
- 10** Etanchéité entre pompes
- 11** = 10 + 01
- 12** = 10 + 02

**REAR BODY**

**AA** Standard

**DIRECTION of ROTATION**

- 1** Clockwise
- 2** Anti - Clockwise

**PORT LOCATION**

- C** DIN location
- B** Italian location
- Y** ISO location
- F** BSPP location

Consult us for availability



| MODEL | Capacity<br>cc / rev | MAX CONTINUOUS PRESSURE<br>in bar | MAX PEAK PRESSURE*<br>in bar | Mini Speed<br>RPM | Max speed<br>RPM | Drive torque at 100 bar 2000 RPM** in N.m |
|-------|----------------------|-----------------------------------|------------------------------|-------------------|------------------|---|
| 2004  | 4,1                  | 250                               | 270                          | 1000              | 6000             | 8   |
| 2006  | 6,2                  | 250                               | 270                          | 1000              | 6000             | 13  |
| 2008  | 8,3                  | 250                               | 270                          | 750               | 6000             | 17  |
| 2010  | 10,3                 | 250                               | 270                          | 500               | 6000             | 21  |
| 2012  | 12,4                 | 250                               | 270                          | 500               | 5000             | 25  |
| 2014  | 14,5                 | 250                               | 270                          | 500               | 5000             | 29  |
| 2016  | 16,5                 | 250                               | 270                          | 500               | 4000             | 30  |
| 2018  | 18,6                 | 250                               | 270                          | 500               | 3500             | 34  |
| 2020  | 20,6                 | 240                               | 260                          | 500               | 3500             | 38  |
| 2022  | 22,7                 | 230                               | 250                          | 500               | 3000             | 42  |
| 2025  | 24,8                 | 200                               | 220                          | 500               | 3000             | 46  |

\* Maximum duration = 0,5 s.

\*\* In the case of multistage pumps, the sum of the driving torque of the stage which simultaneously run, must be less than the maximum torque permitted to the drive shaft.  
- Maximum drive torque on the coupling between stages: 70N.m .

**General characteristics:**

For using beside these limits, please ask our technical department.

Dimensions readings and approximative characteristics subject to modifications.

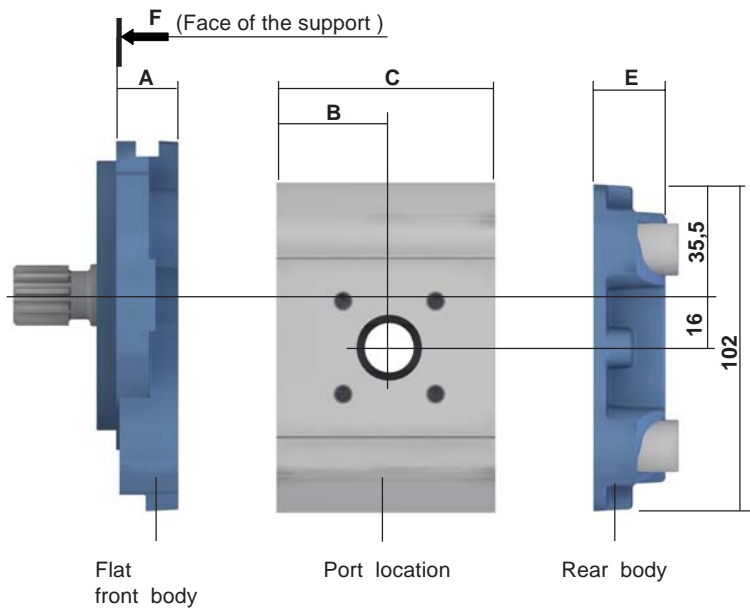
F.T 20 1409 1/5

**FLAT FRONT BODY**

|                      |          |
|----------------------|----------|
| <b>Front bodies:</b> | <b>A</b> |
| 79 - 86 - 87         | 19       |
| 95                   | 27       |

| Port location (capacity) | B    | C     |
|--------------------------|------|-------|
| 2004                     | 24   | 45,95 |
| 2006                     | 25,5 | 48,95 |
| 2008                     | 27   | 51,95 |
| 2010                     | 28,5 | 54,95 |
| 2012                     | 30   | 57,95 |
| 2014                     | 31,5 | 60,95 |
| 2016                     | 33   | 63,95 |
| 2018                     | 34,5 | 66,95 |
| 2020                     | 36   | 69,95 |
| 2022                     | 37,5 | 72,95 |
| 2025                     | 39   | 75,95 |















|                     |          |
|---------------------|----------|
| <b>Rear bodies:</b> | <b>E</b> |
| AA                  | 22       |



Non Standard Product, Contact us

**P C III - IV Sign F A 2 VIII - XI - X Sign XI Sign XII Sign XIII - XIV Sign XV - XVI Sign**

For CODIFICATION, see data sheet **F.T R 0268**

| DIRECTION of ROTATION (XI Sign) |     | FRONT BODIES (III and IV Sign)  | CAPACITY (VIII - IX - X Sign)                               | PORT LOCATION (XI Sign)   |   |   |  | REAR BODIES (XII - XIII Sign)   | DRIVING SHAFT (V - VI Sign)   |
|---------------------------------|-----|---|---|---|---|---|--|---|---|
| P 1                             | P 2 |   |   | C   | B   | Y   | F  | AA  | F (11 teeth)  |
| X                               | X   |       | 4<br>6<br>8<br>10<br>12<br>14<br>16<br>18<br>20<br>22<br>25 |   |   |   |  |   |   |
| X                               | X   |       |   |   |   |   |  |   |   |
| X                               | X   |     |   |   |   |   |  |   |   |
| X                               | X   |   |   |   |   |   |  |   |   |
|                                 |     |   |   |  |  |  |  |  |  |

Dimensions readings and approximative characteristics subject to modifications.

**LEGENDES**

**PRODUCT TYPE**

**P** = Pump

**TECHNOLOGIC VERSION**

**C** = Standard Catalogue

**FLAT FRONT BODIES**

- 79** = SAE with tightness on spigot joint
- 86** = SAE
- 87** = DIN
- 95** = PERKINS

**PORT LOCATION**

- C** = DIN implantation
- B** = Italian implantation
- Y** = ISO implantation
- F** = BSP implantation


**REAR BODIES**

**AA** = Standard

**DRIVING SHAFT**

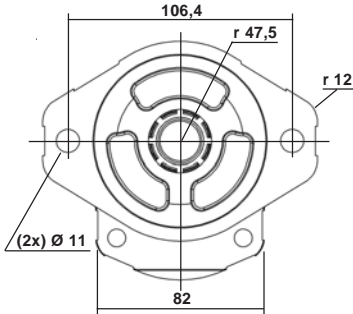
**F** = Splined ANSI B92 (11 teeth)

F.T 20 1409 2/5

 Consult us for availability

FLAT FRONT BODIES

**79**

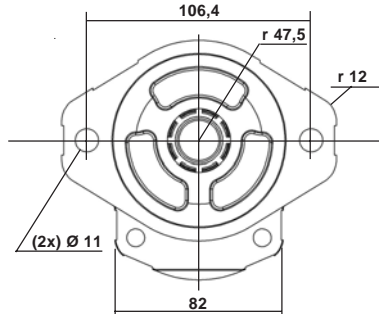


Centering:  $\varnothing 82,55^{0}_{-0,05}$

Thickness:  $6,5^{0}_{-0,2}$

79 : F.T 20 1410

**86**

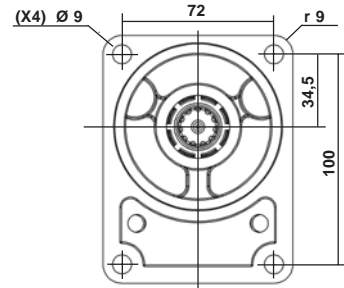


Centering:  $\varnothing 82,55^{0}_{-0,05}$

Tightness:  $6^{0}_{-0,2}$

86 : F.T 20 1411

**87**

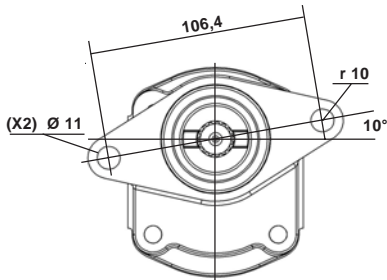


Centering:  $\varnothing 80^{0}_{-0,0106}$

Tightness:  $7^{0}_{-0,2}$

87 : F.T 20 1412

**95**



Centering:  $\varnothing 82,55^{0}_{-0,05}$

Tightness:  $11 \pm 0,165$

87 : F.T 20 1412

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1409 3/5



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

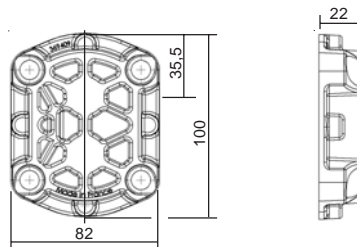
|                               | Capacity                 | INLET (T) |          |      |      |    | OUTLET (P) |          |      |      |    |
|-------------------------------|--------------------------|-----------|----------|------|------|----|------------|----------|------|------|----|
|                               |                          | ØA        | ØB       | ØC   | D    | E  | ØA         | ØB       | ØC   | D    | E  |
| <p><b>C</b><br/>(DIN)</p>     | <p>2004 bis<br/>2025</p> | 20        | M6       | 40   | 13   |    | 15         | M6       | 35   | 13   |    |
| <p><b>B</b><br/>(Italian)</p> | <p>2004 bis<br/>2010</p> | 13,5      | M6       | 30   | 13   |    | 13,5       | M6       | 30   | 13   |    |
|                               | <p>2015 bis<br/>2025</p> | 20        | M8       | 40   | 13   |    | 13,5       | M6       | 30   | 13   |    |
| <p><b>Y</b><br/>(ISO)</p>     | <p>2004 bis<br/>2016</p> | 15        | M8       | 17,4 | 38   | 14 | 15         | M8       | 17,4 | 38   | 14 |
|                               | <p>2018 bis<br/>2025</p> | 20        | M10      | 47,6 | 22,4 | 14 | 15         | M8       | 38   | 17,4 | 14 |
| <p><b>F</b><br/>(BSP)</p>     | <p>2004 bis<br/>2012</p> |           | 1/2" BSP |      |      |    |            | 1/2" BSP |      |      |    |
|                               | <p>2014 bis<br/>2025</p> |           | 3/4" BSP |      |      |    |            | 1/2" BSP |      |      |    |

Dimensions readings and approximative characteristics subject to modifications.

REAR BODIES

**AA**

Standard



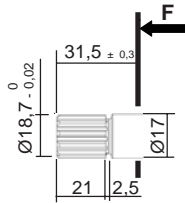
Consult us for availability

**DRIVING SHAFT**

**Splined**

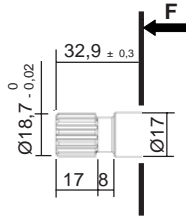
**F (11 teeth)**

**F A**



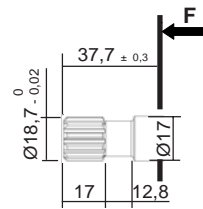
Involute spline to SAE  
 11 teeth - Pitch 16/32  
 30° Pressure angle  
Max. transmissible torque  
**70 N.m**

**F B**



Involute spline to SAE  
 11 teeth - Pitch 16/32  
 30° Pressure angle  
Max. transmissible torque  
**70 N.m**

**F C**



Involute spline to SAE  
 11 teeth - Pitch 16/32  
 30° Pressure angle  
Max. transmissible torque  
**70 N.m**

Dimensions readings and approximative characteristics subject to modifications.

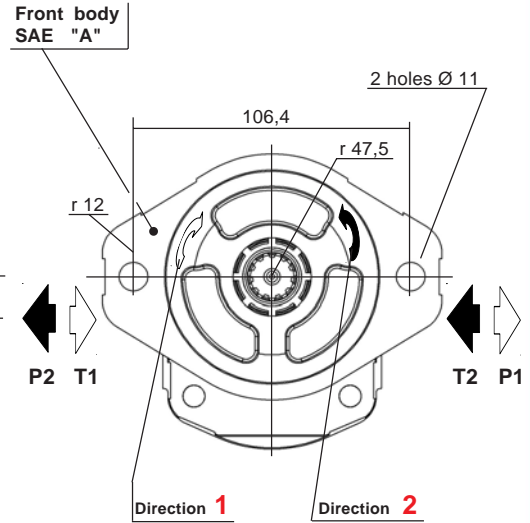
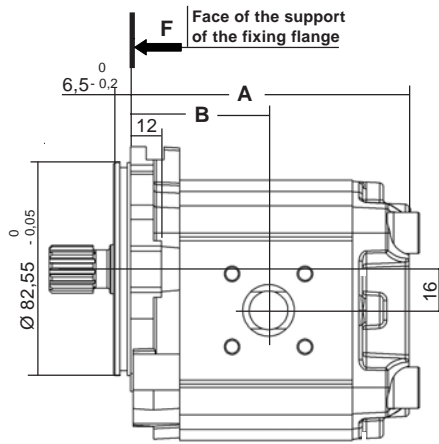
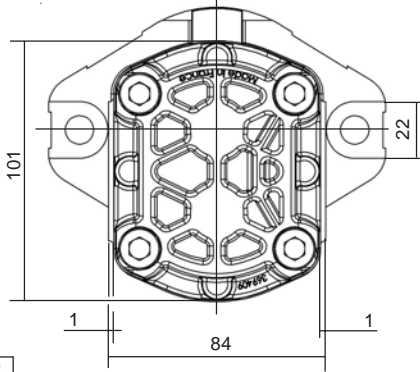
**F.T 20 1409 5/5**



Consult us for availability

**P C 79 F V Sign 2 VII - VIII - IX Signs C 1 AA 00**

For CODIFICATION, see data sheets **F.T R 0268**



**CHOICE of the Capacity Dimensions**

| Capacity | A      | B    |
|----------|--------|------|
| 2004     | 86,95  | 65   |
| 2006     | 89,95  | 66,5 |
| 2008     | 92,95  | 68   |
| 2010     | 95,95  | 69,5 |
| 2012     | 98,95  | 72   |
| 2014     | 101,95 | 73,5 |
| 2016     | 104,95 | 75   |
| 2018     | 107,95 | 76,5 |
| 2020     | 110,95 | 78   |
| 2022     | 113,95 | 79,5 |
| 2025     | 116,95 | 81   |

| MODEL | Capacity<br>cc / rev | MAX CONTINUOUS PRESSURE<br>in bar | MAX PEAK PRESSURE*<br>in bar | Mini Speed<br>RPM | Max speed<br>RPM | Drive torque at 100 bar 2000 RPM**<br>in N.m |
|-------|----------------------|-----------------------------------|------------------------------|-------------------|------------------|--|
| 2004  | 4,1                  | 250                               | 270                          | 1000              | 6000             | 8  |
| 2006  | 6,2                  | 250                               | 270                          | 1000              | 6000             | 13   |
| 2008  | 8,3                  | 250                               | 270                          | 750               | 6000             | 17   |
| 2010  | 10,3                 | 250                               | 270                          | 500               | 6000             | 21   |
| 2012  | 12,4                 | 250                               | 270                          | 500               | 5000             | 25   |
| 2014  | 14,5                 | 250                               | 270                          | 500               | 5000             | 29   |
| 2016  | 16,5                 | 250                               | 270                          | 500               | 4000             | 30   |
| 2018  | 18,6                 | 250                               | 270                          | 500               | 3500             | 34   |
| 2020  | 20,6                 | 240                               | 260                          | 500               | 3500             | 38   |
| 2022  | 22,7                 | 230                               | 250                          | 500               | 3000             | 42   |
| 2025  | 24,8                 | 200                               | 220                          | 500               | 3000             | 46   |

\* Maximum duration = 0,5 s.

\*\* In the case of multistage pumps, the sum of the driving torque of the stage which simultaneously run, must be less than the maximum torque permitted to the drive shaft.  
- Maximum drive torque on the coupling between stages: 70N.m .

**General characteristics:**

For using beside these limits, please ask our technical department.

Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1410 1/3

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

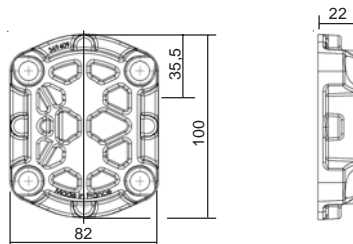
|                               | Capacity                 | INLET (T) |     |      |      |    | OUTLET (P) |     |      |      |    |
|-------------------------------|--------------------------|-----------|-----|------|------|----|------------|-----|------|------|----|
|                               |                          | ØA        | ØB  | ØC   | D    | E  | ØA         | ØB  | ØC   | D    | E  |
| <p><b>C</b><br/>(DIN)</p>     | <p>2004 bis<br/>2025</p> | 20        | M6  | 40   | 13   |    | 15         | M6  | 35   | 13   |    |
| <p><b>B</b><br/>(Italian)</p> | <p>2004 bis<br/>2010</p> | 13,5      | M6  | 30   | 13   |    | 13,5       | M6  | 30   | 13   |    |
|                               | <p>2015 bis<br/>2025</p> | 20        | M8  | 40   | 13   |    | 13,5       | M6  | 30   | 13   |    |
| <p><b>Y</b><br/>(ISO)</p>     | <p>2004 bis<br/>2016</p> | 15        | M8  | 17,4 | 38   | 14 | 15         | M8  | 17,4 | 38   | 14 |
|                               | <p>2018 bis<br/>2025</p> | 20        | M10 | 47,6 | 22,4 | 14 | 15         | M8  | 38   | 17,4 | 14 |
| <p><b>F</b><br/>(BSP)</p>     | <p>2004 bis<br/>2012</p> | 1/2"      | BSP |      |      |    | 1/2"       | BSP |      |      |    |
|                               | <p>2014 bis<br/>2025</p> | 3/4"      | BSP |      |      |    | 1/2"       | BSP |      |      |    |

Dimensions readings and approximative characteristics subject to modifications.

REAR BODIES

**AA**

Standard



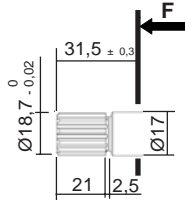
F.T 20 1410 2/3

Consult us for availability

**DRIVING SHAFT**

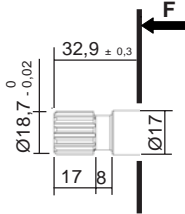
**Splined**  
**F (11 teeth)**

**F A**



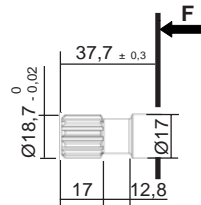
Involute spline to SAE  
11 teeth - Pitch 16/32  
30° Pressure angle  
**Max. transmissible torque**  
**70 N.m**

**F B**



Involute spline to SAE  
11 teeth - Pitch 16/32  
30° Pressure angle  
**Max. transmissible torque**  
**70 N.m**

**F C**



Involute spline to SAE  
11 teeth - Pitch 16/32  
30° Pressure angle  
**Max. transmissible torque**  
**70 N.m**

Dimensions readings and approximative characteristics subject to modifications.

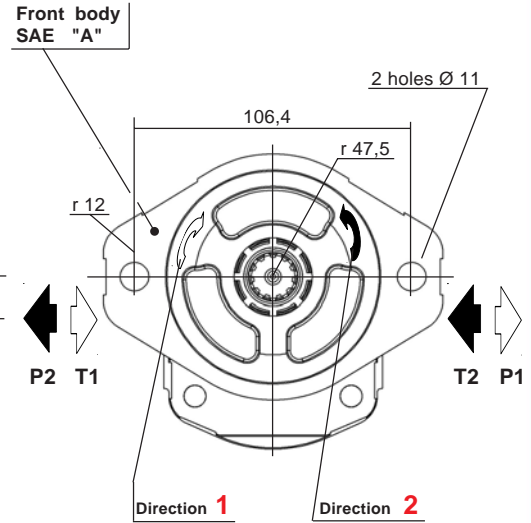
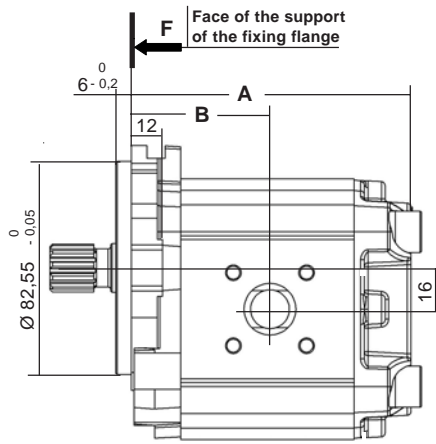
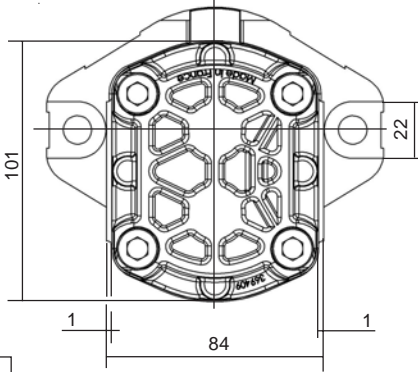
**F.T 20 1410 3/3**

Consult us for availability



**P C 86 F V Sign 2 VII - VIII - IX Signs C 1 AA 00**

For CODIFICATION, see data sheets **F.T R 0268**



**CHOICE of the Dimensions Capacity A B**

|      |        |      |
|------|--------|------|
| 2004 | 86,95  | 65   |
| 2006 | 89,95  | 66,5 |
| 2008 | 92,95  | 68   |
| 2010 | 95,95  | 69,5 |
| 2012 | 98,95  | 72   |
| 2014 | 101,95 | 73,5 |
| 2016 | 104,95 | 75   |
| 2018 | 107,95 | 76,5 |
| 2020 | 110,95 | 78   |
| 2022 | 113,95 | 79,5 |
| 2025 | 116,95 | 81   |

| MODEL | Capacity<br>cc / rev | MAX CONTINUOUS PRESSURE<br>in bar | MAX PEAK PRESSURE*<br>in bar | Mini Speed<br>RPM | Max speed<br>RPM | Drive torque at 100 bar 2000 RPM** in N.m |
|-------|----------------------|-----------------------------------|------------------------------|-------------------|------------------|---|
| 2004  | 4,1                  | 250                               | 270                          | 1000              | 6000             | 8   |
| 2006  | 6,2                  | 250                               | 270                          | 1000              | 6000             | 13  |
| 2008  | 8,3                  | 250                               | 270                          | 750               | 6000             | 17  |
| 2010  | 10,3                 | 250                               | 270                          | 500               | 6000             | 21  |
| 2012  | 12,4                 | 250                               | 270                          | 500               | 5000             | 25  |
| 2014  | 14,5                 | 250                               | 270                          | 500               | 5000             | 29  |
| 2016  | 16,5                 | 250                               | 270                          | 500               | 4000             | 30  |
| 2018  | 18,6                 | 250                               | 270                          | 500               | 3500             | 34  |
| 2020  | 20,6                 | 240                               | 260                          | 500               | 3500             | 38  |
| 2022  | 22,7                 | 230                               | 250                          | 500               | 3000             | 42  |
| 2025  | 24,8                 | 200                               | 220                          | 500               | 3000             | 46  |

\* Maximum duration = 0,5 s.

\*\* In the case of multistage pumps, the sum of the driving torque of the stage which simultaneously run, must be less than the maximum torque permitted to the drive shaft.  
- Maximum drive torque on the coupling between stages: 70N.m.

**General characteristics:**

For using beside these limits, please ask our technical department.

Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1411 1/3

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

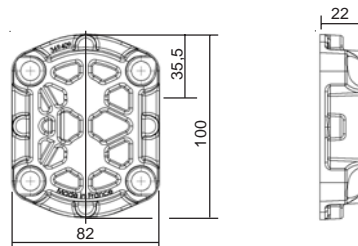
|  | Capacity                     | INLET (T)  |                              |      |      |    | OUTLET (P) |     |      |      |    |
|--|------------------------------|--|------------------------------|------|------|----|------------|-----|------|------|----|
|  |                              | ØA   | ØB                           | ØC   | D    | E  | ØA         | ØB  | ØC   | D    | E  |
|  |                              | <p><b>C</b><br/>(DIN)</p> <p>Ø B<br/>effective depth D</p> | <p>2004<br/>bis<br/>2025</p> | 20   | M6   | 40 | 13         |     | 15   | M6   | 35 |
| <p><b>B</b><br/>(Italian)</p> <p>Ø B<br/>effective depth D</p>     | <p>2004<br/>bis<br/>2010</p> | 13,5   | M6                           | 30   | 13   |    | 13,5       | M6  | 30   | 13   |    |
|  | <p>2015<br/>bis<br/>2025</p> | 20   | M8                           | 40   | 13   |    | 13,5       | M6  | 30   | 13   |    |
| <p><b>Y</b><br/>(ISO)</p> <p>4 holes Ø B<br/>effective depth E</p> | <p>2004<br/>bis<br/>2016</p> | 15   | M8                           | 17,4 | 38   | 14 | 15         | M8  | 17,4 | 38   | 14 |
|  | <p>2018<br/>bis<br/>2025</p> | 20   | M10                          | 47,6 | 22,4 | 14 | 15         | M8  | 38   | 17,4 | 14 |
| <p><b>F</b><br/>(BSP)</p> <p>Ø A</p>                               | <p>2004<br/>bis<br/>2012</p> | 1/2"   | BSP                          |      |      |    | 1/2"       | BSP |      |      |    |
|  | <p>2014<br/>bis<br/>2025</p> | 3/4"   | BSP                          |      |      |    | 1/2"       | BSP |      |      |    |

Dimensions readings and approximative characteristics subject to modifications.

REAR BODIES

**AA**

Standard



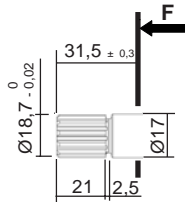
  Consult us for availability

DRIVING SHAFT

Splined

**F (11 teeth)**

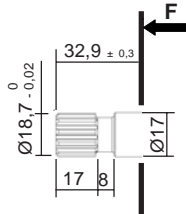
**F A**



Involute spline to SAE  
11 teeth - Pitch 16/32  
30° Pressure angle

Max. transmissible torque  
**70 N.m**

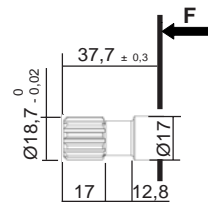
**F B**



Involute spline to SAE  
11 teeth - Pitch 16/32  
30° Pressure angle

Max. transmissible torque  
**70 N.m**

**F C**



Involute spline to SAE  
11 teeth - Pitch 16/32  
30° Pressure angle

Max. transmissible torque  
**70 N.m**

Dimensions readings and approximative characteristics subject to modifications.

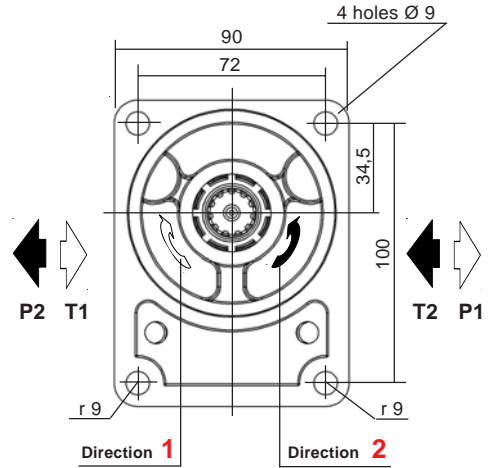
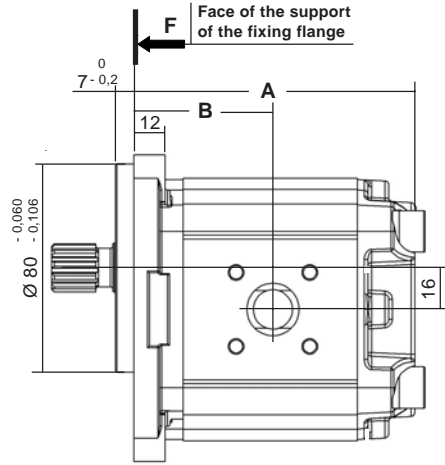
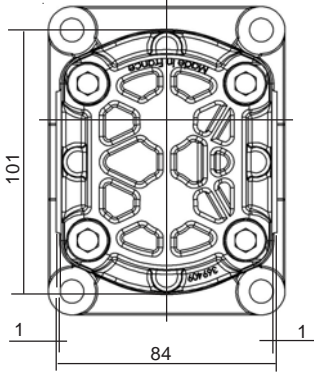
F.T 20 1411 3/3



Consult us for availability

P C 87 F V Sign 2 VII - VIII - IX Signs C 1 AA 00

For CODIFICATION, see data sheets F.T R 0268



CHOICE of the Capacity Dimensions A B

|      |        |      |
|------|--------|------|
| 2004 | 86,95  | 65   |
| 2006 | 89,95  | 66,5 |
| 2008 | 92,95  | 68   |
| 2010 | 95,95  | 69,5 |
| 2012 | 98,95  | 72   |
| 2014 | 101,95 | 73,5 |
| 2016 | 104,95 | 75   |
| 2018 | 107,95 | 76,5 |
| 2020 | 110,95 | 78   |
| 2022 | 113,95 | 79,5 |
| 2025 | 116,95 | 81   |

| MODEL | Capacity<br>cc / rev | MAX CONTINUOUS PRESSURE<br>in bar | MAX PEAK PRESSURE*<br>in bar | Mini Speed<br>RPM | Max speed<br>RPM | Drive torque at 100 bar 2000 RPM** in N.m |
|-------|----------------------|-----------------------------------|------------------------------|-------------------|------------------|---|
| 2004  | 4,1                  | 250                               | 270                          | 1000              | 6000             | 8   |
| 2006  | 6,2                  | 250                               | 270                          | 1000              | 6000             | 13  |
| 2008  | 8,3                  | 250                               | 270                          | 750               | 6000             | 17  |
| 2010  | 10,3                 | 250                               | 270                          | 500               | 6000             | 21  |
| 2012  | 12,4                 | 250                               | 270                          | 500               | 5000             | 25  |
| 2014  | 14,5                 | 250                               | 270                          | 500               | 5000             | 29  |
| 2016  | 16,5                 | 250                               | 270                          | 500               | 4000             | 30  |
| 2018  | 18,6                 | 250                               | 270                          | 500               | 3500             | 34  |
| 2020  | 20,6                 | 240                               | 260                          | 500               | 3500             | 38  |
| 2022  | 22,7                 | 230                               | 250                          | 500               | 3000             | 42  |
| 2025  | 24,8                 | 200                               | 220                          | 500               | 3000             | 46  |

\* Maximum duration = 0,5 s.

\*\* In the case of multistage pumps, the sum of the driving torque of the stage which simultaneously run, must be less than the maximum torque permitted to the drive shaft.  
- Maximum drive torque on the coupling between stages: 70N.m .

General characteristics:

For using beside these limits, please ask our technical department.

Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1412 1/3

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

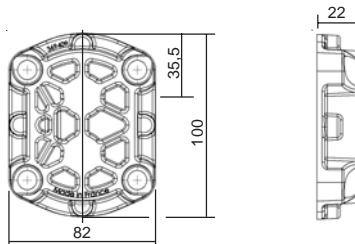
|  | Capacity                 | INLET (T)  |                          |      |      |    | OUTLET (P) |     |      |      |    |
|--|--------------------------|--|--------------------------|------|------|----|------------|-----|------|------|----|
|  |                          | ØA   | ØB                       | ØC   | D    | E  | ØA         | ØB  | ØC   | D    | E  |
|  |                          | <p><b>C</b><br/>(DIN)</p> <p>Ø B<br/>effective depth D</p> | <p>2004 bis<br/>2025</p> | 20   | M6   | 40 | 13         |     | 15   | M6   | 35 |
| <p><b>B</b><br/>(Italian)</p> <p>Ø B<br/>effective depth D</p>     | <p>2004 bis<br/>2010</p> | 13,5   | M6                       | 30   | 13   |    | 13,5       | M6  | 30   | 13   |    |
|  | <p>2015 bis<br/>2025</p> | 20   | M8                       | 40   | 13   |    | 13,5       | M6  | 30   | 13   |    |
| <p><b>Y</b><br/>(ISO)</p> <p>4 holes Ø B<br/>effective depth E</p> | <p>2004 bis<br/>2016</p> | 15   | M8                       | 17,4 | 38   | 14 | 15         | M8  | 17,4 | 38   | 14 |
|  | <p>2018 bis<br/>2025</p> | 20   | M10                      | 47,6 | 22,4 | 14 | 15         | M8  | 38   | 17,4 | 14 |
| <p><b>F</b><br/>(BSP)</p> <p>Ø A</p>                               | <p>2004 bis<br/>2012</p> | 1/2"   | BSP                      |      |      |    | 1/2"       | BSP |      |      |    |
|  | <p>2014 bis<br/>2025</p> | 3/4"   | BSP                      |      |      |    | 1/2"       | BSP |      |      |    |

Dimensions readings and approximative characteristics subject to modifications.

REAR BODIES

**AA**

Standard



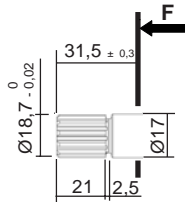
Consult us for availability

DRIVING SHAFT

Splined

**F (11 teeth)**

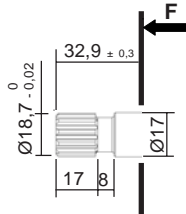
**F A**



Involute spline to SAE  
11 teeth - Pitch 16/32  
30° Pressure angle

Max. transmissible torque  
**70 N.m**

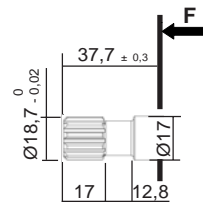
**F B**



Involute spline to SAE  
11 teeth - Pitch 16/32  
30° Pressure angle

Max. transmissible torque  
**70 N.m**

**F C**



Involute spline to SAE  
11 teeth - Pitch 16/32  
30° Pressure angle

Max. transmissible torque  
**70 N.m**

Dimensions readings and approximative characteristics subject to modifications.

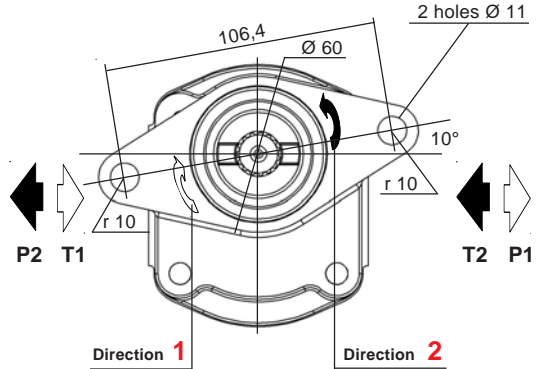
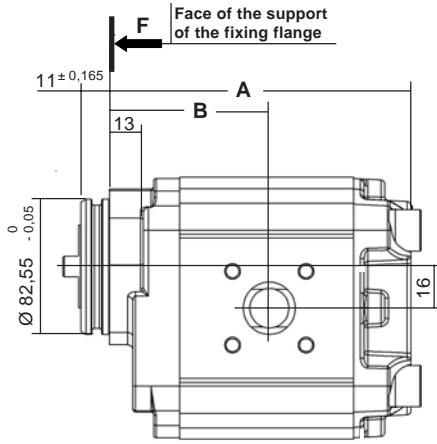
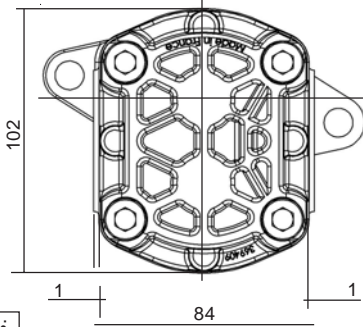
**F.T 20 1412 3/3**



Consult us for availability

**P C 95 F V Sign 2 VII - VIII - IX Signs C 1 AA 00**

For CODIFICATION, see data sheets **F.T R 0268**



**CHOICE of the Capacity Dimensions A B**

|      |        |      |
|------|--------|------|
| 2004 | 86,95  | 65   |
| 2006 | 89,95  | 66,5 |
| 2008 | 92,95  | 68   |
| 2010 | 95,95  | 69,5 |
| 2012 | 98,95  | 72   |
| 2014 | 101,95 | 73,5 |
| 2016 | 104,95 | 75   |
| 2018 | 107,95 | 76,5 |
| 2020 | 110,95 | 78   |
| 2022 | 113,95 | 79,5 |
| 2025 | 116,95 | 81   |

| MODEL | Capacity<br>cc / rev | MAX CONTINUOUS PRESSURE<br>in bar | MAX PEAK PRESSURE*<br>in bar | Mini Speed<br>RPM | Max speed<br>RPM | Drive torque at 100 bar 2000 RPM**<br>in N.m |
|-------|----------------------|-----------------------------------|------------------------------|-------------------|------------------|--|
| 2004  | 4,1                  | 250                               | 270                          | 1000              | 6000             | 8  |
| 2006  | 6,2                  | 250                               | 270                          | 1000              | 6000             | 13   |
| 2008  | 8,3                  | 250                               | 270                          | 750               | 6000             | 17   |
| 2010  | 10,3                 | 250                               | 270                          | 500               | 6000             | 21   |
| 2012  | 12,4                 | 250                               | 270                          | 500               | 5000             | 25   |
| 2014  | 14,5                 | 250                               | 270                          | 500               | 5000             | 29   |
| 2016  | 16,5                 | 250                               | 270                          | 500               | 4000             | 30   |
| 2018  | 18,6                 | 250                               | 270                          | 500               | 3500             | 34   |
| 2020  | 20,6                 | 240                               | 260                          | 500               | 3500             | 38   |
| 2022  | 22,7                 | 230                               | 250                          | 500               | 3000             | 42   |
| 2025  | 24,8                 | 200                               | 220                          | 500               | 3000             | 46   |

\* Maximum duration = 0,5 s.

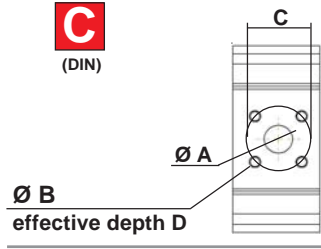
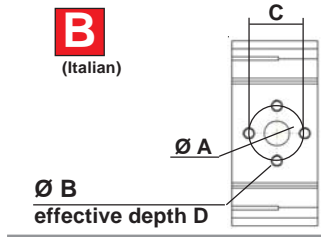
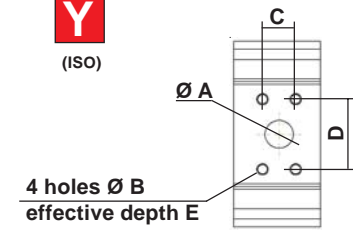
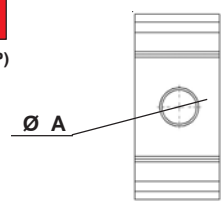
\*\* In the case of multistage pumps, the sum of the driving torque of the stage which simultaneously run, must be less than the maximum torque permitted to the drive shaft.  
- Maximum drive torque on the coupling between stages: 70N.m .

**General characteristics:**

For using beside these limits, please ask our technical department.

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

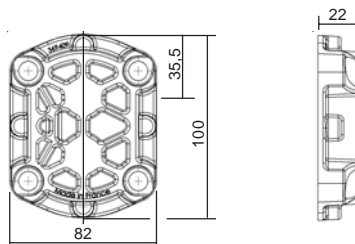
|   | Capacity                 | INLET (T)   |                          |      |      |    | OUTLET (P) |     |      |      |    |
|---|--------------------------|---|--------------------------|------|------|----|------------|-----|------|------|----|
|   |                          | ØA  | ØB                       | ØC   | D    | E  | ØA         | ØB  | ØC   | D    | E  |
|   |                          | <p><b>C</b><br/>(DIN)</p>  | <p>2004 bis<br/>2025</p> | 20   | M6   | 40 | 13         |     | 15   | M6   | 35 |
| <p><b>B</b><br/>(Italian)</p>  | <p>2004 bis<br/>2010</p> | 13,5  | M6                       | 30   | 13   |    | 13,5       | M6  | 30   | 13   |    |
|   | <p>2015 bis<br/>2025</p> | 20  | M8                       | 40   | 13   |    | 13,5       | M6  | 30   | 13   |    |
| <p><b>Y</b><br/>(ISO)</p>     | <p>2004 bis<br/>2016</p> | 15  | M8                       | 17,4 | 38   | 14 | 15         | M8  | 17,4 | 38   | 14 |
|   | <p>2018 bis<br/>2025</p> | 20  | M10                      | 47,6 | 22,4 | 14 | 15         | M8  | 38   | 17,4 | 14 |
| <p><b>F</b><br/>(BSP)</p>    | <p>2004 bis<br/>2012</p> | 1/2"  | BSP                      |      |      |    | 1/2"       | BSP |      |      |    |
|   | <p>2014 bis<br/>2025</p> | 3/4"  | BSP                      |      |      |    | 1/2"       | BSP |      |      |    |

Dimensions readings and approximative characteristics subject to modifications.

REAR BODIES

**AA**

Standard



  Consult us for availability

F.T 20 1413 2/3

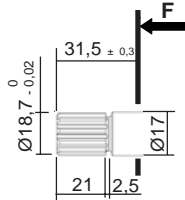


DRIVING SHAFT

Splined

**F (11 teeth)**

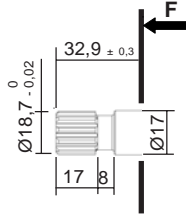
**F A**



Involute spline to SAE  
11 teeth - Pitch 16/32  
30° Pressure angle

Max. transmissible torque  
**70 N.m**

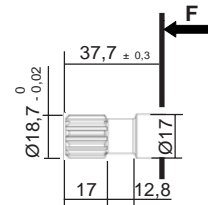
**F B**



Involute spline to SAE  
11 teeth - Pitch 16/32  
30° Pressure angle

Max. transmissible torque  
**70 N.m**

**F C**



Involute spline to SAE  
11 teeth - Pitch 16/32  
30° Pressure angle

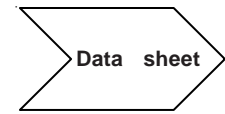
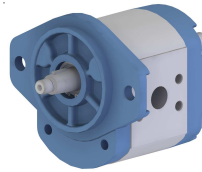
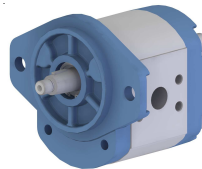
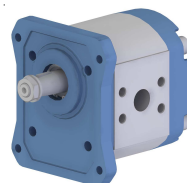
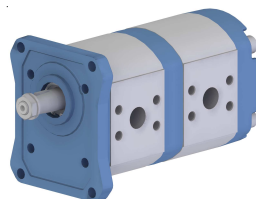
Max. transmissible torque  
**70 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1413 3/3**



Consult us for availability

**PUMPS PRESENTATION**  
**SERIES 2,6****F.T 26 1314****- FLAT FRONT BODIES****PUMP** **AAN****F.T 26 1315****PUMP** **AAK****F.T 26 1351****PUMP** **BAN****F.T 26 1316****PUMP** **CBN****F.T 26 1317****MULTIPLES PUMPS****F.T 26 1318**

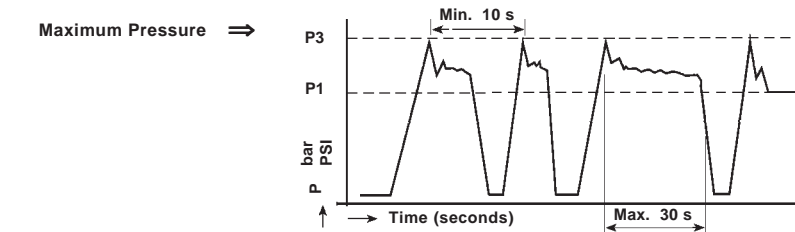
Consult us for availability

| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------|----------------------|----------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|       |                      | bar            | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Maxi speed |  |                                       |                      |
|       |                      |                |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| 2620  | 19,6                 | 330            | 4185 | 280                  | 4060 | 3000              | 29,40        | 58,80         | 3,70   | 36,66                                 | 8                    |
| 2625  | 24,2                 | 330            | 4185 | 280                  | 4060 | 3000              | 36,30        | 72,60         | 4,50   | 45,27                                 |                      |
| 2627  | 27,5                 | 330            | 4185 | 280                  | 4060 | 3000              | 41,25        | 82,50         | 5  | 51,25                                 |                      |
| 2630  | 30,5                 | 330            | 4185 | 280                  | 4060 | 3000              | 45,75        | 91,50         | 5,70   | 57,05                                 |                      |
| 2635  | 34,5                 | 290            | 4205 | 250                  | 3625 | 3000              | 51,75        | 103,50        | 6,40   | 64,54                                 |                      |
| 2640  | 39,8                 | 250            | 3625 | 210                  | 3045 | 3000              | 59,70        | 119,40        | 7,50   | 74,45                                 |                      |

The pump can only run in one way rotation (Precise the direction of rotation on order).  
 The working cycles hereunder are possible with hydraulic mineral oil for viscosities between 12 and 150 cSt (65,2 and 700 SUS).  
 The minimum viscosity of 12 cSt (65,2 SUS) is available for a maximum temperature in the hydraulic circuit.  
 Working temperature: - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C (284 °F) with Viton shaft seal).  
 Full flow filtration: 10 to 15 microns at the pressure port of the pump or on the return circuit.  
 Filtration on the suction side: 125 microns.  
 Pressure at the inlet of the pump:  
 - Minimum 0,7 bar absolute (Maxi depressure 300 millibar with regard to the air pressure).  
 - Maximum 2 bar absolute or 1 bar over the air pressure.  
 The hereabove characteristics concern the pumps driven by elastic couplings perfectly aligned without any external radial or axial force.  
 For any other coupling, see technical data sheet F.T.R 0009.  
 For use at maximum working conditions and/or intensive cycles, thanks to consult our technical sales service for validation.

Dimensions readings and approximative characteristics subject to modifications.

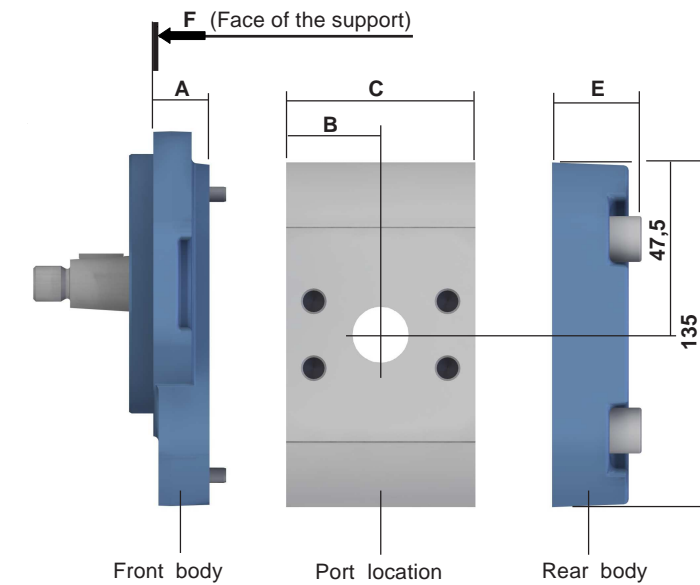
P1 Maximum pressure in continuous duty.  
 P3 Allowable peack pressure.



|                       |    |
|-----------------------|----|
| Front bodies:         | A  |
| AAN / AAK - BAN - CBN | 22 |

|           |      |      |
|-----------|------|------|
| Capacity: | B    | C    |
| 2620      | 37   | 74,1 |
| 2625      | 39,3 | 78,6 |
| 2627      | 41   | 82   |
| 2630      | 42,5 | 85,1 |
| 2635      | 44,5 | 89,1 |
| 2640      | 47,3 | 94,6 |

|            |      |
|------------|------|
| Rear body: | E    |
| L          | 31,2 |

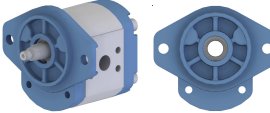










F.T 26 1314 1/5

Consult us for availability

P II Sign III Sign IV Sign **2 6** VI Sign VII Sign **L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**

| DIRECTION of ROTATION (II Sign) |     | FLAT FRONT BODIES (III and IV Sign)  | CAPACITY (V and VI Sign)   | PORT LOCATION (VII Sign)  |   | REAR BODIES (VIII Sign)   |   | DRIVING SHAFT (IX, X and XI Sign)   |                |   |      |  |  |  |
|---------------------------------|-----|--|--|---|---|---|---|---|----------------|---|------|--|--|--|
| P 1                             | P 2 |  |  | Y   | F   | L   | J*  | TAPERED   | STRAIGHT KEYED | SPLINED   | TANG |  |  |  |
| X                               | X   | <b>AAN / AAK</b><br> |  |   |   |   |   |   |                |   |      |  |  |  |
| X                               | X   | <b>BAN</b><br>       | <b>2620</b><br><b>2625</b><br><b>2627</b><br><b>2630</b><br><b>2635</b><br><b>2640</b> |  |  |  |  |  |                |  |      |  |  |  |
| X                               | X   | <b>CBN</b><br>      |  |   |   |   |   | <b>10 B09</b><br><b>10 C09</b>  |                | <b>30 A24</b>   |      |  |  |  |

LEGENDES

DIRECTION of ROTATION

P1 = Clockwise  
P2 = Anti clockwise

FRONT BODIES

AA\* = Fixing SAE and ISO  
BA\* = Fixing English and Italian  
CB\* = Fixing French  
DC\* = Fixing German


PORT LOCATION

F = Threaded ports  
Y = ISO Implantation (Standard 6162)

REAR BODIES

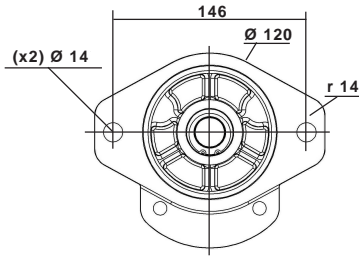
L = Standard  
J\* = Pre-arrangement for assembling "Module 3" see F.T 26 1354 page

Dimensions readings and approximative characteristics subject to modifications.

 Consult us for availability

FLAT FRONT BODIES

AAN / AAK

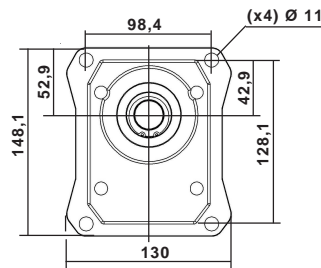


Centering:  $\varnothing 101,6^{+0,05}$   
Thickness: 9,5

AAN: F.T 26 1315

AAK: F.T 26 1351

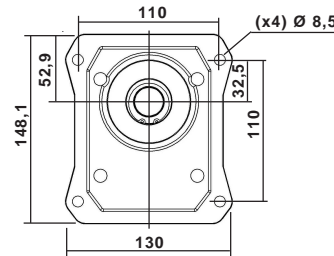
BAN



Centering:  $\varnothing 50,78^{+0,05}$   
Thickness: 5

BAN: F.T 26 1316

CBN

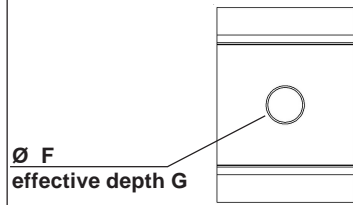


Centering:  $\varnothing 65^{+0,06}$   
Thickness: 5

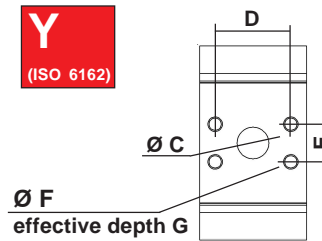
CBN: F.T 26 1317

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

**F**  
(Threaded)



**Y**  
(ISO 6162)

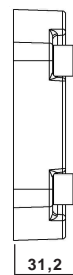
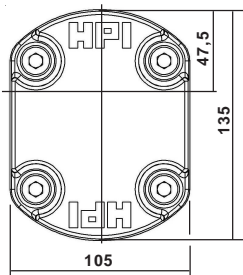


| Capacity            | INLET (T)           |      |      |            |        | OUTLET (P) |      |      |          |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |                             |
|---------------------|---------------------|------|------|------------|--------|------------|------|------|----------|----|--|-----------------------------|
|                     | ØC                  | D    | E    | ØF         | G      | ØC         | D    | E    | ØF       | G  | INLET (T)  | OUTLET (P)                  |
|                     | 2620<br>bis<br>2627 |      |      |            | 1" BSP | 19         |      |      |          |    |  |                             |
| 2630<br>-<br>2635   |                     |      |      | 1" BSP     | 19     |            |      |      | 3/4" BSP | 16 |  |                             |
| 2640                |                     |      |      | 1" 1/4 BSP | 21     |            |      |      |          |    |  |                             |
| 2620<br>bis<br>2627 | 25                  | 52,4 | 26,2 | M8         | 14     |            |      |      |          |    | 1" BSP<br>N: 368557.002  |                             |
| 2630<br>-<br>2635   | 30                  | 58,7 | 30,2 | M10        | 14     | 22         | 52,4 | 26,2 | M10      | 14 |  | 1" BSP<br>N: 368557.002     |
| 2640                | 32                  | 58,7 | 30,2 | M10        | 14     |            |      |      |          |    |  | 1" 1/4 BSP<br>N: 368557.003 |

REAR BODY

**L**

Standard



Consult us for availability

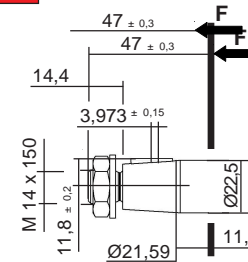
DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

B09

Taper 1 / 8



Delivered with nut Ref.: K102045  
and washer Ref.: K102100

Maxi transmissible torque  
**530 N.m**

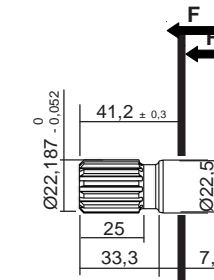
Straight keyed

20

Splined

30

A24



Involute spline SAE "B" - 13 teeth -  
Diametral Pitch 16/32  
30° Pressure angle

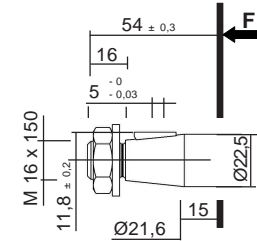
Maxi transmissible torque  
**310 N.m**

Tang

40

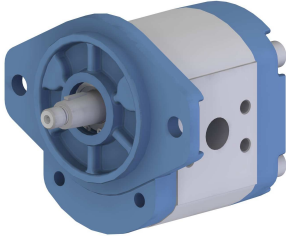
C09

Taper 1 / 5



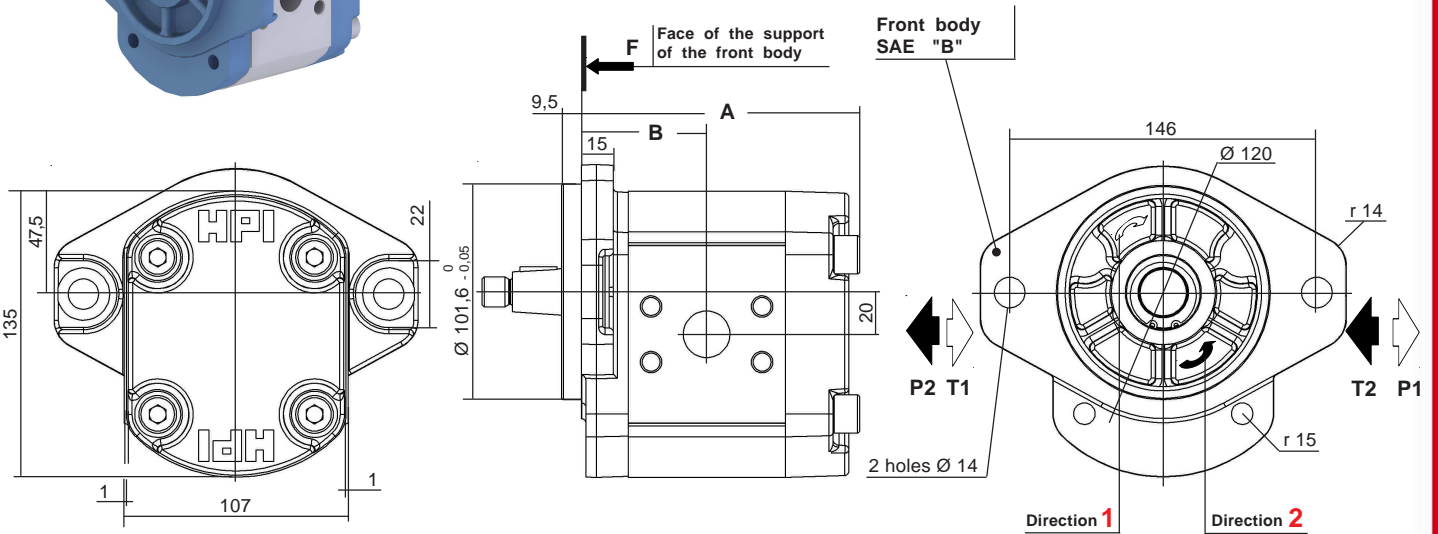
Delivered with nut Ref.: K106924  
and washer Ref.: K102101

Maxi transmissible torque  
**550 N.m**



**P** II Sign **AAN** **26** VI Sign **YL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 20                     | 127,3      | 59   |
| 25                     | 131,8      | 61,3 |
| 27                     | 135,2      | 62   |
| 30                     | 138,3      | 64,5 |
| 35                     | 142,3      | 66,5 |
| 40                     | 147,8      | 69,3 |

Multiples geared pumps, see data sheet **F.T 26 1318**

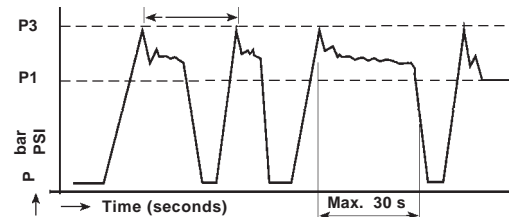
Seal kits:  
Nitrile: **K5093201**  
Viton: **K5093202**  
(For the manufacturings from 2002)

| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|------|----------------|--------------|---------------|--|---------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI  |                | at 1500 RPM  | at Maxi speed |  |                                 |                      |
|             |                      |                |      |                      |      |                | l / min      | l / min       |  |                                 |                      |
| <b>2620</b> | 19,6                 | 330            | 4185 | 280                  | 4060 | 3000           | 29,40        | 58,80         | 3,70                                     | 36,66                           | 8                    |
| <b>2625</b> | 24,2                 | 330            | 4185 | 280                  | 4060 | 3000           | 36,30        | 72,60         | 4,50                                     | 45,27                           |                      |
| <b>2627</b> | 27,5                 | 330            | 4185 | 280                  | 4060 | 3000           | 41,25        | 82,50         | 5  | 51,25                           |                      |
| <b>2630</b> | 30,5                 | 330            | 4185 | 280                  | 4060 | 3000           | 45,75        | 91,50         | 5,70                                     | 57,05                           |                      |
| <b>2635</b> | 34,5                 | 290            | 4205 | 250                  | 3625 | 3000           | 51,75        | 103,50        | 6,40                                     | 64,54                           |                      |
| <b>2640</b> | 39,8                 | 250            | 3625 | 210                  | 3045 | 3000           | 59,70        | 119,40        | 7,50                                     | 74,45                           |                      |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

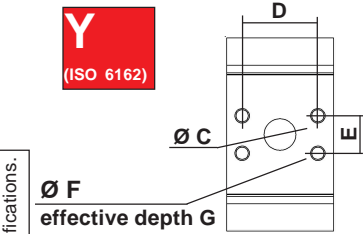
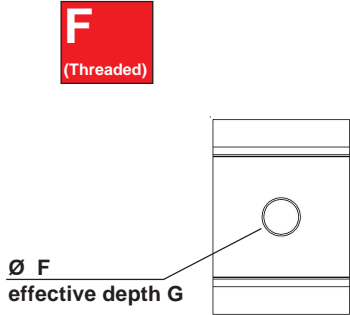
P3 Allowable peak pressure.



**F.T 26 1315 1/3**

**Consult us for availability**

**CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES**

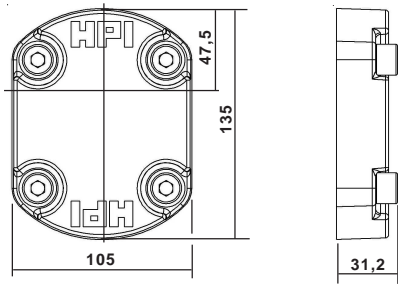


| Capacity            | INLET (T) |      |      |            |    | OUTLET (P) |      |      |          |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |                         |
|---------------------|-----------|------|------|------------|----|------------|------|------|----------|----|--|-------------------------|
|                     | ØC        | D    | E    | ØF         | G  | ØC         | D    | E    | ØF       | G  | INLET (T)  | OUTLET (P)              |
| 2620<br>bis<br>2627 |           |      |      | 1" BSP     | 19 |            |      |      |          |    |  |                         |
| 2630<br>-<br>2635   |           |      |      | 1" BSP     | 19 |            |      |      | 3/4" BSP | 16 |  |                         |
| 2640                |           |      |      | 1" 1/4 BSP | 21 |            |      |      |          |    |  |                         |
| 2620<br>bis<br>2627 | 25        | 52,4 | 26,2 | M8         | 14 |            |      |      |          |    | 1" BSP<br>N: 368557.002  | 1" BSP<br>N: 368557.002 |
| 2630<br>-<br>2635   | 30        | 58,7 | 30,2 | M10        | 14 | 22         | 52,4 | 26,2 | M10      | 14 | 1" 1/4 BSP<br>N: 368557.003  |                         |
| 2640                | 32        | 58,7 | 30,2 | M10        | 14 |            |      |      |          |    |  |                         |

**REAR BODY**



Standard



Dimensions readings and approximative characteristics subject to modifications.



Consult us for availability

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

Straight keyed

Splined

Tang

10

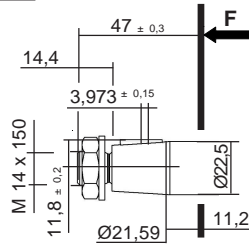
20

30

40

**B09**

Taper 1 / 8

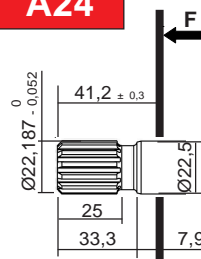


Delivered with nut Ref.: K102045  
and washer Ref.: K102100

Maxi transmissible torque

**530 N.m**

**A24**



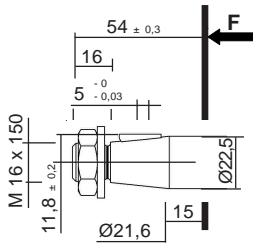
Involute spline SAE "B" - 13 teeth -  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque

**310 N.m**

**C09**

Taper 1 / 5



Delivered with nut Ref.: K106924  
and washer Ref.: K102101

Maxi transmissible torque

**550 N.m**

Dimensions readings and approximative characteristics subject to modifications.

F.T 26 1315 3/3

Consult us for availability

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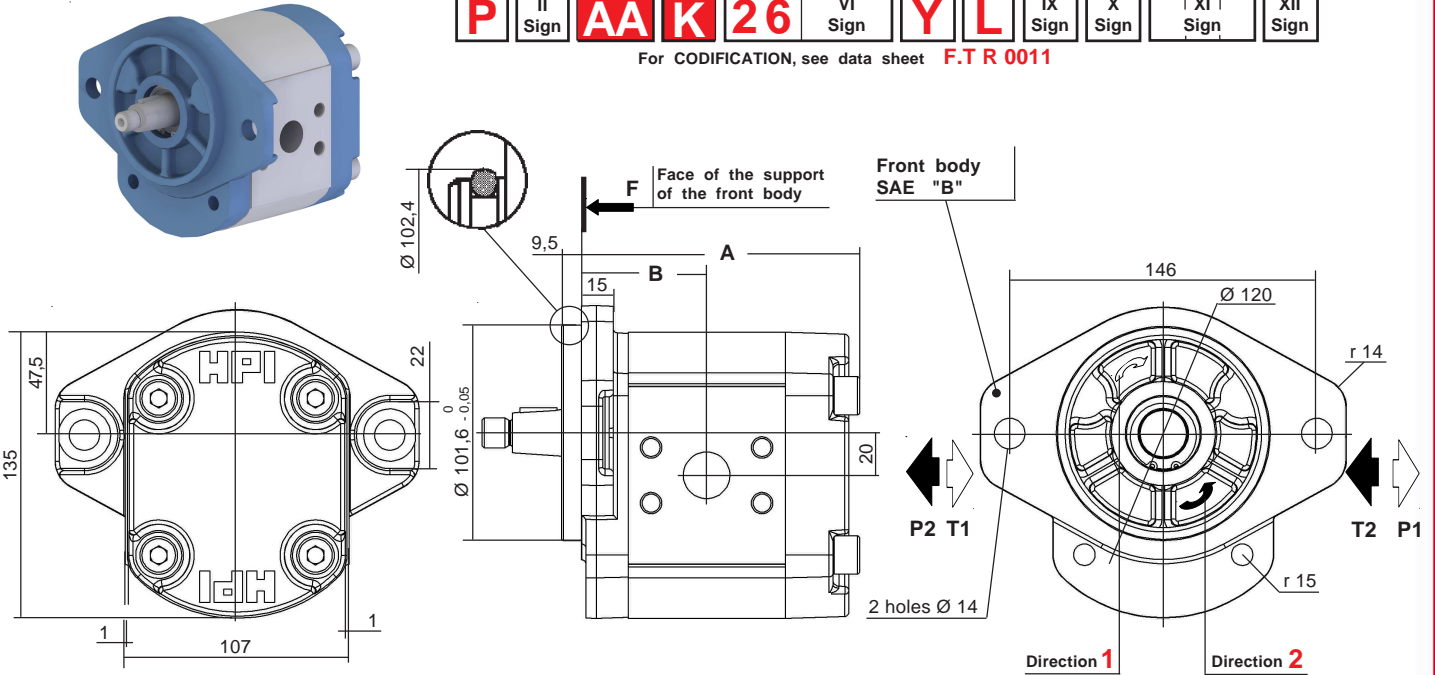
main dimensions

PUBLISHING 01/2016



**P** II Sign **AAK 26** VI Sign **YL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



| CHOICE of the Capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 20                     | 127,3      | 59   |
| 25                     | 131,8      | 61,3 |
| 27                     | 135,2      | 62   |
| 30                     | 138,3      | 64,5 |
| 35                     | 142,3      | 66,5 |
| 40                     | 147,8      | 69,3 |

Multiples geared pumps, see data sheet **F.T 26 1318**

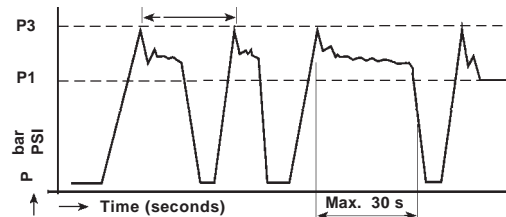
Seal kits:  
Nitrile: **K5093201 + K107081**  
Viton: **K5093202 + K107045**  
(For the manufacturings from 2002)

| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|------|----------------|--------------|---------------|--|---------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI  |                | at 1500 RPM  | at Maxi speed |  |                                 |                      |
|             |                      |                |      |                      |      |                | l / min      | l / min       |  |                                 |                      |
| <b>2620</b> | 19,6                 | 330            | 4185 | 280                  | 4060 | 3000           | 29,40        | 58,80         | 3,70                                     | 36,66                           | 8                    |
| <b>2625</b> | 24,2                 | 330            | 4185 | 280                  | 4060 | 3000           | 36,30        | 72,60         | 4,50                                     | 45,27                           |                      |
| <b>2627</b> | 27,5                 | 330            | 4185 | 280                  | 4060 | 3000           | 41,25        | 82,50         | 5  | 51,25                           |                      |
| <b>2630</b> | 30,5                 | 330            | 4185 | 280                  | 4060 | 3000           | 45,75        | 91,50         | 5,70                                     | 57,05                           |                      |
| <b>2635</b> | 34,5                 | 290            | 4205 | 250                  | 3625 | 3000           | 51,75        | 103,50        | 6,40                                     | 64,54                           |                      |
| <b>2640</b> | 39,8                 | 250            | 3625 | 210                  | 3045 | 3000           | 59,70        | 119,40        | 7,50                                     | 74,45                           |                      |

**P1** Maximum pressure in continuous duty.

Maximum Pressure ⇒

**P3** Allowable peak pressure.

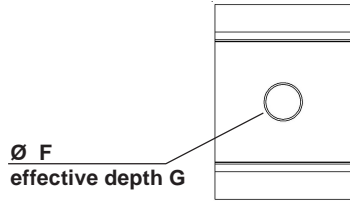


**F.T 26 1351 1/3**

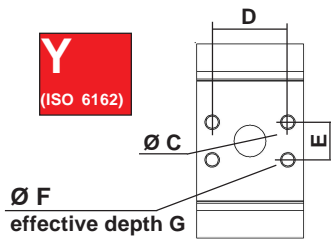
Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

**F**  
(Threaded)



**Y**  
(ISO 6162)

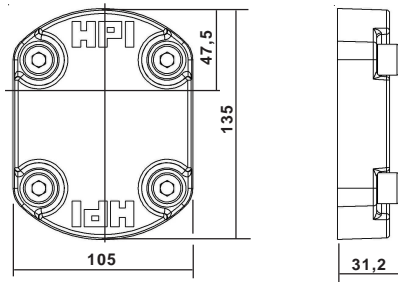


| Capacity            | INLET (T) |      |      |            |    | OUTLET (P) |      |      |          |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |                         |
|---------------------|-----------|------|------|------------|----|------------|------|------|----------|----|--|-------------------------|
|                     | ØC        | D    | E    | ØF         | G  | ØC         | D    | E    | ØF       | G  | INLET (T)  | OUTLET (P)              |
| 2620<br>bis<br>2627 |           |      |      | 1" BSP     | 19 |            |      |      |          |    |  |                         |
| 2630<br>-<br>2635   |           |      |      | 1" BSP     | 19 |            |      |      | 3/4" BSP | 16 |  |                         |
| 2640                |           |      |      | 1" 1/4 BSP | 21 |            |      |      |          |    |  |                         |
| 2620<br>bis<br>2627 | 25        | 52,4 | 26,2 | M8         | 14 |            |      |      |          |    | 1" BSP<br>N: 368557.002  | 1" BSP<br>N: 368557.002 |
| 2630<br>-<br>2635   | 30        | 58,7 | 30,2 | M10        | 14 | 22         | 52,4 | 26,2 | M10      | 14 | 1" 1/4 BSP<br>N: 368557.003  |                         |
| 2640                | 32        | 58,7 | 30,2 | M10        | 14 |            |      |      |          |    |  |                         |

REAR BODY

**L**

Standard



Dimensions readings and approximative characteristics subject to modifications.

F.T 26 1351 2/3

Consult us for availability

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

Straight keyed

20

Splined

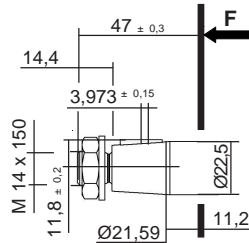
30

Tang

40

**B09**

Taper 1 / 8

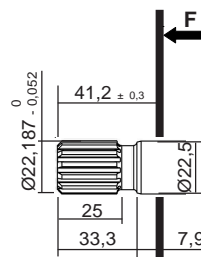


Delivered with nut Ref.: K102045  
and washer Ref.: K102100

Maxi transmissible torque

**530 N.m**

**A24**



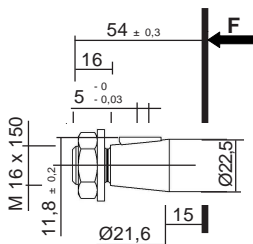
Involute spline SAE "B" - 13 teeth -  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque

**310 N.m**

**C09**

Taper 1 / 5



Delivered with nut Ref.: K106924  
and washer Ref.: K102101

Maxi transmissible torque

**550 N.m**

Dimensions readings and approximative characteristics subject to modifications.

F.T 26 1351 3/3

Consult us for availability

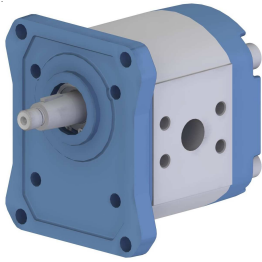
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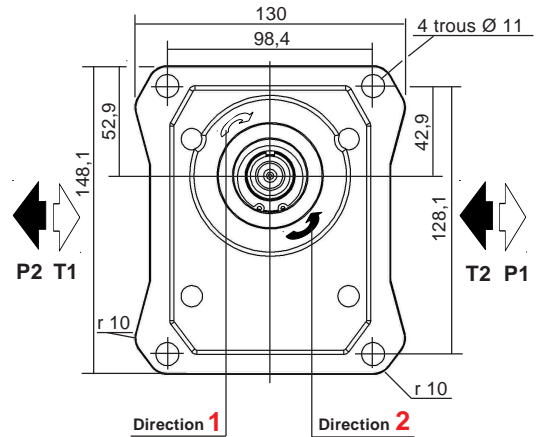
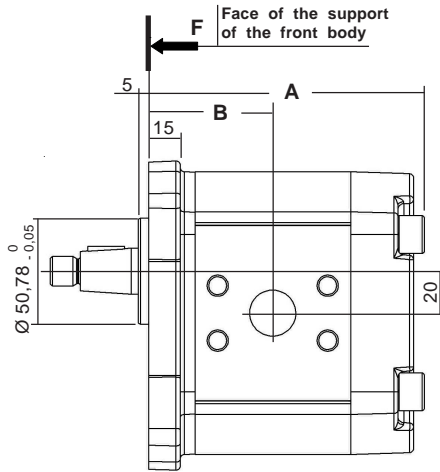
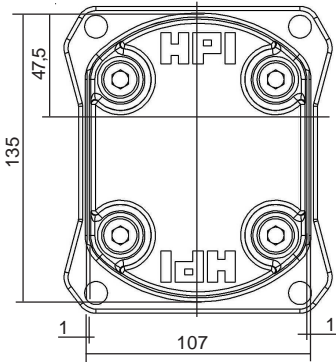
next

main dimensions



**P** II Sign **BA N 2 6** VI Sign **Y L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 20                     | 127,3      | 59   |
| 25                     | 131,8      | 61,3 |
| 27                     | 135,2      | 62   |
| 30                     | 138,3      | 64,5 |
| 35                     | 142,3      | 66,5 |
| 40                     | 147,8      | 69,3 |

Multiples geared pumps, see data sheet **F.T 26 1318**

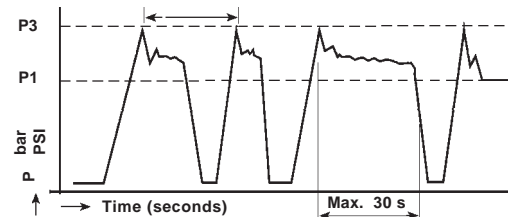
Seal kits:  
Nitrile: **K5093201**  
Viton: **K5093202**  
(For the manufacturings from 2002)

| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Maxi speed |  |                                       |                      |
|             |                      |                |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| <b>2620</b> | 19,6                 | 330            | 4185 | 280                  | 4060 | 3000              | 29,40        | 58,80         | 3,70   | 36,66                                 | 8                    |
| <b>2625</b> | 24,2                 | 330            | 4185 | 280                  | 4060 | 3000              | 36,30        | 72,60         | 4,50   | 45,27                                 |                      |
| <b>2627</b> | 27,5                 | 330            | 4185 | 280                  | 4060 | 3000              | 41,25        | 82,50         | 5  | 51,25                                 |                      |
| <b>2630</b> | 30,5                 | 330            | 4185 | 280                  | 4060 | 3000              | 45,75        | 91,50         | 5,70   | 57,05                                 |                      |
| <b>2635</b> | 34,5                 | 290            | 4205 | 250                  | 3625 | 3000              | 51,75        | 103,50        | 6,40   | 64,54                                 |                      |
| <b>2640</b> | 39,8                 | 250            | 3625 | 210                  | 3045 | 3000              | 59,70        | 119,40        | 7,50   | 74,45                                 |                      |

**P1** Maximum pressure in continuous duty.

Maximum Pressure ⇒

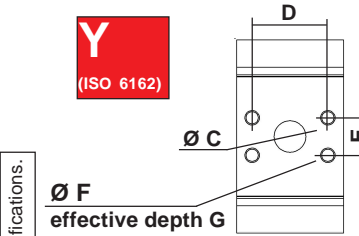
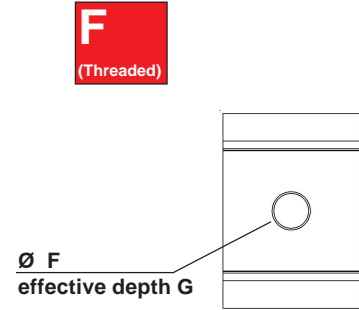
**P3** Allowable peack pressure.



**F.T 26 1316 1/3**

**Consult us for availability**

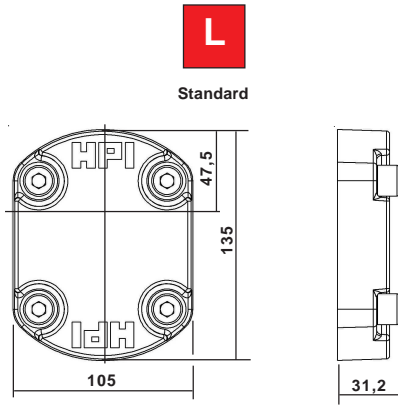
**CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES**



| Capacity            | INLET (T) |      |      |            |    | OUTLET (P) |      |      |          |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |                         |
|---------------------|-----------|------|------|------------|----|------------|------|------|----------|----|--|-------------------------|
|                     | ØC        | D    | E    | ØF         | G  | ØC         | D    | E    | ØF       | G  | INLET (T)  | OUTLET (P)              |
| 2620<br>bis<br>2627 |           |      |      | 1" BSP     | 19 |            |      |      |          |    |  |                         |
| 2630<br>-<br>2635   |           |      |      | 1" BSP     | 19 |            |      |      | 3/4" BSP | 16 |  |                         |
| 2640                |           |      |      | 1" 1/4 BSP | 21 |            |      |      |          |    |  |                         |
| 2620<br>bis<br>2627 | 25        | 52,4 | 26,2 | M8         | 14 |            |      |      |          |    | 1" BSP<br>N: 368557.002  |                         |
| 2630<br>-<br>2635   | 30        | 58,7 | 30,2 | M10        | 14 | 22         | 52,4 | 26,2 | M10      | 14 |  | 1" BSP<br>N: 368557.002 |
| 2640                | 32        | 58,7 | 30,2 | M10        | 14 |            |      |      |          |    | 1" 1/4 BSP<br>N: 368557.003  |                         |

Dimensions readings and approximative characteristics subject to modifications.

**REAR BODY**



**F.T 26 1316 2/3**

Consult us for availability

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

Straight keyed

20

Splined

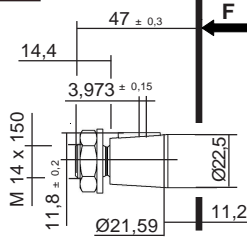
30

Tang

40

**B09**

Taper 1/8

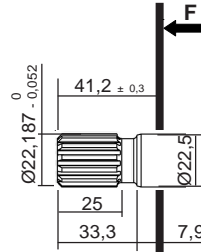


Delivered with nut Ref.: K102045  
and washer Ref.: K102100

Maxi transmissible torque

**530 N.m**

**A24**



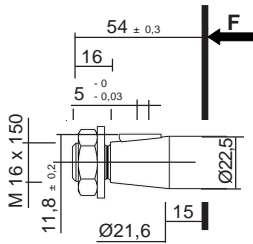
Involute spline SAE "B" - 13 teeth -  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque

**310 N.m**

**C09**

Taper 1/5



Delivered with nut Ref.: K106924  
and washer Ref.: K102101

Maxi transmissible torque

**550 N.m**

Dimensions readings and approximative characteristics subject to modifications.

F.T 26 1316 3/3

Consult us for availability

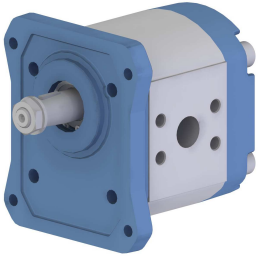
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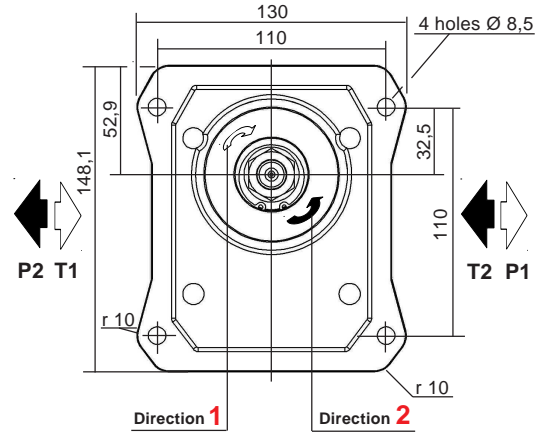
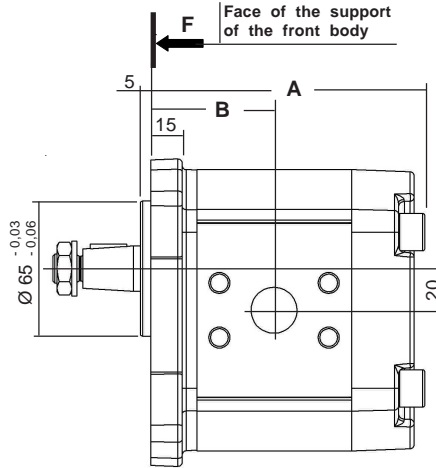
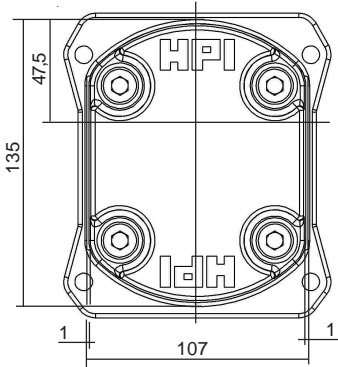
next

main dimensions



**P** II Sign **CB N 2 6** VI Sign **Y L** IX Sign X Sign XI Sign XII Sign

For the CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 20                     | 127,3      | 59   |
| 25                     | 131,8      | 61,3 |
| 27                     | 135,2      | 62   |
| 30                     | 138,3      | 64,5 |
| 35                     | 142,3      | 66,5 |
| 40                     | 147,8      | 69,3 |

Multiples geared pumps, see data sheet **F.T 26 1318**

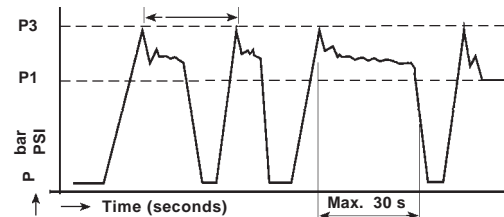
Seal kits:  
Nitrile: **K5093201**  
Viton: **K5093202**  
(For the manufacturing from 2002)

| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|------|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI  |                   | at 1500 RPM  | at Maxi speed |  |                                       |                      |
|             |                      |                |      |                      |      |                   | l / min      | l / min       |  |                                       |                      |
| <b>2620</b> | 19,6                 | 330            | 4185 | 280                  | 4060 | 3000              | 29,40        | 58,80         | 3,70   | 36,66                                 | 8                    |
| <b>2625</b> | 24,2                 | 330            | 4185 | 280                  | 4060 | 3000              | 36,30        | 72,60         | 4,50   | 45,27                                 |                      |
| <b>2627</b> | 27,5                 | 330            | 4185 | 280                  | 4060 | 3000              | 41,25        | 82,50         | 5  | 51,25                                 |                      |
| <b>2630</b> | 30,5                 | 330            | 4185 | 280                  | 4060 | 3000              | 45,75        | 91,50         | 5,70   | 57,05                                 |                      |
| <b>2635</b> | 34,5                 | 290            | 4205 | 250                  | 3625 | 3000              | 51,75        | 103,50        | 6,40   | 64,54                                 |                      |
| <b>2640</b> | 39,8                 | 250            | 3625 | 210                  | 3045 | 3000              | 59,70        | 119,40        | 7,50   | 74,45                                 |                      |

**P1** Maximum pressure in continuous duty.

Maximum Pressure ⇒

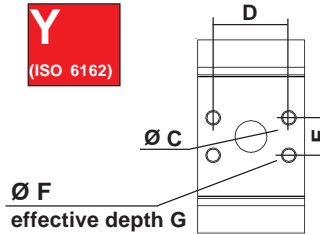
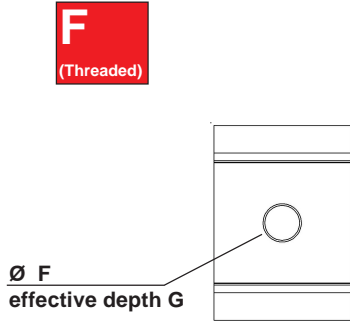
**P3** Allowable peak pressure.



**F.T 26 1317 1/3**

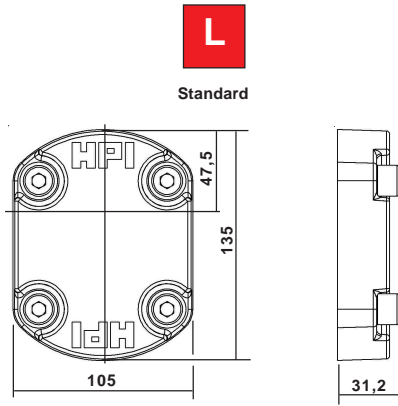
Consult us for availability

**CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES**



| Capacity            | INLET (T) |      |      |            |    | OUTLET (P) |      |      |          |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |                         |
|---------------------|-----------|------|------|------------|----|------------|------|------|----------|----|--|-------------------------|
|                     | ØC        | D    | E    | ØF         | G  | ØC         | D    | E    | ØF       | G  | INLET (T)  | OUTLET (P)              |
| 2620<br>bis<br>2627 |           |      |      | 1" BSP     | 19 |            |      |      |          |    |  |                         |
| 2630<br>-<br>2635   |           |      |      | 1" BSP     | 19 |            |      |      | 3/4" BSP | 16 |  |                         |
| 2640                |           |      |      | 1" 1/4 BSP | 21 |            |      |      |          |    |  |                         |
| 2620<br>bis<br>2627 | 25        | 52,4 | 26,2 | M8         | 14 |            |      |      |          |    | 1" BSP<br>N: 368557.002  |                         |
| 2630<br>-<br>2635   | 30        | 58,7 | 30,2 | M10        | 14 | 22         | 52,4 | 26,2 | M10      | 14 |  | 1" BSP<br>N: 368557.002 |
| 2640                | 32        | 58,7 | 30,2 | M10        | 14 |            |      |      |          |    | 1" 1/4 BSP<br>N: 368557.003  |                         |

**REAR BODY**



Dimensions readings and approximative characteristics subject to modifications.

F.T 26 1317 2/3

Consult us for availability



DRIVING SHAFT (FLAT FRONT BODY)

Tapered

**10**

Straight keyed

**20**

Splined

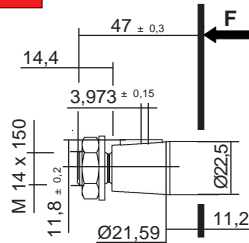
**30**

Tang

**40**

**B09**

Taper 1 / 8

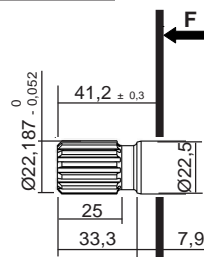


Delivered with nut Ref.: K102045  
and washer Ref.: K102100

Maxi transmissible torque

**530 N.m**

**A24**



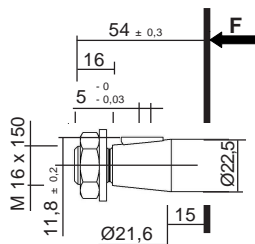
Involute spline SAE "B" - 13 teeth -  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque

**310 N.m**

**C09**

Taper 1 / 5



Delivered with nut Ref.: K106924  
and washer Ref.: K102101

Maxi transmissible torque

**550 N.m**

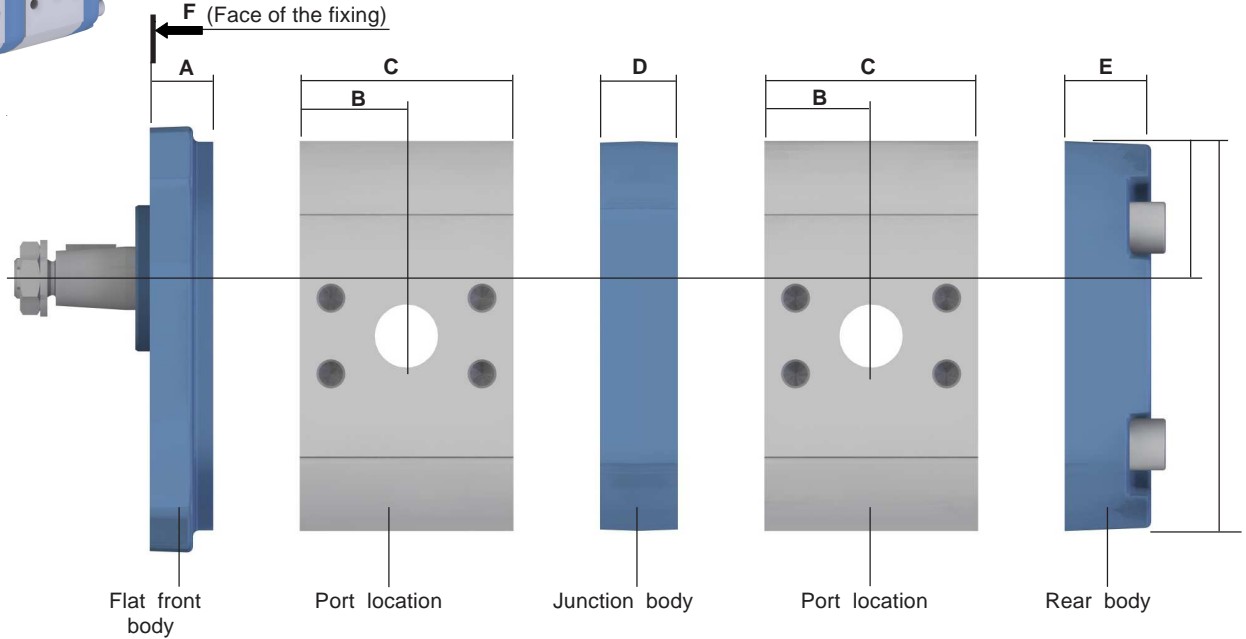
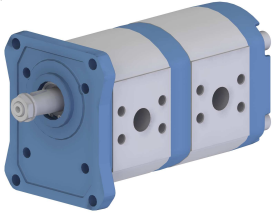
Dimensions readings and approximative characteristics subject to modifications.

F.T 26 1317 3/3



Consult us for availability

For CODIFICATION, see data sheet **F.T R 0030**



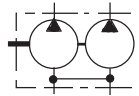
| Capacity | B    | C    | D  | E    |
|----------|------|------|----|------|
| 20       | 37   | 74,1 | 27 | 31,2 |
| 25       | 39,3 | 78,6 |    |      |
| 27       | 41   | 82   |    |      |
| 30       | 42,5 | 85,1 |    |      |
| 35       | 44,5 | 89,1 |    |      |
| 40       | 47,3 | 94,6 |    |      |

|                              |           |
|------------------------------|-----------|
| Flat front body              | A         |
| <b>AAN / AAK - BAN - CBN</b> | <b>22</b> |

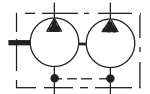
**ATTENTION**  
For common suctions.  
Tolerated maximum flow, contact us.

**JUNCTION BODY (Schematic examples for 2 elements pumps)**

**Code A** Communication between suction ports  
(Capacity of the pump without suction  $\geq$  half of the capacity of the front section)



**Code D** Independant inlet side (communication of leaks)  
(Oil and tank to be necessarily)



Possible combinations of junctions up to 5 elements

**CALCULATION of the TORQUE**

Q Capacity in cc / rev  
P Pressure in bar

Calculation of the torque for one pump body:  $\frac{1,59 \times Q \times P}{1000 \times \eta_m} = C \text{ (N.m)}$

$\eta_m$  Méchanical efficiency (see catalogue C10)

Example : P 1 BAN 2627 Y D 2620 Y L 10 B09 Pressure: 2627 200 bar Speed: 1500 t/min  
2620 150 bar

$\frac{1,59 \times 27 \times 200}{1000 \times 0,87} = 9,86 \text{ N.m}$

$\frac{1,59 \times 20 \times 150}{1000 \times 0,87} = 5,48 \text{ N.m}$

= **15,34 N.m** → Total torque

Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

F.T 26 1318

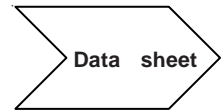
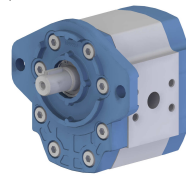
**PUMPS PRESENTATION**  
**SERIES 3**

**- FLAT FRONT BODIES**



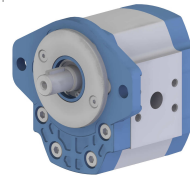
**F.T 30 1312**

**PUMP AAN**



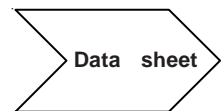
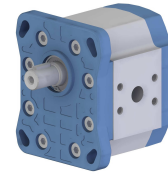
**F.T 30 1320**

**PUMP AAK**



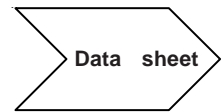
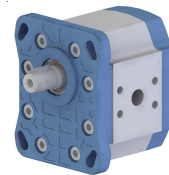
**F.T 30 1357**

**PUMP BAN**



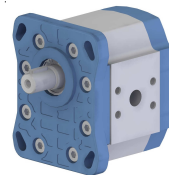
**F.T 30 1321**

**PUMP CBN**



**F.T 30 1322**

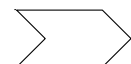
**PUMP CBK**

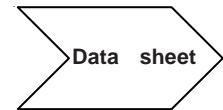
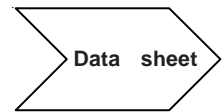
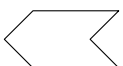


**F.T 30 1358**



Consult us for availability



**- FLAT FRONT BODY (rest)****PUMP DBN****F.T 30 1312****PUMP DBK****F.T 30 1320****MULTIPLES  
PUMPS****F.T 30 1356**

Consult us for availability

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PUBLISHING 17 / 03 / 2011

| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at<br>1000 RPM<br>and<br>100 bar | Input torque<br>at<br>100 bar<br>and<br>N.m | Approx.<br>weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|-----|-------------------|--------------|---------------|--|---|-------------------------|
|             |                      | bar            | PSI  | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |   |                         |
|             |                      |                |      |                      |     |                   | l / min      | l / min       |  |   |                         |
| <b>3020</b> | 21,1                 | 275            | 3987 | 235                  | 235 | 3000              | 31,65        | 63,3          | 4  | 3,74  | 5,6                     |
| <b>3025</b> | 25,8                 | 275            | 3987 | 235                  | 235 | 3000              | 38,7         | 77,4          | 4,90   | 4,63  | 5,6                     |
| <b>3031</b> | 32,1                 | 275            | 3987 | 235                  | 235 | 3000              | 48,15        | 96,3          | 6,10   | 5,73  | 5,6                     |
| <b>3040</b> | 41,5                 | 275            | 3987 | 235                  | 235 | 3000              | 62,25        | 124,5         | 7,85   | 7,37  | 5,7                     |
| <b>3050</b> | 51,65                | 250            | 3625 | 215                  | 215 | 3000              | 77,47        | 154,9         | 9,77   | 9,21  | 6,9                     |
| <b>3060</b> | 62,6                 | 225            | 3262 | 190                  | 190 | 2500              | 93,9         | 156,5         | 11,85  | 11,05                                       | 7                       |
| <b>3071</b> | 73,55                | 225            | 3262 | 190                  | 190 | 2500              | 110,32       | 183,8         | 13,92  | 13,08                                       | 7                       |
| <b>3080</b> | 82,95                | 200            | 2900 | 170                  | 170 | 2200              | 124,42       | 182,4         | 15,59  | 14,60                                       | 7,1                     |
| <b>3090</b> | 92,95                | 150            | 2175 | 130                  | 130 | 2000              | 139,42       | 185,9         | 17,47  | 16,47                                       | 7,8                     |
| <b>3100</b> | 103,9                | 150            | 2175 | 130                  | 130 | 2000              | 155,85       | 207,8         | 19,40  | 18,17                                       | 8                       |

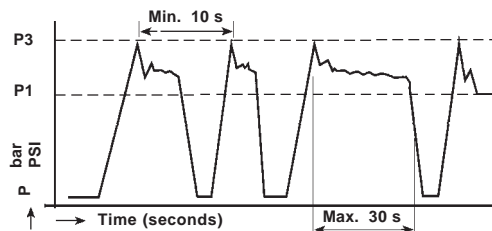
Dimensions readings and approximative characteristics subject to modifications.

The pump can only run in one way rotation (Precise the direction of rotation on order).  
 The working cycles hereunder are possible with hydraulic mineral oil for viscosities between 12 and 150 cSt (65,2 and 700 SUS).  
 The minimum viscosity of 12 cSt (65,2 SUS) is available for a maximum temperature in the hydraulic circuit .  
 Working temperature: - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C (284 °F) with Viton shaft seal).  
 Full flow filtration: 10 to 15 microns at the pressure port of the pump or on the return circuit.  
 Filtration on the suction side: 125 microns.  
 Pressure at the inlet of the pump:  
 - Minimum 0,7 bar absolute (Maxi depressure 300 millibar with regard to the air pressure).  
 - Maximum 2 bar absolute or 1 bar over the air pressure.  
 The hereabove characteristics concern the pumps driven by elastic couplings perfectly aligned without any external radial or axial force.  
 For any other coupling, see technical data sheet F.T R 0009.  
 For use at maximum working conditions and/or intensive cycles, thanks to consult our technical sales service for validation.

**P1** Maximum pressure in continuous duty.

**Maximum Pressure**

**P3** Allowable peack pressure.



**F.T 30 1312 1/10**



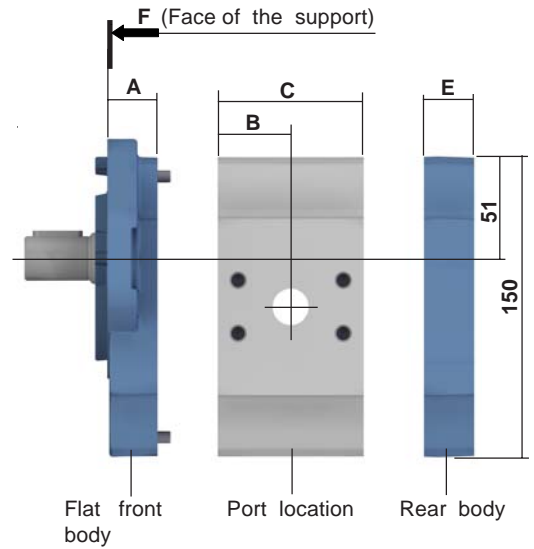
Consult us for availability

**FLAT FRONT BODIES**

|                              |           |
|------------------------------|-----------|
| <b>Flat front bodies:</b>    | <b>A</b>  |
| <b>AAN / AAK - BAN</b>       | <b>25</b> |
| <b>CBN / CBK - DBN / DBK</b> |           |

|                                  |             |              |
|----------------------------------|-------------|--------------|
| <b>Port location (capacity):</b> | <b>B</b>    | <b>C</b>     |
| <b>3020 - 3025 - 3031 - 3040</b> | <b>36,3</b> | <b>72,7</b>  |
| <b>3050 - 3060</b>               | <b>49,5</b> | <b>99,2</b>  |
| <b>3071 - 3080 - 3090 - 3100</b> | <b>59,2</b> | <b>119,2</b> |

|                     |           |
|---------------------|-----------|
| <b>Rear bodies:</b> | <b>E</b>  |
| <b>L</b>            | <b>25</b> |
| <b>A - V</b>        | <b>33</b> |



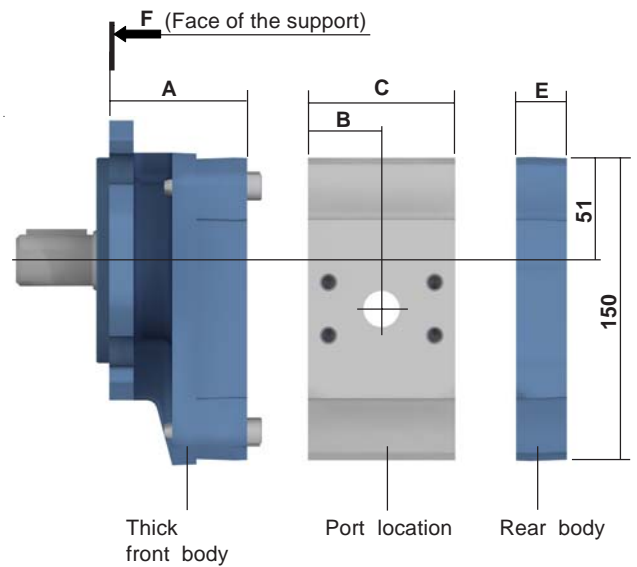
Dimensions readings and approximative characteristics subject to modifications.

**THICK FRONT BODIES**

|                              |           |
|------------------------------|-----------|
| <b>Thick front bodies:</b>   | <b>A</b>  |
| <b>AAP / AEP - AAR / AER</b> | <b>68</b> |
| <b>AAX - ABP / ABR</b>       |           |
| <b>ADP / ADR - ADX / ADZ</b> |           |
| <b>ZFC</b>                   | <b>72</b> |

|                                  |             |              |
|----------------------------------|-------------|--------------|
| <b>Port location (capacity):</b> | <b>B</b>    | <b>C</b>     |
| <b>3020 - 3025 - 3031 - 3040</b> | <b>36,3</b> | <b>72,7</b>  |
| <b>3050 - 3060</b>               | <b>49,5</b> | <b>99,2</b>  |
| <b>3071 - 3080 - 3090 - 3100</b> | <b>59,2</b> | <b>119,2</b> |

|                     |           |
|---------------------|-----------|
| <b>Rear bodies:</b> | <b>E</b>  |
| <b>L</b>            | <b>25</b> |
| <b>A - V</b>        | <b>33</b> |


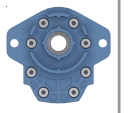

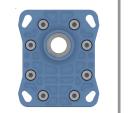

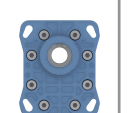






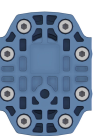
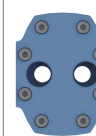
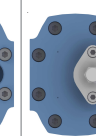
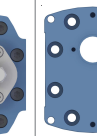

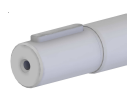

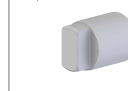
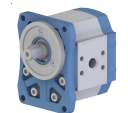
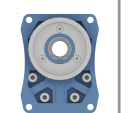

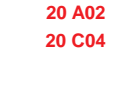

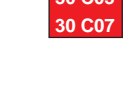


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Consult us for availability

**P** II Sign III Sign IV Sign **3** VI Sign VII Sign VIII Sign IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**

| DIRECTION of ROTATION<br>(II Sign) | FLAT FRONT BODIES<br>(III and IV Sign) | CAPACITY<br>(V and VI Sign)  | PORT LOCATION<br>(VII Sign)   |   |   |   |   |   | REAR BODIES<br>(VIII Sign)  |   |   |   | DRIVING SHAFTS<br>(IX, X and XI Sign)   |  |  |  |   |  |
|------------------------------------|--|--|---|---|---|---|---|---|---|---|---|---|---|--|--|--|---|--|
|                                    |  |  | H   | C   | B   | U   | X   | Y   | L   | A   | V   | J*  | TAPERED<br>10   | STRAIGHT KEYED<br>20   | SPLINED<br>30  | TANG<br>40   |   |  |
| X                                  | X                                      | <b>AAN / AAK</b><br><br>     | <b>3020</b>   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |  |
| X                                  | X                                      | <b>BAN</b><br><br>           | <b>3025</b>   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |  |
| X                                  | X                                      | <b>CBN / CBK</b><br><br>     | <b>3031</b><br><b>3040</b><br><b>3050</b><br><b>3060</b><br><b>3071</b> |  |  |  |  |  |  |  |  |  |  | <br><b>10 B03</b> | <br><b>20 A02</b> | <br><b>30 A02</b> | <br><b>40 C04</b>  |  |
| X                                  | X                                      | <b>DBN / DBK</b><br><br> | <b>3080</b><br><b>3090</b><br><b>3100</b>                               |   |   |   |   |   |   |   |   |   |   | <br><b>10 B04</b> | <br><b>20 C04</b> | <br><b>30 C03</b> | <br><b>30 C07</b> |  |

**LEGENDES**

**DIRECTION of ROTATION**

**P1** = Clockwise  
**P2** = Anti clockwise

**FRONT BODIES**

**A\*\*** = Fixing SAE and ISO  
**BAN** = Fixing English and Italian  
**CB\*** = Fixing French  
**DB\*** = Fixing German  
**ZFC** = Fixing ZF

**PORT LOCATION**


**H** = HPI  
**C** = Square location  
**B** = Italian location  
**U** = SAE Threaded ports (Norm J 475)  
**X** = without ports  
**Y** = ISO location (Norm 6162)

**REAR BODIES**

**L** = Standard  
**A** = External flow control  
**V** = Low pressure relief valve, internal return  
**J\*** = Pre-arrangement for assembling «Module 3» see F.T 30 1355 page

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1312 3/10

 Consult us for availability

**P** II Sign III Sign IV Sign **3** VI Sign VII Sign VIII Sign IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**

| DIRECTION of ROTATION<br>(II Sign)<br>P 1 P 2 | THICK FRONT BODIES<br>(III and IV Sign)        | CAPACITY<br>(V and VI Sign)   | PORT LOCATION<br>(VII Sign) |   |   |   |   |   | REAR BODIES<br>(VIII Sign) |   |   |    | DRIVING SHAFT<br>(IX, X and XI Sign) |                      |               |            |  |  |
|---|--|---|-----------------------------|---|---|---|---|---|----------------------------|---|---|----|--------------------------------------|----------------------|---------------|------------|--|--|
|   |  |   | H                           | ■ | ■ | U | X | ■ | L                          | A | V | J* | TAPERED<br>10                        | STRAIGHT KEYED<br>20 | SPLINED<br>30 | TANG<br>40 |  |  |
| X X   | <b>AAP / AEP</b><br><b>AAR / AER - AAX</b><br> |   |                             |   |   |   |   |   |                            |   |   |    |                                      |                      |               |            |  |  |
| X X   | <b>ABP / ABR</b><br>                           | <b>3020</b><br><b>3025</b><br><b>3031</b><br><b>3040</b><br><b>3050</b> |                             |   |   |   |   |   |                            |   |   |    |                                      |                      |               |            |  |  |
| X X   | <b>ADP / ADR</b><br><b>ADX / ADZ</b><br>       | <b>3060</b><br><b>3071</b><br><b>3080</b><br><b>3090</b><br><b>3100</b> |                             |   |   |   |   |   |                            |   |   |    |                                      |                      |               |            |  |  |
| X X   | <b>ZFC</b><br>                                 |   |                             |   |   |   |   |   |                            |   |   |    |                                      |                      |               |            |  |  |

**LEGENDES**

**DIRECTION of ROTATION**

**P1** = Clockwise  
**P2** = Anti clockwise

**FRONT BODIES**

**A\*\*** = Fixing SAE and ISO  
**BAN** = Fixing English and Italian  
**CB\*** = Fixing French  
**DB\*** = Fixing German  
**ZFC** = Fixing ZF

**PORT LOCATION**

**H** = HPI  
**C** = Square location  
**B** = Italian location  
**U** = SAE Threaded ports (Norm J 475)  
**X** = without ports  
**Y** = ISO location (Norm 6162)

**REAR BODIES**

**L** = Standard  
**A** = External flow control  
**V** = Low pressure relief valve, internal return  
**J\*** = Pre-arrangement for assembling «Module 3» see F.T 30 1355 page

Consult us for availability

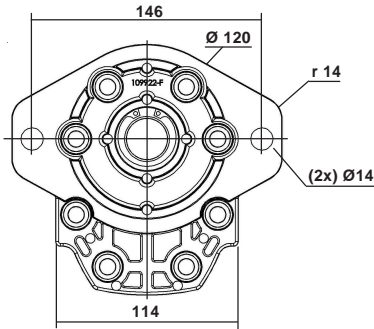
Dimensions readings and approximative characteristics subject to modifications.

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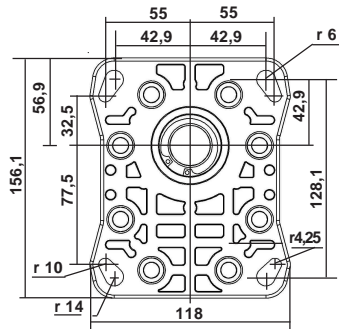
**FLAT FRONT BODIES**

**AAN / AAK**



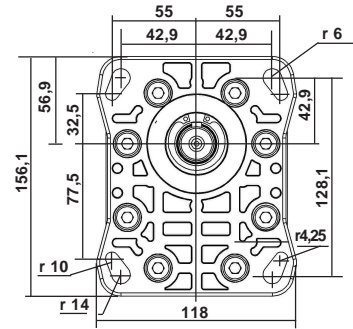
Centering:  $\varnothing 101,6 \begin{smallmatrix} 0 \\ -0,05 \end{smallmatrix}$   
Thicknees: 6,35 (AAN) 8,1 (AAK)  
AAN : F.T 30 1320  
AAK : F.T 30 1357

**BAN**



Centering:  $\varnothing 50,78 \begin{smallmatrix} 0 \\ -0,05 \end{smallmatrix}$   
Thicknees: 5  
BAN : F.T 30 1321

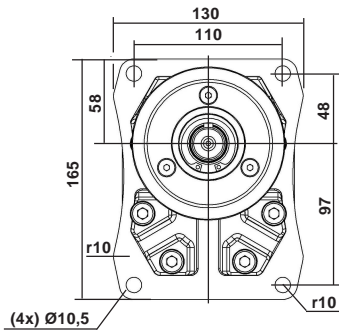
**CBN / CBK**



Centering:  $\varnothing 65 \begin{smallmatrix} -0,03 \\ -0,06 \end{smallmatrix}$   
Thicknees: 5  
CBN : F.T 30 1322  
CBK : F.T 30 1358

Dimensions readings and approximative characteristics subject to modifications.

**DBN / DBK**



Centering:  $\varnothing 105 \begin{smallmatrix} -0,036 \\ -0,071 \end{smallmatrix}$   
Thicknees: 8  
DBN : F.T 30 1323  
DBK : F.T 30 1359

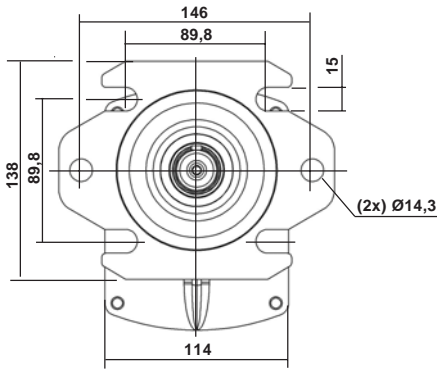
**F.T 30 1312 5/10**



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**THICK FRONT BODIES**

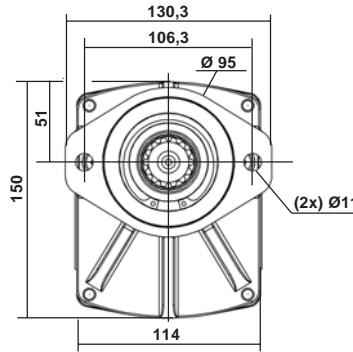
**AAP / AEP**  
**AAR / AER**  
**AAX**



Centering:  $\varnothing 101,6^{0}_{-0,05}$   
Thicknees: 6,35

**AAP / AEP : F.T 30 1370**  
**AAR / AER : F.T 30 1373**  
**AAX : F.T 30 1414**

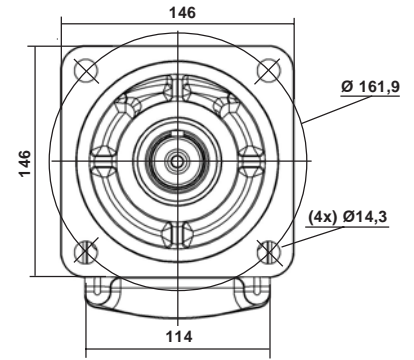
**ABP / ABR**



Centering:  $\varnothing 82,55^{0}_{-0,05}$   
Thicknees: 6,35

**ABP : F.T 30 1375**  
**ABR : F.T 30 1376**

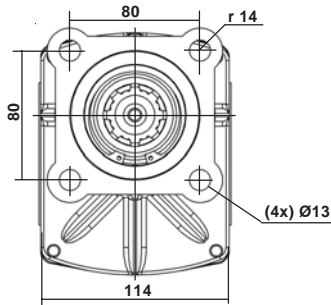
**ADP / ADR**  
**ADX / ADZ**



Centering:  $\varnothing 127^{0}_{-0,05}$   
Thicknees: 6,35

**ADP : F.T 30 1371**  
**ADR : F.T 30 1374**  
**ADX : F.T 30 1377**  
**ADZ : F.T 30 1378**

**ZFC**



Centering:  $\varnothing 80^{0,03}_{-0,06}$   
Thicknees: 9

**ZFC : F.T 30 1372**

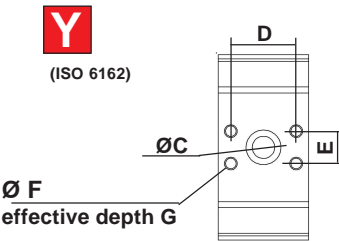
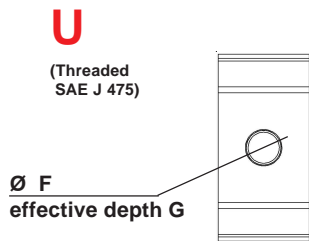
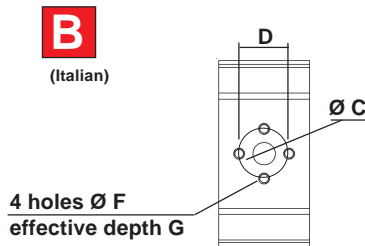
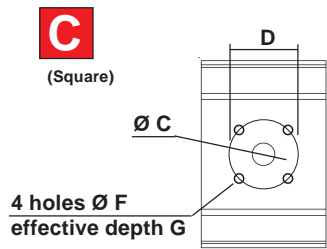
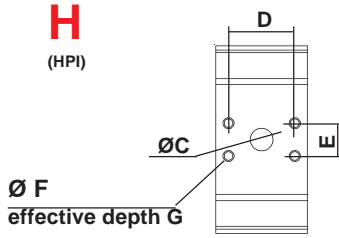
Dimensions readings and approximative characteristics subject to modifications.

**F.T 30 11312 6/10**



Consult us for availability

**CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES**



| Capacity     | INLET (T)                  |      |      |                 |    | OUTLET (P) |      |      |                 |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |   |  |
|--------------|----------------------------|------|------|-----------------|----|------------|------|------|-----------------|----|---|--|---|--|
|              | ØC                         | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G  | INLET (T)   |  | OUTLET (P)                              |  |
|              |                            |      |      |                 |    |            |      |      |                 |    | 1" N: 3.50072<br>BSP V: 3.505060  | 3020 1/2" N: 3.50070<br>BSP V: 3.505058    | 3031 3/4" N: 3.50071<br>BSP V: 3.505060 | 3040 1" BSP<br>N: 3.50072<br>V: 3.505066   |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16 | 3071 1" 1/2 N: 3.500493<br>BSP V: 3.505067                                  | 3080 1" BSP V: 3.505060                    | 3071 1" N: 3.50072<br>BSP V: 3.505060   | 3080 1" BSP V: 3.505060                    |
| 3050 3060    | 42                         | 35,6 | 69,8 | M8              | 16 | 22         | 52,4 | 26,2 | M8              | 16 | 3090 1" 1/2 N: 3.500493<br>BSP V: 3.505067                                  | 3100 1" 1/4 N: 3.500103<br>BSP V: 3.505061 | 3071 1" N: 3.50072<br>BSP V: 3.505060   | 3090 1" 1/4 N: 3.500103<br>BSP V: 3.505061 |
| 3071 to 3100 | 42                         | 35,6 | 69,8 | M8              | 16 | 24         | 52,4 | 26,2 | M8              | 16 |   |  |   |  |
| 3020 to 3040 | 28                         | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17 |   |  |   |  |
| 3050 3060    |                            |      |      |                 |    |            |      |      |                 |    |   |  |   |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |   |  |
| 3020 to 3040 | 27                         | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17 |   |  |   |  |
| 3050 3060    |                            |      |      |                 |    |            |      |      |                 |    |   |  |   |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |   |  |
| 3020 to 3040 |                            |      |      | 1' 5/16 -12 UNF | 19 |            |      |      | 1' 1/16 -12 UNF | 19 |   |  |   |  |
| 3050 3060    |                            |      |      | 1' 5/8 -12 UNF  | 19 |            |      |      | 1' 5/16 -12 UNF | 19 |   |  |   |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |   |  |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17 |   |  |   |  |
| 3050 3060    | 42                         | 69,8 | 35,6 | M14             | 17 | 34         | 52,4 | 26,2 | M10             | 17 |   |  |   |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |   |  |
| 3020 to 3040 | Only with rear body Type A |      |      |                 |    |            |      |      |                 |    |   |  |   |  |
| 3050 3060    |                            |      |      |                 |    |            |      |      |                 |    |   |  |   |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |   |  |

Dimensions readings and approximative characteristics subject to modifications.

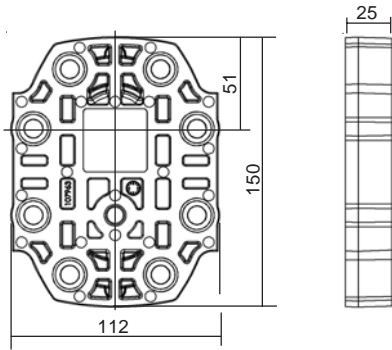
F.T 30 1312 7/10

Consult us for availability

**REAR BODIES**

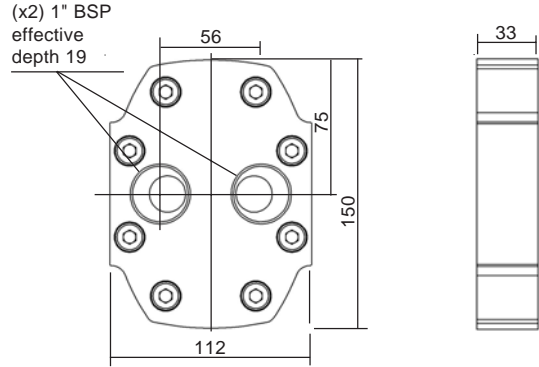
**L**

Standard



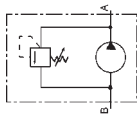
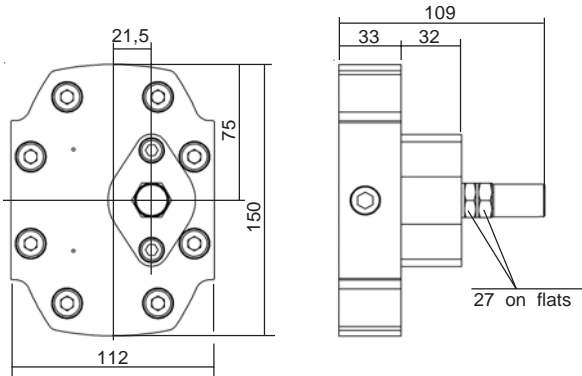
**A**

with ports



**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 30 1312 8/10**



Consult us for availability

**DRIVING SHAFT (FLAT FRONT BODY)**

**Tapered**

**10**

**Straight keyed**

**20**

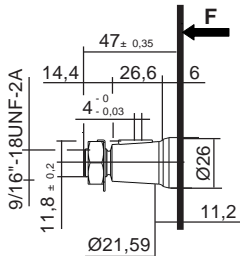
**Splined**

**30**

**Tang**

**40**

**B03** Taper 1/8

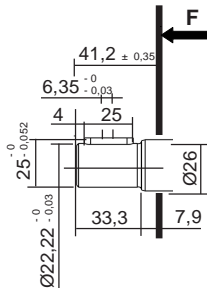


Delivered with Nut and lock washer Ref.: K100734  
Ref.: K103945

Maxi transmissible torque

**530 N.m**

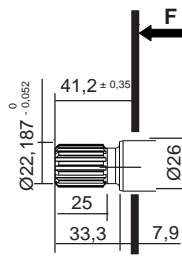
**A02**



Maxi transmissible torque

**290 N.m**

**A02**

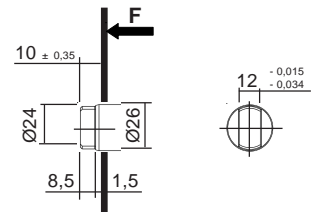


Involute spline SAE Standard  
13 teeth - 7/8" -  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque

**390 N.m**

**C04**

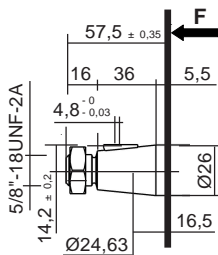


Maxi transmissible torque

**70 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**B04** Taper 1/8

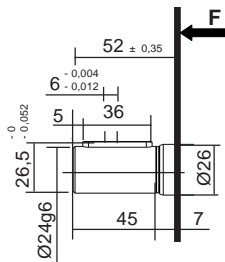


Delivered with Nut Ref.: K101877

Maxi transmissible torque

**800 N.m**

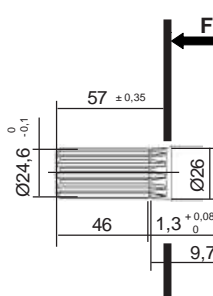
**C04**



Maxi transmissible torque

**320 N.m**

**C03**

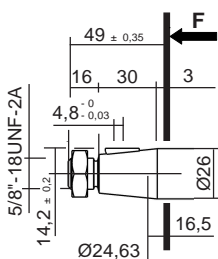


Involute spline shaft  
25 x 13 x 1,667  
to standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque

**66,5 N.m**

**C04** Taper 1/5

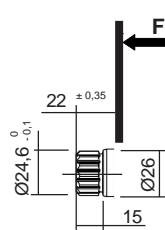


Delivered with Nut Ref.: K101712

Maxi transmissible torque

**800 N.m**

**C07**



Involute spline shaft  
25 x 13 x 1,667  
to standard NF E 22 141 - BNA 455  
Spigot on free flanks

Maxi transmissible torque

**48 N.m**

**F.T 30 1312 9/10**

Consult us for availability

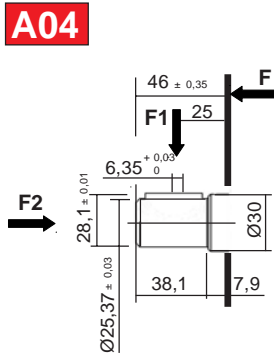
**DRIVING SHAFT (THICK FRONT BODY)**

**Tapered**  
**10**

**Straight keyed**  
**20**

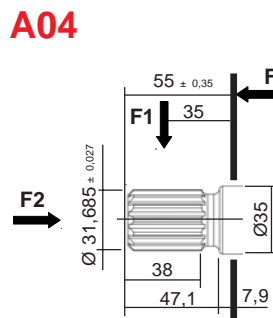
**Splined**  
**30**

**Tang**  
**40**



**F1 = 120 daN**  
**F2 = 50 daN**

Maxi transmissible torque  
**340 N.m**

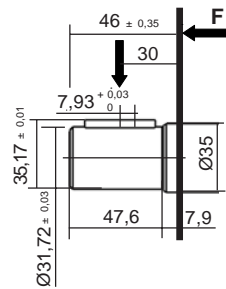


**F1 = 120 daN**  
**F2 = 50 daN**

Involute spline SAE standard  
14 teeth - 1" 1/4-  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
**500 N.m**

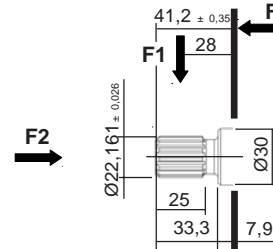
**A05**



**F1 = 120 daN**  
**F2 = 50 daN**

Maxi transmissible torque  
**320 N.m**

**A19**

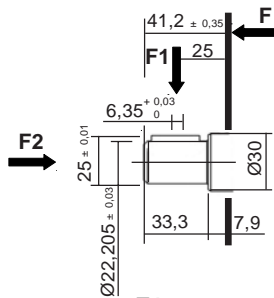


**F1 = 120 daN**  
**F2 = 50 daN**

Involute spline SAE standard  
13 teeth - 7/8"  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
**310 N.m**

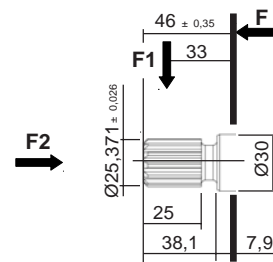
**A07**



**F1 = 140 daN**  
**F2 = 50 daN**

Maxi transmissible torque  
**290 N.m**

**A20**

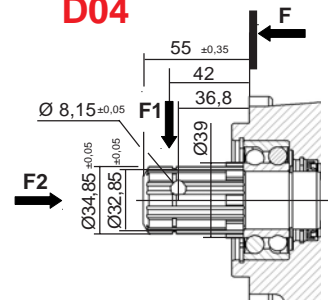


**F1 = 120 daN**  
**F2 = 50 daN**

Involute spline SAE Standard  
15 teeth - 1"  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
**490 N.m**

**D04**



**F1 = 140 daN**  
**F2 = 50 daN**

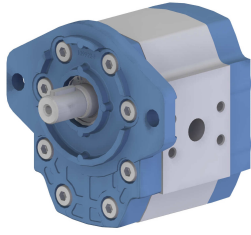
Parallel spline side  
8 x 32 x 36 to Norm NF E 22 141  
Pushing Minor diameter

Maxi transmissible torque  
**480 N.m**

Dimensions readings and approximative characteristics subject to modifications.

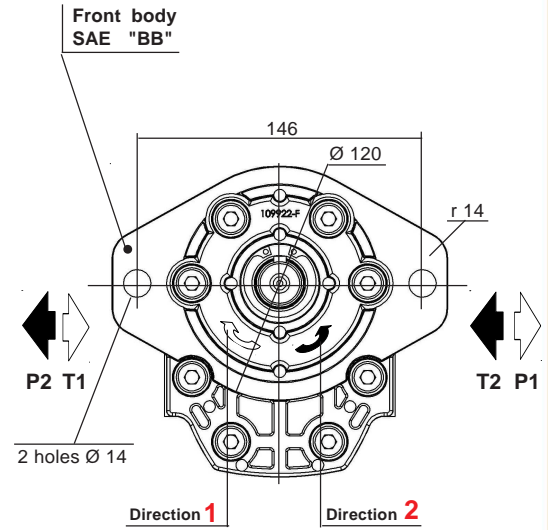
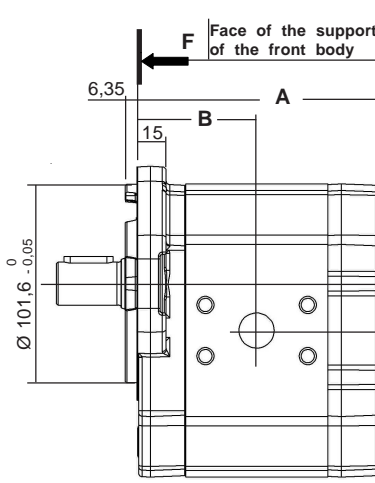
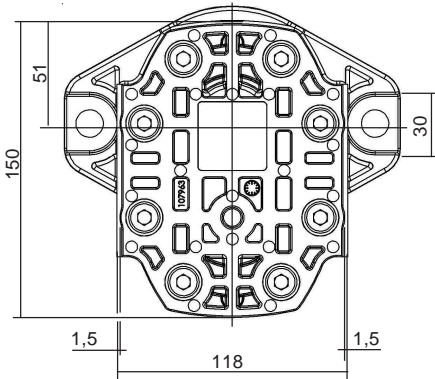
**F.T 30 1312 10/10**

Consult us for availability



P II Sign AA N 3 VI Sign HL IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet F.T R 0011



| CHOICE of the Capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 020 - 025 - 031 - 040  | 122,7      | 61,3 |
| 050 - 060              | 149,2      | 74,5 |
| 071 - 080 - 090 - 100  | 169,2      | 84,2 |

Multiples geared pumps, see data sheet F.T 30 1356

Seal kits:

Nitrile: K5074041  
Viton: K5074042  
(For the manufacturings from october 1991)

| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------|----------------------|----------------|------|----------------------|-----|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|       |                      | bar            | PSI  | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |                                       |                      |
|       |                      |                |      |                      |     |                   | l / min      | l / min       |  |                                       |                      |
| 3020  | 21,1                 | 275            | 3987 | 235                  | 235 | 3000              | 31,65        | 63,3          | 4  | 3,74                                  | 5,6                  |
| 3025  | 25,8                 | 275            | 3987 | 235                  | 235 | 3000              | 38,7         | 77,4          | 4,90   | 4,63                                  | 5,6                  |
| 3031  | 32,1                 | 275            | 3987 | 235                  | 235 | 3000              | 48,15        | 96,3          | 6,10   | 5,73                                  | 5,6                  |
| 3040  | 41,5                 | 275            | 3987 | 235                  | 235 | 3000              | 62,25        | 124,5         | 7,85   | 7,37                                  | 5,7                  |
| 3050  | 51,65                | 250            | 3625 | 215                  | 215 | 3000              | 77,47        | 154,9         | 9,77   | 9,21                                  | 6,9                  |
| 3060  | 62,6                 | 225            | 3262 | 190                  | 190 | 2500              | 93,9         | 156,5         | 11,85  | 11,05                                 | 7                    |
| 3071  | 73,55                | 225            | 3262 | 190                  | 190 | 2500              | 110,32       | 183,8         | 13,92  | 13,08                                 | 7                    |
| 3080  | 82,95                | 200            | 2900 | 170                  | 170 | 2200              | 124,42       | 182,4         | 15,59  | 14,60                                 | 7,1                  |
| 3090  | 92,95                | 150            | 2175 | 130                  | 130 | 2000              | 139,42       | 185,9         | 17,47  | 16,47                                 | 7,8                  |
| 3100  | 103,9                | 150            | 2175 | 130                  | 130 | 2000              | 155,85       | 207,8         | 19,40  | 18,17                                 | 8                    |

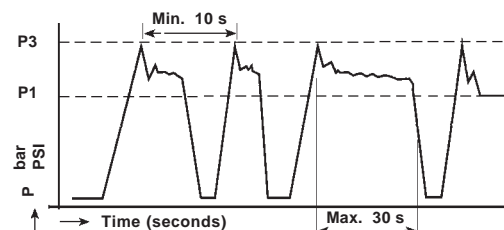
Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1320 1/4

P1 Maximum pressure in continuous duty.

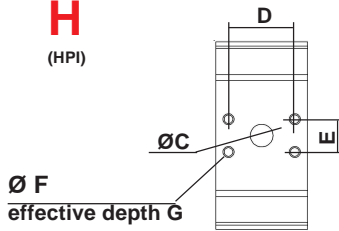
Maximum Pressure ⇔

P3 Allowable peak pressure.

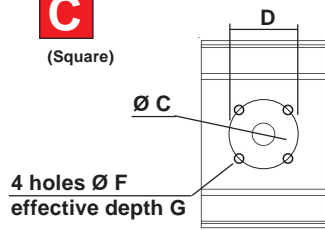


CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

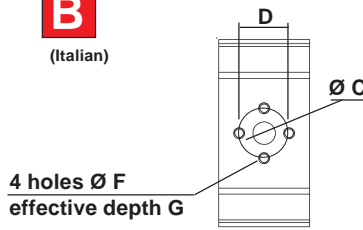
**H**  
(HPI)



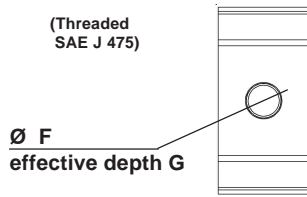
**C**  
(Square)



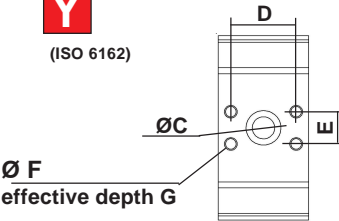
**B**  
(Italian)



**U**  
(Threaded SAE J 475)



**Y**  
(ISO 6162)



**X**  
(without port)



| Capacity     | INLET (T)                  |      |      |                 |    | OUTLET (P) |      |      |                 |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |   |   |   |
|--------------|----------------------------|------|------|-----------------|----|------------|------|------|-----------------|----|---|---|---|---|
|              | ØC                         | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G  | INLET (T)   |   | OUTLET (P)                                      |   |
|              |                            |      |      |                 |    |            |      |      |                 |    | 3020 to 3040  | 3071 to 3100                                | 3020 to 3040                                    | 3071 to 3100                                    |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16 | 1" N: 3.500072<br>BSP V: 3.505060   | 1/2" N: 3.500070<br>BSP V: 3.505058         | 3/4" N: 3.500071<br>BSP V: 3.505060             | 1" N: 3.500072<br>BSP V: 3.505060               |
| 3050 to 3060 | 42                         | 35,6 | 69,8 | M8              | 16 | 22         | 52,4 | 26,2 | M8              | 16 | 1" 1/4 BSP<br>N: 3.500492<br>V: 3.505066                                    | 1" BSP<br>N: 3.500072<br>V: 3.505060        |   |   |
| 3071 to 3100 | 42                         | 35,6 | 69,8 | M8              | 16 | 24         | 52,4 | 26,2 | M8              | 16 | 3071 1" 1/2 N: 3.500493<br>3080 BSP V: 3.505067                             | 3071 1" N: 3.500072<br>3080 BSP V: 3.505060 | 3090 1" 1/2 N: 3.500493<br>3100 BSP V: 3.505067 | 3090 1" 1/4 N: 3.500103<br>3100 BSP V: 3.505061 |
| 3020 to 3040 |                            |      |      |                 |    |            |      |      |                 |    |   |   |   |   |
| 3050 to 3060 | 28                         | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17 |   |   |   |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |   |   |
| 3020 to 3040 | 27                         | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17 |   |   |   |   |
| 3050 to 3060 |                            |      |      |                 |    |            |      |      |                 |    |   |   |   |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |   |   |
| 3020 to 3040 |                            |      |      | 1' 5/16 -12 UNF | 19 |            |      |      | 1' 1/16 -12 UNF | 19 |   |   |   |   |
| 3050 to 3060 |                            |      |      | 1' 5/8 -12 UNF  | 19 |            |      |      | 1' 5/16 -12 UNF | 19 |   |   |   |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |   |   |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17 |   |   |   |   |
| 3050 to 3060 | 42                         | 69,8 | 35,6 | M14             | 17 | 34         | 52,4 | 26,2 | M10             | 17 |   |   |   |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |   |   |
| 3020 to 3040 | Only with rear body Type A |      |      |                 |    |            |      |      |                 |    |   |   |   |   |
| 3050 to 3060 |                            |      |      |                 |    |            |      |      |                 |    |   |   |   |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |   |   |

Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

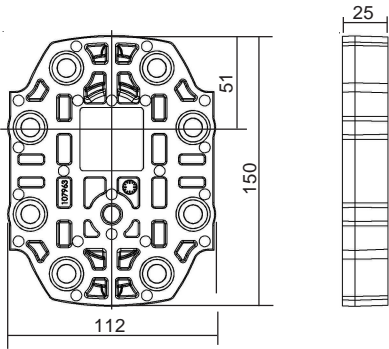
F.T 30 11320 2/4



REAR BODIES

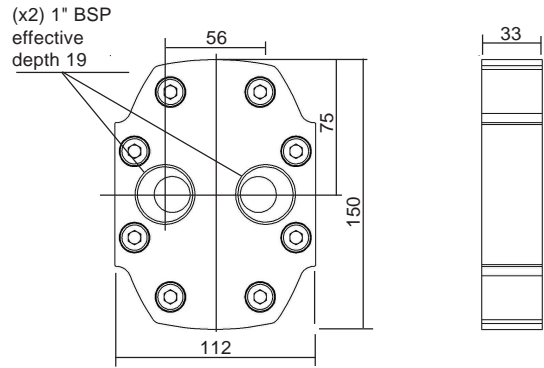
**L**

Standard



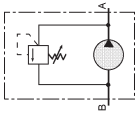
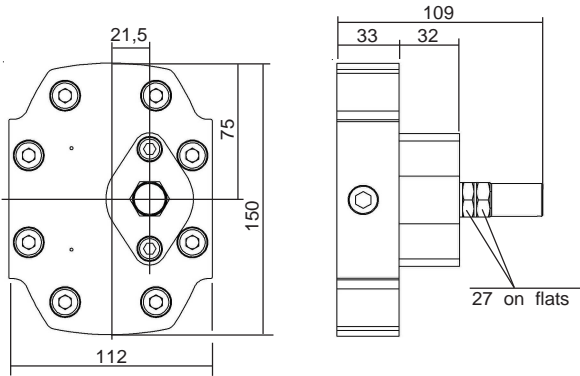
**A**

with ports



**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1320 3/4

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

Straight keyed

20

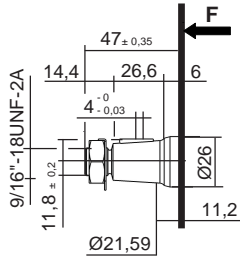
Splined

30

Tang

40

**B03** Taper 1 / 8

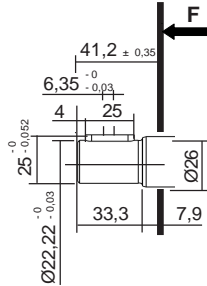


Delivered with Nut and lock washer Ref.:K100734 Ref.:K103945

Maxi transmissible torque

530 N.m

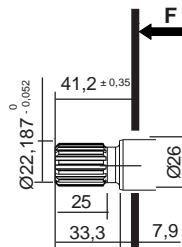
**A02**



Maxi transmissible torque

290 N.m

**A02**

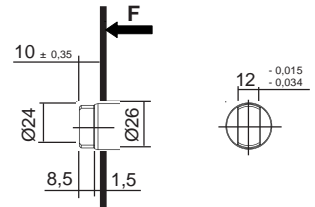


Involute spline SAE Standard 13 teeth - 7/8" - Diametral Pitch 16/32 30° Pressure angle

Maxi transmissible torque

390 N.m

**C04**

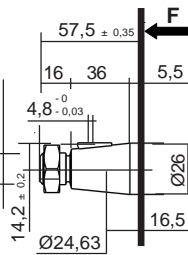


Maxi transmissible torque

70 N.m

Dimensions readings and approximative characteristics subject to modifications.

**B04** Taper 1 / 8

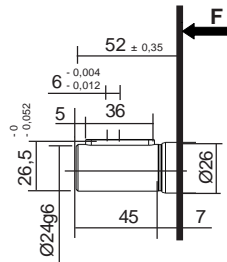


Delivered with Nut Ref.:K101877

Maxi transmissible torque

800 N.m

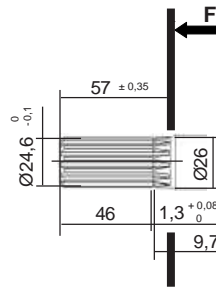
**C04**



Maxi transmissible torque

320 N.m

**C03**

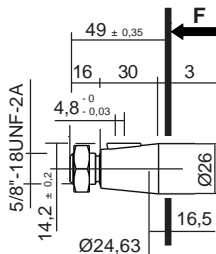


Involute spline shaft 25 x 13 x 1,667 to standard NF E 22 141 - BNA 455 Spigot on free flanks

Maxi transmissible torque

66,5 N.m

**C04** Taper 1 / 5

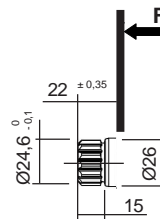


Delivered with Nut Ref.:K101712

Maxi transmissible torque

800 N.m

**C07**



Involute spline shaft 25 x 13 x 1,667 to standard NF E 22 141 - BNA 455 Spigot on free flanks

Maxi transmissible torque

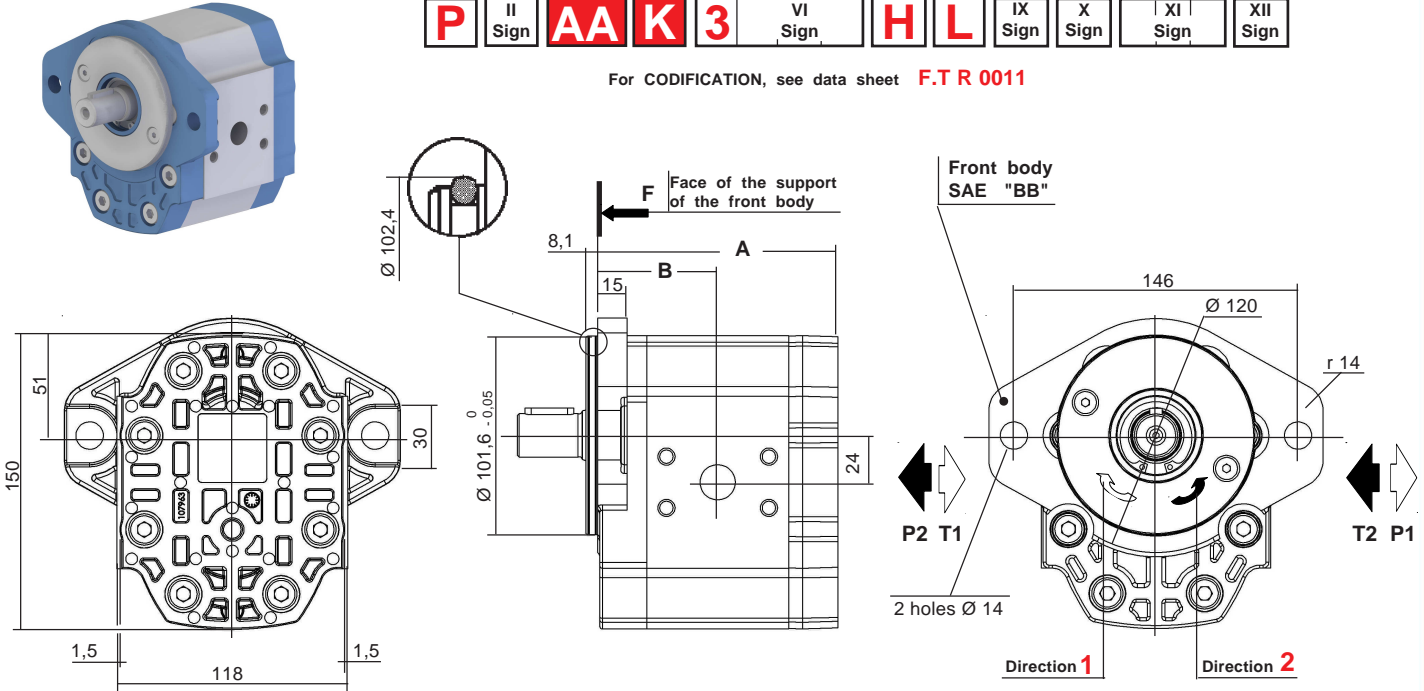
48 N.m

F.T 30 1320 4/4

Consult us for availability

P II Sign **AA K 3** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



| CHOICE of the Capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 020 - 025 - 031 - 040  | 122,7      | 61,3 |
| 050 - 060              | 149,2      | 74,5 |
| 071 - 080 - 090 - 100  | 169,2      | 84,2 |

Multiples geared pumps, see data sheet **F.T 30 1356**

Seal kits:  
Nitrile: **K5074041 + K107081**  
Viton: **K5074042 + K107045**  
(For the manufacturings from october 1991)

| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at<br>1000 RPM<br>and<br>100 bar | Input torque<br>at<br>100 bar<br>and<br>N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|-----|-------------------|--------------|---------------|--|---|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |   |                      |
|             |                      |                |      |                      |     |                   | l / min      | l / min       |  |   |                      |
| <b>3020</b> | 21,1                 | 275            | 3987 | 235                  | 235 | 3000              | 31,65        | 63,3          | 4  | 3,74  | 5,6                  |
| <b>3025</b> | 25,8                 | 275            | 3987 | 235                  | 235 | 3000              | 38,7         | 77,4          | 4,90   | 4,63  | 5,6                  |
| <b>3031</b> | 32,1                 | 275            | 3987 | 235                  | 235 | 3000              | 48,15        | 96,3          | 6,10   | 5,73  | 5,6                  |
| <b>3040</b> | 41,5                 | 275            | 3987 | 235                  | 235 | 3000              | 62,25        | 124,5         | 7,85   | 7,37  | 5,7                  |
| <b>3050</b> | 51,65                | 250            | 3625 | 215                  | 215 | 3000              | 77,47        | 154,9         | 9,77   | 9,21  | 6,9                  |
| <b>3060</b> | 62,6                 | 225            | 3262 | 190                  | 190 | 2500              | 93,9         | 156,5         | 11,85  | 11,05                                       | 7                    |
| <b>3071</b> | 73,55                | 225            | 3262 | 190                  | 190 | 2500              | 110,32       | 183,8         | 13,92  | 13,08                                       | 7                    |
| <b>3080</b> | 82,95                | 200            | 2900 | 170                  | 170 | 2200              | 124,42       | 182,4         | 15,59  | 14,60                                       | 7,1                  |
| <b>3090</b> | 92,95                | 150            | 2175 | 130                  | 130 | 2000              | 139,42       | 185,9         | 17,47  | 16,47                                       | 7,8                  |
| <b>3100</b> | 103,9                | 150            | 2175 | 130                  | 130 | 2000              | 155,85       | 207,8         | 19,40  | 18,17                                       | 8                    |

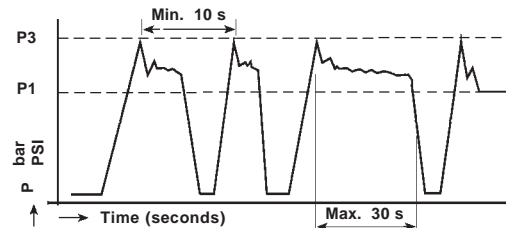
Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1357 1/4

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇔

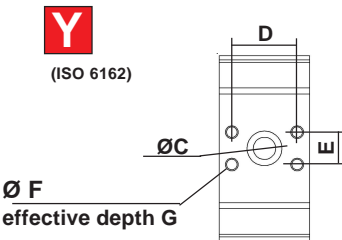
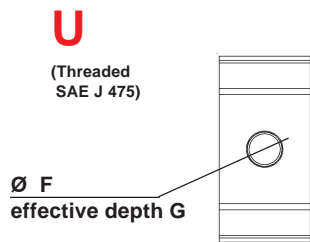
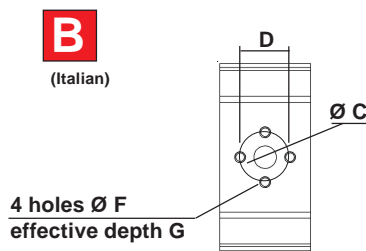
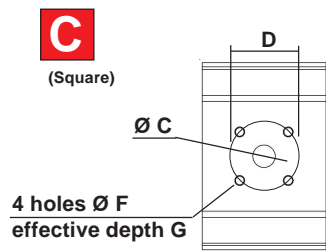
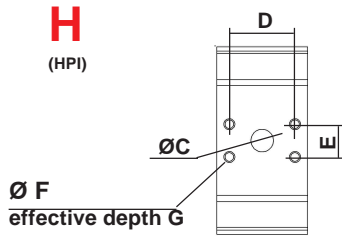
P3 Allowable peak pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

Dimensions readings and approximative characteristics subject to modifications.



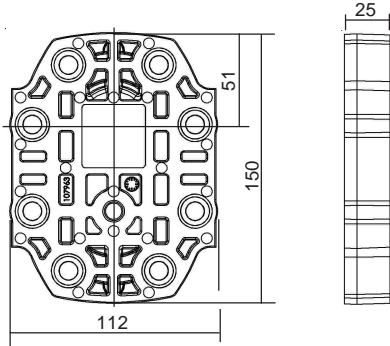
| Capacity     | INLET (T) |      |      |                 |    | OUTLET (P) |      |      |                 |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |  |  |  |  |
|--------------|-----------|------|------|-----------------|----|------------|------|------|-----------------|----|---|--|--|--|--|--|
|              | ØC        | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G  | INLET (T)   |  | OUTLET (P)                               |  |  |  |
|              |           |      |      |                 |    |            |      |      |                 |    | 1" N: 3.500072<br>BSP V: 3.505060   | 3020 1/2" N: 3.500072<br>BSP V: 3.505060 | 3025 3/4" N: 3.500071<br>BSP V: 3.505060 | 3031 1" N: 3.500072<br>BSP V: 3.505060   |  |  |
| 3020 to 3040 | 28        | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16 | 1" 1/4 BSP<br>N: 3.500492<br>V: 3.505066                                    | 1" BSP<br>N: 3.500072<br>V: 3.505060     | 3020 1" N: 3.500072<br>BSP V: 3.505060   | 3025 1/2" N: 3.500072<br>BSP V: 3.505060 | 3031 3/4" N: 3.500071<br>BSP V: 3.505060   | 3040 1" N: 3.500072<br>BSP V: 3.505060 |
| 3050 3060    | 42        | 35,6 | 69,8 | M8              | 16 | 22         | 52,4 | 26,2 | M8              | 16 | 1" 1/2 N: 3.500493<br>BSP V: 3.505067                                       | 1" BSP<br>N: 3.500072<br>V: 3.505060     | 3071 1" N: 3.500072<br>BSP V: 3.505060   | 3080 1" N: 3.500072<br>BSP V: 3.505060   | 3090 1" 1/4 N: 3.500103<br>BSP V: 3.505061 | 3100 1" N: 3.500072<br>BSP V: 3.505060 |
| 3071 to 3100 | 42        | 35,6 | 69,8 | M8              | 16 | 24         | 52,4 | 26,2 | M8              | 16 | 1" 1/2 N: 3.500493<br>BSP V: 3.505067                                       | 1" BSP<br>N: 3.500072<br>V: 3.505060     | 3071 1" N: 3.500072<br>BSP V: 3.505060   | 3080 1" N: 3.500072<br>BSP V: 3.505060   | 3090 1" 1/4 N: 3.500103<br>BSP V: 3.505061 | 3100 1" N: 3.500072<br>BSP V: 3.505060 |
| 3020 to 3040 | 28        | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17 |   |  |  |  |  |  |
| 3050 3060    |           |      |      |                 |    |            |      |      |                 |    |   |  |  |  |  |  |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |  |  |  |  |  |
| 3020 to 3040 | 27        | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17 |   |  |  |  |  |  |
| 3050 3060    |           |      |      |                 |    |            |      |      |                 |    |   |  |  |  |  |  |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |  |  |  |  |  |
| 3020 to 3040 |           |      |      | 1' 5/16 -12 UNF | 19 |            |      |      | 1' 1/16 -12 UNF | 19 |   |  |  |  |  |  |
| 3050 3060    |           |      |      | 1' 5/8 -12 UNF  | 19 |            |      |      | 1' 5/16 -12 UNF | 19 |   |  |  |  |  |  |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |  |  |  |  |  |
| 3020 to 3040 | 28        | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17 |   |  |  |  |  |  |
| 3050 3060    | 42        | 69,8 | 35,6 | M14             | 17 | 34         | 52,4 | 26,2 | M10             | 17 |   |  |  |  |  |  |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |  |  |  |  |  |
| 3020 to 3040 |           |      |      |                 |    |            |      |      |                 |    | Only with rear body Type A  |  |  |  |  |  |
| 3050 3060    |           |      |      |                 |    |            |      |      |                 |    | Only with rear body Type A  |  |  |  |  |  |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    | Only with rear body Type A  |  |  |  |  |  |

Consult us for availability

**REAR BODIES**

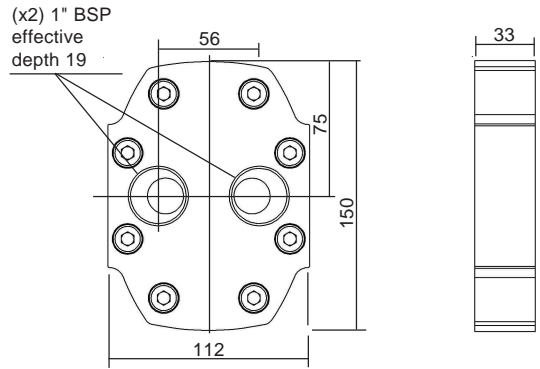
**L**

Standard



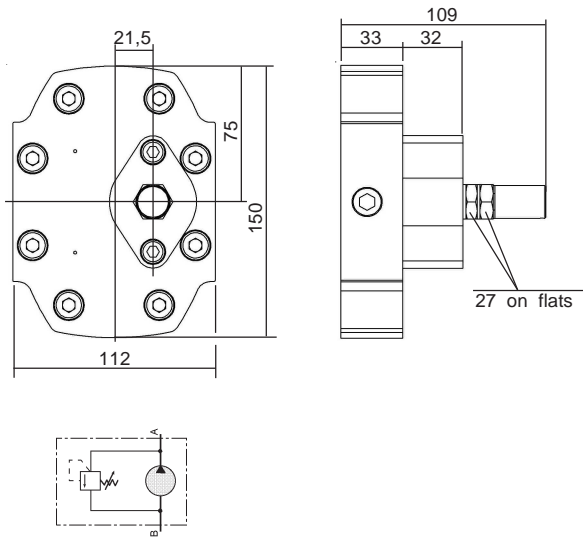
**A**

with ports



**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 30 1357 3/4**



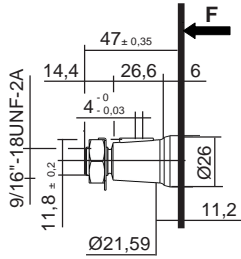
Consult us for availability

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

B03 Taper 1 / 8



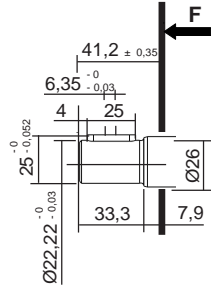
Delivered with Nut and lock washer Ref.: K100734 Ref.: K103945

Maxi transmissible torque **530 N.m**

Straight keyed

20

A02

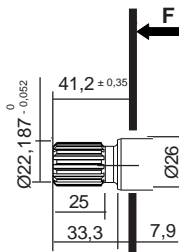


Maxi transmissible torque **290 N.m**

Splined

30

A02



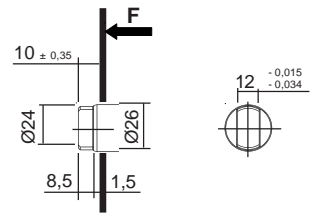
Involute spline SAE Standard 13 teeth - 7/8" - Diametral Pitch 16/32 30° Pressure angle

Maxi transmissible torque **390 N.m**

Tang

40

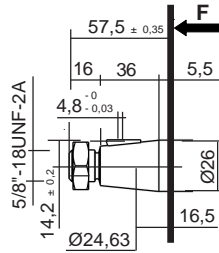
C04



Maxi transmissible torque **70 N.m**

Dimensions readings and approximative characteristics subject to modifications.

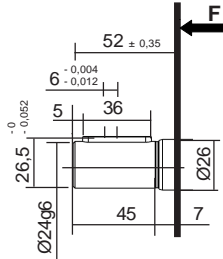
B04 Taper 1 / 8



Delivered with Nut Ref.: K101877

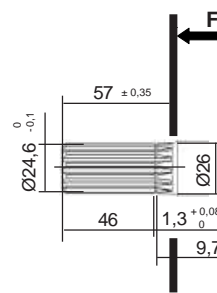
Maxi transmissible torque **800 N.m**

C04



Maxi transmissible torque **320 N.m**

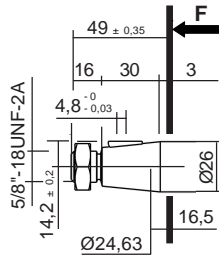
C03



Involute spline shaft 25 x 13 x 1,667 to standard NF E 22 141 - BNA 455 Spigot on free flanks

Maxi transmissible torque **66,5 N.m**

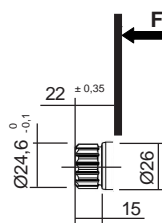
C04 Taper 1 / 5



Delivered with Nut Ref.: K101712

Maxi transmissible torque **800 N.m**

C07

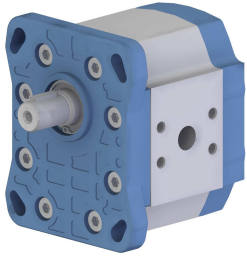


Involute spline shaft 25 x 13 x 1,667 to standard NF E 22 141 - BNA 455 Spigot on free flanks

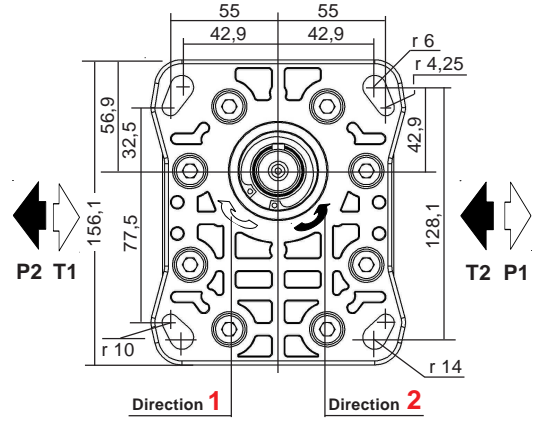
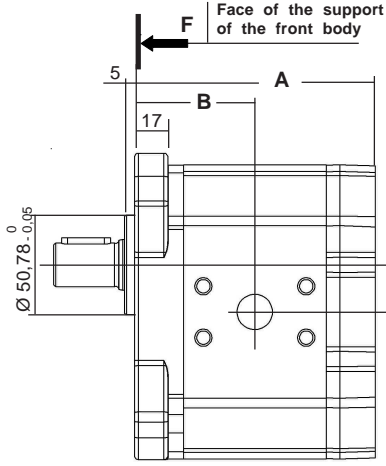
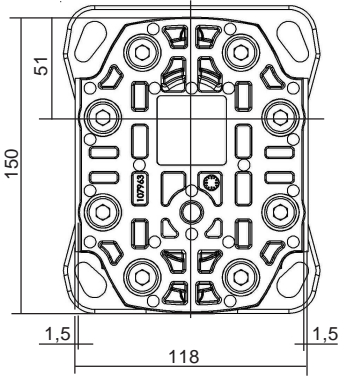
Maxi transmissible torque **48 N.m**

F.T 30 1357 4/4

Consult us for availability



For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 020 - 025 - 031 - 040  | 122,7      | 61,3 |
| 050 - 060              | 149,2      | 74,5 |
| 071 - 080 - 090 - 100  | 169,2      | 84,2 |

Multiples geared pumps, see data sheet **F.T 30 1356**

Seal kits:  
Nitrile: **K5074041**  
Viton: **K5074042**  
(For the manufacturings from october 1991)

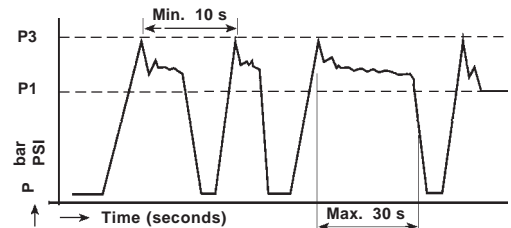
| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------|----------------------|----------------|------|----------------------|-----|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|       |                      | bar            | PSI  | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |                                       |                      |
|       |                      |                |      |                      |     |                   | l / min      | l / min       |  |                                       |                      |
| 3020  | 21,1                 | 275            | 3987 | 235                  | 235 | 3000              | 31,65        | 63,3          | 4  | 3,74                                  | 5,6                  |
| 3025  | 25,8                 | 275            | 3987 | 235                  | 235 | 3000              | 38,7         | 77,4          | 4,90   | 4,63                                  | 5,6                  |
| 3031  | 32,1                 | 275            | 3987 | 235                  | 235 | 3000              | 48,15        | 96,3          | 6,10   | 5,73                                  | 5,6                  |
| 3040  | 41,5                 | 275            | 3987 | 235                  | 235 | 3000              | 62,25        | 124,5         | 7,85   | 7,37                                  | 5,7                  |
| 3050  | 51,65                | 250            | 3625 | 215                  | 215 | 3000              | 77,47        | 154,9         | 9,77   | 9,21                                  | 6,9                  |
| 3060  | 62,6                 | 225            | 3262 | 190                  | 190 | 2500              | 93,9         | 156,5         | 11,85  | 11,05                                 | 7                    |
| 3071  | 73,55                | 225            | 3262 | 190                  | 190 | 2500              | 110,32       | 183,8         | 13,92  | 13,08                                 | 7                    |
| 3080  | 82,95                | 200            | 2900 | 170                  | 170 | 2200              | 124,42       | 182,4         | 15,59  | 14,60                                 | 7,1                  |
| 3090  | 92,95                | 150            | 2175 | 130                  | 130 | 2000              | 139,42       | 185,9         | 17,47  | 16,47                                 | 7,8                  |
| 3100  | 103,9                | 150            | 2175 | 130                  | 130 | 2000              | 155,85       | 207,8         | 19,40  | 18,17                                 | 8                    |

F.T 30 1321 1/4

P1 Maximum pressure in continuous duty.

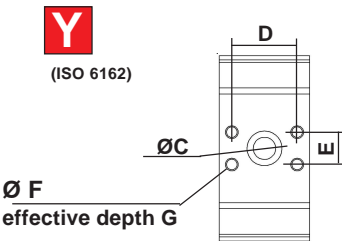
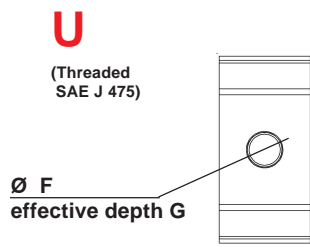
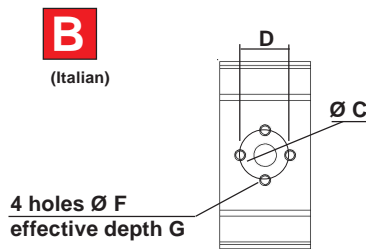
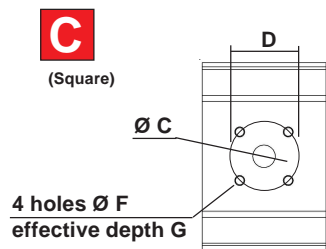
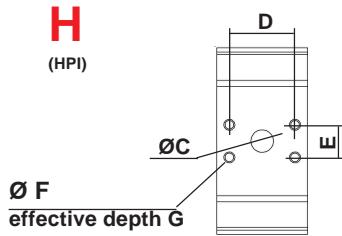
Maximum Pressure ⇒

P3 Allowable peack pressure.



CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

Dimensions readings and approximative characteristics subject to modifications.



| Capacity     | INLET (T)                  |      |      |                 |    | OUTLET (P) |      |      |                 |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |   |  |  |
|--------------|----------------------------|------|------|-----------------|----|------------|------|------|-----------------|----|---|---|--|--|
|              | ØC                         | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G  | INLET (T)   |   | OUTLET (P)                                 |  |
|              |                            |      |      |                 |    |            |      |      |                 |    | 1" N: 3.500072<br>BSP V: 3.505060   | 3020 1/2" N: 3.500070<br>BSP V: 3.505058  | 3025 3/4" N: 3.500071<br>BSP V: 3.505060   | 3030 1" N: 3.500072<br>BSP V: 3.505060     |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16 | 1" 1/4 BSP<br>N: 3.500492<br>V: 3.505066                                    | 3071 1" BSP<br>N: 3.500072<br>V: 3.505060 | 3080 1" 1/2 N: 3.500493<br>BSP V: 3.505067 | 3090 1" 1/4 N: 3.500103<br>BSP V: 3.505061 |
| 3050 3060    | 42                         | 35,6 | 69,8 | M8              | 16 | 22         | 52,4 | 26,2 | M8              | 16 |   |   |  |  |
| 3071 to 3100 | 42                         | 35,6 | 69,8 | M8              | 16 | 24         | 52,4 | 26,2 | M8              | 16 |   |   |  |  |
| 3020 to 3040 | 28                         | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17 |   |   |  |  |
| 3050 3060    |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |  |
| 3020 to 3040 | 27                         | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17 |   |   |  |  |
| 3050 3060    |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |  |
| 3020 to 3040 |                            |      |      | 1' 5/16 -12 UNF | 19 |            |      |      | 1' 1/16 -12 UNF | 19 |   |   |  |  |
| 3050 3060    |                            |      |      | 1' 5/8 -12 UNF  | 19 |            |      |      | 1' 5/16 -12 UNF | 19 |   |   |  |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |  |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17 |   |   |  |  |
| 3050 3060    | 42                         | 69,8 | 35,6 | M14             | 17 | 34         | 52,4 | 26,2 | M10             | 17 |   |   |  |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |  |
| 3020 to 3040 | Only with rear body Type A |      |      |                 |    |            |      |      |                 |    |   |   |  |  |
| 3050 3060    |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |  |

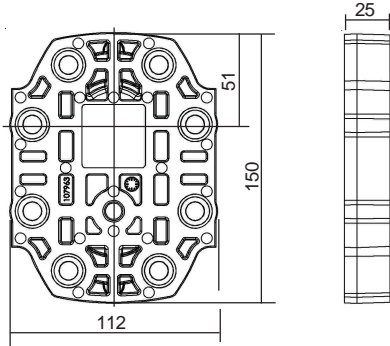
Consult us for availability



**REAR BODIES**

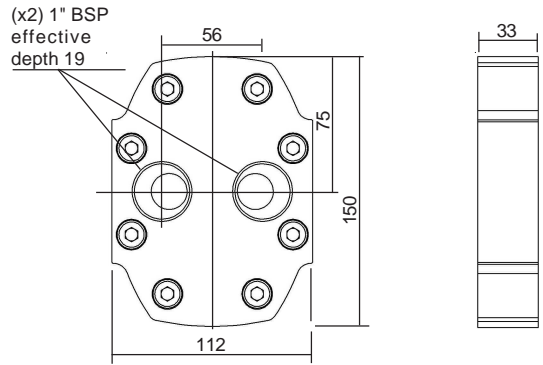
**L**

Standard



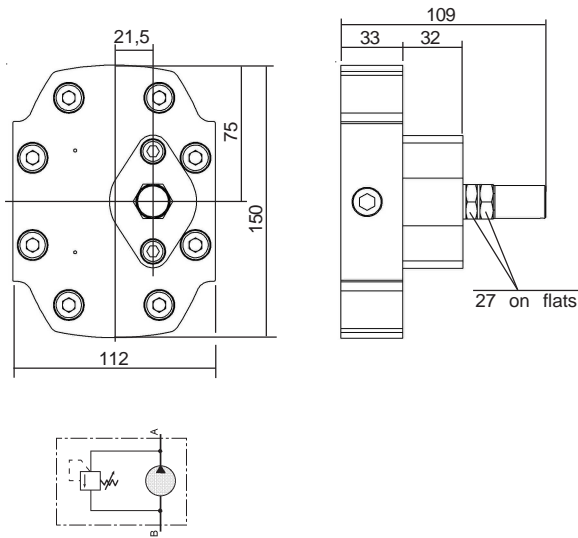
**A**

with ports



**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

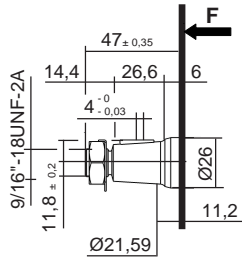
**F.T 30 1321 3/4**

**DRIVING SHAFT (FLAT FRONT BODY)**

**Tapered**

**10**

**B03** Taper 1 / 8



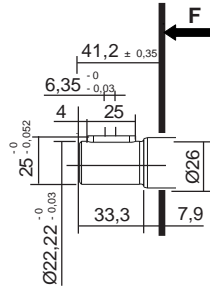
Delivered with Nut Ref.: K100734  
and lock washer Ref.: K103945

**Maxi transmissible torque**  
**530 N.m**

**Straight keyed**

**20**

**A02**

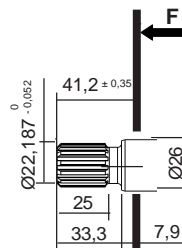


**Maxi transmissible torque**  
**290 N.m**

**Splined**

**30**

**A02**



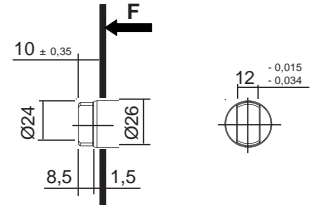
Involute spline SAE Standard  
13 teeth - 7/8" -  
Diametral Pitch 16/32  
30° Pressure angle

**Maxi transmissible torque**  
**390 N.m**

**Tang**

**40**

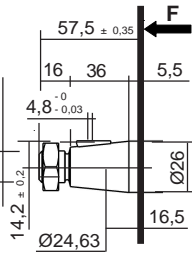
**C04**



**Maxi transmissible torque**  
**70 N.m**

Dimensions readings and approximative characteristics subject to modifications.

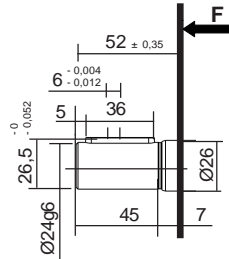
**B04** Taper 1 / 8



Delivered with Nut Ref.: K101877

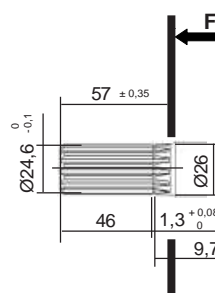
**Maxi transmissible torque**  
**800 N.m**

**C04**



**Maxi transmissible torque**  
**320 N.m**

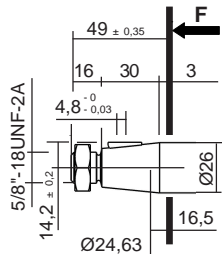
**C03**



Involute spline shaft  
25 x 13 x 1,667  
to standard NF E 22 141 - BNA 455  
Spigot on free flanks

**Maxi transmissible torque**  
**66,5 N.m**

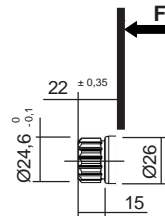
**C04** Taper 1 / 5



Delivered with Nut Ref.: K101712

**Maxi transmissible torque**  
**800 N.m**

**C07**

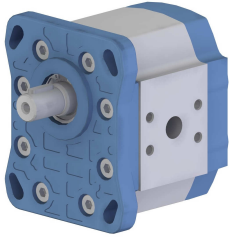


Involute spline shaft  
25 x 13 x 1,667  
to standard NF E 22 141 - BNA 455  
Spigot on free flanks

**Maxi transmissible torque**  
**48 N.m**

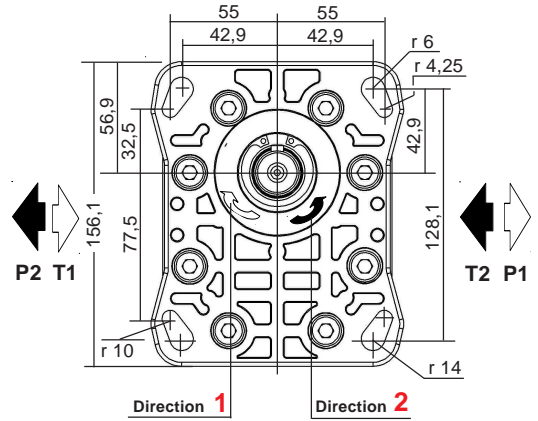
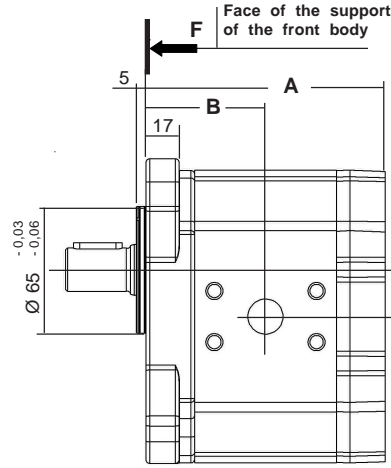
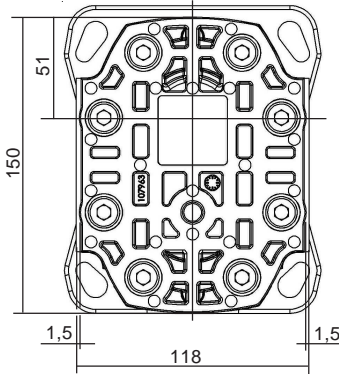
**F.T 30 1321 4/4**

Consult us for availability



P II Sign CBN 3 VI Sign HL IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet F.T R 0011



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 020 - 025 - 031 - 040  | 122,7      | 61,3 |
| 050 - 060              | 149,2      | 74,5 |
| 071 - 080 - 090 - 100  | 169,2      | 84,2 |

Multiples geared pumps, see data sheet F.T 30 1356

Seal kits:  
Nitrile: K5074041  
Viton: K5074042  
(For the manufacturings from october 1991)

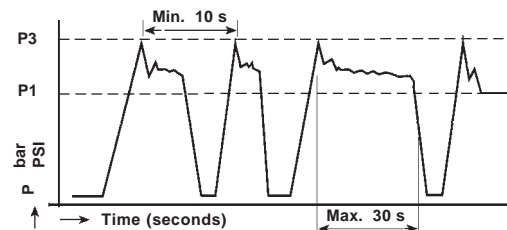
| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------|----------------------|----------------|------|----------------------|-----|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|       |                      | bar            | PSI  | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |                                 |                      |
|       |                      |                |      |                      |     |                   | l / min      | l / min       |  |                                 |                      |
| 3020  | 21,1                 | 275            | 3987 | 235                  | 235 | 3000              | 31,65        | 63,3          | 4  | 3,74                            | 5,6                  |
| 3025  | 25,8                 | 275            | 3987 | 235                  | 235 | 3000              | 38,7         | 77,4          | 4,90   | 4,63                            | 5,6                  |
| 3031  | 32,1                 | 275            | 3987 | 235                  | 235 | 3000              | 48,15        | 96,3          | 6,10   | 5,73                            | 5,6                  |
| 3040  | 41,5                 | 275            | 3987 | 235                  | 235 | 3000              | 62,25        | 124,5         | 7,85   | 7,37                            | 5,7                  |
| 3050  | 51,65                | 250            | 3625 | 215                  | 215 | 3000              | 77,47        | 154,9         | 9,77   | 9,21                            | 6,9                  |
| 3060  | 62,6                 | 225            | 3262 | 190                  | 190 | 2500              | 93,9         | 156,5         | 11,85  | 11,05                           | 7                    |
| 3071  | 73,55                | 225            | 3262 | 190                  | 190 | 2500              | 110,32       | 183,8         | 13,92  | 13,08                           | 7                    |
| 3080  | 82,95                | 200            | 2900 | 170                  | 170 | 2200              | 124,42       | 182,4         | 15,59  | 14,60                           | 7,1                  |
| 3090  | 92,95                | 150            | 2175 | 130                  | 130 | 2000              | 139,42       | 185,9         | 17,47  | 16,47                           | 7,8                  |
| 3100  | 103,9                | 150            | 2175 | 130                  | 130 | 2000              | 155,85       | 207,8         | 19,40  | 18,17                           | 8                    |

F.T 30 1322 1/4

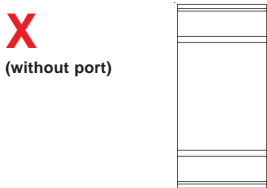
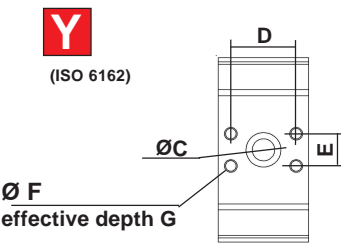
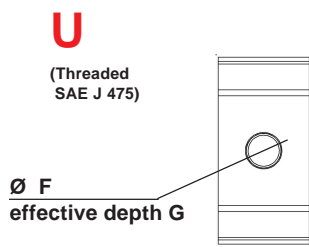
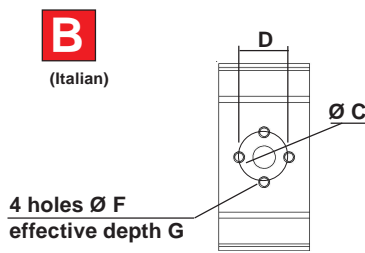
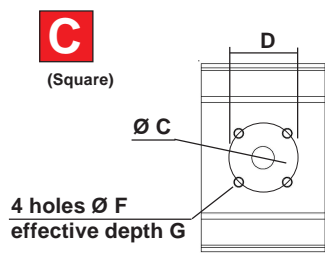
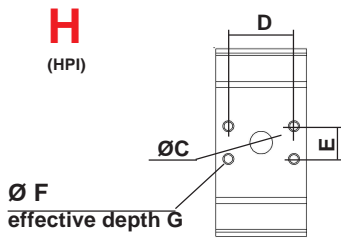
P1 Maximum pressure in continuous duty.

Maximum Pressure ⇨

P3 Allowable peack pressure.



CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                 |    | OUTLET (P) |      |      |                 |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |   |  |   |
|--------------|----------------------------|------|------|-----------------|----|------------|------|------|-----------------|----|---|---|--|---|
|              | ØC                         | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G  | INLET (T)   |   | OUTLET (P)                                 |   |
|              |                            |      |      |                 |    |            |      |      |                 |    | 1" N: 3.500072<br>BSP V: 3.505060   | 3020 1/2" N: 3.500070<br>BSP V: 3.505058  | 3031 3/4" N: 3.500071<br>BSP V: 3.505060   | 3040 1" BSP<br>N: 3.500072<br>V: 3.505060 |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16 | 3071 1" 1/2 N: 3.500493<br>BSP V: 3.505067                                  | 3080 1" BSP<br>N: 3.500072<br>V: 3.505060 | 3090 1" 1/4 N: 3.500103<br>BSP V: 3.505061 | 3100 1" BSP<br>N: 3.500072<br>V: 3.505060 |
| 3050 to 3060 | 42                         | 35,6 | 69,8 | M8              | 16 | 22         | 52,4 | 26,2 | M8              | 16 |   |   |  |   |
| 3071 to 3100 | 42                         | 35,6 | 69,8 | M8              | 16 | 24         | 52,4 | 26,2 | M8              | 16 |   |   |  |   |
| 3020 to 3040 | 28                         | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17 |   |   |  |   |
| 3050 to 3060 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3020 to 3040 | 27                         | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17 |   |   |  |   |
| 3050 to 3060 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3020 to 3040 |                            |      |      | 1' 5/16 -12 UNF | 19 |            |      |      | 1' 1/16 -12 UNF | 19 |   |   |  |   |
| 3050 to 3060 |                            |      |      | 1' 5/8 -12 UNF  | 19 |            |      |      | 1' 5/16 -12 UNF | 19 |   |   |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17 |   |   |  |   |
| 3050 to 3060 | 42                         | 69,8 | 35,6 | M14             | 17 | 34         | 52,4 | 26,2 | M10             | 17 |   |   |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3020 to 3040 | Only with rear body Type A |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3050 to 3060 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 11322 2/4

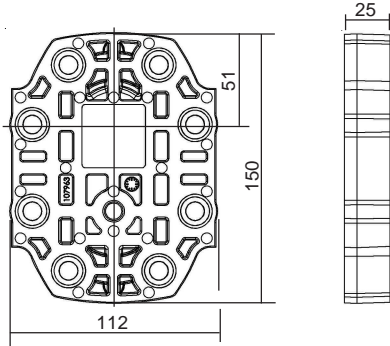


Consult us for availability

**REAR BODIES**

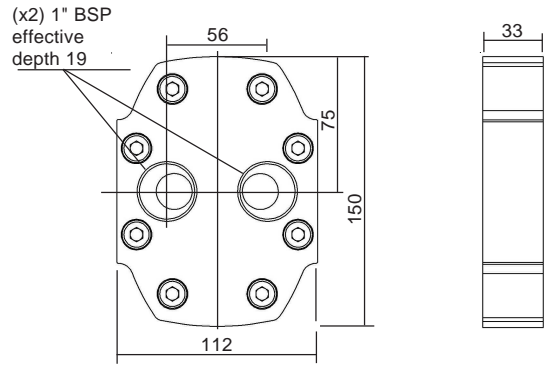
**L**

Standard



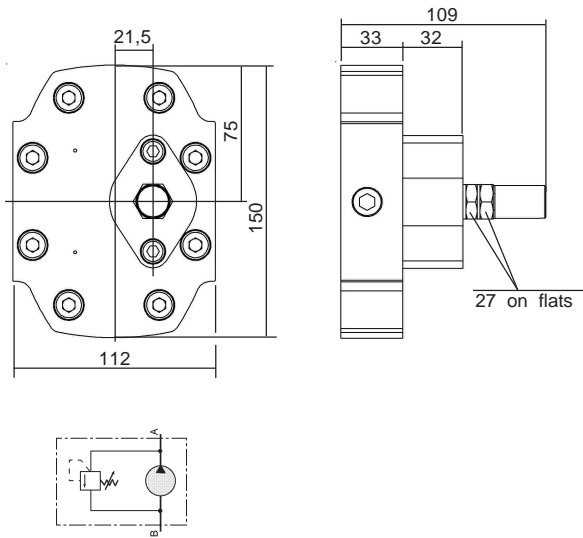
**A**

with ports



**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

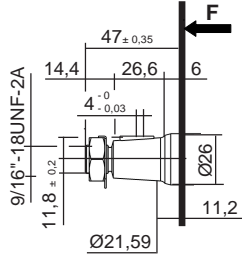
**F.T 30 1322 3/4**

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

**B03** Taper 1 / 8



Delivered with Nut and lock washer Ref.: K100734 Ref.: K103945

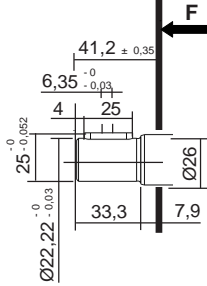
Maxi transmissible torque

530 N.m

Straight keyed

20

**A02**



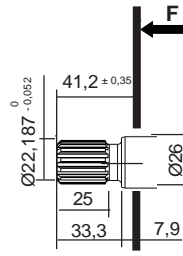
Maxi transmissible torque

290 N.m

Splined

30

**A02**



Involute spline SAE Standard 13 teeth - 7/8" - Diametral Pitch 16/32 30° Pressure angle

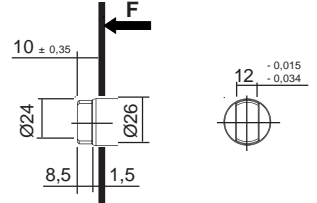
Maxi transmissible torque

390 N.m

Tang

40

**C04**

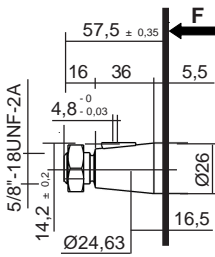


Maxi transmissible torque

70 N.m

Dimensions readings and approximative characteristics subject to modifications.

**B04** Taper 1 / 8

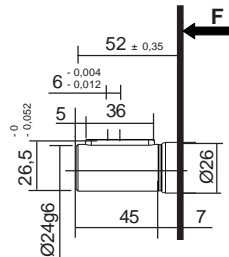


Delivered with Nut Ref.: K101877

Maxi transmissible torque

800 N.m

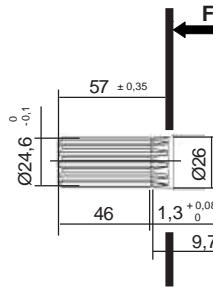
**C04**



Maxi transmissible torque

320 N.m

**C03**

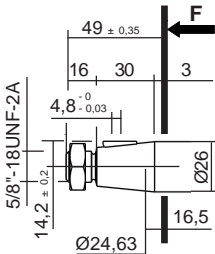


Involute spline shaft 25 x 13 x 1,667 to standard NF E 22 141 - BNA 455 Spigot on free flanks

Maxi transmissible torque

66,5 N.m

**C04** Taper 1 / 5

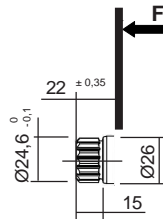


Delivered with Nut Ref.: K101712

Maxi transmissible torque

800 N.m

**C07**



Involute spline shaft 25 x 13 x 1,667 to standard NF E 22 141 - BNA 455 Spigot on free flanks

Maxi transmissible torque

48 N.m

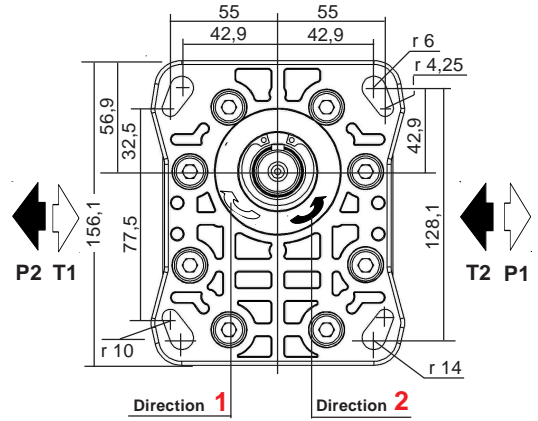
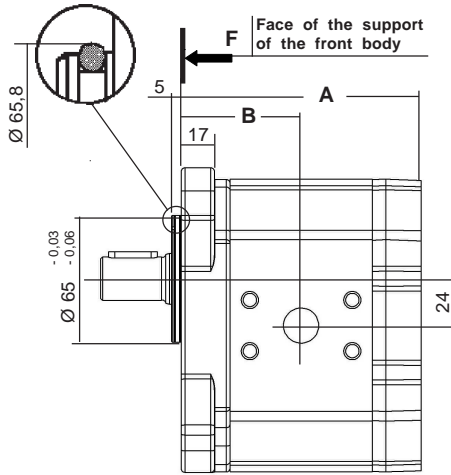
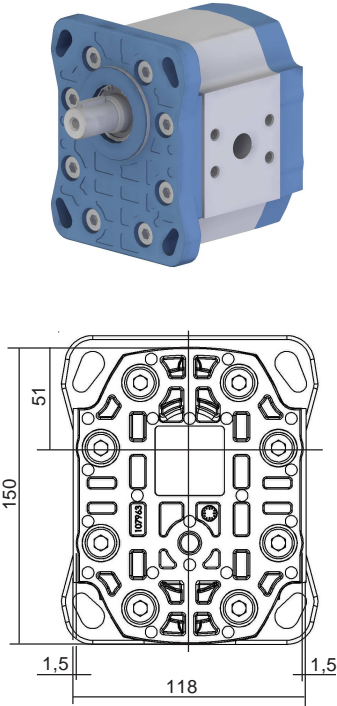
F.T 30 1322 4/4



Consult us for availability

**P** II Sign **CBK** 3 VI Sign **HL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 020 - 025 - 031 - 040  | 122,7      | 61,3 |
| 050 - 060              | 149,2      | 74,5 |
| 071 - 080 - 090 - 100  | 169,2      | 84,2 |

Multiples geared pumps, see data sheet **F.T 30 1356**

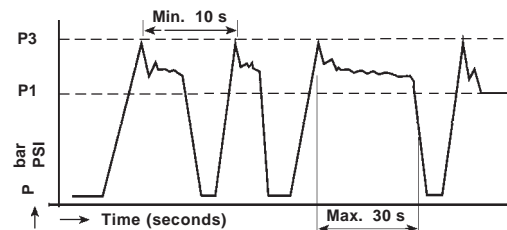
Seal kits:  
Nitrile: **K5074041 + K106675**  
Viton: **K5074042 + K106676**  
(For the manufacturings from october 1991)

| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|-----|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |                                       |                      |
|             |                      |                |      |                      |     |                   | l / min      | l / min       |  |                                       |                      |
| <b>3020</b> | 21,1                 | 275            | 3987 | 235                  | 235 | 3000              | 31,65        | 63,3          | 4  | 3,74                                  | 5,6                  |
| <b>3025</b> | 25,8                 | 275            | 3987 | 235                  | 235 | 3000              | 38,7         | 77,4          | 4,90   | 4,63                                  | 5,6                  |
| <b>3031</b> | 32,1                 | 275            | 3987 | 235                  | 235 | 3000              | 48,15        | 96,3          | 6,10   | 5,73                                  | 5,6                  |
| <b>3040</b> | 41,5                 | 275            | 3987 | 235                  | 235 | 3000              | 62,25        | 124,5         | 7,85   | 7,37                                  | 5,7                  |
| <b>3050</b> | 51,65                | 250            | 3625 | 215                  | 215 | 3000              | 77,47        | 154,9         | 9,77   | 9,21                                  | 6,9                  |
| <b>3060</b> | 62,6                 | 225            | 3262 | 190                  | 190 | 2500              | 93,9         | 156,5         | 11,85  | 11,05                                 | 7                    |
| <b>3071</b> | 73,55                | 225            | 3262 | 190                  | 190 | 2500              | 110,32       | 183,8         | 13,92  | 13,08                                 | 7                    |
| <b>3080</b> | 82,95                | 200            | 2900 | 170                  | 170 | 2200              | 124,42       | 182,4         | 15,59  | 14,60                                 | 7,1                  |
| <b>3090</b> | 92,95                | 150            | 2175 | 130                  | 130 | 2000              | 139,42       | 185,9         | 17,47  | 16,47                                 | 7,8                  |
| <b>3100</b> | 103,9                | 150            | 2175 | 130                  | 130 | 2000              | 155,85       | 207,8         | 19,40  | 18,17                                 | 8                    |

P1 Maximum pressure in continuous duty.

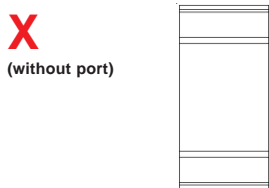
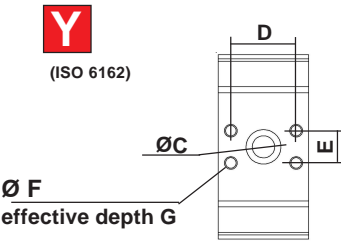
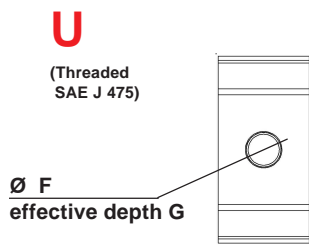
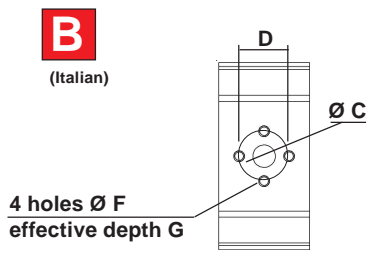
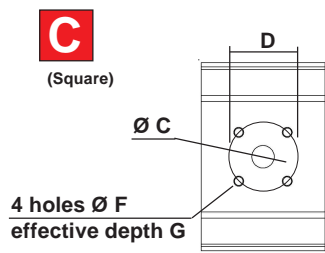
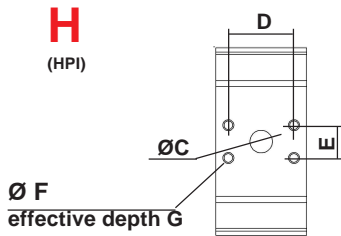
Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                          |    | OUTLET (P) |      |      |                          |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |  |  |
|--------------|----------------------------|------|------|--------------------------|----|------------|------|------|--------------------------|----|---|--|--|--|
|              | ØC                         | D    | E    | ØF                       | G  | ØC         | D    | E    | ØF                       | G  | INLET (T)   |  | OUTLET (P)                             |  |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M8                       | 16 | 18         | 52,4 | 26,2 | M8                       | 16 | 3020 1" N: 3.500072<br>BSP V: 3.505060                                      | 3025 1/2" N: 3.500070<br>BSP V: 3.505058 | 3030 1" N: 3.500071<br>BSP V: 3.505061 | 3035 3/4" N: 3.500071<br>BSP V: 3.505060   |
| 3050 3060    | 42                         | 35,6 | 69,8 | M8                       | 16 | 22         | 52,4 | 26,2 | M8                       | 16 | 1" 1/4 BSP<br>N: 3.500492<br>V: 3.505066                                    |  | 1" BSP<br>N: 3.500072<br>V: 3.505060   |  |
| 3071 to 3100 | 42                         | 35,6 | 69,8 | M8                       | 16 | 24         | 52,4 | 26,2 | M8                       | 16 | 3071 1" 1/2 N: 3.500493<br>BSP V: 3.505067                                  | 3080 1" N: 3.500072<br>BSP V: 3.505060   | 3085 1" N: 3.500072<br>BSP V: 3.505060 | 3090 1" 1/4 N: 3.500103<br>BSP V: 3.505061 |
| 3020 to 3040 |                            |      |      |                          |    |            |      |      |                          |    |   |  |  |  |
| 3050 3060    | 28                         | 55   |      | M8                       | 17 | 18         | 55   |      | M8                       | 17 |   |  |  |  |
| 3071 to 3100 |                            |      |      |                          |    |            |      |      |                          |    |   |  |  |  |
| 3020 to 3040 | 27                         | 51   |      | M10                      | 17 | 18         | 40   |      | M8                       | 17 |   |  |  |  |
| 3050 3060    |                            |      |      |                          |    |            |      |      |                          |    |   |  |  |  |
| 3071 to 3100 |                            |      |      |                          |    |            |      |      |                          |    |   |  |  |  |
| 3020 to 3040 |                            |      |      | 1'<br>5/16<br>-12<br>UNF | 19 |            |      |      | 1'<br>1/16<br>-12<br>UNF | 19 |   |  |  |  |
| 3050 3060    |                            |      |      | 1'<br>5/8<br>-12<br>UNF  | 19 |            |      |      | 1'<br>5/16<br>-12<br>UNF | 19 |   |  |  |  |
| 3071 to 3100 |                            |      |      |                          |    |            |      |      |                          |    |   |  |  |  |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M10                      | 17 | 18         | 52,4 | 26,2 | M10                      | 17 |   |  |  |  |
| 3050 3060    | 42                         | 69,8 | 35,6 | M14                      | 17 | 34         | 52,4 | 26,2 | M10                      | 17 |   |  |  |  |
| 3071 to 3100 |                            |      |      |                          |    |            |      |      |                          |    |   |  |  |  |
| 3020 to 3040 | Only with rear body Type A |      |      |                          |    |            |      |      |                          |    |   |  |  |  |
| 3050 3060    |                            |      |      |                          |    |            |      |      |                          |    |   |  |  |  |
| 3071 to 3100 |                            |      |      |                          |    |            |      |      |                          |    |   |  |  |  |

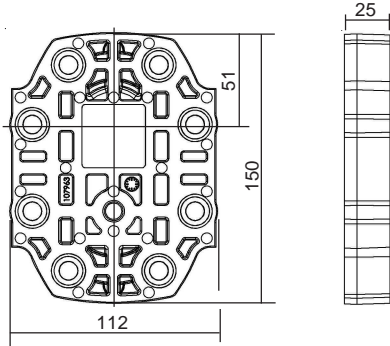
Consult us for availability



**REAR BODIES**

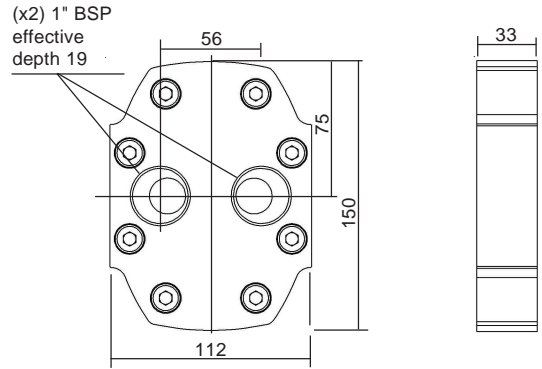
**L**

Standard



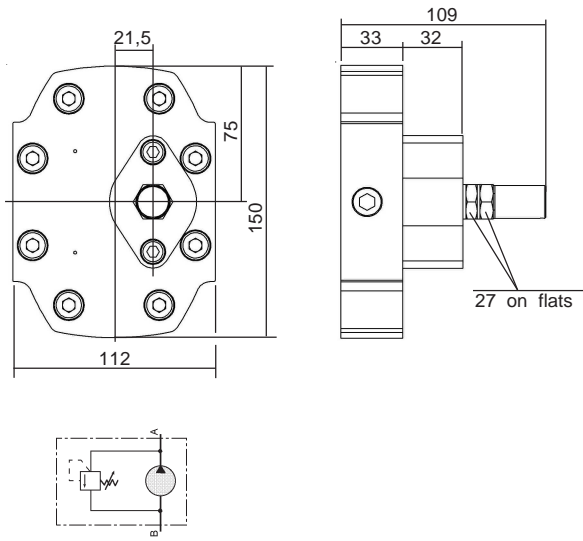
**A**

with ports



**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 30 1358 3/4**



Consult us for availability

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

Straight keyed

20

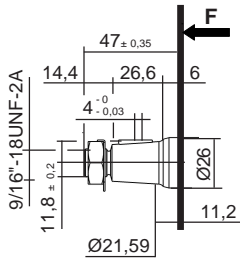
Splined

30

Tang

40

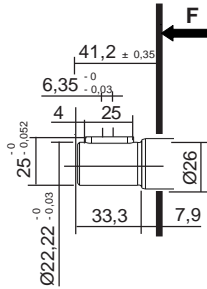
**B03** Taper 1 / 8



Delivered with Nut and lock washer Ref.: K100734 Ref.: K103945

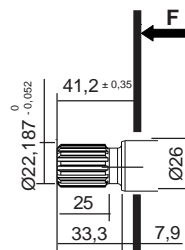
Maxi transmissible torque  
**530 N.m**

**A02**



Maxi transmissible torque  
**290 N.m**

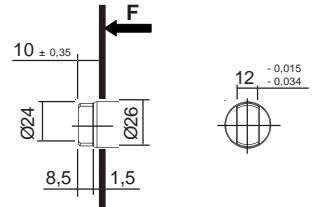
**A02**



Involute spline SAE Standard 13 teeth - 7/8" - Diametral Pitch 16/32 30° Pressure angle

Maxi transmissible torque  
**390 N.m**

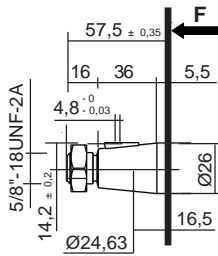
**C04**



Maxi transmissible torque  
**70 N.m**

Dimensions readings and approximative characteristics subject to modifications.

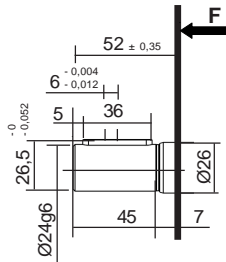
**B04** Taper 1 / 8



Delivered with Nut Ref.: K101877

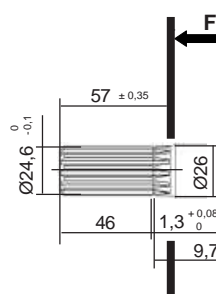
Maxi transmissible torque  
**800 N.m**

**C04**



Maxi transmissible torque  
**320 N.m**

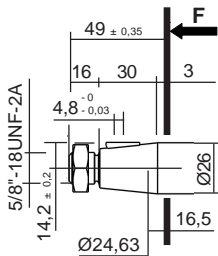
**C03**



Involute spline shaft 25 x 13 x 1,667 to standard NF E 22 141 - BNA 455 Spigot on free flanks

Maxi transmissible torque  
**66,5 N.m**

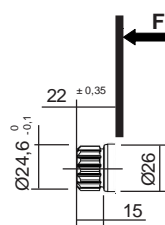
**C04** Taper 1 / 5



Delivered with Nut Ref.: K101712

Maxi transmissible torque  
**800 N.m**

**C07**

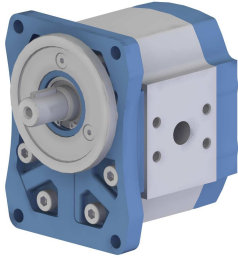


Involute spline shaft 25 x 13 x 1,667 to standard NF E 22 141 - BNA 455 Spigot on free flanks

Maxi transmissible torque  
**48 N.m**

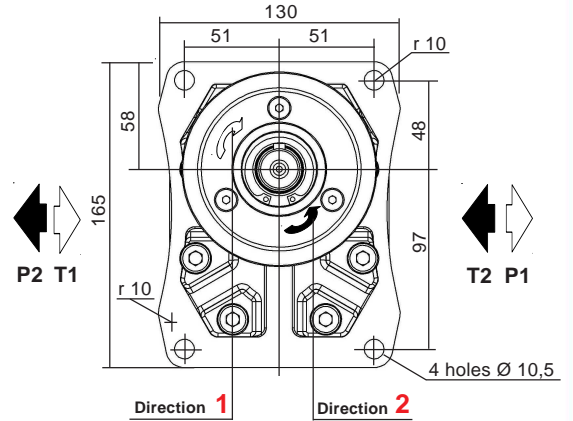
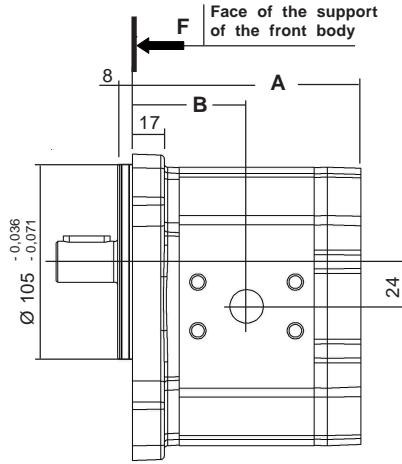
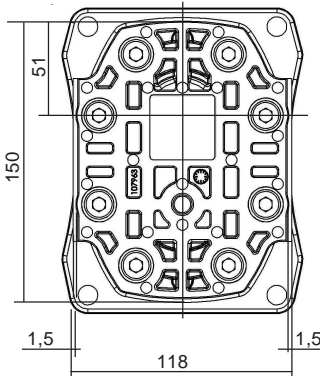
F.T 30 1358 4/4

Consult us for availability



**P** **II** **DBN** **3** **VI** **HL** **IX** **X** **XI** **XII**  
Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity       | Dimensions |      |
|------------------------------|------------|------|
|                              | A          | B    |
| <b>020 - 025 - 031 - 040</b> | 122,7      | 61,3 |
| <b>050 - 060</b>             | 149,2      | 74,5 |
| <b>071 - 080 - 090 - 100</b> | 169,2      | 84,2 |

Multiples geared pumps, see data sheet **F.T 30 1356**

Seal kits:  
Nitrile: **K5074041**  
Viton: **K5074042**  
(For the manufacturings from october 1991)

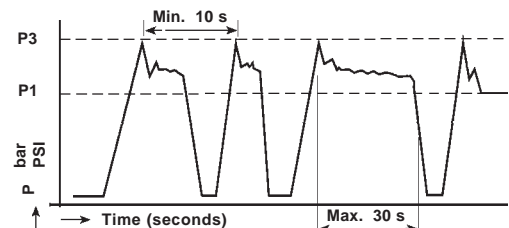
| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at<br>1000 RPM<br>and<br>100 bar | Input torque<br>at<br>100 bar<br>and<br>N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|-----|-------------------|--------------|---------------|--|---|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |   |                      |
|             |                      |                |      |                      |     |                   | l / min      | l / min       |  |   |                      |
| <b>3020</b> | 21,1                 | 275            | 3987 | 235                  | 235 | 3000              | 31,65        | 63,3          | 4  | 3,74  | 5,6                  |
| <b>3025</b> | 25,8                 | 275            | 3987 | 235                  | 235 | 3000              | 38,7         | 77,4          | 4,90   | 4,63  | 5,6                  |
| <b>3031</b> | 32,1                 | 275            | 3987 | 235                  | 235 | 3000              | 48,15        | 96,3          | 6,10   | 5,73  | 5,6                  |
| <b>3040</b> | 41,5                 | 275            | 3987 | 235                  | 235 | 3000              | 62,25        | 124,5         | 7,85   | 7,37  | 5,7                  |
| <b>3050</b> | 51,65                | 250            | 3625 | 215                  | 215 | 3000              | 77,47        | 154,9         | 9,77   | 9,21  | 6,9                  |
| <b>3060</b> | 62,6                 | 225            | 3262 | 190                  | 190 | 2500              | 93,9         | 156,5         | 11,85  | 11,05                                       | 7                    |
| <b>3071</b> | 73,55                | 225            | 3262 | 190                  | 190 | 2500              | 110,32       | 183,8         | 13,92  | 13,08                                       | 7                    |
| <b>3080</b> | 82,95                | 200            | 2900 | 170                  | 170 | 2200              | 124,42       | 182,4         | 15,59  | 14,60                                       | 7,1                  |
| <b>3090</b> | 92,95                | 150            | 2175 | 130                  | 130 | 2000              | 139,42       | 185,9         | 17,47  | 16,47                                       | 7,8                  |
| <b>3100</b> | 103,9                | 150            | 2175 | 130                  | 130 | 2000              | 155,85       | 207,8         | 19,40  | 18,17                                       | 8                    |

**F.T 30 1323 1/4**

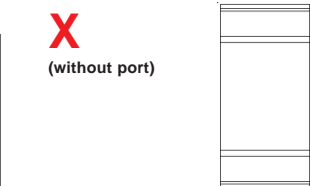
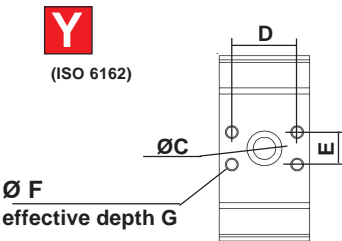
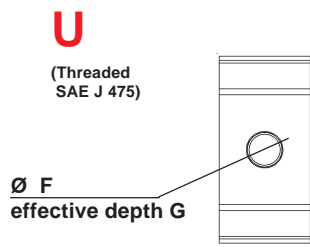
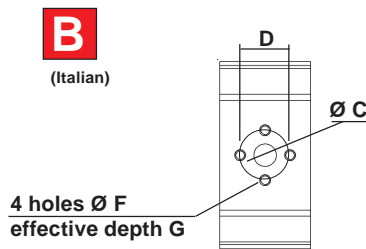
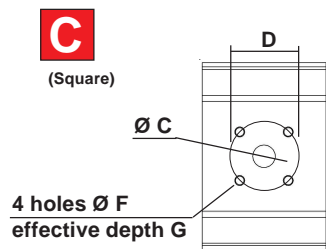
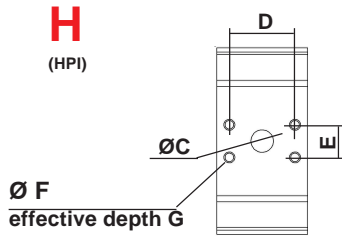
P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T) |      |      |                 |    | OUTLET (P) |      |      |                 |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |   |  |  |
|--------------|-----------|------|------|-----------------|----|------------|------|------|-----------------|----|---|---|--|--|
|              | ØC        | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G  | INLET (T)   |   | OUTLET (P)                                 |  |
|              |           |      |      |                 |    |            |      |      |                 |    | 1" N: 3.500072<br>BSP V: 3.505060   | 3020 1/2" N: 3.500070<br>BSP V: 3.505058  | 3025 3/4" N: 3.500071<br>BSP V: 3.505060   | 3030 1" N: 3.500072<br>BSP V: 3.505060     |
| 3020 to 3040 | 28        | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16 | 3071 1" 1/4 BSP<br>N: 3.500492<br>V: 3.505066                               | 3080 1" BSP<br>N: 3.500072<br>V: 3.505060 | 3090 1" 1/4 N: 3.500103<br>BSP V: 3.505061 | 3100 1" BSP<br>N: 3.500072<br>V: 3.505060  |
| 3050 3060    | 42        | 35,6 | 69,8 | M8              | 16 | 22         | 52,4 | 26,2 | M8              | 16 | 3071 1" 1/2 N: 3.500493<br>BSP V: 3.505067                                  | 3080 1" BSP<br>N: 3.500072<br>V: 3.505060 | 3090 1" 1/4 N: 3.500103<br>BSP V: 3.505061 | 3100 1" 1/4 N: 3.500103<br>BSP V: 3.505061 |
| 3071 to 3100 | 42        | 35,6 | 69,8 | M8              | 16 | 24         | 52,4 | 26,2 | M8              | 16 |   |   |  |  |
| 3020 to 3040 | 28        | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17 |   |   |  |  |
| 3050 3060    |           |      |      |                 |    |            |      |      |                 |    |   |   |  |  |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |   |  |  |
| 3020 to 3040 | 27        | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17 |   |   |  |  |
| 3050 3060    |           |      |      |                 |    |            |      |      |                 |    |   |   |  |  |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |   |  |  |
| 3020 to 3040 |           |      |      | 1' 5/16 -12 UNF | 19 |            |      |      | 1' 1/16 -12 UNF | 19 |   |   |  |  |
| 3050 3060    |           |      |      | 1' 5/8 -12 UNF  | 19 |            |      |      | 1' 5/16 -12 UNF | 19 |   |   |  |  |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |   |  |  |
| 3020 to 3040 | 28        | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17 |   |   |  |  |
| 3050 3060    | 42        | 69,8 | 35,6 | M14             | 17 | 34         | 52,4 | 26,2 | M10             | 17 |   |   |  |  |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |   |  |  |
| 3020 to 3040 |           |      |      |                 |    |            |      |      |                 |    | Only with rear body Type A  |   |  |  |
| 3050 3060    |           |      |      |                 |    |            |      |      |                 |    |   |   |  |  |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |   |  |  |

Dimensions readings and approximative characteristics subject to modifications.

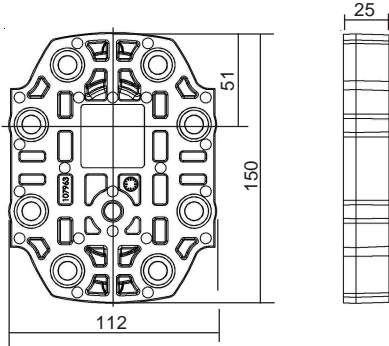
F.T 30 11323 2/4

Consult us for availability

**REAR BODIES**

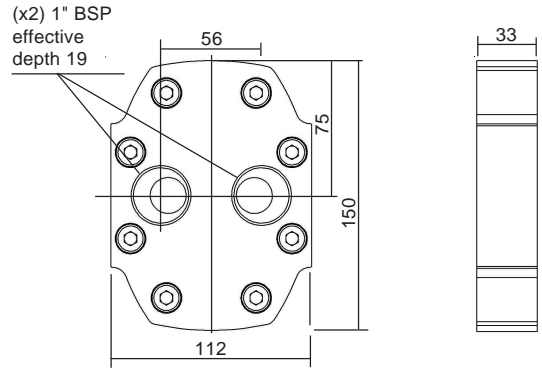
**L**

Standard



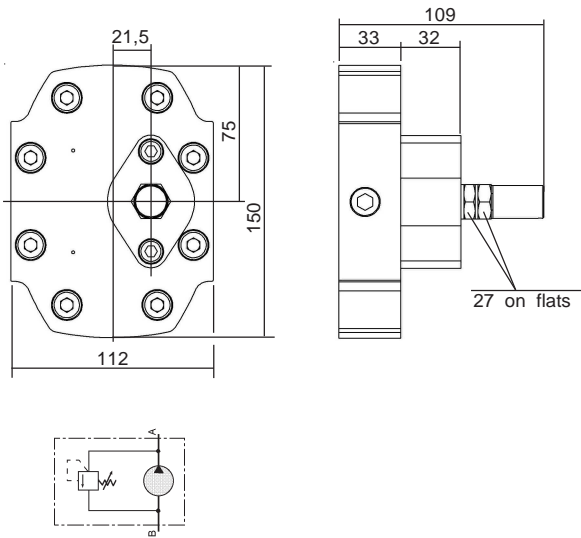
**A**

with ports



**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 30 1323 3/4**

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

Straight keyed

20

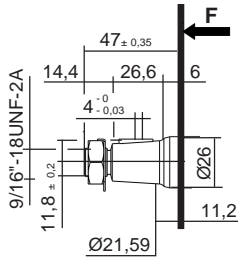
Splined

30

Tang

40

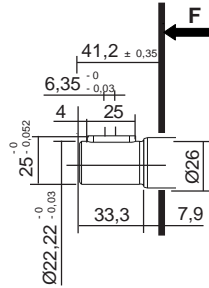
**B03** Taper 1 / 8



Delivered with Nut and lock washer Ref.: K100734 Ref.: K103945

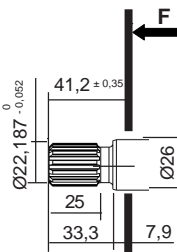
Maxi transmissible torque **530 N.m**

**A02**



Maxi transmissible torque **290 N.m**

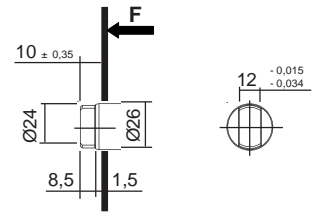
**A02**



Involute spline SAE Standard 13 teeth - 7/8" - Diametral Pitch 16/32 30° Pressure angle

Maxi transmissible torque **390 N.m**

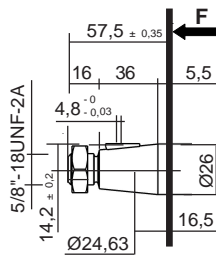
**C04**



Maxi transmissible torque **70 N.m**

Dimensions readings and approximative characteristics subject to modifications.

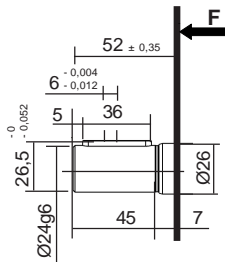
**B04** Taper 1 / 8



Delivered with Nut Ref.: K101877

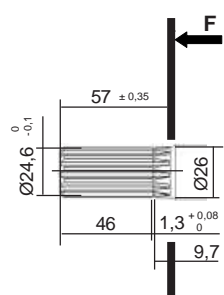
Maxi transmissible torque **800 N.m**

**C04**



Maxi transmissible torque **320 N.m**

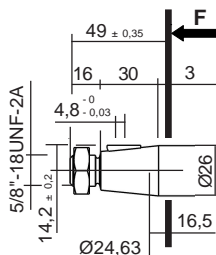
**C03**



Involute spline shaft 25 x 13 x 1,667 to standard NF E 22 141 - BNA 455 Spigot on free flanks

Maxi transmissible torque **66,5 N.m**

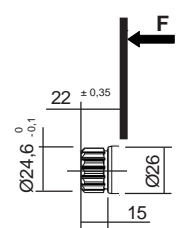
**C04** Taper 1 / 5



Delivered with Nut Ref.: K101712

Maxi transmissible torque **800 N.m**

**C07**

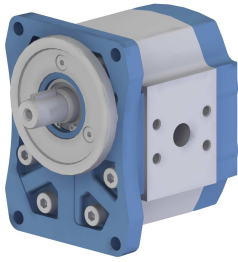


Involute spline shaft 25 x 13 x 1,667 to standard NF E 22 141 - BNA 455 Spigot on free flanks

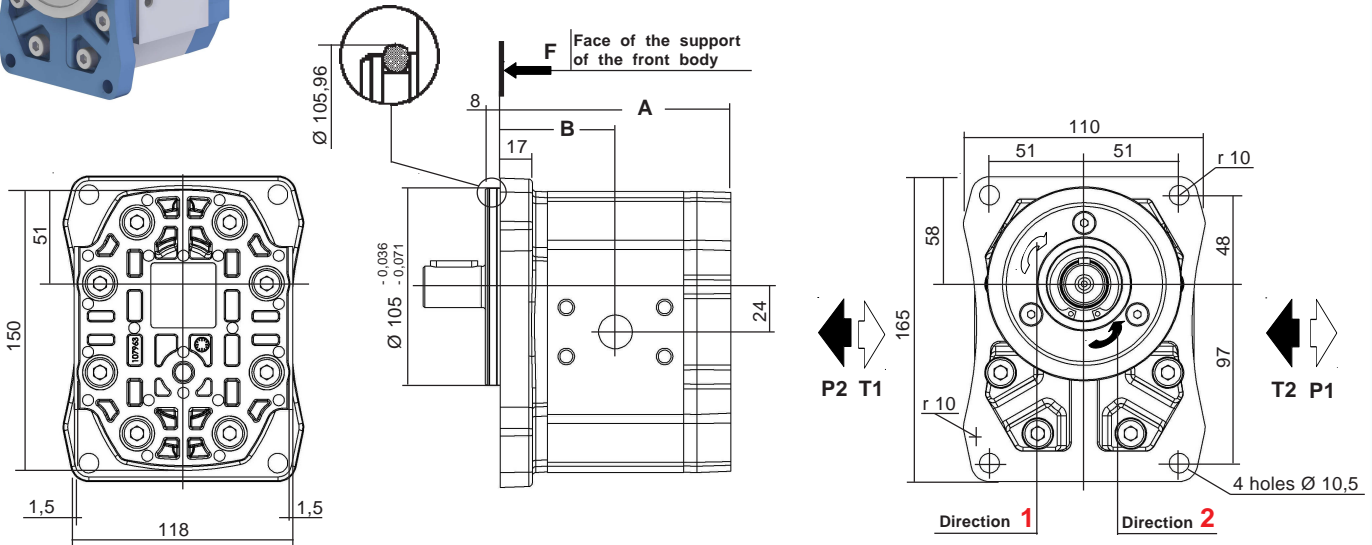
Maxi transmissible torque **48 N.m**

F.T 30 1323 4/4

Consult us for availability



For CODIFICATION, see data sheet **F.T R 0011**



| CHOICE of the Capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 020 - 025 - 031 - 040  | 122,7      | 61,3 |
| 050 - 060              | 149,2      | 74,5 |
| 071 - 080 - 090 - 100  | 169,2      | 84,2 |

Multiples geared pumps, see data sheet **F.T 30 1356**

Seal kits:  
Nitrile: **K5074041 + K106998**  
Viton: **K5074042 + K108357**  
(For the manufacturings from october 1991)

| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at<br>1000 RPM<br>and<br>100 bar | Input torque<br>at<br>100 bar<br>and<br>N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|-----|-------------------|--------------|---------------|--|---|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |   |                      |
|             |                      |                |      |                      |     |                   | l / min      | l / min       |  |   |                      |
| <b>3020</b> | 21,1                 | 275            | 3987 | 235                  | 235 | 3000              | 31,65        | 63,3          | 4  | 3,74  | 5,6                  |
| <b>3025</b> | 25,8                 | 275            | 3987 | 235                  | 235 | 3000              | 38,7         | 77,4          | 4,90   | 4,63  | 5,6                  |
| <b>3031</b> | 32,1                 | 275            | 3987 | 235                  | 235 | 3000              | 48,15        | 96,3          | 6,10   | 5,73  | 5,6                  |
| <b>3040</b> | 41,5                 | 275            | 3987 | 235                  | 235 | 3000              | 62,25        | 124,5         | 7,85   | 7,37  | 5,7                  |
| <b>3050</b> | 51,65                | 250            | 3625 | 215                  | 215 | 3000              | 77,47        | 154,9         | 9,77   | 9,21  | 6,9                  |
| <b>3060</b> | 62,6                 | 225            | 3262 | 190                  | 190 | 2500              | 93,9         | 156,5         | 11,85  | 11,05                                       | 7                    |
| <b>3071</b> | 73,55                | 225            | 3262 | 190                  | 190 | 2500              | 110,32       | 183,8         | 13,92  | 13,08                                       | 7                    |
| <b>3080</b> | 82,95                | 200            | 2900 | 170                  | 170 | 2200              | 124,42       | 182,4         | 15,59  | 14,60                                       | 7,1                  |
| <b>3090</b> | 92,95                | 150            | 2175 | 130                  | 130 | 2000              | 139,42       | 185,9         | 17,47  | 16,47                                       | 7,8                  |
| <b>3100</b> | 103,9                | 150            | 2175 | 130                  | 130 | 2000              | 155,85       | 207,8         | 19,40  | 18,17                                       | 8                    |

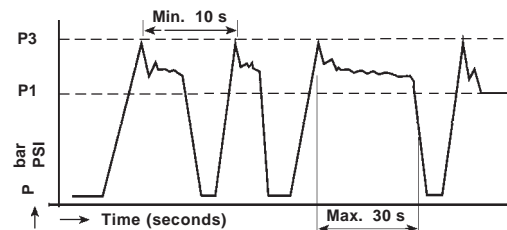
Dimensions readings and approximative characteristics subject to modifications.

**F.T 30 1359 1/4**

P1 Maximum pressure in continuous duty.

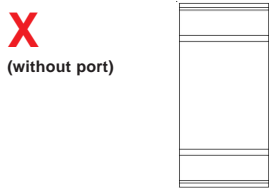
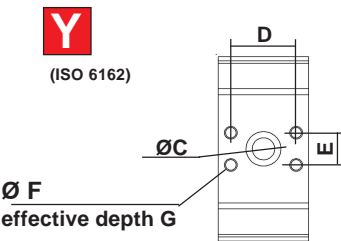
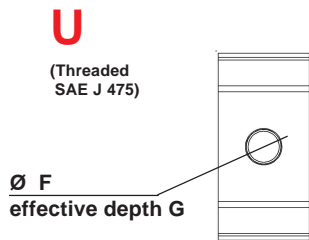
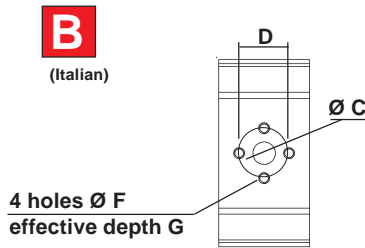
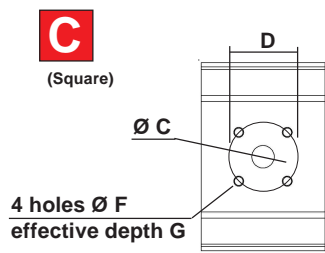
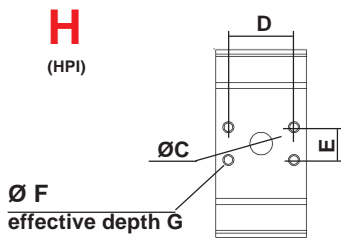
Maximum Pressure ⇨

P3 Allowable peak pressure.



  Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T) |      |      |                 |    | OUTLET (P) |      |      |                 |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |      |                                      |      |   |      |                                       |      |  |
|--------------|-----------|------|------|-----------------|----|------------|------|------|-----------------|----|---|------|--------------------------------------|------|---|------|---------------------------------------|------|--|
|              | ØC        | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G  | INLET (T)   |      | OUTLET (P)                           |      |   |      |                                       |      |  |
|              |           |      |      |                 |    |            |      |      |                 |    | 3020 to 3040  | 3025 | 3031                                 | 3040 | 3025  | 3031 | 3040                                  |      |  |
| 3020 to 3040 | 28        | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16 | 1" N: 3.500072<br>BSP V: 3.505060   | 3020 | 1/2" N: 3.500070<br>BSP V: 3.505058  | 3025 | 1" N: 3.500071<br>BSP V: 3.505061               | 3031 | 3/4" N: 3.500071<br>BSP V: 3.505060   | 3040 |  |
| 3050 3060    | 42        | 35,6 | 69,8 | M8              | 16 | 22         | 52,4 | 26,2 | M8              | 16 | 1" 1/4 BSP<br>N: 3.500492<br>V: 3.505066                                    |      | 1" BSP<br>N: 3.500072<br>V: 3.505060 |      |   |      |                                       |      |  |
| 3071 to 3100 | 42        | 35,6 | 69,8 | M8              | 16 | 24         | 52,4 | 26,2 | M8              | 16 | 3071 1" 1/2 N: 3.500493<br>3080 BSP V: 3.505067                             | 3071 | 1" N: 3.500072<br>BSP V: 3.505060    | 3080 | 3090 1" 1/2 N: 3.500493<br>3100 BSP V: 3.505067 | 3090 | 1" 1/4 N: 3.500103<br>BSP V: 3.505061 | 3100 |  |
| 3020 to 3040 | 28        | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17 |   |      |                                      |      |   |      |                                       |      |  |
| 3050 3060    |           |      |      |                 |    |            |      |      |                 |    |   |      |                                      |      |   |      |                                       |      |  |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |      |                                      |      |   |      |                                       |      |  |
| 3020 to 3040 | 27        | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17 |   |      |                                      |      |   |      |                                       |      |  |
| 3050 3060    |           |      |      |                 |    |            |      |      |                 |    |   |      |                                      |      |   |      |                                       |      |  |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |      |                                      |      |   |      |                                       |      |  |
| 3020 to 3040 |           |      |      | 1' 5/16 -12 UNF | 19 |            |      |      | 1' 1/16 -12 UNF | 19 |   |      |                                      |      |   |      |                                       |      |  |
| 3050 3060    |           |      |      | 1' 5/8 -12 UNF  | 19 |            |      |      | 1' 5/16 -12 UNF | 19 |   |      |                                      |      |   |      |                                       |      |  |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |      |                                      |      |   |      |                                       |      |  |
| 3020 to 3040 | 28        | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17 |   |      |                                      |      |   |      |                                       |      |  |
| 3050 3060    | 42        | 69,8 | 35,6 | M14             | 17 | 34         | 52,4 | 26,2 | M10             | 17 |   |      |                                      |      |   |      |                                       |      |  |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |      |                                      |      |   |      |                                       |      |  |
| 3020 to 3040 |           |      |      |                 |    |            |      |      |                 |    | Only with rear body Type A  |      |                                      |      |   |      |                                       |      |  |
| 3050 3060    |           |      |      |                 |    |            |      |      |                 |    | Only with rear body Type A  |      |                                      |      |   |      |                                       |      |  |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    | Only with rear body Type A  |      |                                      |      |   |      |                                       |      |  |

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 11359 2/4

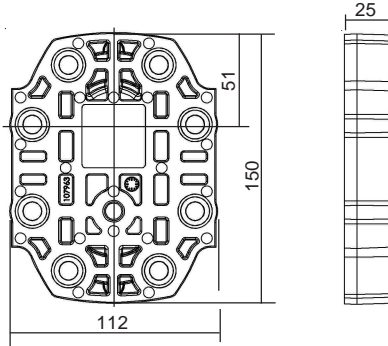
Consult us for availability



REAR BODIES

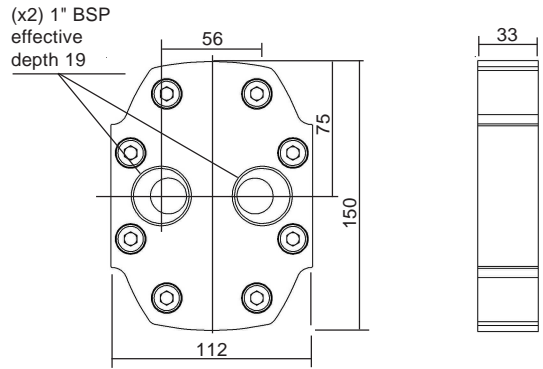
**L**

Standard



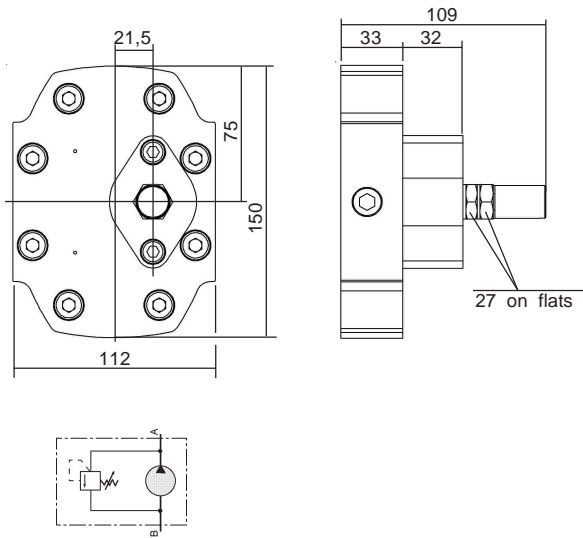
**A**

with ports



**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1359 3/4



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DRIVING SHAFT (FLAT FRONT BODY)

Tapered

Straight keyed

Splined

Tang

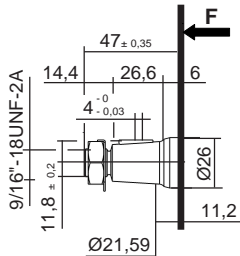
10

20

30

40

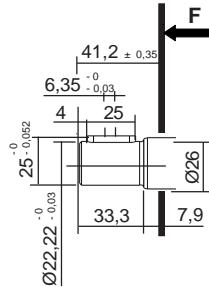
**B03** Taper 1 / 8



Delivered with Nut and lock washer Ref.: K100734 Ref.: K103945

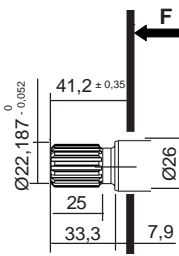
**Maxi transmissible torque**  
**530 N.m**

**A02**



**Maxi transmissible torque**  
**290 N.m**

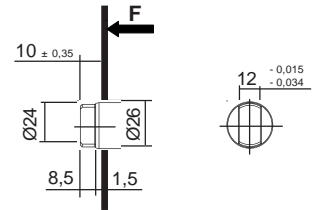
**A02**



Involute spline SAE Standard 13 teeth - 7/8" - Diametral Pitch 16/32 30° Pressure angle

**Maxi transmissible torque**  
**390 N.m**

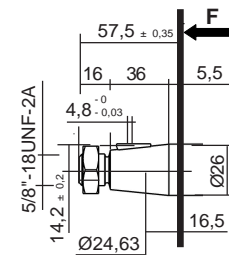
**C04**



**Maxi transmissible torque**  
**70 N.m**

Dimensions readings and approximative characteristics subject to modifications.

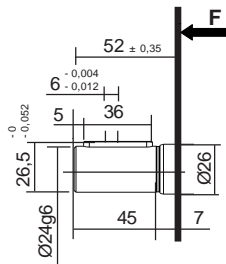
**B04** Taper 1 / 8



Delivered with Nut Ref.: K101877

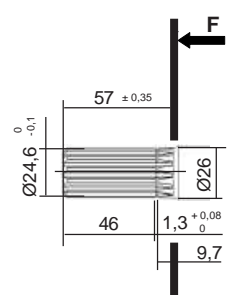
**Maxi transmissible torque**  
**800 N.m**

**C04**



**Maxi transmissible torque**  
**320 N.m**

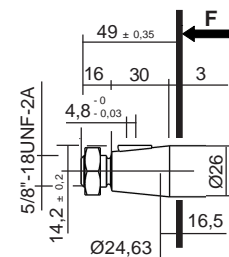
**C03**



Involute spline shaft 25 x 13 x 1,667 to standard NF E 22 141 - BNA 455 Spigot on free flanks

**Maxi transmissible torque**  
**66,5 N.m**

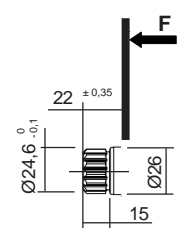
**C04** Taper 1 / 5



Delivered with Nut Ref.: K101712

**Maxi transmissible torque**  
**800 N.m**

**C07**



Involute spline shaft 25 x 13 x 1,667 to standard NF E 22 141 - BNA 455 Spigot on free flanks

**Maxi transmissible torque**  
**48 N.m**

F.T 30 1359 4/4

Consult us for availability



**PUMPS PRESENTATION**  
**SERIES 3**

**F.T 30 1312**

**- THICK FRONT BODIES**

PUMP

**AAP / AEP**



Data sheet

**F.T 30 1370**

PUMP

**AAR / AER**



Data sheet

**F.T 30 1373**

PUMP

**AAX**



Data sheet

**F.T 30 1414**

PUMP

**ABP**



Data sheet

**F.T 30 1375**

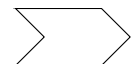
PUMP

**ABR**



Data sheet

**F.T 30 1376**



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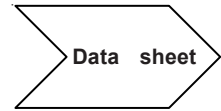
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[main dimensions](#)

PUBLISHING 17 / 03 / 2011

- THICK FRONT BODIES (rest)

PUMP **ADP**



F.T 30 1371

PUMP **ADR**



F.T 30 1374

PUMP **ADX**



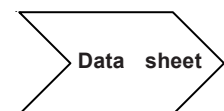
F.T 30 1377

PUMP **ADZ**



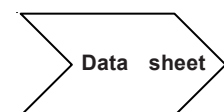
F.T 30 1378

PUMP **ZFC**

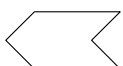


F.T 30 1372

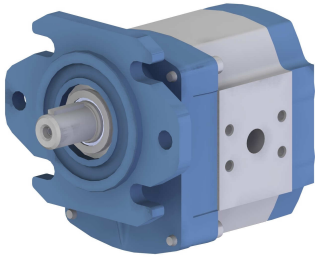
MULTIPLES  
PUMPS



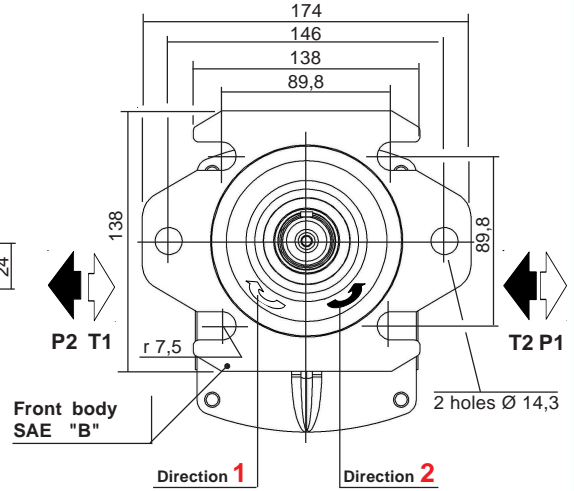
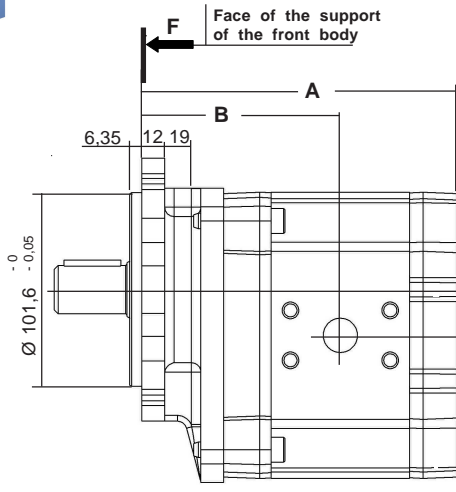
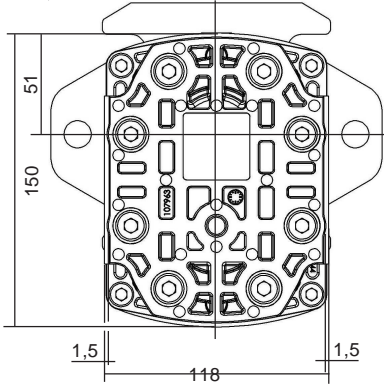
F.T 30 1306



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For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |       |
|------------------------|------------|-------|
|                        | A          | B     |
| 020 - 025 - 031 - 040  | 165,7      | 104,3 |
| 050 - 060              | 192,2      | 117,5 |
| 071 - 080 - 090 - 100  | 212,2      | 127,2 |

Multiples geared pumps, see data sheet **F.T 30 1356**

Seal kits:  
Nitrile: **K5083019 + K5074043**  
Viton: **K5083020 + K5074044**  
(For the manufacturings from february 1998)

| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |     | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW           |                          | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------|----------------------|----------------|-----|----------------------|-----|-------------------|------------------------|--------------------------|--|---------------------------------------|----------------------|
|       |                      | bar            | PSI | bar                  | PSI |                   | at 1500 RPM<br>l / min | at Maxi speed<br>l / min |  |                                       |                      |

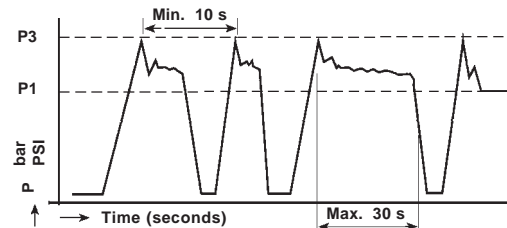
|             |       |     |      |     |     |      |        |       |       |       |      |
|-------------|-------|-----|------|-----|-----|------|--------|-------|-------|-------|------|
| <b>3020</b> | 21,1  | 275 | 3987 | 235 | 235 | 3000 | 31,65  | 63,3  | 4     | 3,74  | 11,3 |
| <b>3025</b> | 25,8  | 275 | 3987 | 235 | 235 | 3000 | 38,7   | 77,4  | 4,90  | 4,63  | 11,3 |
| <b>3031</b> | 32,1  | 275 | 3987 | 235 | 235 | 3000 | 48,15  | 96,3  | 6,10  | 5,73  | 11,3 |
| <b>3040</b> | 41,5  | 275 | 3987 | 235 | 235 | 3000 | 62,25  | 124,5 | 7,85  | 7,37  | 11,4 |
| <b>3050</b> | 51,65 | 250 | 3625 | 215 | 215 | 3000 | 77,47  | 154,9 | 9,77  | 9,21  | 12,6 |
| <b>3060</b> | 62,6  | 225 | 3262 | 190 | 190 | 2500 | 93,9   | 156,5 | 11,85 | 11,05 | 12,7 |
| <b>3071</b> | 73,55 | 225 | 3262 | 190 | 190 | 2500 | 110,32 | 183,8 | 13,92 | 13,08 | 12,7 |
| <b>3080</b> | 82,95 | 200 | 2900 | 170 | 170 | 2200 | 124,42 | 182,4 | 15,59 | 14,60 | 12,8 |
| <b>3090</b> | 92,95 | 150 | 2175 | 130 | 130 | 2000 | 139,42 | 185,9 | 17,47 | 16,47 | 13,5 |
| <b>3100</b> | 103,9 | 150 | 2175 | 130 | 130 | 2000 | 155,85 | 207,8 | 19,40 | 18,17 | 13,7 |

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P1 Maximum pressure in continuous duty.

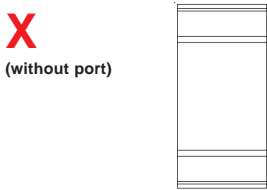
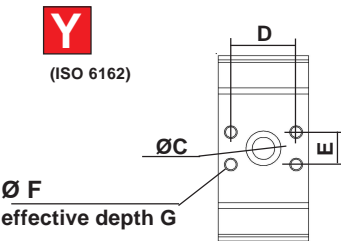
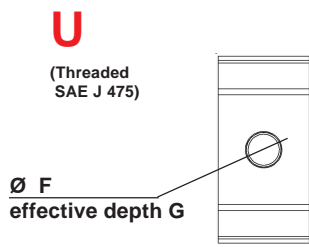
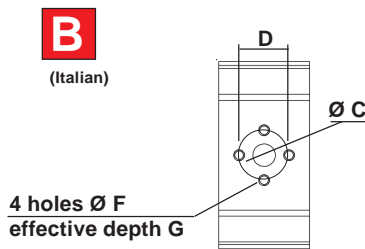
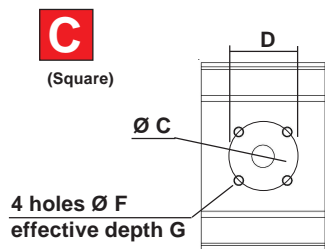
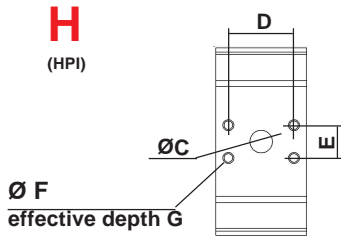
Maximum Pressure ⇨

P3 Allowable peack pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                 |    | OUTLET (P) |      |      |                 |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |  |  |
|--------------|----------------------------|------|------|-----------------|----|------------|------|------|-----------------|----|---|--|--|--|
|              | ØC                         | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G  | INLET (T)   |  | OUTLET (P)                                 |  |
|              |                            |      |      |                 |    |            |      |      |                 |    | 1" N: 3.500072<br>BSP V: 3.505060   | 3020 1/2" N: 3.500070<br>BSP V: 3.505058   | 3031 3/4" N: 3.500071<br>BSP V: 3.505060   | 3040 1" BSP<br>N: 3.500072<br>V: 3.505060  |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16 | 3071 1" 1/2 N: 3.500493<br>BSP V: 3.505067                                  | 3080 1" 1/2 N: 3.500493<br>BSP V: 3.505067 | 3090 1" 1/4 N: 3.500103<br>BSP V: 3.505061 | 3100 1" 1/4 N: 3.500103<br>BSP V: 3.505061 |
| 3050 3060    | 42                         | 35,6 | 69,8 | M8              | 16 | 22         | 52,4 | 26,2 | M8              | 16 |   |  |  |  |
| 3071 to 3100 | 42                         | 35,6 | 69,8 | M8              | 16 | 24         | 52,4 | 26,2 | M8              | 16 |   |  |  |  |
| 3020 to 3040 | 28                         | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17 |   |  |  |  |
| 3050 3060    |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |  |
| 3020 to 3040 | 27                         | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17 |   |  |  |  |
| 3050 3060    |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |  |
| 3020 to 3040 |                            |      |      | 1' 5/16 -12 UNF | 19 |            |      |      | 1' 1/16 -12 UNF | 19 |   |  |  |  |
| 3050 3060    |                            |      |      | 1' 5/8 -12 UNF  | 19 |            |      |      | 1' 5/16 -12 UNF | 19 |   |  |  |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |  |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17 |   |  |  |  |
| 3050 3060    | 42                         | 69,8 | 35,6 | M14             | 17 | 34         | 52,4 | 26,2 | M10             | 17 |   |  |  |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |  |
| 3020 to 3040 | Only with rear body Type A |      |      |                 |    |            |      |      |                 |    |   |  |  |  |
| 3050 3060    |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |  |

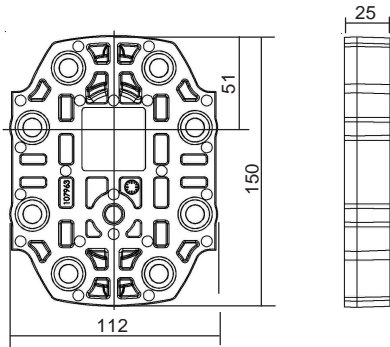
Dimensions readings and approximative characteristics subject to modifications.

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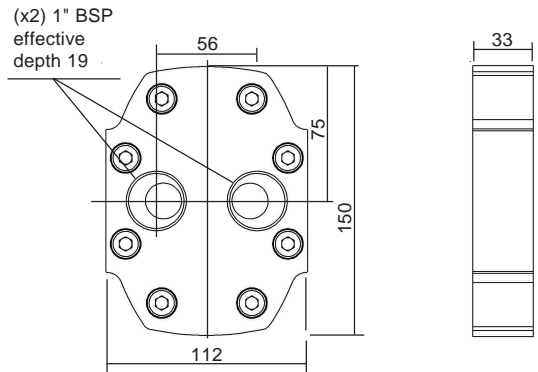
Consult us for availability

**REAR BODIES**

**L**  
Standard

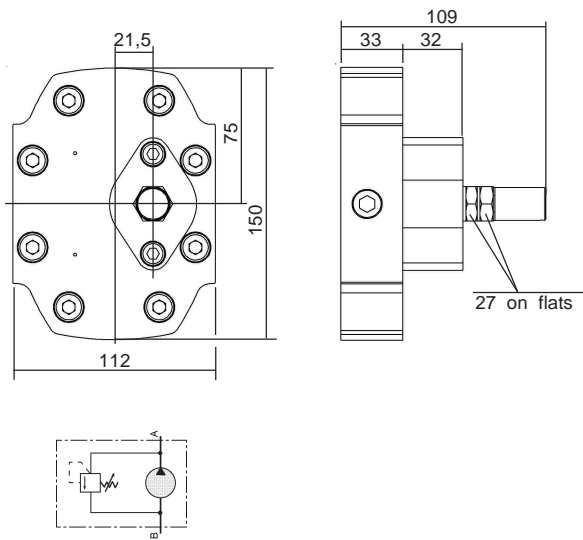


**A**  
with ports



**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1370 3/4



Consult us for availability

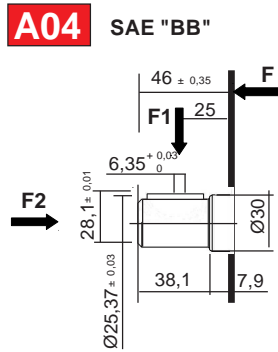
DRIVING SHAFTS

Tapered  
**10**

Straight keyed  
**20**

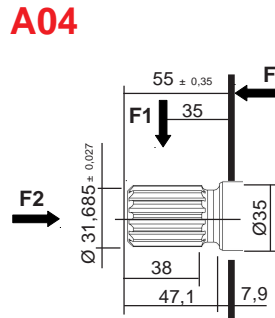
Spined  
**30**

Tang  
**40**



**A04** SAE "BB"  
F1 = 140 daN  
F2 = 50 daN

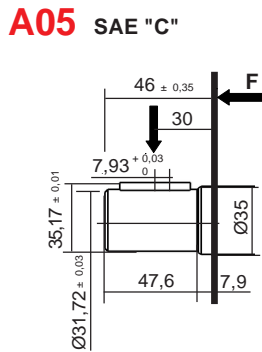
Maxi transmissible torque  
**340 N.m**



**A04**  
F1 = 120 daN  
F2 = 50 daN

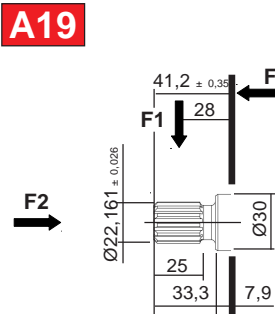
Involute spline to SAE "C"  
14 teet - 1" 1/4-  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
**500 N.m**



**A05** SAE "C"  
F1 = 140 daN  
F2 = 50 daN

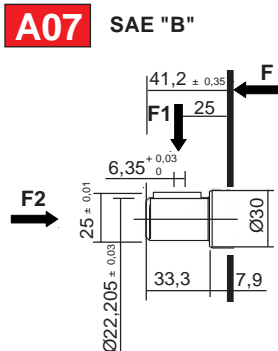
Maxi transmissible torque  
**430 N.m**



**A19**  
F1 = 120 daN  
F2 = 50 daN

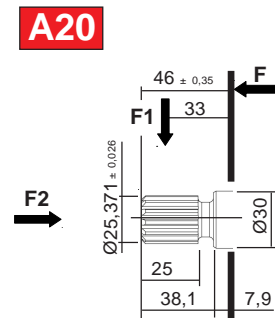
Involute spline to SAE "B"  
13 teeth - 7/8"  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
**310 N.m**



**A07** SAE "B"  
F1 = 140 daN  
F2 = 50 daN

Maxi transmissible torque  
**290 N.m**



**A20**  
F1 = 120 daN  
F2 = 50 daN

Involute spline to SAE "BB"  
15 teeth - 1"  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
**490 N.m**

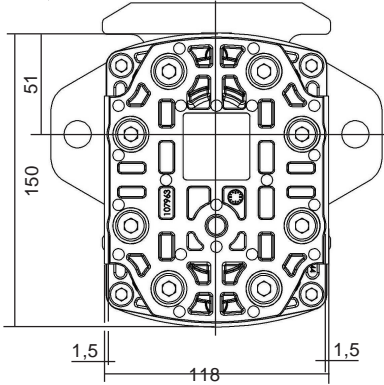
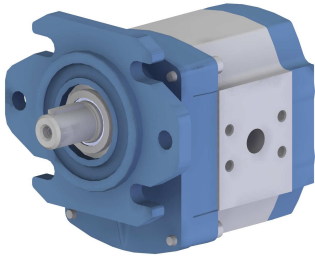
Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1370 4/4

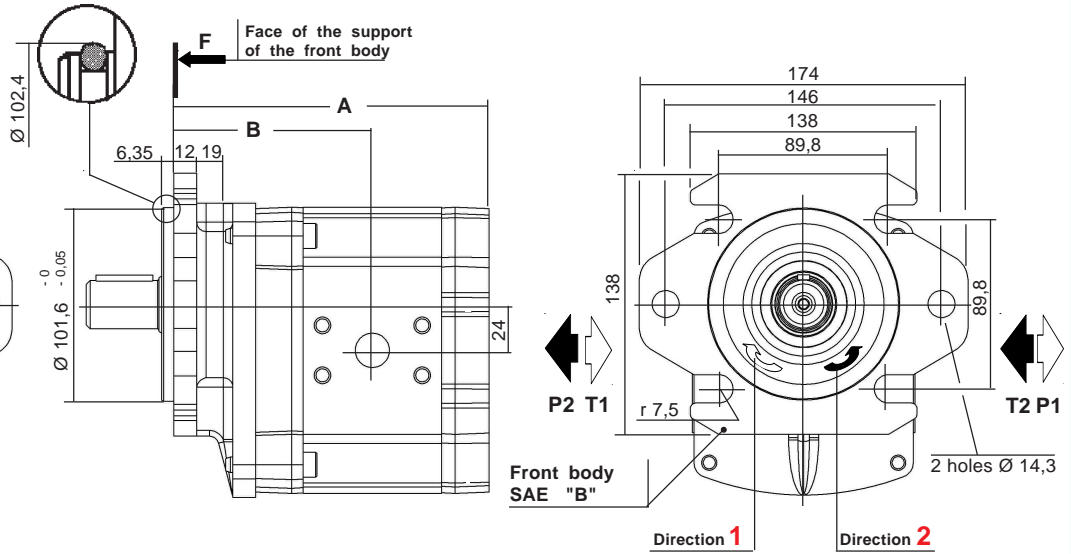


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For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |       |
|------------------------|------------|-------|
|                        | A          | B     |
| 020 - 025 - 031 - 040  | 165,7      | 104,3 |
| 050 - 060              | 192,2      | 117,5 |
| 071 - 080 - 090 - 100  | 212,2      | 127,2 |

Multiples geared pumps, see data sheet **F.T 30 1356**

Seal kits:  
Nitrile: **K5083019 + K5074043 + K107081**  
Viton: **K5083020 + K5074044 + K107045**  
(For the manufacturings from february 1998)

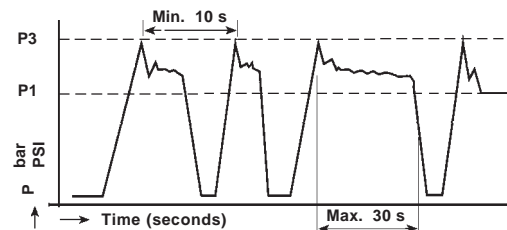
| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------|----------------------|----------------|------|----------------------|-----|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|       |                      | bar            | PSI  | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |                                 |                      |
|       |                      |                |      |                      |     |                   | l / min      | l / min       |  |                                 |                      |
| 3020  | 21,1                 | 275            | 3987 | 235                  | 235 | 3000              | 31,65        | 63,3          | 4  | 3,74                            | 11,3                 |
| 3025  | 25,8                 | 275            | 3987 | 235                  | 235 | 3000              | 38,7         | 77,4          | 4,90                                     | 4,63                            | 11,3                 |
| 3031  | 32,1                 | 275            | 3987 | 235                  | 235 | 3000              | 48,15        | 96,3          | 6,10                                     | 5,73                            | 11,3                 |
| 3040  | 41,5                 | 275            | 3987 | 235                  | 235 | 3000              | 62,25        | 124,5         | 7,85                                     | 7,37                            | 11,4                 |
| 3050  | 51,65                | 250            | 3625 | 215                  | 215 | 3000              | 77,47        | 154,9         | 9,77                                     | 9,21                            | 12,6                 |
| 3060  | 62,6                 | 225            | 3262 | 190                  | 190 | 2500              | 93,9         | 156,5         | 11,85                                    | 11,05                           | 12,7                 |
| 3071  | 73,55                | 225            | 3262 | 190                  | 190 | 2500              | 110,32       | 183,8         | 13,92                                    | 13,08                           | 12,7                 |
| 3080  | 82,95                | 200            | 2900 | 170                  | 170 | 2200              | 124,42       | 182,4         | 15,59                                    | 14,60                           | 12,8                 |
| 3090  | 92,95                | 150            | 2175 | 130                  | 130 | 2000              | 139,42       | 185,9         | 17,47                                    | 16,47                           | 13,5                 |
| 3100  | 103,9                | 150            | 2175 | 130                  | 130 | 2000              | 155,85       | 207,8         | 19,40                                    | 18,17                           | 13,7                 |

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P1 Maximum pressure in continuous duty.

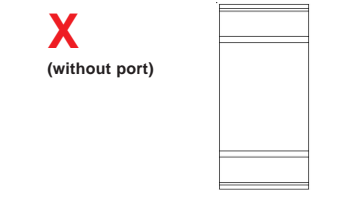
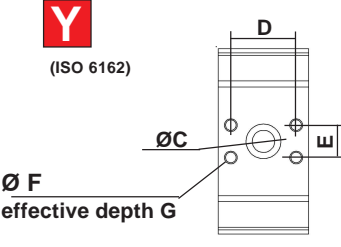
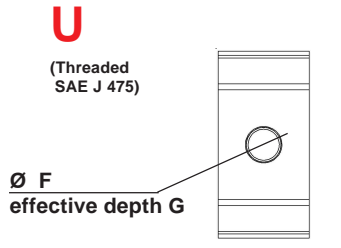
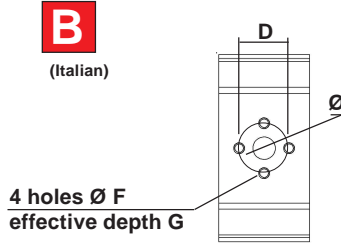
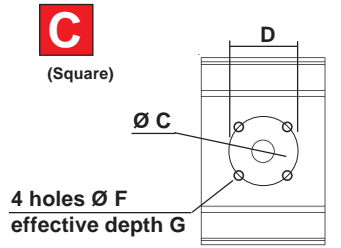
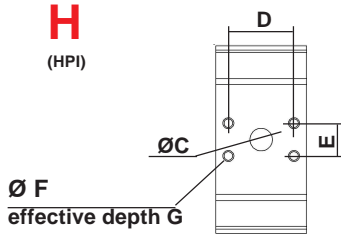
Maximum Pressure ⇒

P3 Allowable peak pressure.



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CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity            | INLET (T)                  |      |      |                 |    | OUTLET (P) |      |      |                 |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |                                       |                                      |                                   |                                     |                                       |
|---------------------|----------------------------|------|------|-----------------|----|------------|------|------|-----------------|----|---|---------------------------------------|--------------------------------------|-----------------------------------|-------------------------------------|---------------------------------------|
|                     | ØC                         | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G  | INLET (T)   |                                       | OUTLET (P)                           |                                   |                                     |                                       |
|                     |                            |      |      |                 |    |            |      |      |                 |    | 3020 to 3040  | 3025                                  | 3030 to 3040                         | 3031 3040                         |                                     |                                       |
| <b>H</b><br>(HPI)   | 28                         | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16 | 1" N: 3.500072<br>BSP V: 3.505060   | 3020                                  | 1/2" N: 3.500070<br>BSP V: 3.505058  | 3025                              | 3/4" N: 3.500071<br>BSP V: 3.505060 |                                       |
| <b>3050 to 3060</b> | 42                         | 35,6 | 69,8 | M8              | 16 | 22         | 52,4 | 26,2 | M8              | 16 | 1" 1/4 BSP<br>N: 3.500492<br>V: 3.505066                                    |                                       | 1" BSP<br>N: 3.500072<br>V: 3.505060 |                                   |                                     |                                       |
| <b>3071 to 3100</b> | 42                         | 35,6 | 69,8 | M8              | 16 | 24         | 52,4 | 26,2 | M8              | 16 | 3071 3080   | 1" 1/2 N: 3.500493<br>BSP V: 3.505067 | 3071 3080                            | 1" N: 3.500072<br>BSP V: 3.505060 | 3090 3100                           | 1" 1/2 N: 3.500493<br>BSP V: 3.505067 |
| <b>3020 to 3040</b> |                            |      |      |                 |    |            |      |      |                 |    |   |                                       |                                      |                                   |                                     |                                       |
| <b>3050 to 3060</b> | 28                         | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17 |   |                                       |                                      |                                   |                                     |                                       |
| <b>3071 to 3100</b> |                            |      |      |                 |    |            |      |      |                 |    |   |                                       |                                      |                                   |                                     |                                       |
| <b>3020 to 3040</b> | 27                         | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17 |   |                                       |                                      |                                   |                                     |                                       |
| <b>3050 to 3060</b> |                            |      |      |                 |    |            |      |      |                 |    |   |                                       |                                      |                                   |                                     |                                       |
| <b>3071 to 3100</b> |                            |      |      |                 |    |            |      |      |                 |    |   |                                       |                                      |                                   |                                     |                                       |
| <b>3020 to 3040</b> |                            |      |      | 1" 5/16 -12 UNF | 19 |            |      |      | 1" 1/16 -12 UNF | 19 |   |                                       |                                      |                                   |                                     |                                       |
| <b>3050 to 3060</b> |                            |      |      | 1" 5/8 -12 UNF  | 19 |            |      |      | 1" 5/16 -12 UNF | 19 |   |                                       |                                      |                                   |                                     |                                       |
| <b>3071 to 3100</b> |                            |      |      |                 |    |            |      |      |                 |    |   |                                       |                                      |                                   |                                     |                                       |
| <b>3020 to 3040</b> | 28                         | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17 |   |                                       |                                      |                                   |                                     |                                       |
| <b>3050 to 3060</b> | 42                         | 69,8 | 35,6 | M14             | 17 | 34         | 52,4 | 26,2 | M10             | 17 |   |                                       |                                      |                                   |                                     |                                       |
| <b>3071 to 3100</b> |                            |      |      |                 |    |            |      |      |                 |    |   |                                       |                                      |                                   |                                     |                                       |
| <b>3020 to 3040</b> | Only with rear body Type A |      |      |                 |    |            |      |      |                 |    |   |                                       |                                      |                                   |                                     |                                       |
| <b>3050 to 3060</b> |                            |      |      |                 |    |            |      |      |                 |    |   |                                       |                                      |                                   |                                     |                                       |
| <b>3071 to 3100</b> |                            |      |      |                 |    |            |      |      |                 |    |   |                                       |                                      |                                   |                                     |                                       |

Dimensions readings and approximative characteristics subject to modifications.

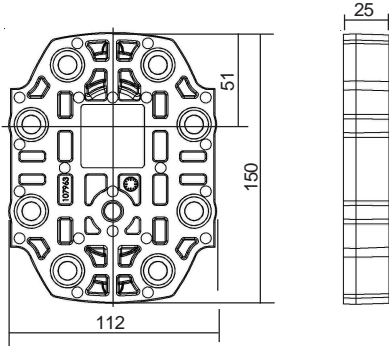
F.T 30 11373 2/4

Consult us for availability

**REAR BODIES**

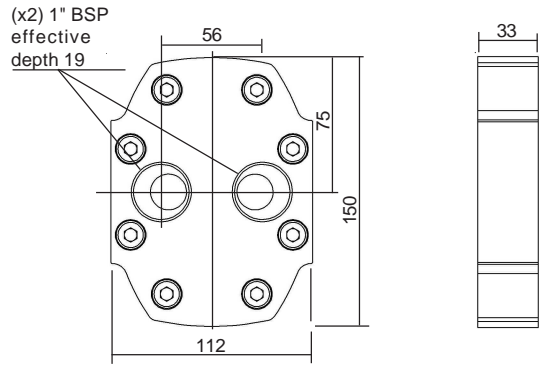
**L**

Standard



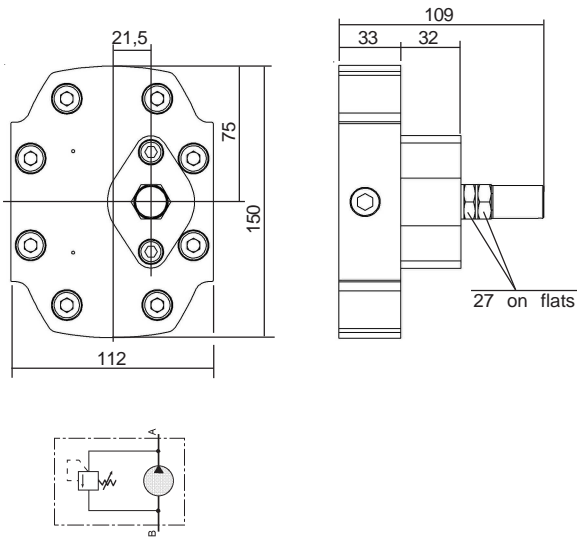
**A**

with ports



**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 30 1373 3/4**



Consult us for availability

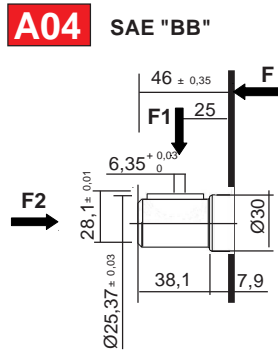
DRIVING SHAFTS

Tapered  
10

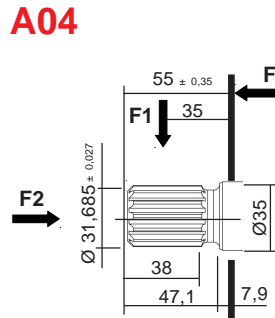
Straight keyed  
20

Spined  
30

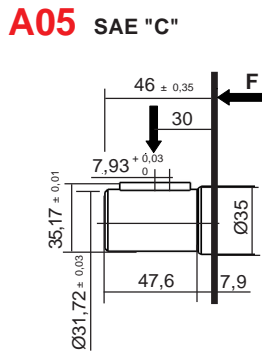
Tang  
40



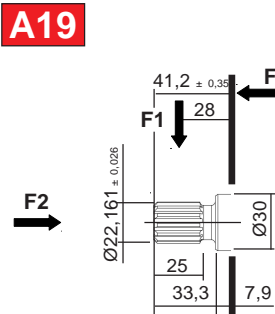
**A04** SAE "BB"  
**F1 = 140 daN**  
**F2 = 50 daN**  
Maxi transmissible torque  
**340 N.m**



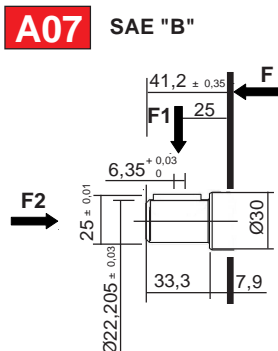
**A04**  
**F1 = 120 daN**  
**F2 = 50 daN**  
Involute spline to SAE "C"  
14 teet - 1" 1/4-  
Diametral Pitch 16/32  
30° Pressure angle  
Maxi transmissible torque  
**500 N.m**



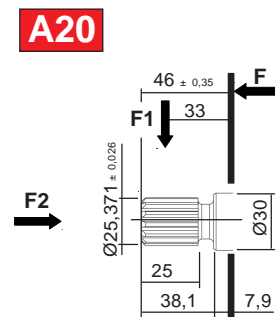
**A05** SAE "C"  
**F1 = 140 daN**  
**F2 = 50 daN**  
Maxi transmissible torque  
**430 N.m**



**A19**  
**F1 = 120 daN**  
**F2 = 50 daN**  
Involute spline to SAE "B"  
13 teeth - 7/8"  
Diametral Pitch 16/32  
30° Pressure angle  
Maxi transmissible torque  
**310 N.m**



**A07** SAE "B"  
**F1 = 140 daN**  
**F2 = 50 daN**  
Maxi transmissible torque  
**290 N.m**

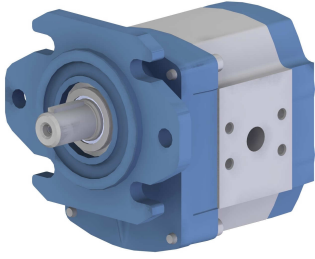


**A20**  
**F1 = 120 daN**  
**F2 = 50 daN**  
Involute spline to SAE "BB"  
15 teeth - 1"  
Diametral Pitch 16/32  
30° Pressure angle  
Maxi transmissible torque  
**490 N.m**

Dimensions readings and approximative characteristics subject to modifications.

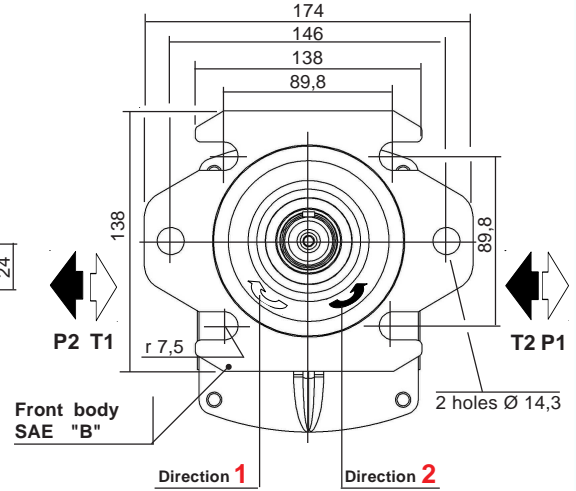
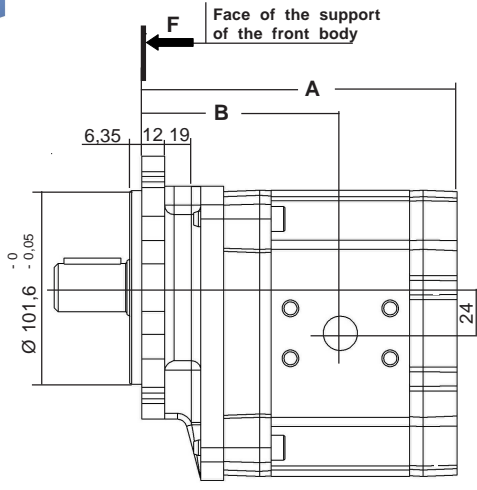
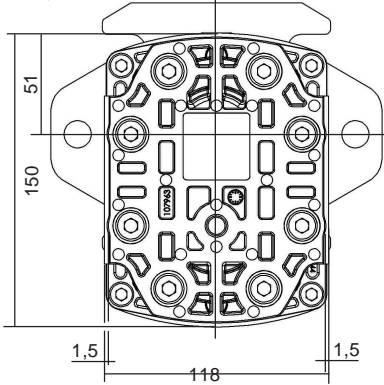
F.T 30 1373 4/4

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P II Sign AA X 3 VI Sign HL IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet F.T R 0011



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |       |
|------------------------|------------|-------|
|                        | A          | B     |
| 020 - 025 - 031 - 040  | 165,7      | 104,3 |
| 050 - 060              | 192,2      | 117,5 |
| 071 - 080 - 090 - 100  | 212,2      | 127,2 |

Multiples geared pumps, see data sheet F.T 30 1356

Seal kits:  
Nitrile: K5083019 + K5074043  
Viton: K5083020 + K5074044  
(For the manufacturings from february 1998)

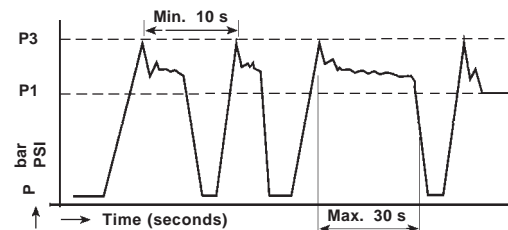
| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------|----------------------|----------------|------|----------------------|-----|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|       |                      | bar            | PSI  | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |                                       |                      |
|       |                      |                |      |                      |     |                   | l / min      | l / min       |  |                                       |                      |
| 3020  | 21,1                 | 275            | 3987 | 235                  | 235 | 3000              | 31,65        | 63,3          | 4  | 3,74                                  | 11,3                 |
| 3025  | 25,8                 | 275            | 3987 | 235                  | 235 | 3000              | 38,7         | 77,4          | 4,90   | 4,63                                  | 11,3                 |
| 3031  | 32,1                 | 275            | 3987 | 235                  | 235 | 3000              | 48,15        | 96,3          | 6,10   | 5,73                                  | 11,3                 |
| 3040  | 41,5                 | 275            | 3987 | 235                  | 235 | 3000              | 62,25        | 124,5         | 7,85   | 7,37                                  | 11,4                 |
| 3050  | 51,65                | 250            | 3625 | 215                  | 215 | 3000              | 77,47        | 154,9         | 9,77   | 9,21                                  | 12,6                 |
| 3060  | 62,6                 | 225            | 3262 | 190                  | 190 | 2500              | 93,9         | 156,5         | 11,85  | 11,05                                 | 12,7                 |
| 3071  | 73,55                | 225            | 3262 | 190                  | 190 | 2500              | 110,32       | 183,8         | 13,92  | 13,08                                 | 12,7                 |
| 3080  | 82,95                | 200            | 2900 | 170                  | 170 | 2200              | 124,42       | 182,4         | 15,59  | 14,60                                 | 12,8                 |
| 3090  | 92,95                | 150            | 2175 | 130                  | 130 | 2000              | 139,42       | 185,9         | 17,47  | 16,47                                 | 13,5                 |
| 3100  | 103,9                | 150            | 2175 | 130                  | 130 | 2000              | 155,85       | 207,8         | 19,40  | 18,17                                 | 13,7                 |

F.T 30 1414 1/4

P1 Maximum pressure in continuous duty.

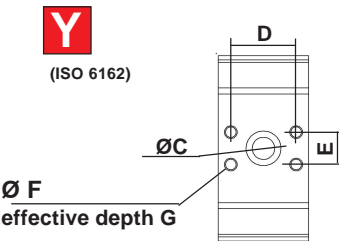
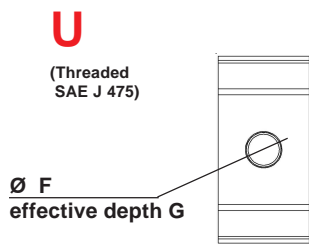
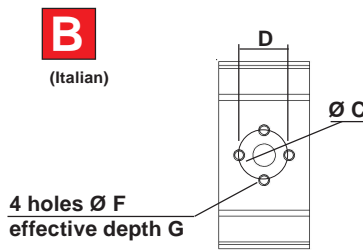
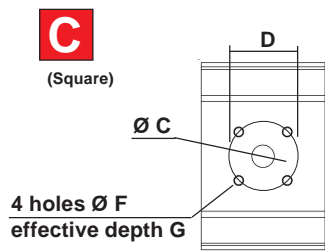
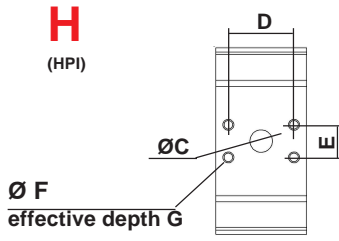
Maximum Pressure ⇒

P3 Allowable peack pressure.



CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

Dimensions readings and approximative characteristics subject to modifications.



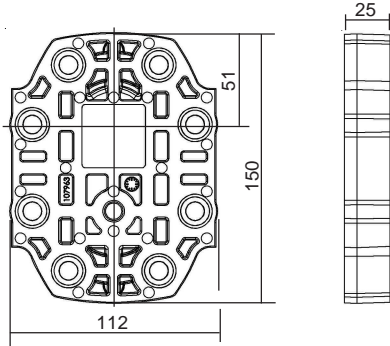
| Capacity     | INLET (T)                  |      |      |                 |    | OUTLET (P) |      |      |                 |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |  |   |
|--------------|----------------------------|------|------|-----------------|----|------------|------|------|-----------------|----|---|--|--|---|
|              | ØC                         | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G  | INLET (T)   |  | OUTLET (P)                                 |   |
|              |                            |      |      |                 |    |            |      |      |                 |    | 1" N: 3.500072<br>BSP V: 3.505060   | 3020 1/2" N: 3.500070<br>BSP V: 3.505058 | 3031 3/4" N: 3.500071<br>BSP V: 3.505060   | 3040 1" BSP<br>N: 3.500072<br>V: 3.505060 |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16 | 3071 1" 1/2 N: 3.500493<br>BSP V: 3.505067                                  | 3080 1" BSP V: 3.505060                  | 3090 1" 1/4 N: 3.500103<br>BSP V: 3.505061 | 3100 1" BSP V: 3.505061                   |
| 3050 3060    | 42                         | 35,6 | 69,8 | M8              | 16 | 22         | 52,4 | 26,2 | M8              | 16 |   |  |  |   |
| 3071 to 3100 | 42                         | 35,6 | 69,8 | M8              | 16 | 24         | 52,4 | 26,2 | M8              | 16 |   |  |  |   |
| 3020 to 3040 | 28                         | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17 |   |  |  |   |
| 3050 3060    |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |   |
| 3020 to 3040 | 27                         | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17 |   |  |  |   |
| 3050 3060    |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |   |
| 3020 to 3040 |                            |      |      | 1' 5/16 -12 UNF | 19 |            |      |      | 1' 1/16 -12 UNF | 19 |   |  |  |   |
| 3050 3060    |                            |      |      | 1' 5/8 -12 UNF  | 19 |            |      |      | 1' 5/16 -12 UNF | 19 |   |  |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |   |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17 |   |  |  |   |
| 3050 3060    | 42                         | 69,8 | 35,6 | M14             | 17 | 34         | 52,4 | 26,2 | M10             | 17 |   |  |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |   |
| 3020 to 3040 | Only with rear body Type A |      |      |                 |    |            |      |      |                 |    |   |  |  |   |
| 3050 3060    |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |   |

Consult us for availability

**REAR BODIES**

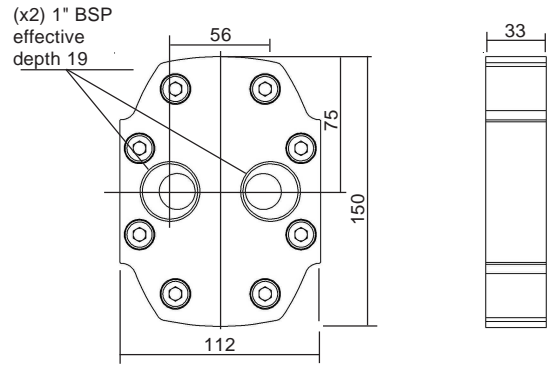
**L**

Standard



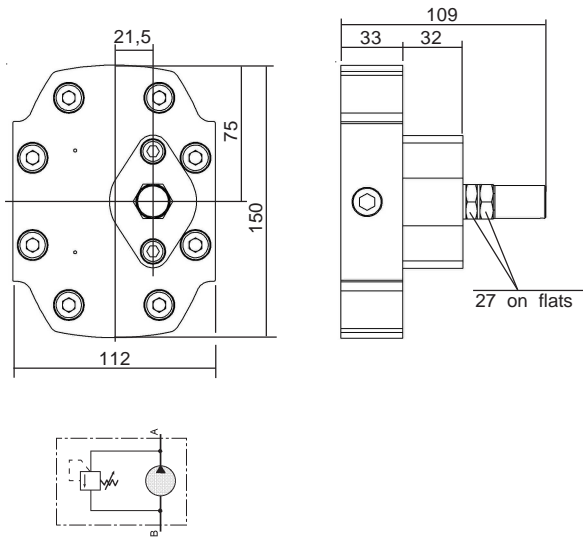
**A**

with ports



**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 30 1414 3/4**

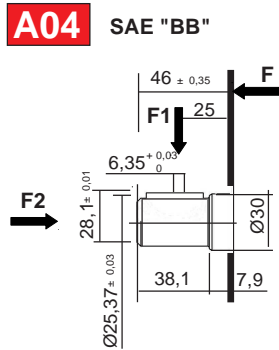
DRIVING SHAFTS

Tapered  
**10**

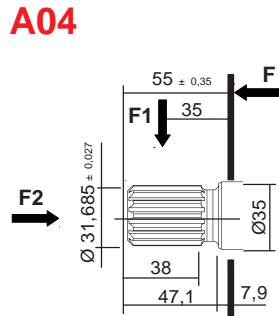
Straight keyed  
**20**

Splined  
**30**

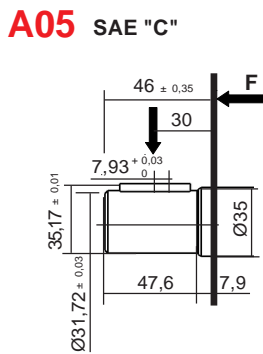
Tang  
**40**



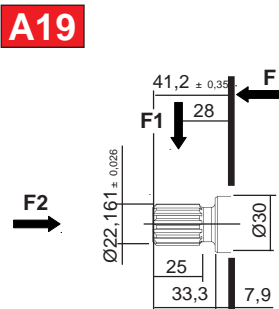
**A04** SAE "BB"  
  
F1 = 0 daN  
F2 = 50 daN  
Maxi transmissible torque  
**340 N.m**



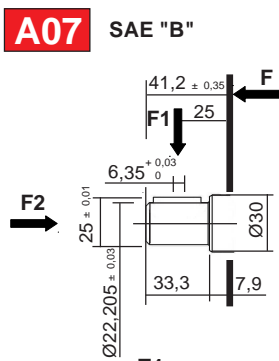
**A04**  
  
F1 = 0 daN  
F2 = 50 daN  
Maxi transmissible torque  
**500 N.m**  
  
Involute spline to SAE "C"  
14 teet - 1" 1/4-  
Diametral Pitch 16/32  
30° Pressure angle



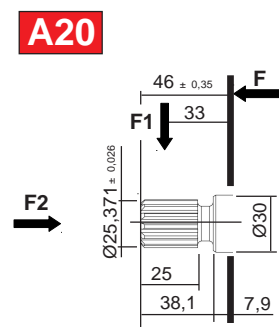
**A05** SAE "C"  
  
F1 = 0 daN  
F2 = 50 daN  
Maxi transmissible torque  
**430 N.m**



**A19**  
  
F1 = 0 daN  
F2 = 50 daN  
Maxi transmissible torque  
**310 N.m**  
  
Involute spline to SAE "B"  
13 teeth - 7/8"  
Diametral Pitch 16/32  
30° Pressure angle



**A07** SAE "B"  
  
F1 = 0 daN  
F2 = 50 daN  
Maxi transmissible torque  
**290 N.m**



**A20**  
  
F1 = 0 daN  
F2 = 50 daN  
Maxi transmissible torque  
**490 N.m**  
  
Involute spline to SAE "BB"  
15 teeth - 1"  
Diametral Pitch 16/32  
30° Pressure angle

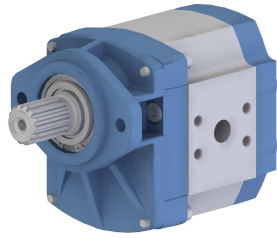
Dimensions readings and approximative characteristics subject to modifications.

**F.T 30 1414 4/4**



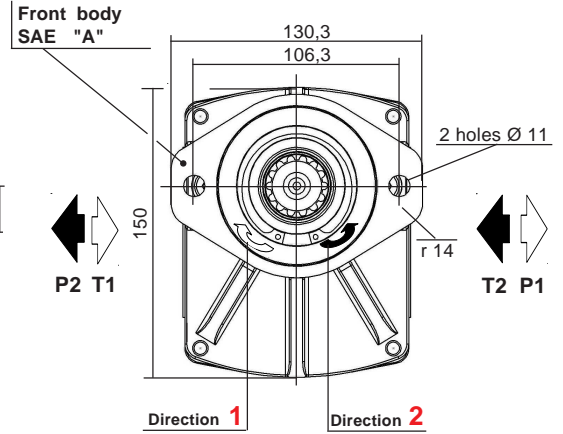
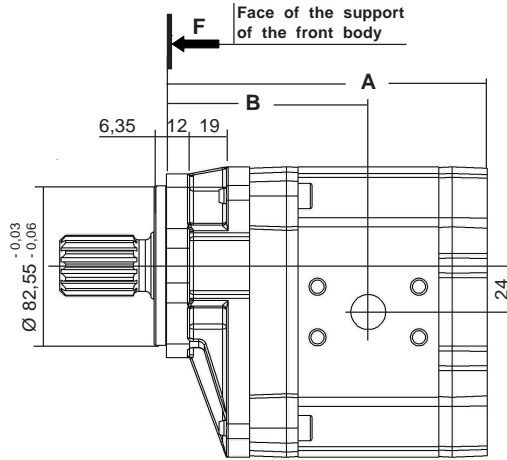
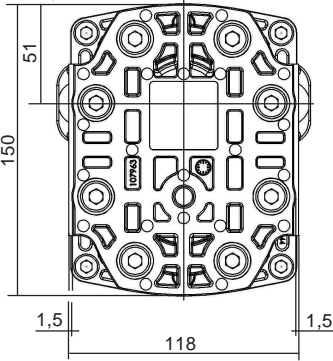
Consult us for availability





**P** II Sign **AB P 3** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |       |
|------------------------|------------|-------|
|                        | A          | B     |
| 020 - 025 - 031 - 040  | 165,7      | 104,3 |
| 050 - 060              | 192,2      | 117,5 |
| 071 - 080 - 090 - 100  | 212,2      | 127,2 |

Multiples geared pumps, see data sheet **F.T 30 1356**

Seal kits:

Nitrile: **K5083019 + K5074043**

Viton: **K5083020 + K5074044**

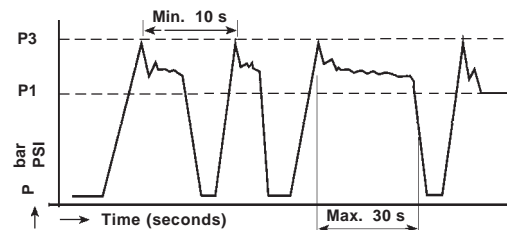
(For the manufacturings from february 1998)

| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|-----|-------------------|--------------|---------------|--|---------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |                                 |                      |
|             |                      |                |      |                      |     |                   | l / min      | l / min       |  |                                 |                      |
| <b>3020</b> | 21,1                 | 275            | 3987 | 235                  | 235 | 3000              | 31,65        | 63,3          | 4  | 3,74                            | 11,3                 |
| <b>3025</b> | 25,8                 | 275            | 3987 | 235                  | 235 | 3000              | 38,7         | 77,4          | 4,90   | 4,63                            | 11,3                 |
| <b>3031</b> | 32,1                 | 275            | 3987 | 235                  | 235 | 3000              | 48,15        | 96,3          | 6,10   | 5,73                            | 11,3                 |
| <b>3040</b> | 41,5                 | 275            | 3987 | 235                  | 235 | 3000              | 62,25        | 124,5         | 7,85   | 7,37                            | 11,4                 |
| <b>3050</b> | 51,65                | 250            | 3625 | 215                  | 215 | 3000              | 77,47        | 154,9         | 9,77   | 9,21                            | 12,6                 |
| <b>3060</b> | 62,6                 | 225            | 3262 | 190                  | 190 | 2500              | 93,9         | 156,5         | 11,85  | 11,05                           | 12,7                 |
| <b>3071</b> | 73,55                | 225            | 3262 | 190                  | 190 | 2500              | 110,32       | 183,8         | 13,92  | 13,08                           | 12,7                 |
| <b>3080</b> | 82,95                | 200            | 2900 | 170                  | 170 | 2200              | 124,42       | 182,4         | 15,59  | 14,60                           | 12,8                 |
| <b>3090</b> | 92,95                | 150            | 2175 | 130                  | 130 | 2000              | 139,42       | 185,9         | 17,47  | 16,47                           | 13,5                 |
| <b>3100</b> | 103,9                | 150            | 2175 | 130                  | 130 | 2000              | 155,85       | 207,8         | 19,40  | 18,17                           | 13,7                 |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇨

P3 Allowable peack pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

|   | Capacity   | INLET (T)                  |      |      |                 |    | OUTLET (P) |      |      |                 |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |  |  |
|---|--|----------------------------|------|------|-----------------|----|------------|------|------|-----------------|----|---|--|--|--|
|   |  | ØC                         | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G  | INLET (T)   |  | OUTLET (P)                                 |  |
|   |  |                            |      |      |                 |    |            |      |      |                 |    | 1" N: 3.500072<br>BSP V: 3.505060   | 3020 1/2" N: 3.500070<br>BSP V: 3.505058   | 3031 3/4" N: 3.500071<br>BSP V: 3.505060   | 3040 1" BSP<br>N: 3.500072<br>V: 3.505060  |
| <p><b>H</b><br/>(HPI)</p> <p>Ø F<br/>effective depth G</p>                | <p>3020 to 3040</p> <p>3050 3060</p> <p>3071 to 3100</p> | 28                         | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16 | 3071 1" 1/2 N: 3.500493<br>BSP V: 3.505067                                  | 3080 1" 1/2 N: 3.500493<br>BSP V: 3.505067 | 3090 1" 1/4 N: 3.500103<br>BSP V: 3.505061 | 3100 1" 1/4 N: 3.500103<br>BSP V: 3.505061 |
| <p><b>C</b><br/>(Square)</p> <p>4 holes Ø F<br/>effective depth G</p>     | <p>3020 to 3040</p> <p>3050 3060</p> <p>3071 to 3100</p> | 28                         | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17 |   |  |  |  |
| <p><b>B</b><br/>(Italian)</p> <p>4 holes Ø F<br/>effective depth G</p>    | <p>3020 to 3040</p> <p>3050 3060</p> <p>3071 to 3100</p> | 27                         | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17 |   |  |  |  |
| <p><b>U</b><br/>(Threaded SAE J 475)</p> <p>Ø F<br/>effective depth G</p> | <p>3020 to 3040</p> <p>3050 3060</p> <p>3071 to 3100</p> |                            |      |      | 1" 5/16 -12 UNF | 19 |            |      |      | 1" 1/16 -12 UNF | 19 |   |  |  |  |
| <p><b>Y</b><br/>(ISO 6162)</p> <p>Ø F<br/>effective depth G</p>           | <p>3020 to 3040</p> <p>3050 3060</p> <p>3071 to 3100</p> | 28                         | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17 |   |  |  |  |
| <p><b>X</b><br/>(without port)</p>  | <p>3020 to 3040</p> <p>3050 3060</p> <p>3071 to 3100</p> | Only with rear body Type A |      |      |                 |    |            |      |      |                 |    |   |  |  |  |

Dimensions readings and approximative characteristics subject to modifications.

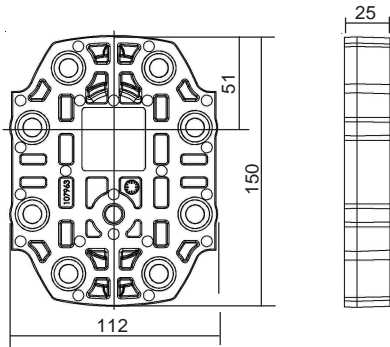
F.T 30 11375 2/4



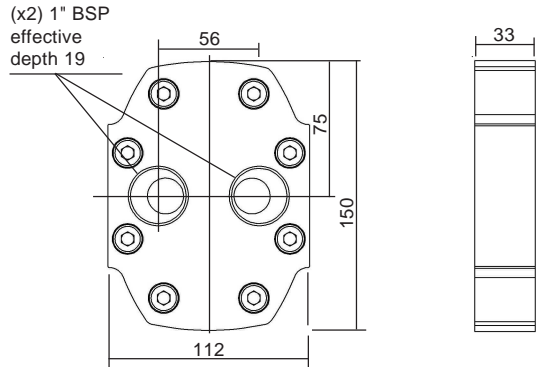
Consult us for availability

**REAR BODIES**

**L**  
Standard

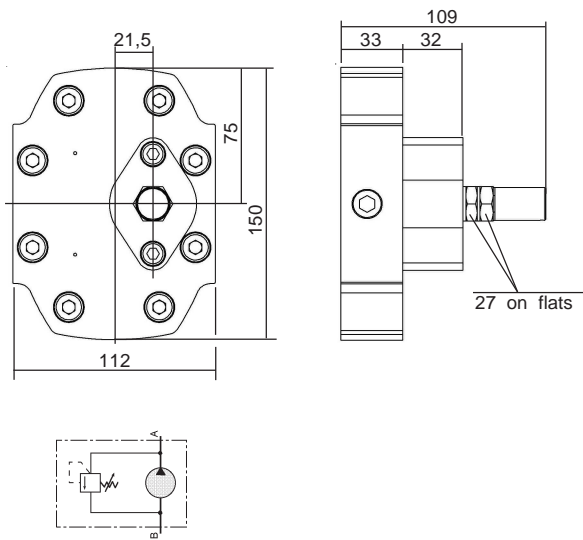


**A**  
with ports



**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 30 1375 3/4**



Consult us for availability

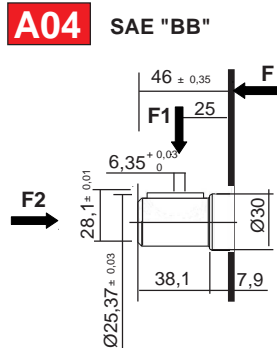
DRIVING SHAFTS

Tapered  
10

Straight keyed  
20

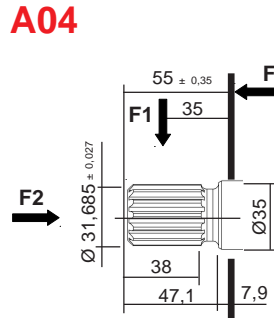
Splined  
30

Tang  
40



F1 = 140 daN  
F2 = 50 daN

Maxi transmissible torque  
340 N.m

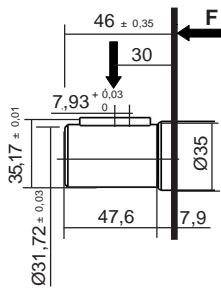


F1 = 120 daN  
F2 = 50 daN

Involute spline to SAE "C"  
14 teet - 1" 1/4-  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
500 N.m

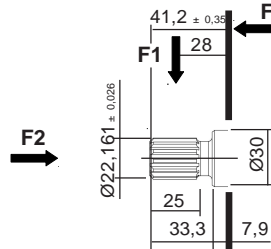
A05 SAE "C"



F1 = 140 daN  
F2 = 50 daN

Maxi transmissible torque  
430 N.m

A19

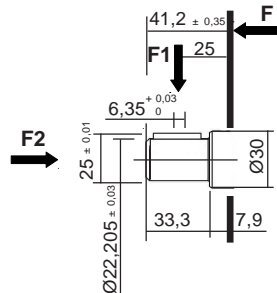


F1 = 120 daN  
F2 = 50 daN

Involute spline to SAE "B"  
13 teeth - 7/8"  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
310 N.m

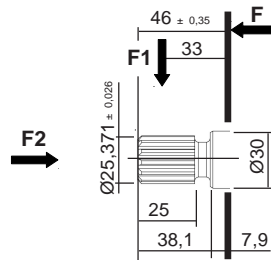
A07 SAE "B"



F1 = 140 daN  
F2 = 50 daN

Maxi transmissible torque  
290 N.m

A20



F1 = 120 daN  
F2 = 50 daN

Involute spline to SAE "BB"  
15 teeth - 1"  
Diametral Pitch 16/32  
30° Pressure angle

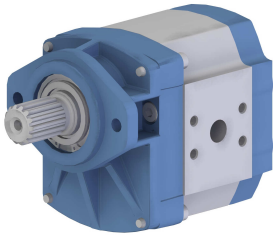
Maxi transmissible torque  
490 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1375 4/4

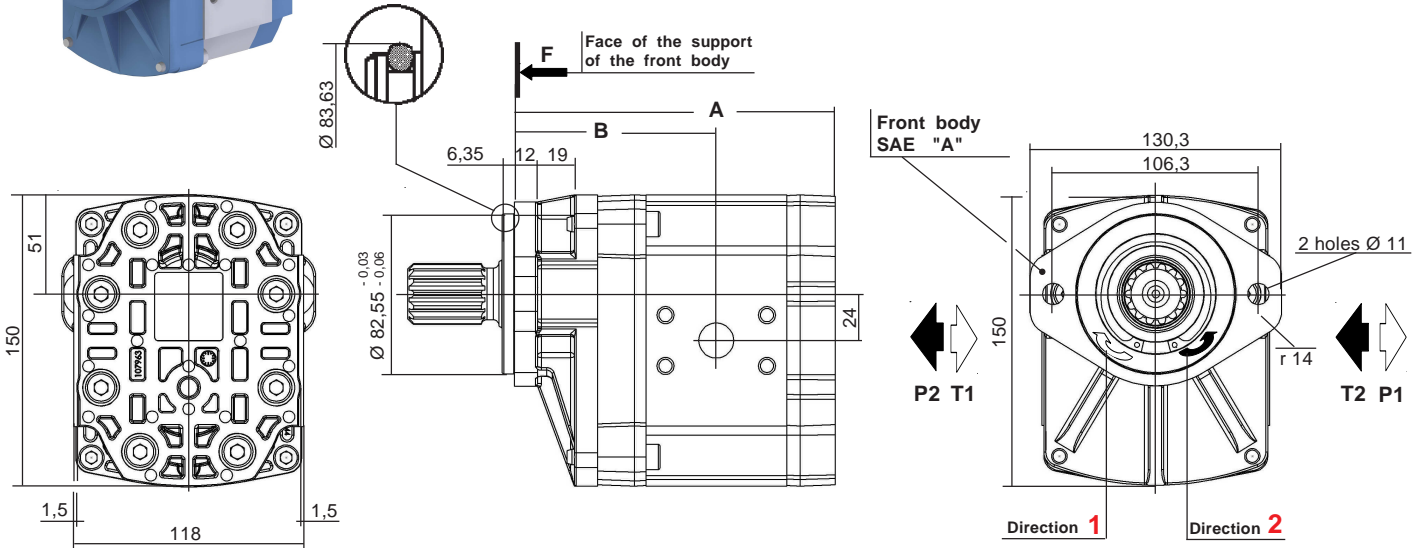


Consult us for availability



**P** II Sign **ABR** 3 VI Sign **HL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |       |
|------------------------|------------|-------|
|                        | A          | B     |
| 020 - 025 - 031 - 040  | 165,7      | 104,3 |
| 050 - 060              | 192,2      | 117,5 |
| 071 - 080 - 090 - 100  | 212,2      | 127,2 |

Multiples geared pumps, see data sheet **F.T 30 1356**

Seal kits:  
Nitrile: **K5083019+ K5074043 + K102901**  
Viton: **K5083020 + K5074044 + K104093**  
(For the manufacturings from february 1998)

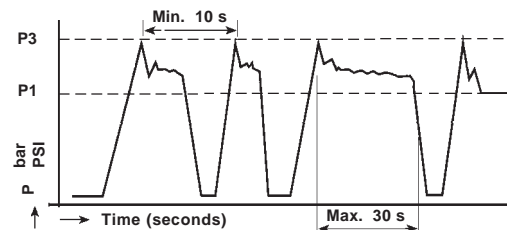
| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|-----|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |                                       |                      |
|             |                      |                |      |                      |     |                   | l / min      | l / min       |  |                                       |                      |
| <b>3020</b> | 21,1                 | 275            | 3987 | 235                  | 235 | 3000              | 31,65        | 63,3          | 4  | 3,74                                  | 11,3                 |
| <b>3025</b> | 25,8                 | 275            | 3987 | 235                  | 235 | 3000              | 38,7         | 77,4          | 4,90   | 4,63                                  | 11,3                 |
| <b>3031</b> | 32,1                 | 275            | 3987 | 235                  | 235 | 3000              | 48,15        | 96,3          | 6,10   | 5,73                                  | 11,3                 |
| <b>3040</b> | 41,5                 | 275            | 3987 | 235                  | 235 | 3000              | 62,25        | 124,5         | 7,85   | 7,37                                  | 11,4                 |
| <b>3050</b> | 51,65                | 250            | 3625 | 215                  | 215 | 3000              | 77,47        | 154,9         | 9,77   | 9,21                                  | 12,6                 |
| <b>3060</b> | 62,6                 | 225            | 3262 | 190                  | 190 | 2500              | 93,9         | 156,5         | 11,85  | 11,05                                 | 12,7                 |
| <b>3071</b> | 73,55                | 225            | 3262 | 190                  | 190 | 2500              | 110,32       | 183,8         | 13,92  | 13,08                                 | 12,7                 |
| <b>3080</b> | 82,95                | 200            | 2900 | 170                  | 170 | 2200              | 124,42       | 182,4         | 15,59  | 14,60                                 | 12,8                 |
| <b>3090</b> | 92,95                | 150            | 2175 | 130                  | 130 | 2000              | 139,42       | 185,9         | 17,47  | 16,47                                 | 13,5                 |
| <b>3100</b> | 103,9                | 150            | 2175 | 130                  | 130 | 2000              | 155,85       | 207,8         | 19,40  | 18,17                                 | 13,7                 |

F.T 30 1376 1/4

P1 Maximum pressure in continuous duty.

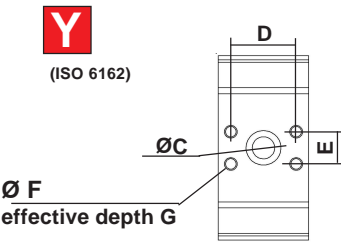
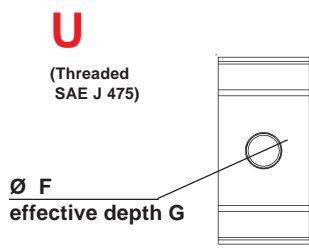
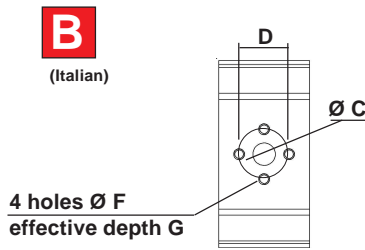
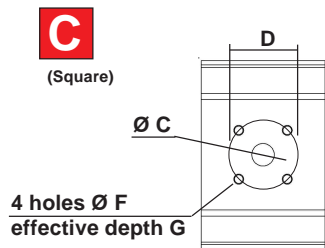
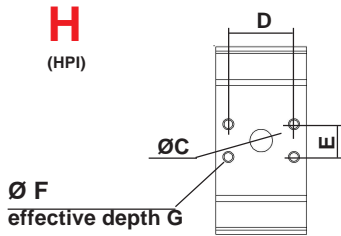
Maximum Pressure ⇒

P3 Allowable peack pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                 |    | OUTLET (P) |      |      |                 |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |   |  |   |
|--------------|----------------------------|------|------|-----------------|----|------------|------|------|-----------------|----|---|---|--|---|
|              | ØC                         | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G  | INLET (T)   |   | OUTLET (P)                                 |   |
|              |                            |      |      |                 |    |            |      |      |                 |    | 1" N: 3.500072<br>BSP V: 3.505060   | 3020 1/2" N: 3.500070<br>BSP V: 3.505058  | 3031 3/4" N: 3.500071<br>BSP V: 3.505060   | 3040 1" BSP<br>N: 3.500072<br>V: 3.505060 |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16 | 3071 1" 1/2 N: 3.500493<br>BSP V: 3.505067                                  | 3080 1" BSP<br>N: 3.500072<br>V: 3.505060 | 3090 1" 1/4 N: 3.500103<br>BSP V: 3.505061 | 3100 1" BSP<br>N: 3.500072<br>V: 3.505060 |
| 3050 to 3060 | 42                         | 35,6 | 69,8 | M8              | 16 | 22         | 52,4 | 26,2 | M8              | 16 |   |   |  |   |
| 3071 to 3100 | 42                         | 35,6 | 69,8 | M8              | 16 | 24         | 52,4 | 26,2 | M8              | 16 |   |   |  |   |
| 3020 to 3040 | 28                         | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17 |   |   |  |   |
| 3050 to 3060 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3020 to 3040 | 27                         | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17 |   |   |  |   |
| 3050 to 3060 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3020 to 3040 |                            |      |      | 1' 5/16 -12 UNF | 19 |            |      |      | 1' 1/16 -12 UNF | 19 |   |   |  |   |
| 3050 to 3060 |                            |      |      | 1' 5/8 -12 UNF  | 19 |            |      |      | 1' 5/16 -12 UNF | 19 |   |   |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17 |   |   |  |   |
| 3050 to 3060 | 42                         | 69,8 | 35,6 | M14             | 17 | 34         | 52,4 | 26,2 | M10             | 17 |   |   |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3020 to 3040 | Only with rear body Type A |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3050 to 3060 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |

Dimensions readings and approximative characteristics subject to modifications.

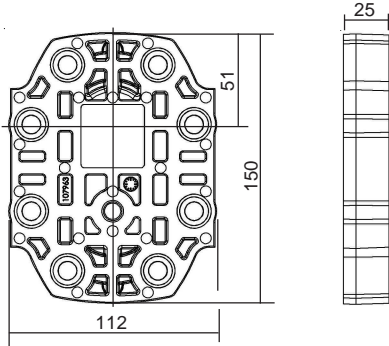
F.T 30 11376 2/4

Consult us for availability

REAR BODIES

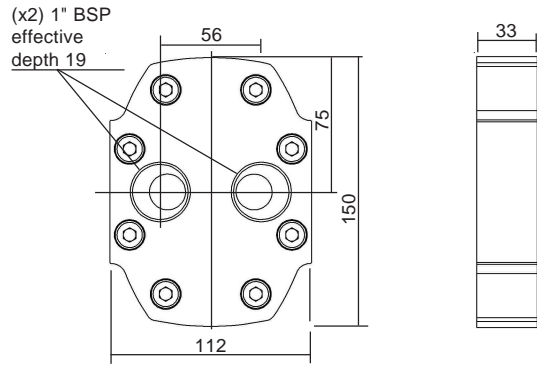
**L**

Standard



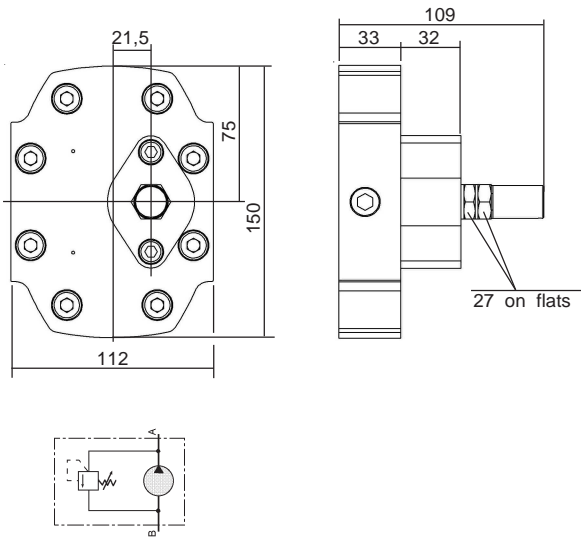
**A**

with ports



**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1376 3/4



Consult us for availability

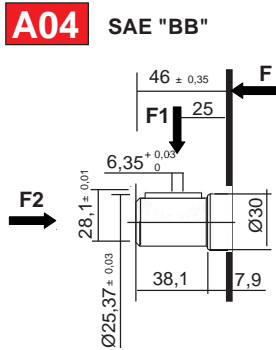
DRIVING SHAFTS

Tapered  
10

Straight keyed  
20

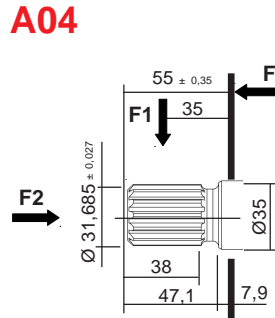
Splined  
30

Tang  
40



F1 = 140 daN  
F2 = 50 daN

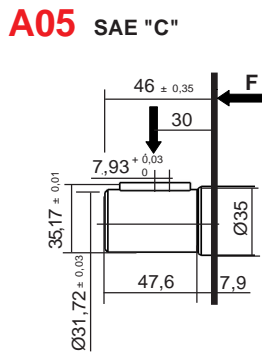
Maxi transmissible torque  
340 N.m



F1 = 120 daN  
F2 = 50 daN

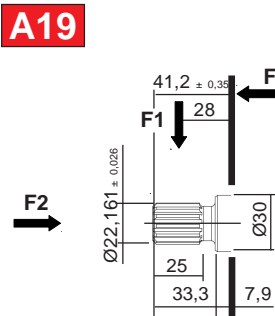
Involute spline to SAE "C"  
14 teet - 1" 1/4-  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
500 N.m



F1 = 140 daN  
F2 = 50 daN

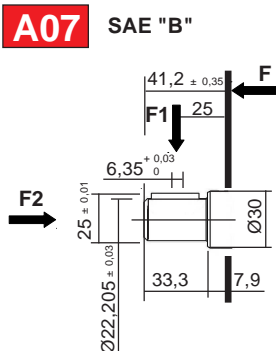
Maxi transmissible torque  
430 N.m



F1 = 120 daN  
F2 = 50 daN

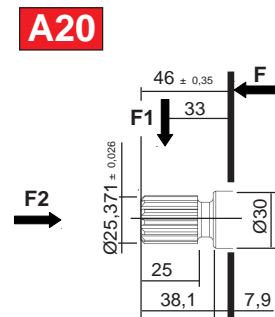
Involute spline to SAE "B"  
13 teeth - 7/8"  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
310 N.m



F1 = 140 daN  
F2 = 50 daN

Maxi transmissible torque  
290 N.m



F1 = 120 daN  
F2 = 50 daN

Involute spline to SAE "BB"  
15 teeth - 1"  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
490 N.m

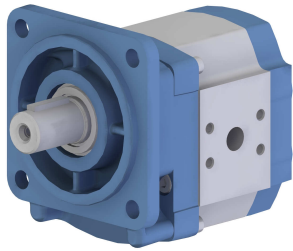
Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1376 4/4



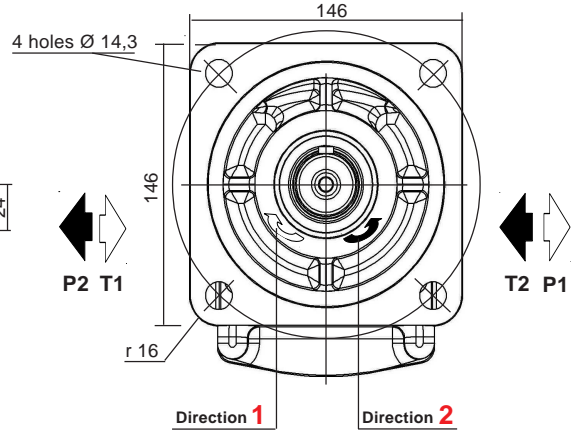
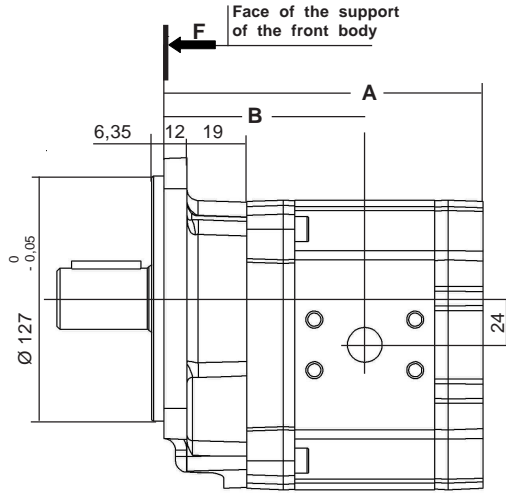
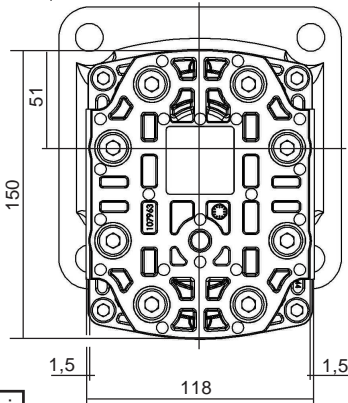
Consult us for availability





**P** II Sign **AD P 3** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity       | Dimensions |       |
|------------------------------|------------|-------|
|                              | A          | B     |
| <b>020 - 025 - 031 - 040</b> | 165,7      | 104,3 |
| <b>050 - 060</b>             | 192,2      | 117,5 |
| <b>071 - 080 - 090 - 100</b> | 212,2      | 127,2 |

Multiples geared pumps, see data sheet **F.T 30 1356**

Seal kits:  
Nitrile: **K5083019 + K5074043**  
Viton: **K5083020 + K5074044**  
(For the manufacturings from february 1998)

| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |     | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------|----------------------|----------------|-----|----------------------|-----|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|       |                      | bar            | PSI | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |                                       |                      |
|       |                      |                |     |                      |     |                   | l / min      | l / min       |  |                                       |                      |

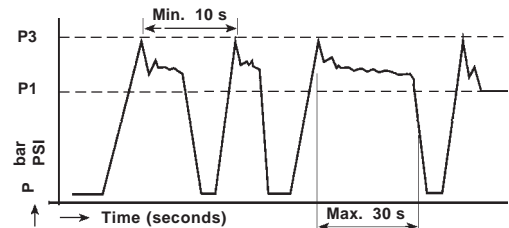
|             |       |     |      |     |     |      |        |       |       |       |      |
|-------------|-------|-----|------|-----|-----|------|--------|-------|-------|-------|------|
| <b>3020</b> | 21,1  | 275 | 3987 | 235 | 235 | 3000 | 31,65  | 63,3  | 4     | 3,74  | 11,3 |
| <b>3025</b> | 25,8  | 275 | 3987 | 235 | 235 | 3000 | 38,7   | 77,4  | 4,90  | 4,63  | 11,3 |
| <b>3031</b> | 32,1  | 275 | 3987 | 235 | 235 | 3000 | 48,15  | 96,3  | 6,10  | 5,73  | 11,3 |
| <b>3040</b> | 41,5  | 275 | 3987 | 235 | 235 | 3000 | 62,25  | 124,5 | 7,85  | 7,37  | 11,4 |
| <b>3050</b> | 51,65 | 250 | 3625 | 215 | 215 | 3000 | 77,47  | 154,9 | 9,77  | 9,21  | 12,6 |
| <b>3060</b> | 62,6  | 225 | 3262 | 190 | 190 | 2500 | 93,9   | 156,5 | 11,85 | 11,05 | 12,7 |
| <b>3071</b> | 73,55 | 225 | 3262 | 190 | 190 | 2500 | 110,32 | 183,8 | 13,92 | 13,08 | 12,7 |
| <b>3080</b> | 82,95 | 200 | 2900 | 170 | 170 | 2200 | 124,42 | 182,4 | 15,59 | 14,60 | 12,8 |
| <b>3090</b> | 92,95 | 150 | 2175 | 130 | 130 | 2000 | 139,42 | 185,9 | 17,47 | 16,47 | 13,5 |
| <b>3100</b> | 103,9 | 150 | 2175 | 130 | 130 | 2000 | 155,85 | 207,8 | 19,40 | 18,17 | 13,7 |

**F.T 30 1371 1/4**

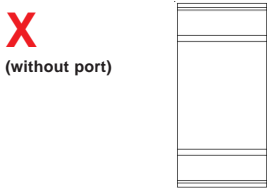
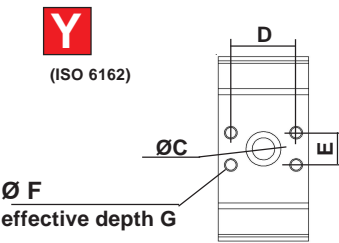
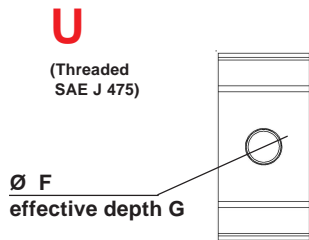
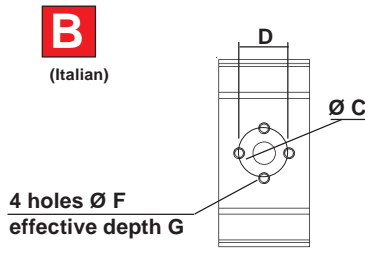
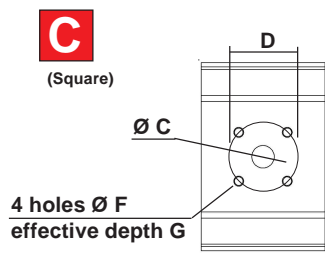
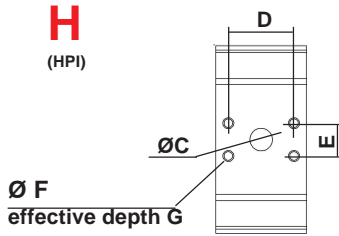
P1 Maximum pressure in continuous duty.  
 $P1 = 0,75 \times P3$

Maximum Pressure  $\Rightarrow$

P3 Allowable peak pressure.



CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T) |      |      |                          |    | OUTLET (P) |      |      |                          |    | CATALOGUE ° 70  |                                       |                                      |                                     |            |                                       |      |                                       |
|--------------|-----------|------|------|--------------------------|----|------------|------|------|--------------------------|----|---|---------------------------------------|--------------------------------------|-------------------------------------|------------|---------------------------------------|------|---------------------------------------|
|              | ØC        | D    | E    | ØF                       | G  | ØC         | D    | E    | ØF                       | G  | Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |                                       | INLET (T)                            |                                     | OUTLET (P) |                                       |      |                                       |
|              |           |      |      |                          |    |            |      |      |                          |    | INLET (T)   |                                       | OUTLET (P)                           |                                     |            |                                       |      |                                       |
| 3020 to 3040 | 28        | 52,4 | 26,2 | M8                       | 16 | 18         | 52,4 | 26,2 | M8                       | 16 | 3020  | 1" N: 3.500072<br>BSP V: 3.505060     | 3025                                 | 1/2" N: 3.500070<br>BSP V: 3.505058 | 3030       | 1" N: 3.500071<br>BSP V: 3.505061     | 3035 | 3/4" N: 3.500071<br>BSP V: 3.505060   |
| 3050 3060    | 42        | 35,6 | 69,8 | M8                       | 16 | 22         | 52,4 | 26,2 | M8                       | 16 | 1" 1/4 BSP<br>N: 3.500492<br>V: 3.505066                  |                                       | 1" BSP<br>N: 3.500072<br>V: 3.505060 |                                     |            |                                       |      |                                       |
| 3071 to 3100 | 42        | 35,6 | 69,8 | M8                       | 16 | 24         | 52,4 | 26,2 | M8                       | 16 | 3071  | 1" 1/2 N: 3.500493<br>BSP V: 3.505067 | 3080                                 | 1" N: 3.500072<br>BSP V: 3.505060   | 3090       | 1" 1/2 N: 3.500493<br>BSP V: 3.505067 | 3095 | 1" 1/4 N: 3.500103<br>BSP V: 3.505061 |
| 3020 to 3040 | 28        | 55   |      | M8                       | 17 | 18         | 55   |      | M8                       | 17 |   |                                       |                                      |                                     |            |                                       |      |                                       |
| 3050 3060    |           |      |      |                          |    |            |      |      |                          |    |   |                                       |                                      |                                     |            |                                       |      |                                       |
| 3071 to 3100 |           |      |      |                          |    |            |      |      |                          |    |   |                                       |                                      |                                     |            |                                       |      |                                       |
| 3020 to 3040 | 27        | 51   |      | M10                      | 17 | 18         | 40   |      | M8                       | 17 |   |                                       |                                      |                                     |            |                                       |      |                                       |
| 3050 3060    |           |      |      |                          |    |            |      |      |                          |    |   |                                       |                                      |                                     |            |                                       |      |                                       |
| 3071 to 3100 |           |      |      |                          |    |            |      |      |                          |    |   |                                       |                                      |                                     |            |                                       |      |                                       |
| 3020 to 3040 |           |      |      | 1'<br>5/16<br>-12<br>UNF | 19 |            |      |      | 1'<br>1/16<br>-12<br>UNF | 19 |   |                                       |                                      |                                     |            |                                       |      |                                       |
| 3050 3060    |           |      |      | 1'<br>5/8<br>-12<br>UNF  | 19 |            |      |      | 1'<br>5/16<br>-12<br>UNF | 19 |   |                                       |                                      |                                     |            |                                       |      |                                       |
| 3071 to 3100 |           |      |      |                          |    |            |      |      |                          |    |   |                                       |                                      |                                     |            |                                       |      |                                       |
| 3020 to 3040 | 28        | 52,4 | 26,2 | M10                      | 17 | 18         | 52,4 | 26,2 | M10                      | 17 |   |                                       |                                      |                                     |            |                                       |      |                                       |
| 3050 3060    | 42        | 69,8 | 35,6 | M14                      | 17 | 34         | 52,4 | 26,2 | M10                      | 17 |   |                                       |                                      |                                     |            |                                       |      |                                       |
| 3071 to 3100 |           |      |      |                          |    |            |      |      |                          |    |   |                                       |                                      |                                     |            |                                       |      |                                       |
| 3020 to 3040 |           |      |      |                          |    |            |      |      |                          |    | Only with rear body Type A                                |                                       |                                      |                                     |            |                                       |      |                                       |
| 3050 3060    |           |      |      |                          |    |            |      |      |                          |    |   |                                       |                                      |                                     |            |                                       |      |                                       |
| 3071 to 3100 |           |      |      |                          |    |            |      |      |                          |    |   |                                       |                                      |                                     |            |                                       |      |                                       |

Dimensions readings and approximative characteristics subject to modifications.

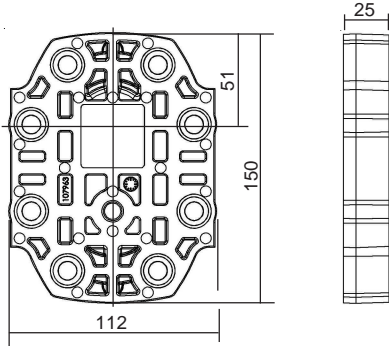
F.T. 30 11371 2/4

  Consult us for availability

**REAR BODIES**

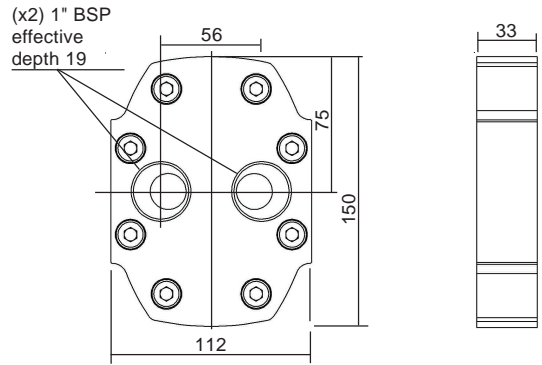
**L**

Standard



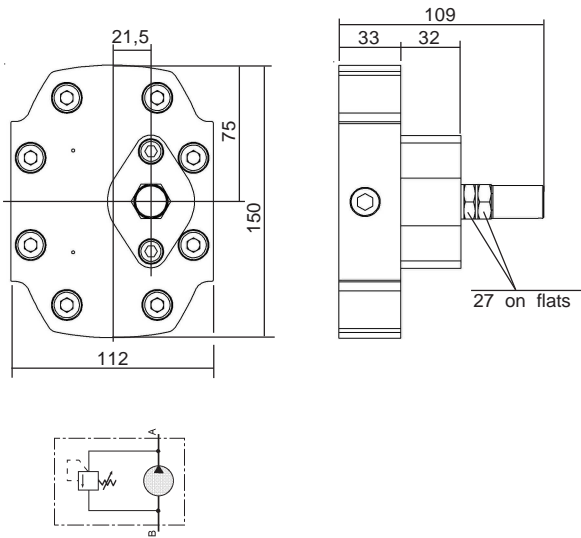
**A**

with ports



**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 30 1371 3/4**

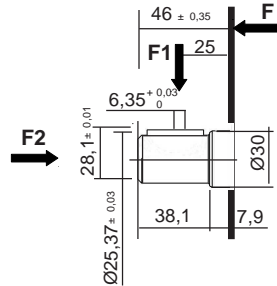
DRIVING SHAFTS

10

Straight keyed

20

**A04** SAE "BB"



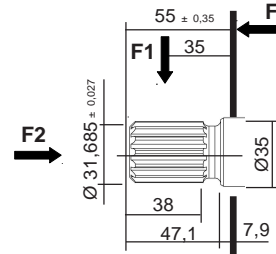
F1 = 140 daN  
F2 = 50 daN

Maxi transmissible torque  
**340 N.m**

Splined

30

**A04**



F1 = 120 daN  
F2 = 50 daN

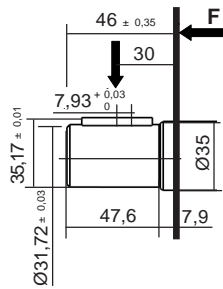
Involute spline to SAE "C"  
14 teet - 1" 1/4-  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
**500 N.m**

Tang

40

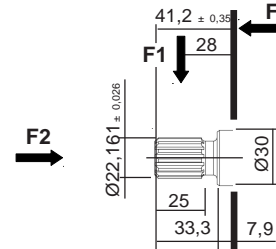
**A05** SAE "C"



F1 = 140 daN  
F2 = 50 daN

Maxi transmissible torque  
**430 N.m**

**A19**

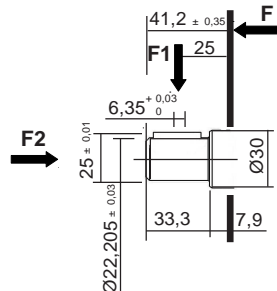


F1 = 120 daN  
F2 = 50 daN

Involute spline to SAE "B"  
13 teeth - 7/8"  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
**310 N.m**

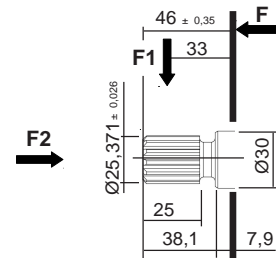
**A07** SAE "B"



F1 = 140 daN  
F2 = 50 daN

Maxi transmissible torque  
**290 N.m**

**A20**



F1 = 120 daN  
F2 = 50 daN

Involute spline to SAE "BB"  
15 teeth - 1"  
Diametral Pitch 16/32  
30° Pressure angle

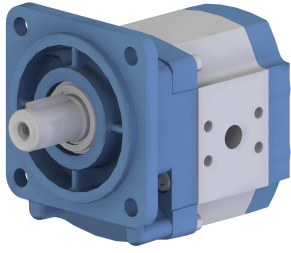
Maxi transmissible torque  
**490 N.m**

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1371 4/4

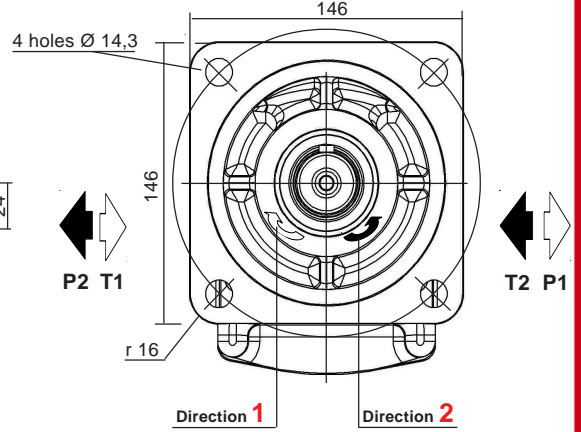
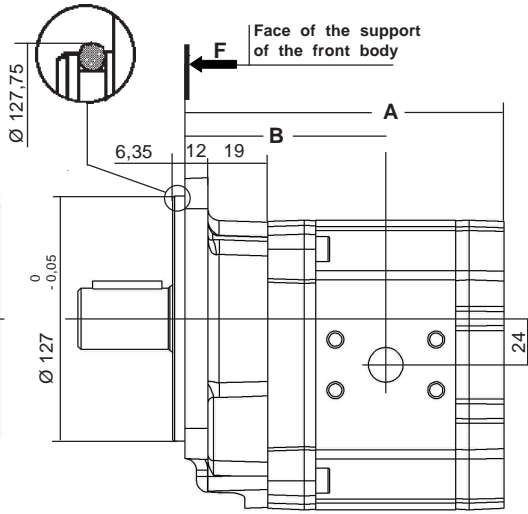
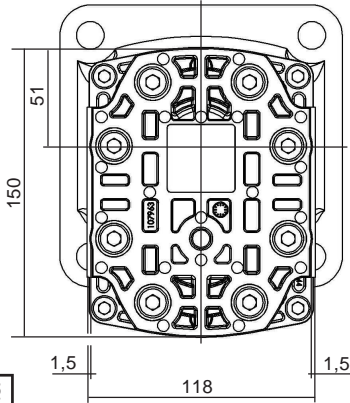


Consult us for availability



**P** II Sign **ADR 3** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |       |
|------------------------|------------|-------|
|                        | A          | B     |
| 020 - 025 - 031 - 040  | 165,7      | 104,3 |
| 050 - 060              | 192,2      | 117,5 |
| 071 - 080 - 090 - 100  | 212,2      | 127,2 |

Multiples geared pumps, see data sheet **F.T 30 1356**

Seal kits:  
Nitrile: **K5083019 + K5074043 + K107089**  
Viton: **K5083020 + K5074043 + K107090**  
(For the manufacturings from february 1998)

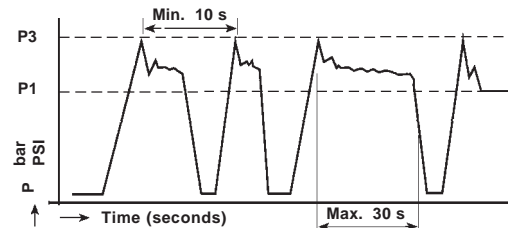
| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|-----|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |                                       |                      |
|             |                      |                |      |                      |     |                   | l / min      | l / min       |  |                                       |                      |
| <b>3020</b> | 21,1                 | 275            | 3987 | 235                  | 235 | 3000              | 31,65        | 63,3          | 4  | 3,74                                  | 11,3                 |
| <b>3025</b> | 25,8                 | 275            | 3987 | 235                  | 235 | 3000              | 38,7         | 77,4          | 4,90   | 4,63                                  | 11,3                 |
| <b>3031</b> | 32,1                 | 275            | 3987 | 235                  | 235 | 3000              | 48,15        | 96,3          | 6,10   | 5,73                                  | 11,3                 |
| <b>3040</b> | 41,5                 | 275            | 3987 | 235                  | 235 | 3000              | 62,25        | 124,5         | 7,85   | 7,37                                  | 11,4                 |
| <b>3050</b> | 51,65                | 250            | 3625 | 215                  | 215 | 3000              | 77,47        | 154,9         | 9,77   | 9,21                                  | 12,6                 |
| <b>3060</b> | 62,6                 | 225            | 3262 | 190                  | 190 | 2500              | 93,9         | 156,5         | 11,85  | 11,05                                 | 12,7                 |
| <b>3071</b> | 73,55                | 225            | 3262 | 190                  | 190 | 2500              | 110,32       | 183,8         | 13,92  | 13,08                                 | 12,7                 |
| <b>3080</b> | 82,95                | 200            | 2900 | 170                  | 170 | 2200              | 124,42       | 182,4         | 15,59  | 14,60                                 | 12,8                 |
| <b>3090</b> | 92,95                | 150            | 2175 | 130                  | 130 | 2000              | 139,42       | 185,9         | 17,47  | 16,47                                 | 13,5                 |
| <b>3100</b> | 103,9                | 150            | 2175 | 130                  | 130 | 2000              | 155,85       | 207,8         | 19,40  | 18,17                                 | 13,7                 |

F.T 30 1374 1/4

P1 Maximum pressure in continuous duty.

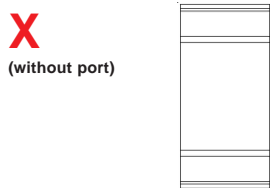
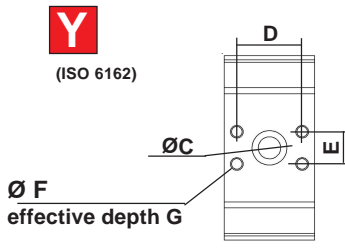
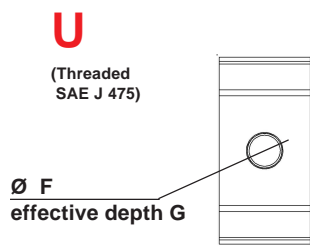
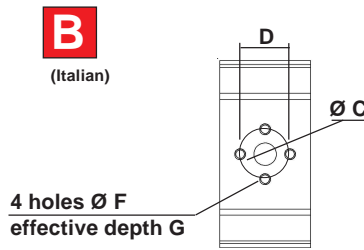
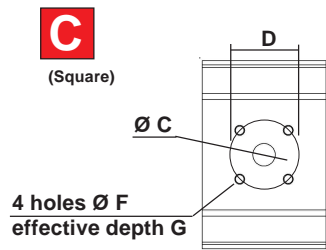
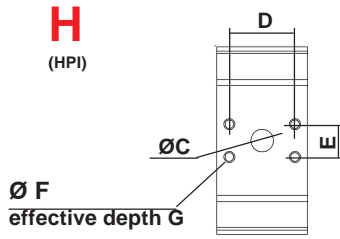
Maximum Pressure ⇒

P3 Allowable peack pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)                  |      |      |                 |    | OUTLET (P) |      |      |                 |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |   |  |   |
|--------------|----------------------------|------|------|-----------------|----|------------|------|------|-----------------|----|---|---|--|---|
|              | ØC                         | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G  | INLET (T)   |   | OUTLET (P)                                 |   |
|              |                            |      |      |                 |    |            |      |      |                 |    | 1" N: 3.500072<br>BSP V: 3.505060   | 3020 1/2" N: 3.500070<br>BSP V: 3.505058  | 3031 3/4" N: 3.500071<br>BSP V: 3.505060   | 3040 1" BSP<br>N: 3.500072<br>V: 3.505060 |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16 | 3071 1" 1/2 N: 3.500493<br>BSP V: 3.505067                                  | 3080 1" BSP<br>N: 3.500072<br>V: 3.505060 | 3090 1" 1/4 N: 3.500103<br>BSP V: 3.505061 | 3100 1" BSP<br>N: 3.500072<br>V: 3.505060 |
| 3050 to 3060 | 42                         | 35,6 | 69,8 | M8              | 16 | 22         | 52,4 | 26,2 | M8              | 16 |   |   |  |   |
| 3071 to 3100 | 42                         | 35,6 | 69,8 | M8              | 16 | 24         | 52,4 | 26,2 | M8              | 16 |   |   |  |   |
| 3020 to 3040 | 28                         | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17 |   |   |  |   |
| 3050 to 3060 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3020 to 3040 | 27                         | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17 |   |   |  |   |
| 3050 to 3060 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3020 to 3040 |                            |      |      | 1' 5/16 -12 UNF | 19 |            |      |      | 1' 1/16 -12 UNF | 19 |   |   |  |   |
| 3050 to 3060 |                            |      |      | 1' 5/8 -12 UNF  | 19 |            |      |      | 1' 5/16 -12 UNF | 19 |   |   |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17 |   |   |  |   |
| 3050 to 3060 | 42                         | 69,8 | 35,6 | M14             | 17 | 34         | 52,4 | 26,2 | M10             | 17 |   |   |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3020 to 3040 | Only with rear body Type A |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3050 to 3060 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |  |   |

Dimensions readings and approximative characteristics subject to modifications.

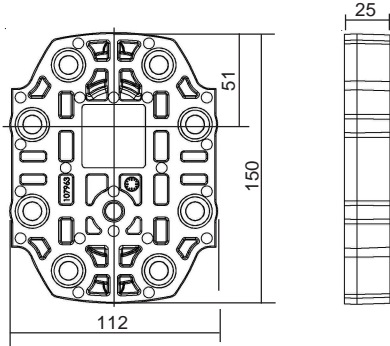
F.T 30 11374 2/4

Consult us for availability

**REAR BODIES**

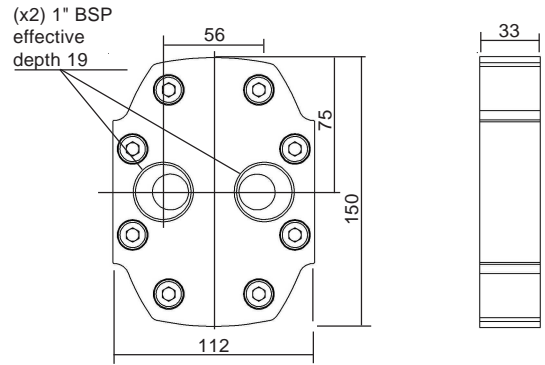
**L**

Standard



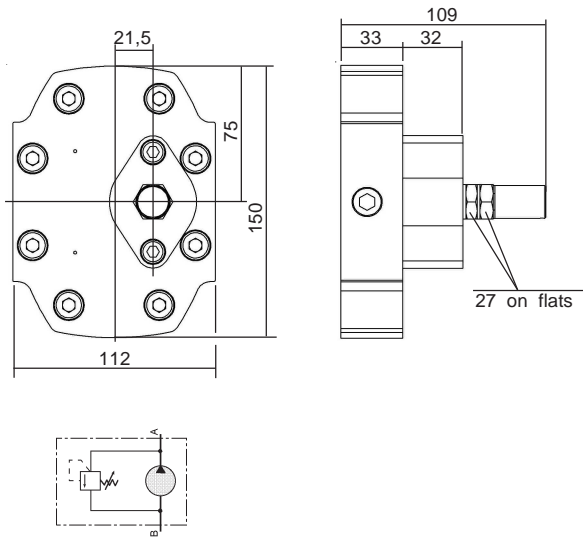
**A**

with ports




**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 30 1374 3/4**

 Consult us for availability

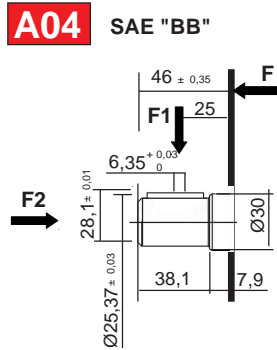
DRIVING SHAFTS

Tapered  
10

Straight keyed  
20

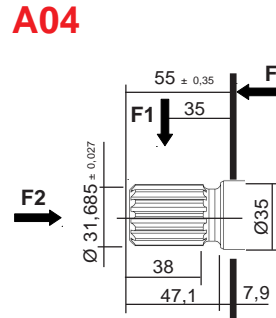
Splined  
30

Tang  
40



F1 = 140 daN  
F2 = 50 daN

Maxi transmissible torque  
340 N.m

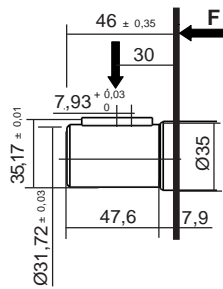


F1 = 120 daN  
F2 = 50 daN

Involute spline to SAE "C"  
14 teet - 1" 1/4-  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
500 N.m

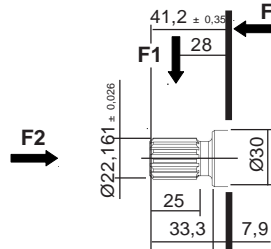
A05 SAE "C"



F1 = 140 daN  
F2 = 50 daN

Maxi transmissible torque  
430 N.m

A19

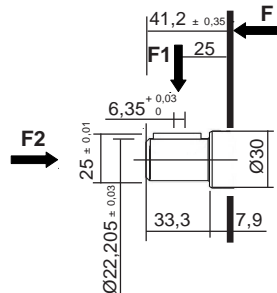


F1 = 120 daN  
F2 = 50 daN

Involute spline to SAE "B"  
13 teeth - 7/8"  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
310 N.m

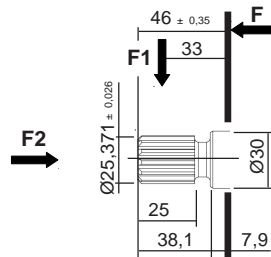
A07 SAE "B"



F1 = 140 daN  
F2 = 50 daN

Maxi transmissible torque  
290 N.m

A20



F1 = 120 daN  
F2 = 50 daN

Involute spline to SAE "BB"  
15 teeth - 1"  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
490 N.m

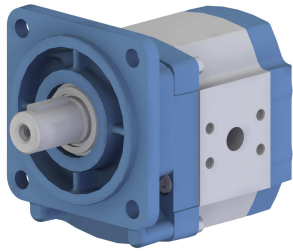
Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1374 4/4



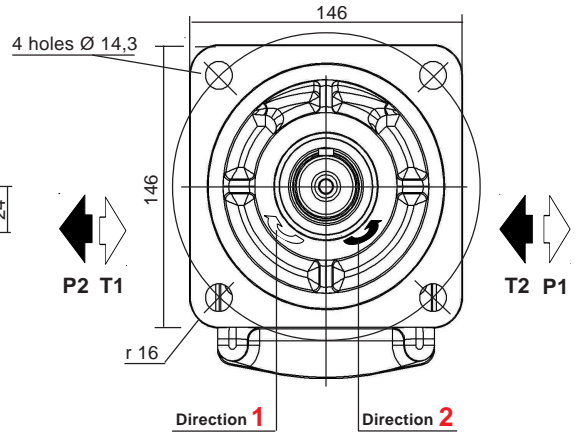
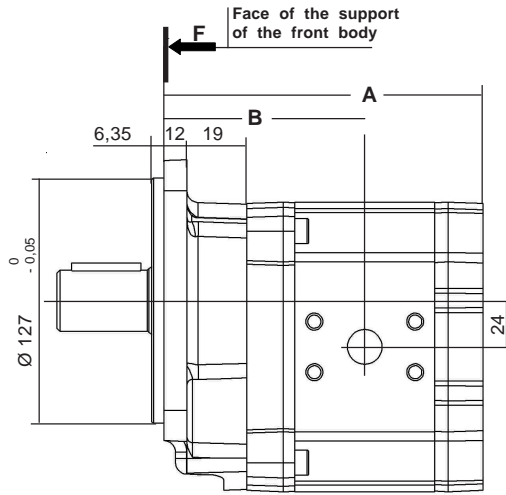
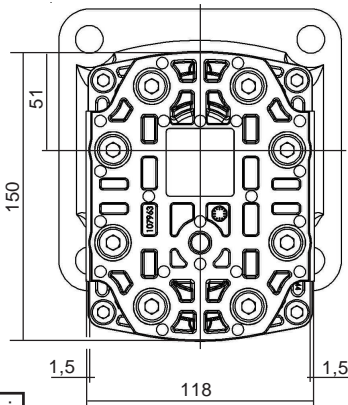
Consult us for availability





**P** II Sign **AD X 3** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity       | Dimensions |       |
|------------------------------|------------|-------|
|                              | A          | B     |
| <b>020 - 025 - 031 - 040</b> | 165,7      | 104,3 |
| <b>050 - 060</b>             | 192,2      | 117,5 |
| <b>071 - 080 - 090 - 100</b> | 212,2      | 127,2 |

Multiples geared pumps, see data sheet **F.T 30 1356**

Seal kits:  
Nitrile: **K5083019 + K5074043**  
Viton: **K5083020 + K5074044**  
(For the manufacturings from february 1998)

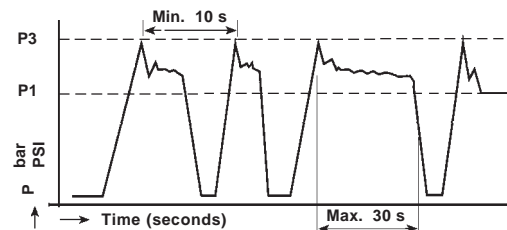
| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|-----|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |                                       |                      |
|             |                      |                |      |                      |     |                   | l / min      | l / min       |  |                                       |                      |
| <b>3020</b> | 21,1                 | 275            | 3987 | 235                  | 235 | 3000              | 31,65        | 63,3          | 4  | 3,74                                  | 11,3                 |
| <b>3025</b> | 25,8                 | 275            | 3987 | 235                  | 235 | 3000              | 38,7         | 77,4          | 4,90   | 4,63                                  | 11,3                 |
| <b>3031</b> | 32,1                 | 275            | 3987 | 235                  | 235 | 3000              | 48,15        | 96,3          | 6,10   | 5,73                                  | 11,3                 |
| <b>3040</b> | 41,5                 | 275            | 3987 | 235                  | 235 | 3000              | 62,25        | 124,5         | 7,85   | 7,37                                  | 11,4                 |
| <b>3050</b> | 51,65                | 250            | 3625 | 215                  | 215 | 3000              | 77,47        | 154,9         | 9,77   | 9,21                                  | 12,6                 |
| <b>3060</b> | 62,6                 | 225            | 3262 | 190                  | 190 | 2500              | 93,9         | 156,5         | 11,85  | 11,05                                 | 12,7                 |
| <b>3071</b> | 73,55                | 225            | 3262 | 190                  | 190 | 2500              | 110,32       | 183,8         | 13,92  | 13,08                                 | 12,7                 |
| <b>3080</b> | 82,95                | 200            | 2900 | 170                  | 170 | 2200              | 124,42       | 182,4         | 15,59  | 14,60                                 | 12,8                 |
| <b>3090</b> | 92,95                | 150            | 2175 | 130                  | 130 | 2000              | 139,42       | 185,9         | 17,47  | 16,47                                 | 13,5                 |
| <b>3100</b> | 103,9                | 150            | 2175 | 130                  | 130 | 2000              | 155,85       | 207,8         | 19,40  | 18,17                                 | 13,7                 |

**F.T 30 1377 1/4**

P1 Maximum pressure in continuous duty.

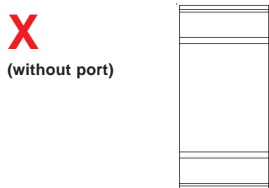
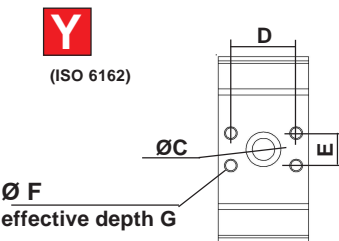
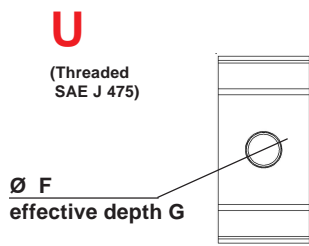
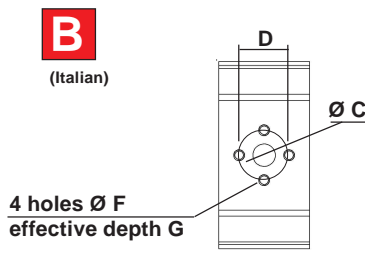
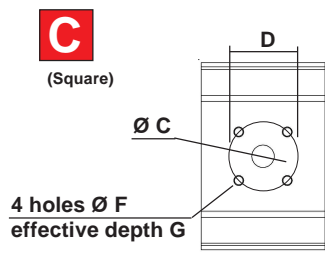
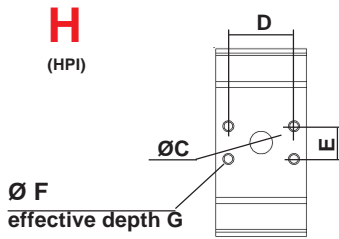
Maximum Pressure ⇔

P3 Allowable peak pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T)  |      |      |                 |    | OUTLET (P) |      |      |                 |            | CATALOGUE ° 70 |  |            |                                       |
|--------------|--|------|------|-----------------|----|------------|------|------|-----------------|------------|----------------|--|------------|---------------------------------------|
|              | Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min) |      |      |                 |    | INLET (T)  |      |      |                 | OUTLET (P) |                |  |            |                                       |
|              | ØC   | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G          | INLET (T)      |  | OUTLET (P) |                                       |
| 3020 to 3040 | 28   | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16         | 3020           | 1" N: 3.500072<br>BSP V: 3.505060        | 3025       | 1/2" N: 3.500070<br>BSP V: 3.505058   |
| 3050 to 3060 | 42   | 35,6 | 69,8 | M8              | 16 | 22         | 52,4 | 26,2 | M8              | 16         | 3030           | 1" 1/4 N: 3.500103<br>BSP V: 3.505061    | 3035       | 3/4" N: 3.500071<br>BSP V: 3.505060   |
| 3071 to 3100 | 42   | 35,6 | 69,8 | M8              | 16 | 24         | 52,4 | 26,2 | M8              | 16         | 3071           | 1" 1/4 BSP<br>N: 3.500492<br>V: 3.505066 | 3080       | 1" BSP<br>N: 3.500072<br>V: 3.505060  |
| 3020 to 3040 |  |      |      |                 |    |            |      |      |                 |            | 3071           | 1" 1/2 N: 3.500493<br>BSP V: 3.505067    | 3080       | 1" N: 3.500072<br>BSP V: 3.505060     |
| 3050 to 3060 | 28   | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17         | 3090           | 1" 1/2 N: 3.500493<br>BSP V: 3.505067    | 3100       | 1" 1/4 N: 3.500103<br>BSP V: 3.505061 |
| 3071 to 3100 |  |      |      |                 |    |            |      |      |                 |            |                |  |            |                                       |
| 3020 to 3040 | 27   | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17         |                |  |            |                                       |
| 3050 to 3060 |  |      |      |                 |    |            |      |      |                 |            |                |  |            |                                       |
| 3071 to 3100 |  |      |      |                 |    |            |      |      |                 |            |                |  |            |                                       |
| 3020 to 3040 |  |      |      | 1' 5/16 -12 UNF | 19 |            |      |      | 1' 1/16 -12 UNF | 19         |                |  |            |                                       |
| 3050 to 3060 |  |      |      | 1' 5/8 -12 UNF  | 19 |            |      |      | 1' 5/16 -12 UNF | 19         |                |  |            |                                       |
| 3071 to 3100 |  |      |      |                 |    |            |      |      |                 |            |                |  |            |                                       |
| 3020 to 3040 | 28   | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17         |                |  |            |                                       |
| 3050 to 3060 | 42   | 69,8 | 35,6 | M14             | 17 | 34         | 52,4 | 26,2 | M10             | 17         |                |  |            |                                       |
| 3071 to 3100 |  |      |      |                 |    |            |      |      |                 |            |                |  |            |                                       |
| 3020 to 3040 | Only with rear body Type A                             |      |      |                 |    |            |      |      |                 |            |                |  |            |                                       |
| 3050 to 3060 |  |      |      |                 |    |            |      |      |                 |            |                |  |            |                                       |
| 3071 to 3100 |  |      |      |                 |    |            |      |      |                 |            |                |  |            |                                       |

Dimensions readings and approximative characteristics subject to modifications.

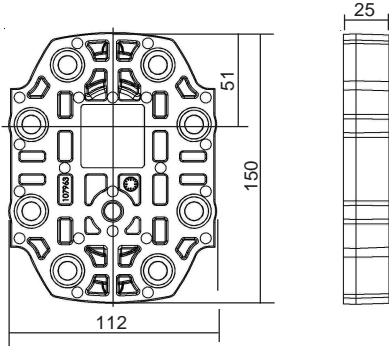
F.T 30 11377 2/4

Consult us for availability

**REAR BODIES**

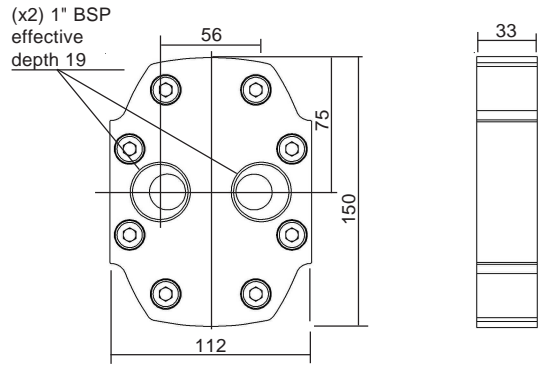
**L**

Standard



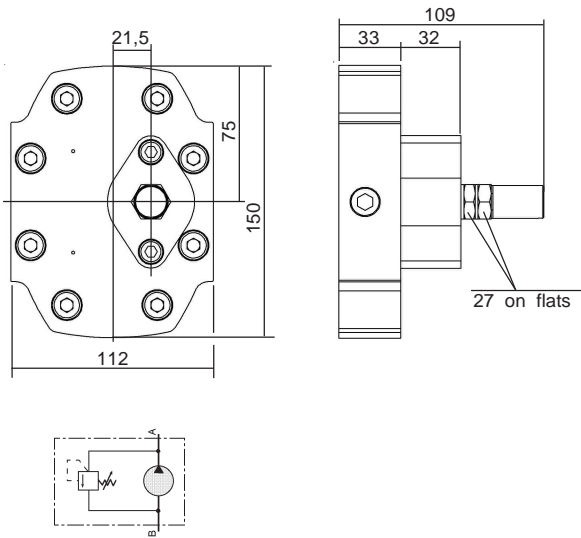
**A**

with ports



**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 30 1377 3/4**



Consult us for availability

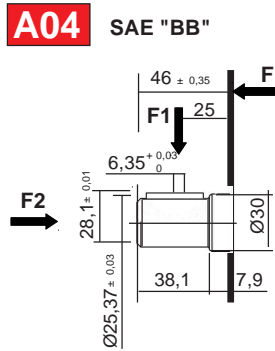
DRIVING SHAFTS

Tapered  
**10**

Straight keyed  
**20**

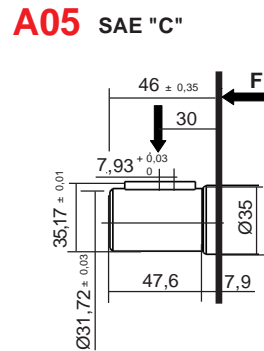
Splined  
**30**

Tang  
**40**



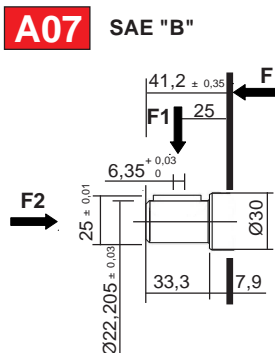
**F1 = 0 daN**  
**F2 = 50 daN**

Maxi transmissible torque  
**340 N.m**



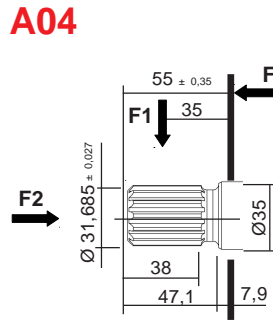
**F1 = 0 daN**  
**F2 = 50 daN**

Maxi transmissible torque  
**430 N.m**



**F1 = 0 daN**  
**F2 = 50 daN**

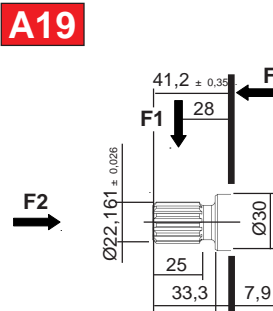
Maxi transmissible torque  
**290 N.m**



**F1 = 0 daN**  
**F2 = 50 daN**

Involute spline to SAE "C"  
14 teet - 1" 1/4-  
Diametral Pitch 16/32  
30° Pressure angle

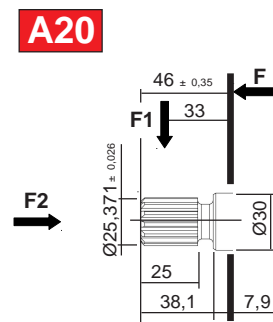
Maxi transmissible torque  
**500 N.m**



**F1 = 0 daN**  
**F2 = 50 daN**

Involute spline to SAE "B"  
13 teeth - 7/8"  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
**310 N.m**



**F1 = 0 daN**  
**F2 = 50 daN**

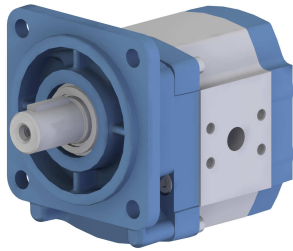
Involute spline to SAE "BB"  
15 teeth - 1"  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
**490 N.m**

Dimensions readings and approximative characteristics subject to modifications.

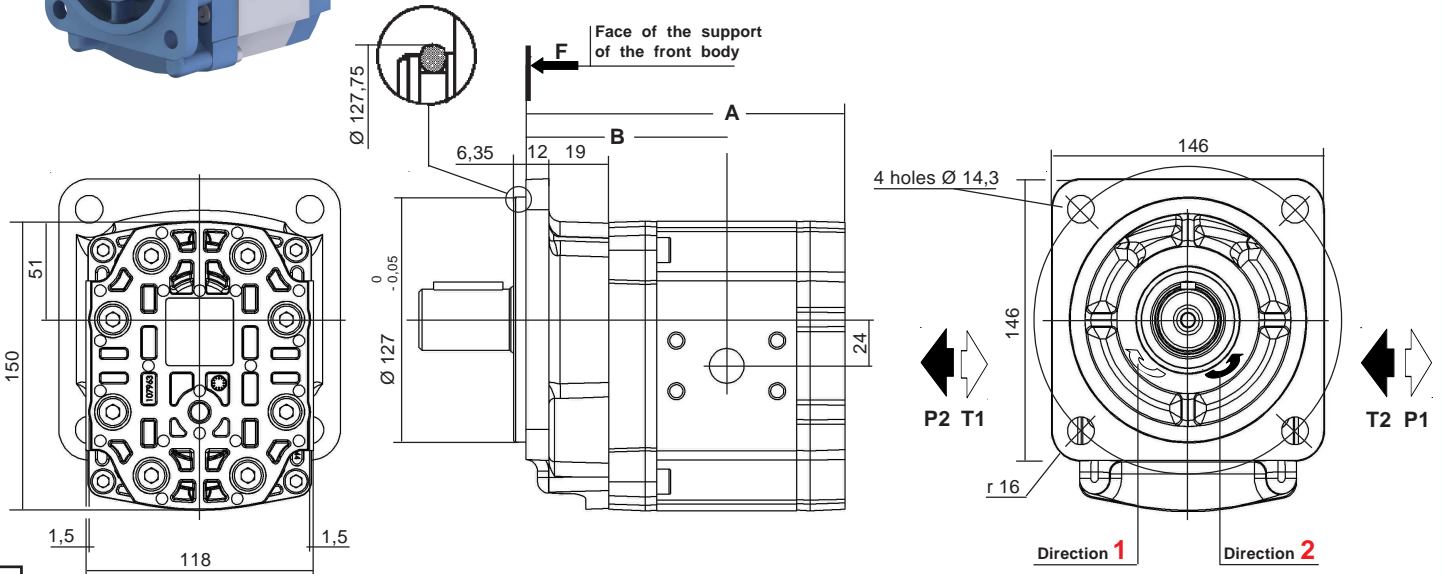
**F.T 30 1377 4/4**

Consult us for availability



**P** II Sign **ADZ** 3 VI Sign **HL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |       |
|------------------------|------------|-------|
|                        | A          | B     |
| 020 - 025 - 031 - 040  | 165,7      | 104,3 |
| 050 - 060              | 192,2      | 117,5 |
| 071 - 080 - 090 - 100  | 212,2      | 127,2 |

Multiples geared pumps, see data sheet **F.T 30 1356**

Seal kits:  
Nitrile: **K5083019 + K5074043 + K107089**  
Viton: **K5083020 + K5074044 + K107090**  
(For the manufacturings from february 1998)

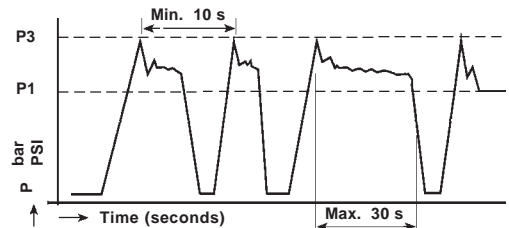
| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|-----|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |                                       |                      |
|             |                      |                |      |                      |     |                   | l / min      | l / min       |  |                                       |                      |
| <b>3020</b> | 21,1                 | 275            | 3987 | 235                  | 235 | 3000              | 31,65        | 63,3          | 4  | 3,74                                  | 11,3                 |
| <b>3025</b> | 25,8                 | 275            | 3987 | 235                  | 235 | 3000              | 38,7         | 77,4          | 4,90   | 4,63                                  | 11,3                 |
| <b>3031</b> | 32,1                 | 275            | 3987 | 235                  | 235 | 3000              | 48,15        | 96,3          | 6,10   | 5,73                                  | 11,3                 |
| <b>3040</b> | 41,5                 | 275            | 3987 | 235                  | 235 | 3000              | 62,25        | 124,5         | 7,85   | 7,37                                  | 11,4                 |
| <b>3050</b> | 51,65                | 250            | 3625 | 215                  | 215 | 3000              | 77,47        | 154,9         | 9,77   | 9,21                                  | 12,6                 |
| <b>3060</b> | 62,6                 | 225            | 3262 | 190                  | 190 | 2500              | 93,9         | 156,5         | 11,85  | 11,05                                 | 12,7                 |
| <b>3071</b> | 73,55                | 225            | 3262 | 190                  | 190 | 2500              | 110,32       | 183,8         | 13,92  | 13,08                                 | 12,7                 |
| <b>3080</b> | 82,95                | 200            | 2900 | 170                  | 170 | 2200              | 124,42       | 182,4         | 15,59  | 14,60                                 | 12,8                 |
| <b>3090</b> | 92,95                | 150            | 2175 | 130                  | 130 | 2000              | 139,42       | 185,9         | 17,47  | 16,47                                 | 13,5                 |
| <b>3100</b> | 103,9                | 150            | 2175 | 130                  | 130 | 2000              | 155,85       | 207,8         | 19,40  | 18,17                                 | 13,7                 |

**F.T 30 1378 1/4**

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

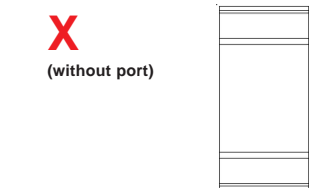
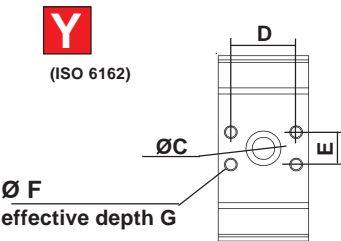
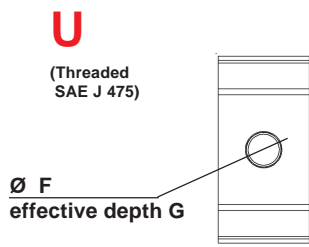
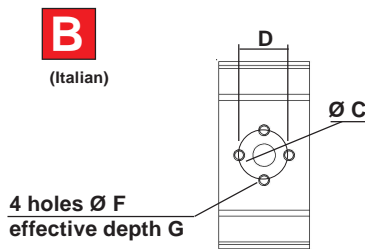
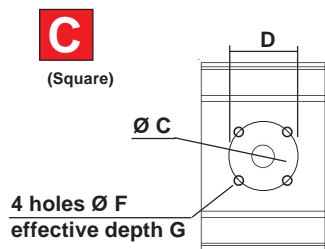
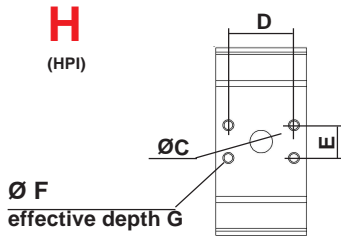
P3 Allowable peack pressure.



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

Dimensions readings and approximative characteristics subject to modifications.



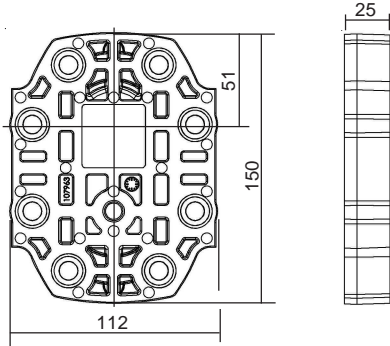
| Capacity     | INLET (T)                  |      |      |                 |    | OUTLET (P) |      |      |                 |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |   |   |  |
|--------------|----------------------------|------|------|-----------------|----|------------|------|------|-----------------|----|---|---|---|--|
|              | ØC                         | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G  | INLET (T)   |   | OUTLET (P)                                    |  |
|              |                            |      |      |                 |    |            |      |      |                 |    | 1" N: 3.500072<br>BSP V: 3.505060   | 3020 1/2" N: 3.500070<br>BSP V: 3.505058  | 3025 3/4" N: 3.500071<br>BSP V: 3.505060      | 3030 1" N: 3.500072<br>BSP V: 3.505060     |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16 | 3071 1" 1/4 BSP<br>N: 3.500492<br>V: 3.505066                               | 3080 1" BSP<br>N: 3.500072<br>V: 3.505060 | 3090 1" 1/4 BSP<br>N: 3.500103<br>V: 3.505061 | 3100 1" BSP<br>N: 3.500072<br>V: 3.505060  |
| 3050 3060    | 42                         | 35,6 | 69,8 | M8              | 16 | 22         | 52,4 | 26,2 | M8              | 16 | 3071 1" 1/2 N: 3.500493<br>BSP V: 3.505067                                  | 3080 1" BSP<br>N: 3.500072<br>V: 3.505060 | 3090 1" 1/4 N: 3.500493<br>BSP V: 3.505067    | 3100 1" 1/4 N: 3.500103<br>BSP V: 3.505061 |
| 3071 to 3100 | 42                         | 35,6 | 69,8 | M8              | 16 | 24         | 52,4 | 26,2 | M8              | 16 |   |   |   |  |
| 3020 to 3040 | 28                         | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17 |   |   |   |  |
| 3050 3060    |                            |      |      |                 |    |            |      |      |                 |    |   |   |   |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |   |  |
| 3020 to 3040 | 27                         | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17 |   |   |   |  |
| 3050 3060    |                            |      |      |                 |    |            |      |      |                 |    |   |   |   |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |   |  |
| 3020 to 3040 |                            |      |      | 1' 5/16 -12 UNF | 19 |            |      |      | 1' 1/16 -12 UNF | 19 |   |   |   |  |
| 3050 3060    |                            |      |      | 1' 5/8 -12 UNF  | 19 |            |      |      | 1' 5/16 -12 UNF | 19 |   |   |   |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |   |  |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17 |   |   |   |  |
| 3050 3060    | 42                         | 69,8 | 35,6 | M14             | 17 | 34         | 52,4 | 26,2 | M10             | 17 |   |   |   |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |   |  |
| 3020 to 3040 | Only with rear body Type A |      |      |                 |    |            |      |      |                 |    |   |   |   |  |
| 3050 3060    |                            |      |      |                 |    |            |      |      |                 |    |   |   |   |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |   |   |  |

Consult us for availability

**REAR BODIES**

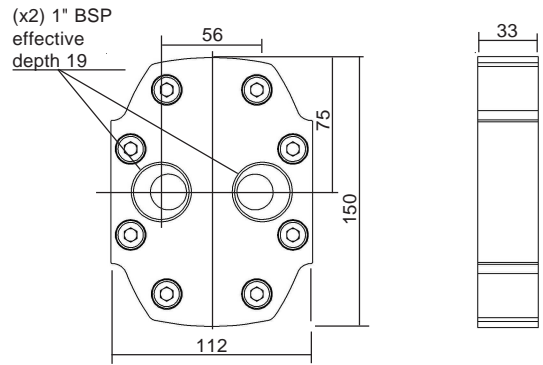
**L**

Standard



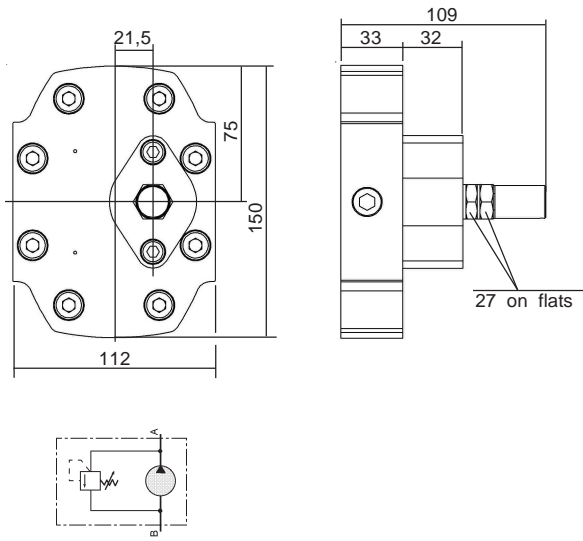
**A**

with ports



**V**

Low pressure relief valve  
(Adjustable) Internal return



Dimensions readings and approximative characteristics subject to modifications.

**F.T 30 1378 3/4**



Consult us for availability

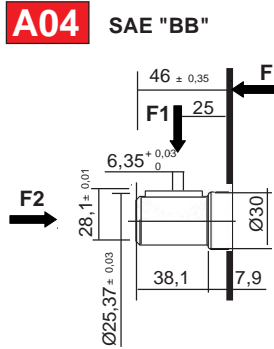
DRIVING SHAFTS

Tapered  
10

Straight keyed  
20

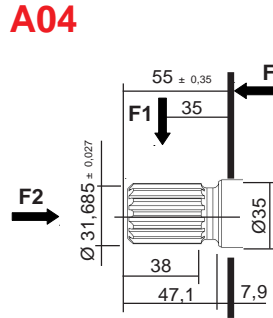
Splined  
30

Tang  
40



F1 = 0 daN  
F2 = 50 daN

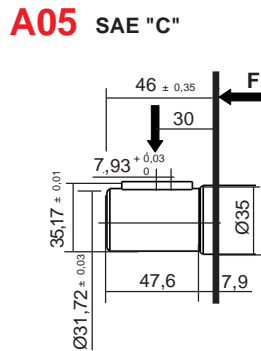
Maxi transmissible torque  
340 N.m



F1 = 0 daN  
F2 = 50 daN

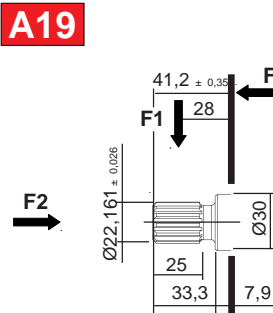
Involute spline to SAE "C"  
14 teet - 1" 1/4-  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
500 N.m



F1 = 0 daN  
F2 = 50 daN

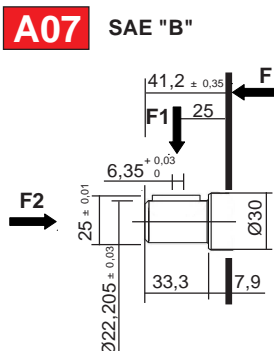
Maxi transmissible torque  
430 N.m



F1 = 0 daN  
F2 = 50 daN

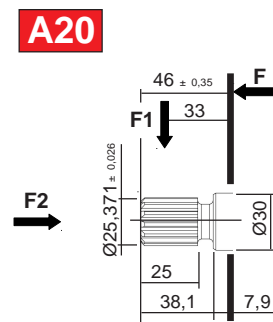
Involute spline to SAE "B"  
13 teeth - 7/8"  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
310 N.m



F1 = 0 daN  
F2 = 50 daN

Maxi transmissible torque  
290 N.m



F1 = 0 daN  
F2 = 50 daN

Involute spline to SAE "BB"  
15 teeth - 1"  
Diametral Pitch 16/32  
30° Pressure angle

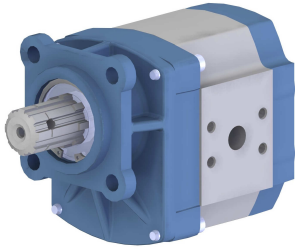
Maxi transmissible torque  
490 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1378 4/4

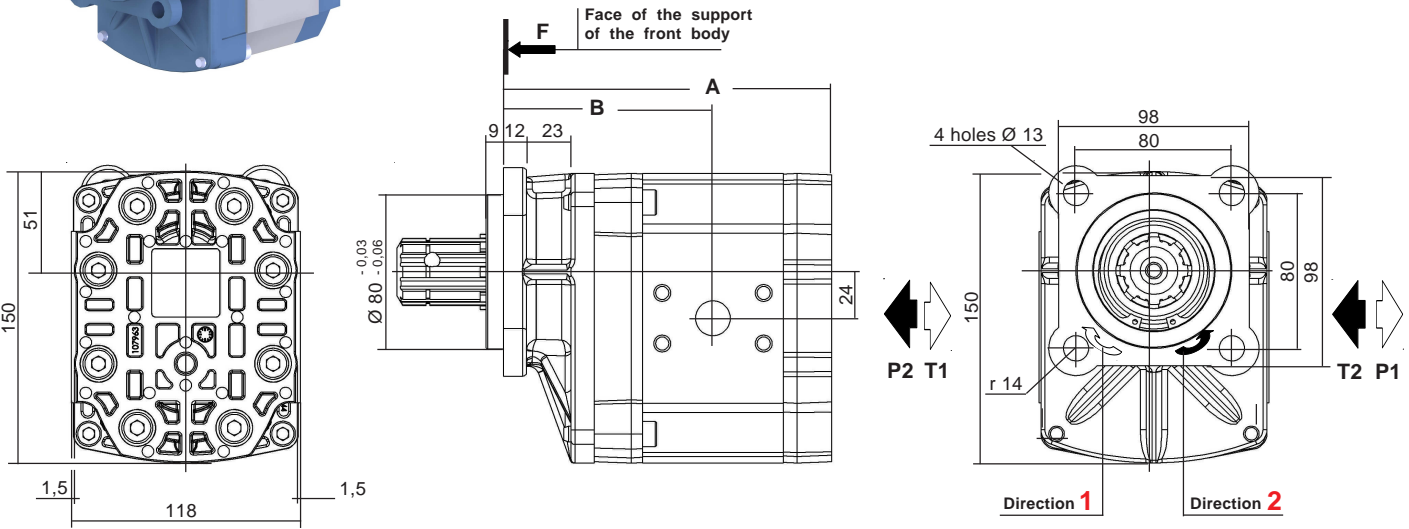
Consult us for availability





**P** **II** **ZF** **C** **3** **VI** **H** **L** **3** **0** **D04** **XII**  
Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign

For CODIFICATION, see data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |       |
|------------------------|------------|-------|
|                        | A          | B     |
| 020 - 025 - 031 - 040  | 169,7      |       |
| 050 - 060              | 196,2      | 121,5 |
| 071 - 080 - 090 - 100  | 216,2      | 131,2 |

Multiples geared pumps, see data sheet **F.T 30 1356**

Seal kits:  
Nitrile: **K5074077 + K5074043**  
Viton: **K5074078 + K5074044**  
(For the manufacturings from october 1991)

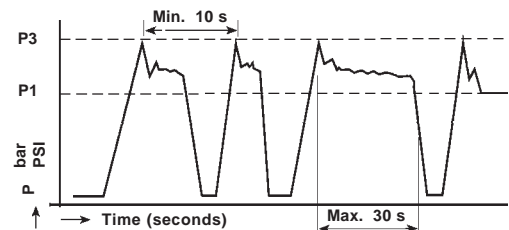
| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |     | Maxi speed<br>RPM | NOMINAL FLOW |               | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|-----|-------------------|--------------|---------------|--|---------------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI |                   | at 1500 RPM  | at Maxi speed |  |                                       |                      |
|             |                      |                |      |                      |     |                   | l / min      | l / min       |  |                                       |                      |
| <b>3020</b> | 21,1                 | 275            | 3987 | 235                  | 235 | 3000              | 31,65        | 63,3          | 4  | 3,74                                  | 5,6                  |
| <b>3025</b> | 25,8                 | 275            | 3987 | 235                  | 235 | 3000              | 38,7         | 77,4          | 4,90   | 4,63                                  | 5,6                  |
| <b>3031</b> | 32,1                 | 275            | 3987 | 235                  | 235 | 3000              | 48,15        | 96,3          | 6,10   | 5,73                                  | 5,6                  |
| <b>3040</b> | 41,5                 | 275            | 3987 | 235                  | 235 | 3000              | 62,25        | 124,5         | 7,85   | 7,37                                  | 5,7                  |
| <b>3050</b> | 51,65                | 250            | 3625 | 215                  | 215 | 3000              | 77,47        | 154,9         | 9,77   | 9,21                                  | 6,9                  |
| <b>3060</b> | 62,6                 | 225            | 3262 | 190                  | 190 | 2500              | 93,9         | 156,5         | 11,85  | 11,05                                 | 7                    |
| <b>3071</b> | 73,55                | 225            | 3262 | 190                  | 190 | 2500              | 110,32       | 183,8         | 13,92  | 13,08                                 | 7                    |
| <b>3080</b> | 82,95                | 200            | 2900 | 170                  | 170 | 2200              | 124,42       | 182,4         | 15,59  | 14,60                                 | 7,1                  |
| <b>3090</b> | 92,95                | 150            | 2175 | 130                  | 130 | 2000              | 139,42       | 185,9         | 17,47  | 16,47                                 | 7,8                  |
| <b>3100</b> | 103,9                | 150            | 2175 | 130                  | 130 | 2000              | 155,85       | 207,8         | 19,40  | 18,17                                 | 8                    |

**F.T 30 1372 1/3**

P1 Maximum pressure in continuous duty.

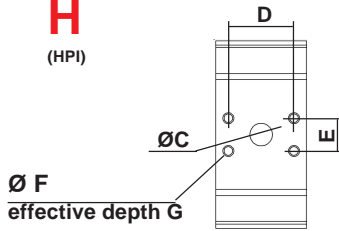
Maximum Pressure ⇒

P3 Allowable peak pressure.

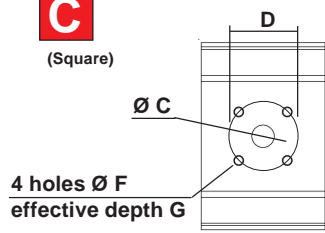


CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

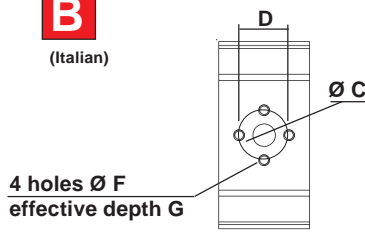
**H**  
(HPI)



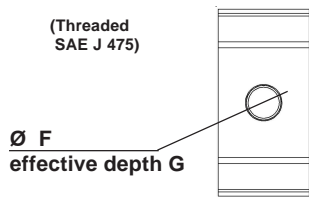
**C**  
(Square)



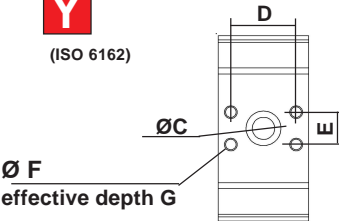
**B**  
(Italian)



**U**  
(Threaded SAE J 475)



**Y**  
(ISO 6162)



**X**  
(without port)



| Capacity     | INLET (T)                  |      |      |                 |    | OUTLET (P) |      |      |                 |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |  |  |  |
|--------------|----------------------------|------|------|-----------------|----|------------|------|------|-----------------|----|---|--|--|--|--|
|              | ØC                         | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G  | INLET (T)   |  | OUTLET (P)                               |  |  |
|              |                            |      |      |                 |    |            |      |      |                 |    | 3020 to 3040  | 3071 to 3100                             | 3020 to 3040                             | 3071 to 3100                               |  |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16 | 1" N: 3.500072<br>BSP V: 3.505060   | 3020 1/2" N: 3.500070<br>BSP V: 3.505058 | 3025 3/4" N: 3.500071<br>BSP V: 3.505060 | 3030 1" N: 3.500072<br>BSP V: 3.505066     | 3031 1" N: 3.500072<br>BSP V: 3.505066 |
| 3050 to 3060 | 42                         | 35,6 | 69,8 | M8              | 16 | 22         | 52,4 | 26,2 | M8              | 16 | 1" 1/4 N: 3.500492<br>BSP V: 3.505066                                       | 3025 1" N: 3.500070<br>BSP V: 3.505058   | 3031 1" N: 3.500071<br>BSP V: 3.505060   | 3030 1" N: 3.500072<br>BSP V: 3.505066     |  |
| 3071 to 3100 | 42                         | 35,6 | 69,8 | M8              | 16 | 24         | 52,4 | 26,2 | M8              | 16 | 3071 1" 1/2 N: 3.500493<br>BSP V: 3.505067                                  | 3080 1" N: 3.500072<br>BSP V: 3.505060   | 3080 1" N: 3.500072<br>BSP V: 3.505060   | 3090 1" 1/4 N: 3.500103<br>BSP V: 3.505061 |  |
| 3020 to 3040 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |  |  |
| 3050 to 3060 | 28                         | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17 |   |  |  |  |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |  |  |
| 3020 to 3040 | 27                         | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17 |   |  |  |  |  |
| 3050 to 3060 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |  |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |  |  |
| 3020 to 3040 |                            |      |      | 1' 5/16 -12 UNF | 19 |            |      |      | 1' 1/16 -12 UNF | 19 |   |  |  |  |  |
| 3050 to 3060 |                            |      |      | 1' 5/8 -12 UNF  | 19 |            |      |      | 1' 5/16 -12 UNF | 19 |   |  |  |  |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |  |  |
| 3020 to 3040 | 28                         | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17 |   |  |  |  |  |
| 3050 to 3060 | 42                         | 69,8 | 35,6 | M14             | 17 | 34         | 52,4 | 26,2 | M10             | 17 |   |  |  |  |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |  |  |
| 3020 to 3040 | Only with rear body Type A |      |      |                 |    |            |      |      |                 |    |   |  |  |  |  |
| 3050 to 3060 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |  |  |
| 3071 to 3100 |                            |      |      |                 |    |            |      |      |                 |    |   |  |  |  |  |

Consult us for availability

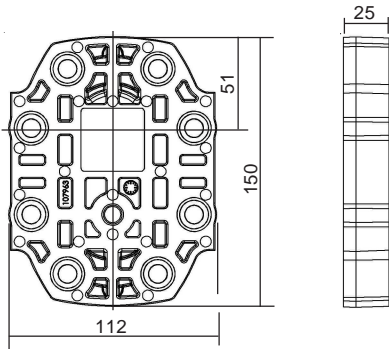
Dimensions readings and approximative characteristics subject to modifications.

F.T 30 11372 2/3

**REAR BODIES**

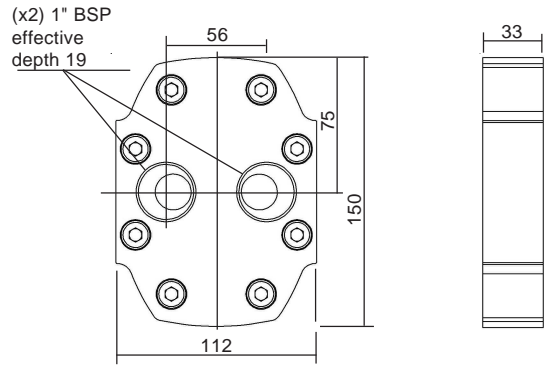
**L**

Standard



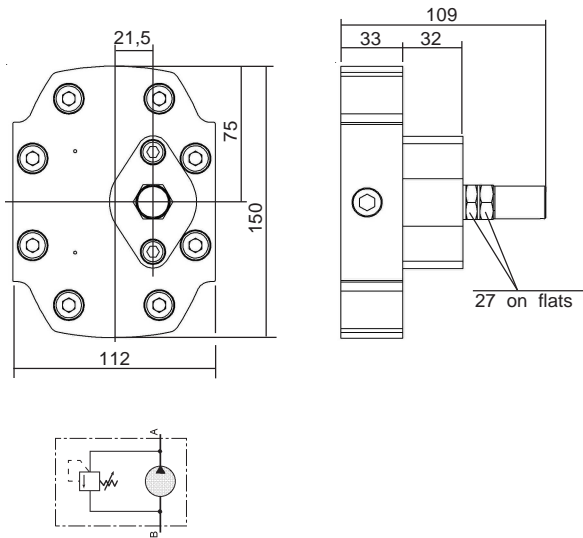
**A**

with ports



**V**

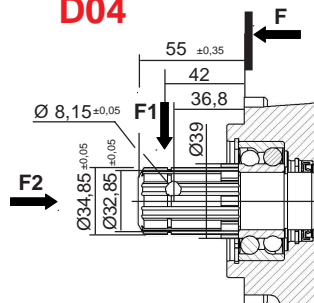
Low pressure relief valve  
(Adjustable) Internal return



**DRIVING SHAFT (ZFC)**

**SPLINED L30**

**D04**



Parallel spline shaft  
8 x 32 x 36 - to Norm NF E 22 141  
Pushing minor diameter

Maxi transmissible torque

**480 N.m**

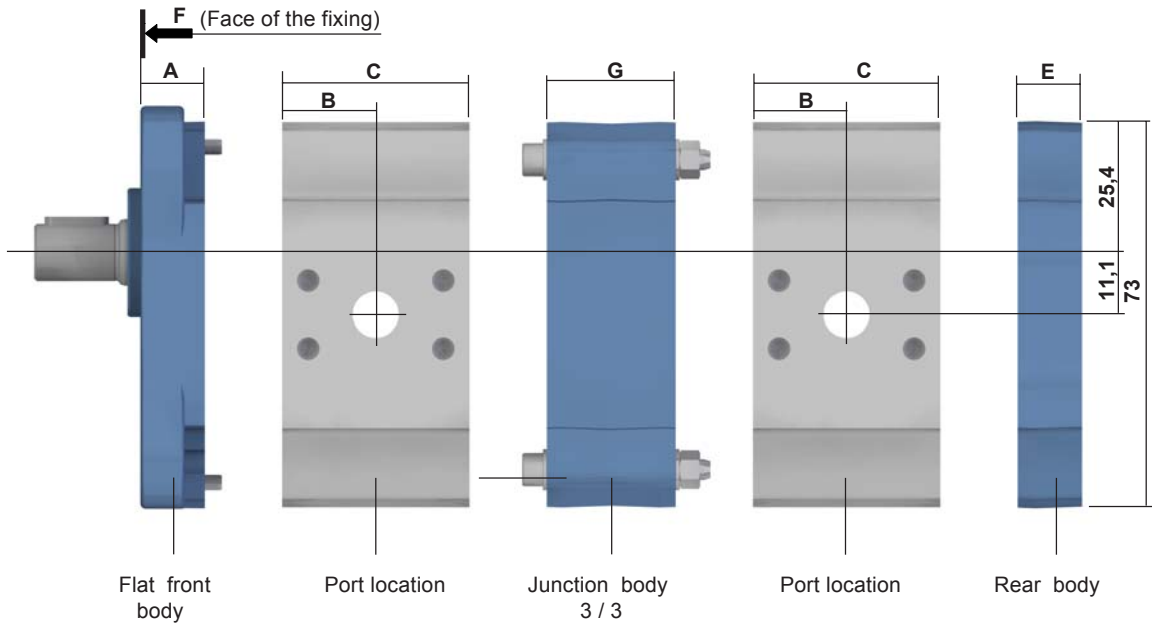
**F1 = 140 daN**

**F2 = 50 daN**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 30 1372 3/3**

For CODIFICATION, see data sheet **F.T R 0030**



Dimensions readings and approximative characteristics subject to modifications.

**ATTENTION**

**For common suctions.**

The flow of the pump, or pumps preceding or following the section including the suction must not exceed **22 l / min.**

| Flat front bodies            | A  |
|------------------------------|----|
| <b>AAN / AAK - BAN</b>       | 20 |
| <b>CBN / CBK - DBN / DBK</b> |    |

| Thick front bodies           | A  |
|------------------------------|----|
| <b>AAP / AEP - AAR / AER</b> | 68 |
| <b>AAZ - ABP / ABR</b>       |    |
| <b>ADP / ADR - ADX / ADZ</b> |    |
| <b>ZFC</b>                   |    |
|                              | 72 |

| Capacity            | B    | C     | D  | E    |
|---------------------|------|-------|----|------|
| <b>3020 to 3040</b> | 36,3 | 72,7  |    |      |
| <b>3050 3060</b>    | 49,5 | 99,2  | 24 | 25,5 |
| <b>3071 to 3100</b> | 59,2 | 119,2 |    |      |

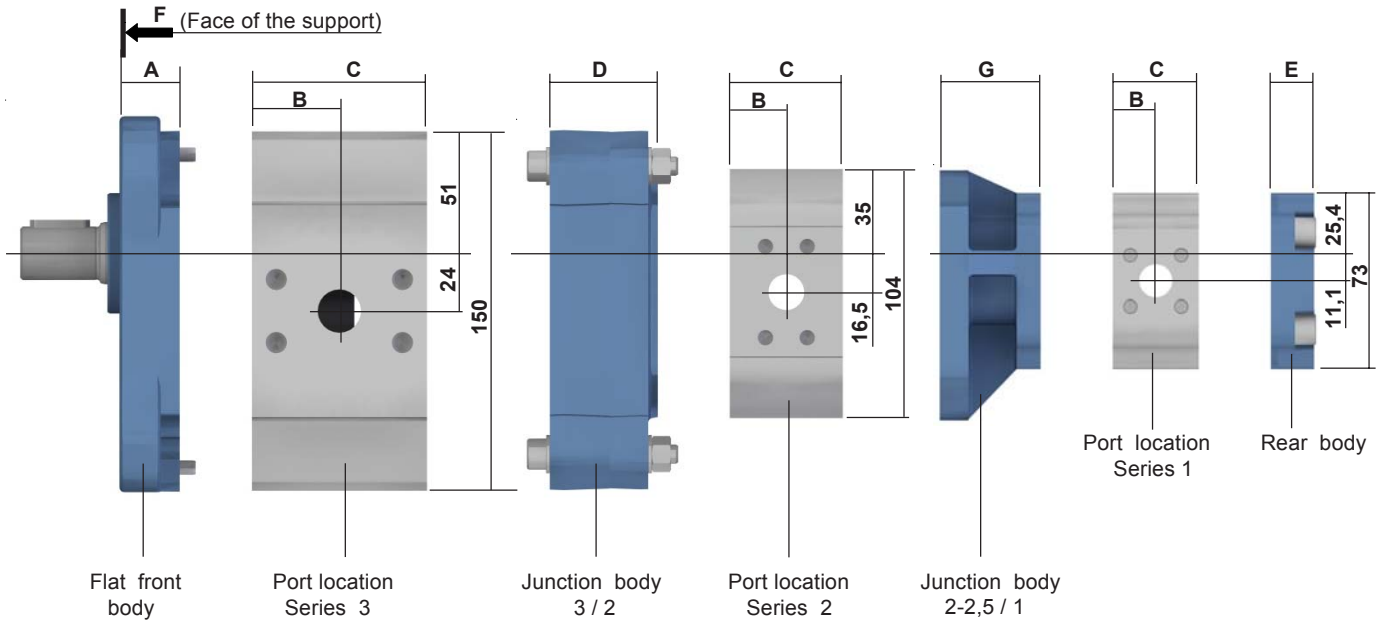
**F.T 30 1356 1/2**



Consult us for availability



For CODIFICATION, see data sheet **F.T R 0030**



Dimensions readings and approximative characteristics subject to modifications.

**ATTENTION**

**For common suction.**

The flow of the pump, or pumps preceding or following the section including the suction must not exceed **22 l / min.**

**NOTA :**  
 Versions 2 / 1 - 2,5 / 1 only Codes **A - D** and **E**.  
 Versions 2 / 2 - 2,5 / 2,5 only Codes **A - D** and **X**.

|                | Capacity     | B    | C     | D  | E  | G  |
|----------------|--------------|------|-------|----|----|----|
| Series 3       | 3020 to 3040 | 36,3 | 72,7  |    |    |    |
|                | 3050 - 3060  | 49,5 | 99,2  | 50 |    |    |
|                | 3071 to 3100 | 59,2 | 119,2 |    |    |    |
| Series 2 - 2,5 | 2004 to 2012 | 23,5 | 47    |    |    | 42 |
|                | 2014 to 2022 | 31   | 61,6  |    |    |    |
|                | 2512         |      |       |    |    |    |
|                | 2026 - 2030  | 38,8 | 77,7  |    |    |    |
| Series 1       | 1001 to 1003 | 17,9 | 35,8  |    | 18 |    |
|                | 1004 to 1006 | 22,7 | 45,6  |    |    |    |

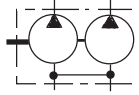
| Flat front bodies  | A        |
|--|----------|
| AAN / AAK - BAN<br>CBN / CBK - DBN / DBK                                 | 20       |
| Thick front bodies   | A        |
| AAP / AEP - AAR / AER<br>AAZ - ABP / ABR<br>ADP / ADR - ADX / ADZ<br>ZFC | 68<br>72 |

**F.T 30 1356 2/3**

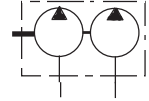
  Consult us for availability

**JUNCTION BODY (Schematic examples for 2 elements pumps)**

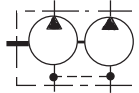
**Code A** **Communication between suction ports**  
(Capacity of the pump without suction ≥ half of the capacity of the front section)



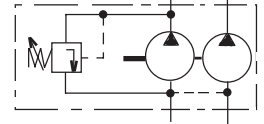
**Code E** **Tightness between ports**



**Code D** **Independent inlet side (communication of leaks)**  
(Oil and tank to be necessarily)



**Code X** **Adjustable relief valve internal return in preceding pump**



Possible combinations of junctions up to 5 elements

**CALCULATION of the TORQUE**

**Q** Capacity in cc / rev

Calculation of the torque for one pump body :  $\frac{1,59 \times Q \times P}{1000 \times \eta_m} = C \text{ (N.m)}$

**P** Pressure in bar

**$\eta_m$**  Mechanical efficiency (see catalogue **C10**)

Example : P 1 CBN 3060 H A 2008 H A 1004 C L 30 A01 Pressure : 3060 200 bar Speed : 2000 RPM  
2008 150 bar  
1004 150 bar

$$\frac{1,59 \times 60 \times 200}{1000 \times 0,88} = 21,68 \text{ N.m}$$

$$\frac{1,59 \times 8 \times 150}{1000 \times 0,87} = 2,24 \text{ N.m}$$

$$\frac{1,59 \times 4 \times 150}{1000 \times 0,87} = 1,09 \text{ N.m}$$

= **25,01 N.m** → Total torque

Dimensions readings and approximative characteristics subject to modifications.

**F.T 20 1306 3/3**



Consult us for availability

**CODIFICATION PUMPS  
 "MODULE 3"**



**F.T R 0146**

**PUMP Series 1**



**F.T 10 1352**

**PUMP Series 2 / 2,5**



**F.T 20 1353**

**PUMP Series 2,6**



**F.T 26 1354**

**PUMP Series 3**



**F.T 30 1355**



Consult us for availability

"MODULE 3"



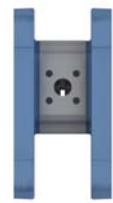
Series 3



Series 2,6

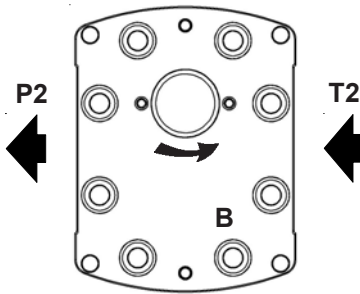


Series 2 - 2,5

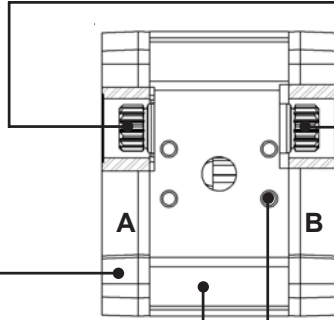
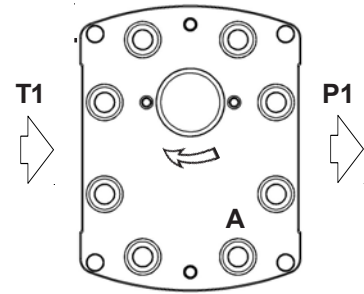


Series 1

Direction of Rotation 2  
Drive on Face B



Direction of Rotation 1  
Drive onr Face A



SHAFT SEAL  
N Nitrile  
V Viton

SHAFT CODE

- C24 Series 1
- C05 Series 2 and 2,5
- C25 Series 2,6
- C14 Series 3

PUMP P

DIRECTION of ROTATION 4  
(Explanation see F.T.R 0149)

INTERFACE (Module) CJN

33 SPLINNED SHAFT

J INTERFACE

PORT LOCATION

- H Implantation HPI
- C Square location
- F Threaded ports
- Y ISO location (Norm 6162)
- S SAE location (Norm J518c)
- B Italian location
- U SAE threaded location (Norm J475)

TYPE of the SERIES

- Series 1
- Series 2
- Series 2,5
- Series 2,6
- Series 3

CAPACITY in the SERIES (cc / rev)

- (00)1 - (00)2 - (00)3 - (00)4 - (00)5 - (00)6
- (00)4 - (00)6 - (00)8 - (0)10 - (0)12 - (0)14 - (0)15 - (0)17 - (0)18 - (0)22 - (0)26 - (0)30
- 12 - 15 - 17 - 18 - 22
- 20 - 25 - 27 - 30 - 35 - 40 - 50
- (0)20 - (0)25 - (0)31 - (0)40 - (0)50 - (0)60 - (0)71 - (0)80 - (0)90 - 100

Prefix(s) 0 - Only for conformity of the Codification

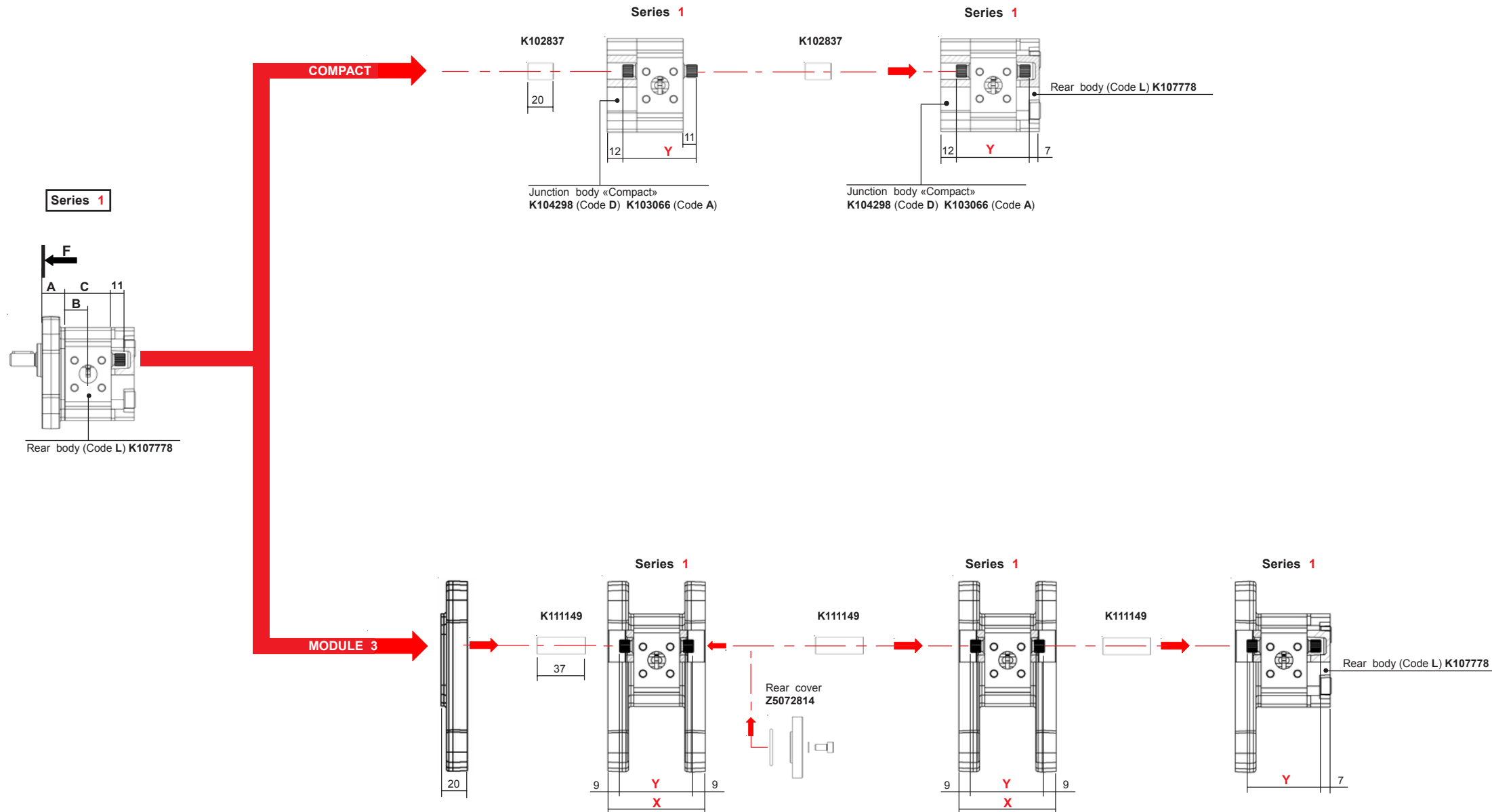
Consult us for availability

Dimension readings and approximative characteristics subject to modifications

F.T.R 0146



Dimensions readings and approximative characteristics subject to modifications.



|                 |    |
|-----------------|----|
| Flat front body | A  |
| AAN / AAK - BAN | 18 |
| CBN / CBK       |    |
| DCN / DCK       |    |

|              |      |      |      |      |
|--------------|------|------|------|------|
| Capacity     | B    | C    | X    | Y    |
| 1001 to 1003 | 17,9 | 35,8 | 75,8 | 57,8 |
| 1004 to 1006 | 22,7 | 45,6 | 85,6 | 67,6 |

Driving shaft

**33 C24**

Involute spline to shaft  
10 x 18 x 0,5  
to Norm NF E 22 141 - BNA 455

Maxi transmissible torque: 25 N.m

**FIXING SCREWS**

|   |                  |
|---|------------------|
| For CONNECTIONS between                   | References       |
| Module 3 - Series 1 - Module 3 - Series 1 | <b>E.5074536</b> |

| Model | Capacity | Maxi pressure in bar |
|-------|----------|----------------------|
| 1001  | 1,02     | 300                  |
| 1002  | 2,05     | 300                  |
| 1003  | 3,07     | 300                  |
| 1004  | 4,09     | 250                  |
| 1005  | 5,12     | 200                  |
| 1006  | 6,14     | 200                  |

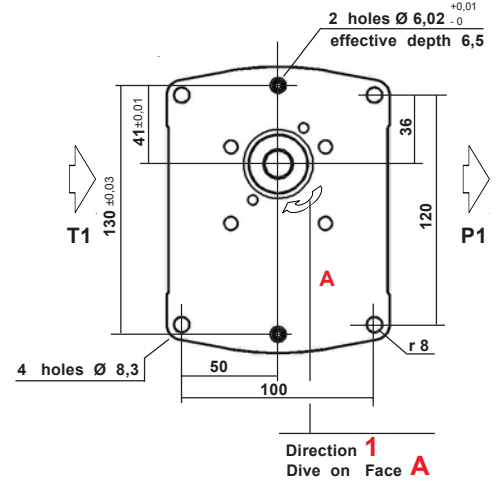
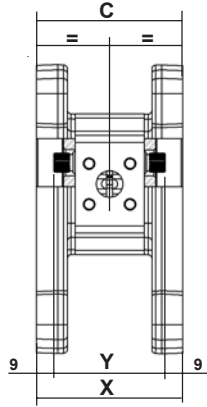
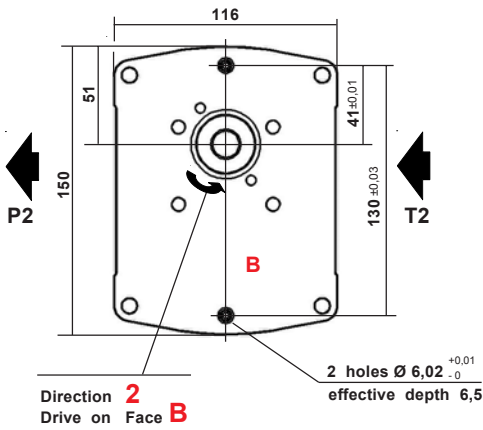
F.T 10 1352 1/3

Consult us for availability



**P** **II** **CJ** **N** **1** **VI** **C** **L** **3** **3** **C24** **XII**  
Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign

For CODIFICATION, see data sheet **F.T R 0146**



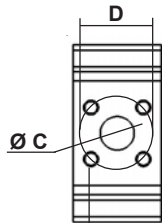
Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity    | Dimensions |      |      |
|---------------------------|------------|------|------|
|                           | C          | Y    | X    |
| <b>1001 - 1002 - 1003</b> | 35,8       | 57,8 | 75,8 |
| <b>1004 - 1005 - 1006</b> | 45,6       | 67,6 | 85,6 |

**Seals kits:**  
Nitrile: **K5074104**  
Viton: **K5074105**  
(For manufacture to since October 1994)

**CHOICE of IMPLANTATION of PORTS and of RECOMMENDED FLANGES**

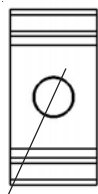
**C**  
(Square)



Ø F  
effective depth G

**F**

(Threaded)



Ø F  
effective depth G

| Capacity            | INLET (T)           |    |    |          |    | OUTLET (P) |    |    |          |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |   |
|---------------------|---------------------|----|----|----------|----|------------|----|----|----------|----|--|---|
|                     | ØC                  | D  | E  | ØF       | G  | ØC         | D  | E  | ØF       | G  | INLET (T)  | OUTLET (P)                                |
|                     | <b>1001 to 1003</b> | 14 | 30 |          | M6 | 13         | 14 | 30 |          | M6 | 13   | 1 / 4 " BSP<br>N: 1.500292<br>V: 1.504770 |
| <b>1004 to 1006</b> |                     |    |    |          |    |            |    |    |          |    | 3 / 8 " BSP<br>N: 1.500293<br>V: 1.505027                                    | 1 / 4 " BSP<br>N: 1.500292<br>V: 1.504770 |
| <b>1001 to 1003</b> |                     |    |    | 3/8" BSP | 11 |            |    |    | 3/8" BSP | 12 |  |   |
| <b>1004 to 1006</b> |                     |    |    | 1/2" BSP | 14 |            |    |    | 3/8" BSP | 12 |  |   |

**F.T 10 1352 2/3**

**DRIVING SHAFT**

Straight keyed

**10**

Tightening torque

**20**

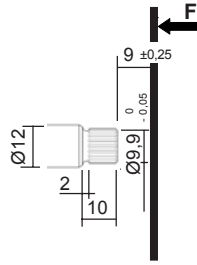
Splined

**30**

Tang

**40**

**C24**



Involute spline shaft  
10 x 18 x 0,5  
to Norm NF E 22 141 - BNA 455

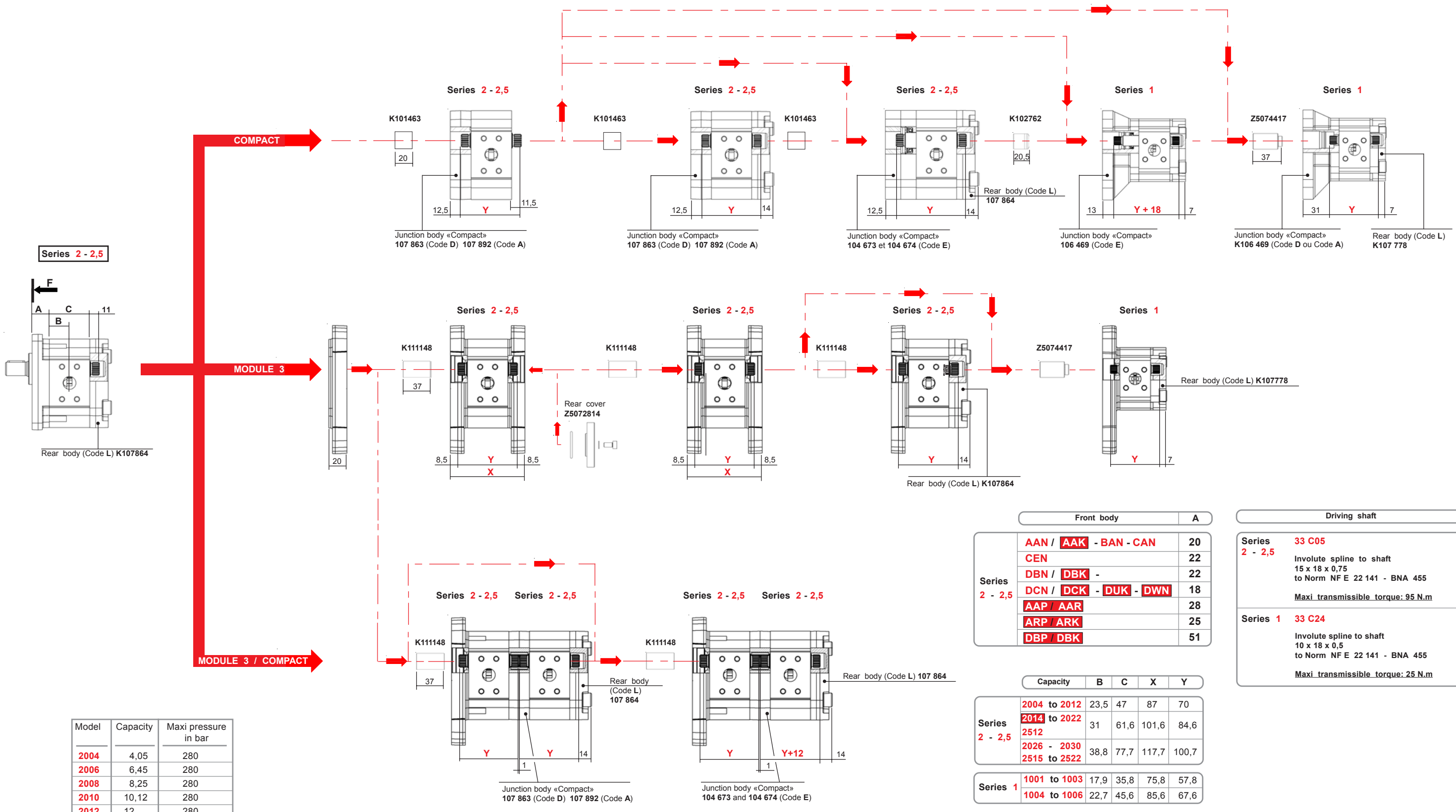
Maxi transmissible torque

**25 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 10 1352 3/3**

Dimensions readings and approximative characteristics subject to modifications.



| Model | Capacity | Maxi pressure in bar |
|-------|----------|----------------------|
| 2004  | 4,05     | 280                  |
| 2006  | 6,45     | 280                  |
| 2008  | 8,25     | 280                  |
| 2010  | 10,12    | 280                  |
| 2012  | 12       | 280                  |
| 2014  | 13,8     | 250                  |
| 2015  | 15,52    | 250                  |
| 2017  | 17,3     | 200                  |
| 2018  | 19,12    | 200                  |
| 2022  | 22,87    | 175                  |
| 2026  | 27,6     | 175                  |
| 2030  | 31,2     | 175                  |
| 2512  | 12       | 300                  |
| 2515  | 15,52    | 280                  |
| 2517  | 17,3     | 250                  |
| 2518  | 19,12    | 250                  |
| 2522  | 22,87    | 225                  |

| Model | Capacity | Maxi pressure in bar |
|-------|----------|----------------------|
| 1001  | 1,02     | 300                  |
| 1002  | 2,05     | 300                  |
| 1003  | 3,07     | 300                  |
| 1004  | 4,09     | 250                  |
| 1005  | 5,12     | 200                  |
| 1006  | 6,14     | 200                  |

**FIXING SCREWS**

| For CONNECTIONS between                               | References |
|---|------------|
| Module 3 - Series 2 & 2,5 - Module 3 - Series 2 & 2,5 | E.5074536  |
| Module 3 - Series 2 & 2,5 - Module 3 - Series 1       | E.5074536  |
| Module 3 - Series 1 - Module 3 - Series 1             | E.5074536  |

| Series         | Front body            | A  |
|----------------|-----------------------|----|
| Series 2 - 2,5 | AAK / AAK - BAN - CAN | 20 |
|                | CEN                   | 22 |
|                | DBN / DBK -           | 22 |
|                | DCN / DCK - DUK - DWN | 18 |
|                | AAP / AAR             | 28 |
| ARP / ARK      | 25                    |    |
| DBP / DBK      | 51                    |    |

| Series         | Capacity     | B    | C    | X     | Y     |
|----------------|--------------|------|------|-------|-------|
| Series 2 - 2,5 | 2004 to 2012 | 23,5 | 47   | 87    | 70    |
|                | 2014 to 2022 | 31   | 61,6 | 101,6 | 84,6  |
|                | 2512         |      |      |       |       |
|                | 2026 - 2030  | 38,8 | 77,7 | 117,7 | 100,7 |
|                | 2515 to 2522 |      |      |       |       |
| Series 1       | 1001 to 1003 | 17,9 | 35,8 | 75,8  | 57,8  |
|                | 1004 to 1006 | 22,7 | 45,6 | 85,6  | 67,6  |

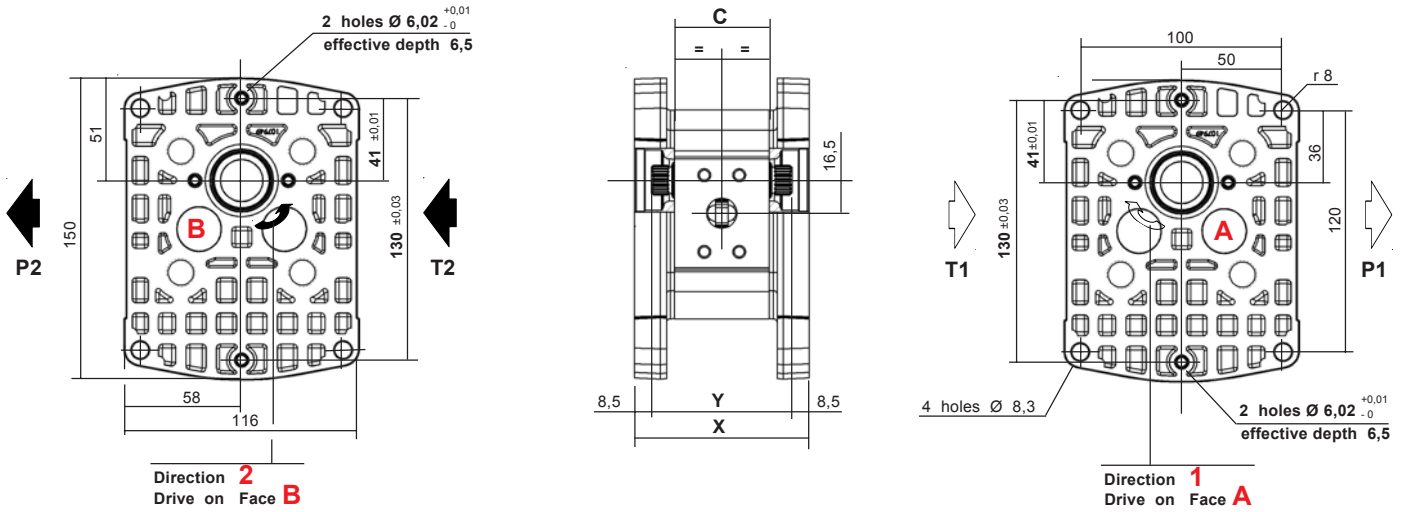
| Series         | Driving shaft  |
|----------------|--|
| Series 2 - 2,5 | <b>33 C05</b><br>Involute spline to shaft<br>15 x 18 x 0,75<br>to Norm NFE 22 141 - BNA 455<br>Maxi transmissible torque: 95 N.m |
| Series 1       | <b>33 C24</b><br>Involute spline to shaft<br>10 x 18 x 0,5<br>to Norm NFE 22 141 - BNA 455<br>Maxi transmissible torque: 25 N.m  |

POSSIBLES COMPOSITION of the «COMPACT» PUMPS : Series 1 see F.T 10 1298 Page 072 / 00  
 POSSIBLES COMPOSITION of the «COMPACT» PUMPS «MODULE 3» : Series 1 see F.T 10 1352 Page 393 / 00



**P** II Sign **CJ** **N** **2** VI Sign **HL** **3** **3** **C05** XII Sign

For CODIFICATION, see data sheet **F.T R 0146**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity                      | Dimensions |       |       |
|---|------------|-------|-------|
|   | C          | Y     | X     |
| 2004 - 2006 - 2008<br>2010 - 2012           | 47         | 70    | 87    |
| 2014 - 2015 - 2017<br>2018 - 2022<br>2512   | 61,6       | 84,6  | 101,6 |
| 2026 - 2030 -<br>2515 - 2517 - 2518<br>2522 | 77,7       | 100,7 | 117,7 |

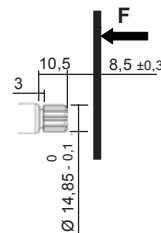
**Seals kits:**  
Nitrile: **K5074065**  
Viton: **K5074066**  
(For manufacture to since December 1993)

Consult us for availability

**CHOICE of the DRIVING SHAFT**

| Tapered   | Straight keyed | Splined   | Tang      |
|-----------|----------------|-----------|-----------|
| <b>10</b> | <b>20</b>      | <b>30</b> | <b>40</b> |

**C05**



Involute spline shaft  
15 x 18 x 0,75  
to Norm NF E 22 141 - BNA 455

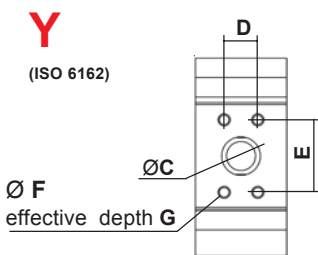
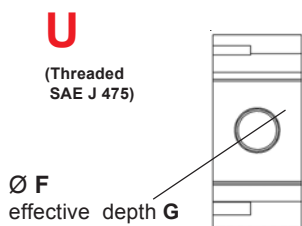
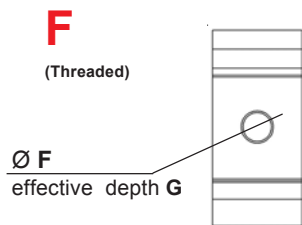
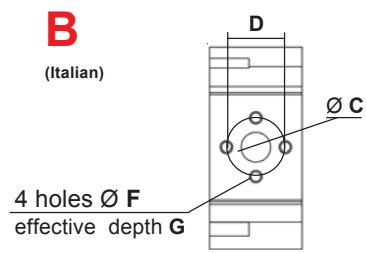
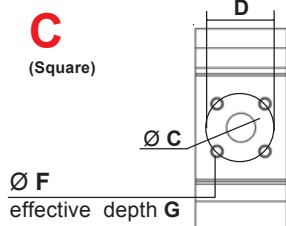
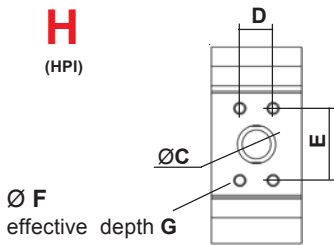
Maxi transmissible torque

**9,5 N.m**

**F.T 20 1353 2/3**

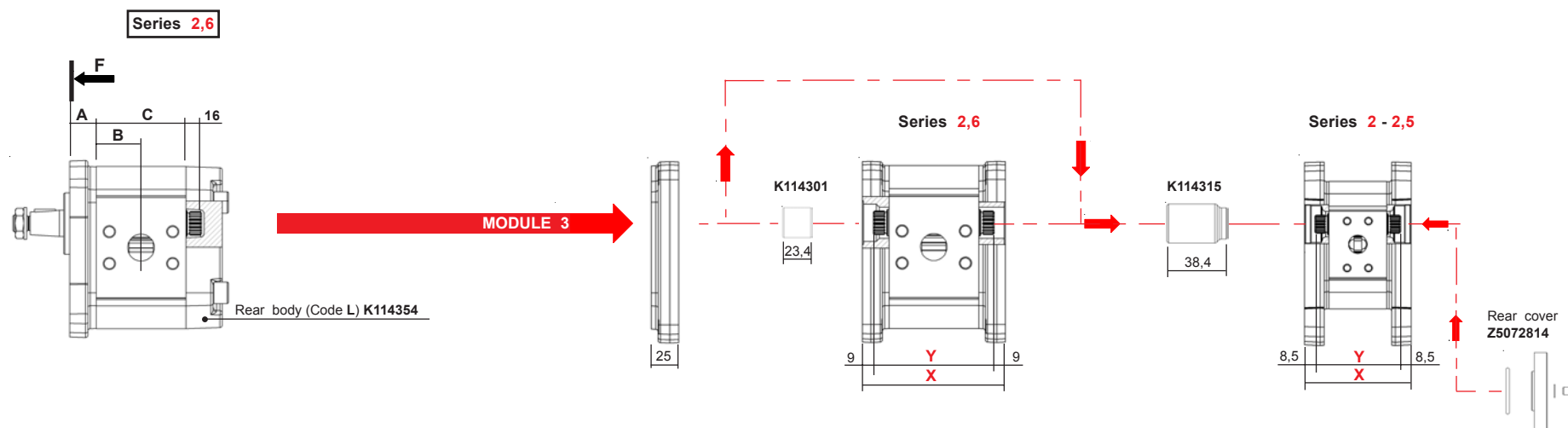
CHOICE of the IMPLANTATION of PORTS and RECOMMENDED FLANGES

Dimensions readings and approximative characteristics subject to modifications.



| Capacity                                     | INLET (T)                                    |      |      |                           |    | OUTLET (P) |      |      |                           |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |
|--|--|------|------|---------------------------|----|------------|------|------|---------------------------|----|--|--|
|  | ØC   | D    | E    | ØF                        | G  | ØC         | D    | E    | ØF                        | G  | INLET (T)  | OUTLET (P)   |
|  | 2004 to 2012<br>2014 to 2030<br>2512 to 2522 | 20   | 17,4 | 38                        | M6 | 12         | 15   | 17,4 | 38                        | M6 | 15   | 1 / 2 " BSP<br>N: 2.500055<br>V: 2.504126                        |
| 2004 to 2012<br>2014 to 2030<br>2512 to 2522 | 20   | 40   |      | M6                        | 12 | 15         | 35   |      | M6                        | 12 | 1 / 2 " BSP<br>N: 367141.502   | 3 / 8 " BSP<br>N: 367141.702                                     |
| 2004 to 2012<br>2014 to 2030<br>2512 to 2522 | 15   | 30   |      | M6                        | 13 | 15         | 30   |      | M6                        | 13 | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |
| 2004 to 2012<br>2014 to 2030<br>2512 to 2522 | 20   | 40   |      | M6                        | 13 | 15         | 30   |      | M6                        | 13 | 1 / 2 " BSP<br>N: X.367508.101<br>3 / 4 " BSP<br>N: X.367508.102             | 3 / 8 " BSP<br>N: X.367508.201<br>1 / 2 " BSP<br>N: X.367508.202 |
| 2004 to 2012<br>2014 to 2030<br>2512 to 2522 |  |      |      | 3/4" BSP                  | 16 |            |      |      | 3/8" BSP                  | 12 |  |  |
| 2004 to 2012<br>2014 to 2030<br>2512 to 2522 |  |      |      | 1" BSP                    | 18 |            |      |      | 1/2" BSP                  | 14 |  |  |
| 2004 to 2012<br>2014 to 2022<br>2512         |  |      |      | 1"1/16<br>12<br>UNF<br>2B | 20 |            |      |      | 7/8"<br>14<br>UNF<br>2B   | 17 |  |  |
| 2026-2030<br>2515 to 2522                    |  |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |      | 7/8"<br>14<br>UNF<br>2B   | 17 |  |  |
| 2026-2030<br>2515 to 2522                    |  |      |      | 1"5/16<br>12<br>UNF<br>2B | 20 |            |      |      | 1"1/16<br>12<br>UNF<br>2B | 20 |  |  |
| 2004 to 2012<br>2014 to 2022<br>2512         | 20   | 17,4 | 38   | M8                        | 14 | 15         | 17,4 | 38   | M8                        | 14 |  |  |
| 2026-2030<br>2515 to 2522                    | 26   | 47,6 | 22,4 | M10                       | 14 | 15         | 17,4 | 38   | M8                        | 14 |  |  |
| 2026-2030<br>2515 to 2522                    | 26   | 52,4 | 26,2 | M10                       | 14 | 15         | 17,4 | 38   | M8                        | 14 |  |  |

Consult us for availability



Dimensions readings and approximative characteristics subject to modifications.

| Front body |                                      | A  |
|------------|--------------------------------------|----|
| Series 2,6 | <b>AAN / AAK</b><br><b>BAN - CBN</b> | 22 |

| Series 2,6 | Capacity | B    | C     | X     | Y     |
|------------|----------|------|-------|-------|-------|
|            | 2620     | 37   | 74,1  | 118,2 | 100,2 |
| 2625       | 39,3     | 78,6 | 122,7 | 104,7 |       |
| 2627       | 41       | 82   | 126,1 | 108,1 |       |
| 2630       | 42,5     | 85,1 | 129,2 | 111,2 |       |
| 2635       | 44,5     | 89,1 | 133,2 | 115,2 |       |
| 2640       | 47,3     | 94,6 | 138,7 | 120,7 |       |

|                |                             |      |      |       |       |
|----------------|-----------------------------|------|------|-------|-------|
| Series 2 - 2,5 | 2004 to 2012                | 23,5 | 47   | 87    | 70    |
|                | 2014 to 2022                | 31   | 61,6 | 101,6 | 84,6  |
|                | 2512                        |      |      |       |       |
|                | 2026 - 2030<br>2515 to 2522 | 38,8 | 77,7 | 117,7 | 100,7 |

|          |              |      |      |      |      |
|----------|--------------|------|------|------|------|
| Series 1 | 1001 to 1003 | 17,9 | 35,8 | 75,8 | 57,8 |
|          | 1004 to 1006 | 22,7 | 45,6 | 85,6 | 67,6 |

| Driving shaft  |   |
|----------------|---|
| Series 2,6     | <b>33 C25</b><br>Involute spline shaft<br>20 x 18 x 1<br>to Norm NF E 22 141 - BNA 455<br>Spigot on free flanks<br>Maxi transmissible torque: 250 N.m   |
| Series 2 - 2,5 | <b>33 C05</b><br>Involute spline shaft<br>15 x 18 x 0,75<br>to Norm NF E 22 141 - BNA 455<br>Spigot on free flanks<br>Maxi transmissible torque: 95 N.m |
| Series 1       | <b>33 C24</b><br>Involute spline shaft<br>10 x 18 x 0,5<br>to Norm NF E 22 141 - BNA 455<br>Maxi transmissible torque: 25 N.m                           |

POSSIBLES COMPOSITION of the «COMPACT» PUMPS :  
Series 1 see F.T 10 1298 Page 072 / 00  
Series 2 / 2,5 see F.T 20 1306 Page 175 / 00

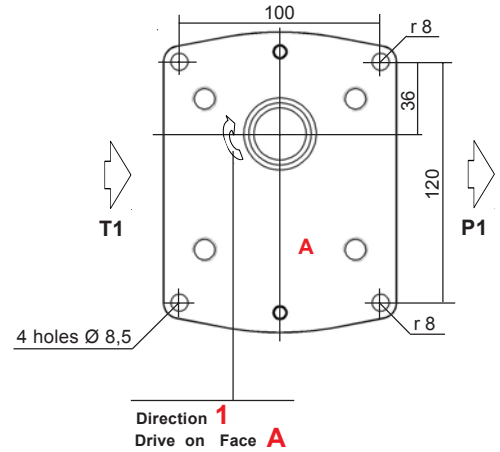
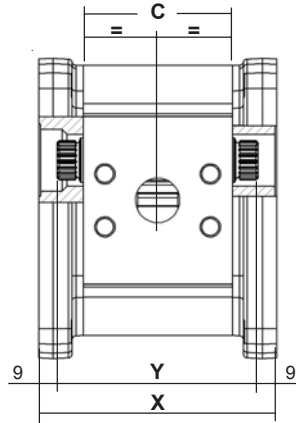
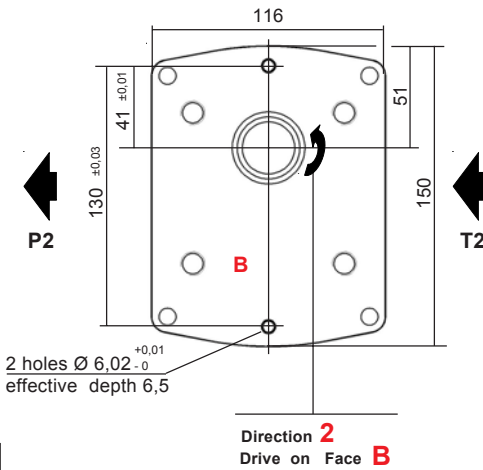
POSSIBLES COMPOSITION of the «COMPACT» PUMPS «MODULE 3» :  
Series 1 see F.T 10 1352 Page 393 / 00  
Series 2 / 2,5 see F.T 20 1353 Page 397 / 00

Consult us for availability



**P 4 C J N 26** VI Sign **Y L 3 3 C25** XII Sign

For CODIFICATION, see data sheet **F.T R 0146**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |       |       |
|------------------------|------------|-------|-------|
|                        | C          | Y     | X     |
| <b>2620</b>            | 74,1       | 100,2 | 118,2 |
| <b>2625</b>            | 78,6       | 104,7 | 122,7 |
| <b>2627</b>            | 82         | 108,1 | 126,1 |
| <b>2630</b>            | 85,1       | 111,2 | 129,2 |
| <b>2635</b>            | 89,1       | 115,2 | 133,2 |
| <b>2640</b>            | 94,6       | 120,7 | 138,7 |
| <b>2650</b>            |            |       |       |

**Seals kits:**

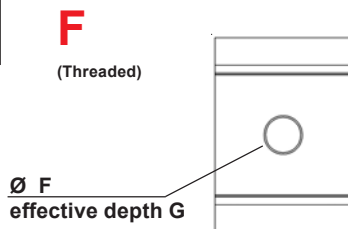
Nitrile: **K5093203**

Viton: **K5093204**

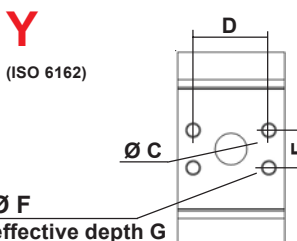
(For manufacture to since 2002)

**Consult us for availability**

**CHOICE of the IMPLANTATION of PORTS and RECOMMENDED FLANGES**



| Capacity                          | INLET (T) |      |      |                  |    | OUTLET (P) |      |      |             |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |                         |
|-----------------------------------|-----------|------|------|------------------|----|------------|------|------|-------------|----|--|-------------------------|
|                                   | ØC        | D    | E    | ØF               | G  | ØC         | D    | E    | ØF          | G  | INLET (T)  | OUTLET (P)              |
| <b>2620</b><br>bis<br><b>2627</b> |           |      |      | 1"<br>BSP        | 19 |            |      |      |             |    |  |                         |
| <b>2630</b><br>-<br><b>2635</b>   |           |      |      | 1"<br>1/4<br>BSP | 21 |            |      |      | 3/4"<br>BSP | 16 |  |                         |
| <b>2640</b>                       |           |      |      | 1"<br>1/4<br>BSP | 21 |            |      |      |             |    |  |                         |
| <b>2620</b><br>bis<br><b>2627</b> | 25        | 52,4 | 26,2 | M8               | 14 |            |      |      |             |    | 1" BSP<br>N: 368557.002  |                         |
| <b>2630</b><br>-<br><b>2635</b>   | 30        | 58,7 | 30,2 | M10              | 14 | 22         | 52,4 | 26,2 | M10         | 14 |  | 1" BSP<br>N: 368557.002 |
| <b>2640</b>                       | 32        | 58,7 | 30,2 | M10              | 14 |            |      |      |             |    | 1" 1/4 BSP<br>N: 368557.003  |                         |



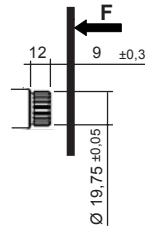
**F.T 26 1354 2/3**



**CHOICE of the DRIVING SHAFT**

| Tapered   | Straight keyed | Splinned  | Tang      |
|-----------|----------------|-----------|-----------|
| <b>10</b> | <b>20</b>      | <b>30</b> | <b>40</b> |

**C25**



Involute spline shaft  
20 x 18 x 1  
to Norm NF E 22 141

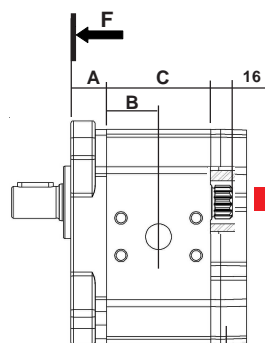
Maxi transmissible torque  
**25 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 26 1354 3/3**

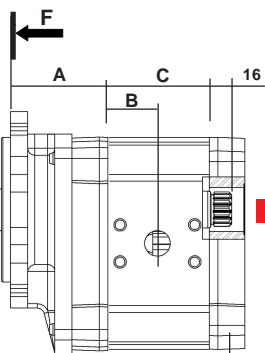
Series 3

Flat front bodies



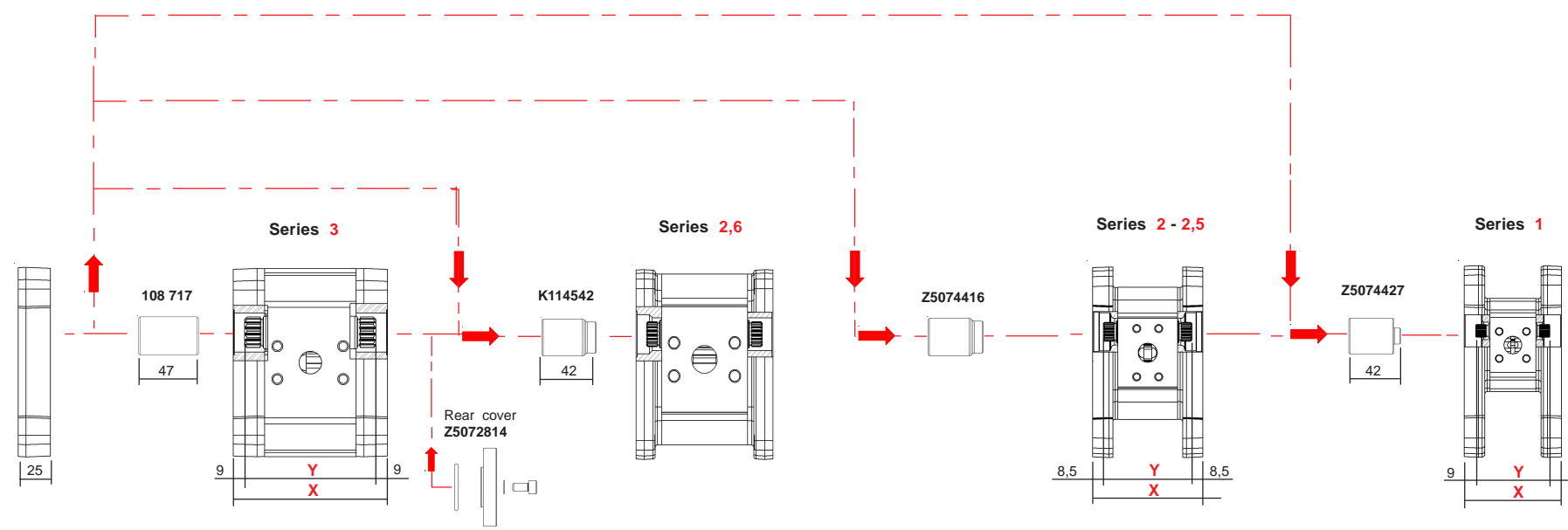
Rear body (Code L) 107 963

Thick front bodies



Rear body (Code L) 107 963

MODULE 3



| Model | Capacity | Maxi pressure in bar |
|-------|----------|----------------------|
| 3020  | 21,1     | 275                  |
| 3025  | 25,8     | 275                  |
| 3031  | 32,1     | 275                  |
| 3040  | 41,5     | 275                  |
| 3050  | 51,65    | 250                  |
| 3060  | 62,6     | 225                  |
| 3071  | 73,55    | 225                  |
| 3080  | 82,95    | 200                  |
| 3090  | 92,95    | 150                  |
| 3100  | 103,9    | 150                  |

| Model | Capacity | Maxi pressure in bar |
|-------|----------|----------------------|
| 1001  | 1,02     | 300                  |
| 1002  | 2,05     | 300                  |
| 1003  | 3,07     | 300                  |
| 1004  | 4,09     | 250                  |
| 1005  | 5,12     | 200                  |
| 1006  | 6,14     | 200                  |

FIXING SCREWS

| For CONNECTIONS between                               | References |
|---|------------|
| CPJ 3 - Module 3 - Series 3                           | E.5074176  |
| CPJ 3 - Module 3 - Series 2 & 2,5                     | E.5074497  |
| CPJ 3 - Module 3 - Series 1                           | E.5074497  |
| Module 3 - Series 3 - Module 3 - Series 3             | E.5073867  |
| Module 3 - Series 3 - Module 3 - Series 2 & 2,5       | E.5073867  |
| Module 3 - Series 3 - Module 3 - Series 1             | E.5073867  |
| Module 3 - Series 2 & 2,5 - Module 3 - Series 2 & 2,5 | E.5074536  |
| Module 3 - Series 2 & 2,5 - Module 3 - Series 1       | E.5074536  |
| Module 3 - Series 1 - Module 3 - Series 1             | E.5074536  |

POSSIBLES COMPOSITION of the «COMPACT» PUMPS :

Series 1 see F.T 10 1298 Page 072 / 00  
 Series 2 / 2,5 see F.T 20 1306 Page 175 / 00  
 Series 2,6 see F.T 26 1318 Page 304 / 00

POSSIBLES COMPOSITION of the «COMPACT» PUMPS «MODULE 3» :

Series 1 see F.T 10 1352 Page 393 / 00  
 Series 2 / 2,5 see F.T 20 1353 Page 397 / 00  
 Series 2,6 see F.T 26 1354 Page 401 / 00

| Front body  | A  |
|---|----|
| Series 3 AAN / AAK - BAN<br>CBN / CBK - DBN / DBK           | 25 |
| AAP / AEP - AAR / AER<br>ABP / ABR - ADP / ADR<br>ADX / ADZ | 68 |
| ZFC   | 72 |

| Capacity              | B    | C     | X     | Y     |
|-----------------------|------|-------|-------|-------|
| Series 3 3020 to 3040 | 36,3 | 72,7  | 122,7 | 104,7 |
| 3050 3060             | 49,5 | 99,2  | 149,2 | 131,2 |
| 3071 to 3100          | 59,2 | 119,2 | 169,2 | 151,2 |

|                 |      |      |       |       |
|-----------------|------|------|-------|-------|
| Series 2,6 2620 | 37   | 74,1 | 118,2 | 100,2 |
| 2625            | 39,3 | 78,6 | 122,7 | 104,7 |
| 2627            | 41   | 82   | 126,1 | 108,1 |
| 2630            | 42,5 | 85,1 | 129,2 | 111,2 |
| 2635            | 44,5 | 89,1 | 133,2 | 115,2 |
| 2640            | 47,3 | 94,6 | 138,7 | 120,7 |
| 2650            |      |      |       |       |

|                             |      |      |       |       |
|-----------------------------|------|------|-------|-------|
| Series 2 - 2,5 2004 to 2012 | 23,5 | 47   | 87    | 70    |
| 2014 to 2022                |      |      |       |       |
| 2512                        | 31   | 61,6 | 101,6 | 84,6  |
| 2026 - 2030                 |      |      |       |       |
| 2515 to 2522                | 38,8 | 77,7 | 117,7 | 100,7 |

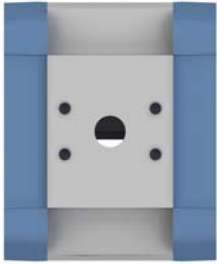
|                       |      |      |      |      |
|-----------------------|------|------|------|------|
| Series 1 1001 to 1003 | 17,9 | 35,8 | 75,8 | 57,8 |
| 1004 to 1006          | 22,7 | 45,6 | 85,6 | 67,6 |

| Driving shaft         |   |
|-----------------------|---|
| Series 3 33 C14       | Involute spline shaft<br>25 x 13 x 1,667<br>to Norm NF E 22 141 - BNA 455<br>Maxi transmissible torque: 500 N.m                       |
| Series 2,6 33 C25     | Involute spline shaft<br>20 x 18 x 1<br>to Norm NF E 22 141 - BNA 455<br>Maxi transmissible torque: 250 N.m                           |
| Series 2 - 2,5 33 C05 | Involute spline shaft<br>15 x 18 x 0,75<br>to Norm NF E 22 141 - BNA 455<br>Maxi transmissible torque: 95 N.m                         |
| Series 1 33 C24       | Involute spline shaft<br>10 x 18 x 0,5<br>to Norm NF E 22 141 - BNA 455<br>Spigot on free flanks<br>Maxi transmissible torque: 25 N.m |

Consult us for availability

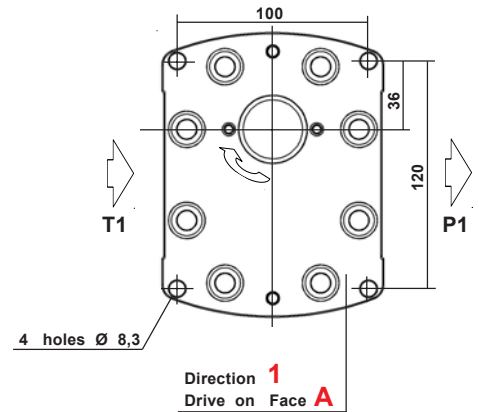
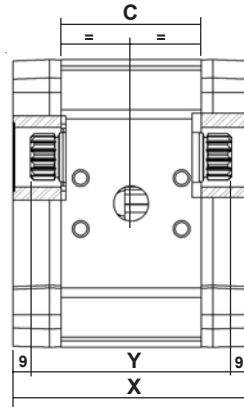
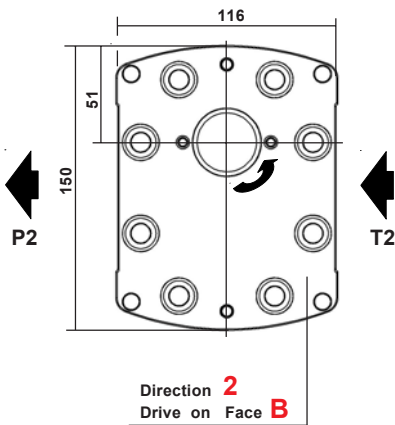
Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1355 1/3



**P 4 C J N 3** | VI Sign | **H L 3 3 C14** | XII Sign

For CODIFICATION, see data sheet **F.T.R 0146**



Dimensions readings and approximative characteristics subject to modifications.

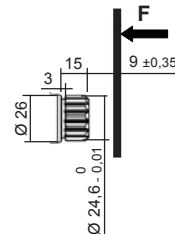
| CHOICE of the Capacity           | Dimensions |       |       |
|----------------------------------|------------|-------|-------|
|                                  | C          | Y     | X     |
| <b>3020 - 3025 - 3031 - 3040</b> | 72,7       | 104,7 | 122,7 |
| <b>3050 - 3060</b>               | 99,2       | 131,2 | 149,2 |
| <b>3071 - 3080 - 3090 - 3100</b> | 119,2      | 151,2 | 169,2 |

**Seals kits:**  
Nitrile: **K5074071**  
Viton: **K5074072**  
(For manufacture to since January 1993)

**CHOICE of the DRIVING SHAFT**

| Tapered   | Straight keyed | Splined   | Tang      |
|-----------|----------------|-----------|-----------|
| <b>10</b> | <b>20</b>      | <b>30</b> | <b>40</b> |

**C14**

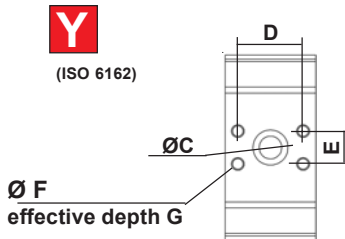
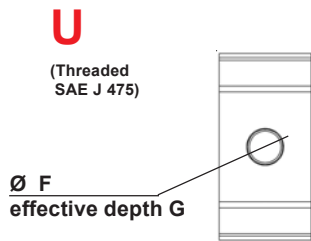
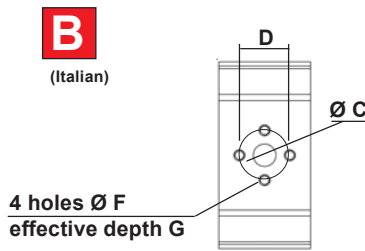
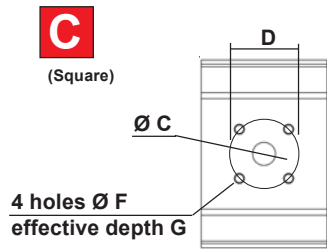
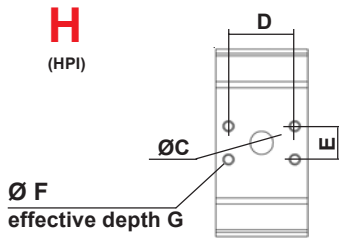


Involute spline shaft  
25 x 13 x 1,667  
to Norm NF E 22 141 - BNA 455

Maxi transmissible torque  
**500 N.m**

**F.T 30 1355 2/3**

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity     | INLET (T) |      |      |                 |    | OUTLET (P) |      |      |                 |    | CATALOGUE ° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |                         |                                      |                      |
|--------------|-----------|------|------|-----------------|----|------------|------|------|-----------------|----|---|-------------------------|--------------------------------------|----------------------|
|              | ØC        | D    | E    | ØF              | G  | ØC         | D    | E    | ØF              | G  | INLET (T)   |                         | OUTLET (P)                           |                      |
| 3020 to 3040 | 28        | 52,4 | 26,2 | M8              | 16 | 18         | 52,4 | 26,2 | M8              | 16 | 3020 1" N: 3.500072   | 3020 1/2" N: 3.500070   | 3025 BSP V: 3.505060                 | 3025 BSP V: 3.505058 |
| 3050 3060    | 42        | 35,6 | 69,8 | M8              | 16 | 22         | 52,4 | 26,2 | M8              | 16 | 1" 1/4 BSP<br>N: 3.500492<br>V: 3.505066                                    |                         | 1" BSP<br>N: 3.500072<br>V: 3.505060 |                      |
| 3071 to 3100 | 42        | 35,6 | 69,8 | M8              | 16 | 24         | 52,4 | 26,2 | M8              | 16 | 3071 1" 1/2 N: 3.500493   | 3071 1" N: 3.500072     | 3080 BSP V: 3.505067                 | 3080 BSP V: 3.505060 |
|              |           |      |      |                 |    |            |      |      |                 |    | 3090 1" 1/2 N: 3.500493   | 3090 1" 1/4 N: 3.500103 | 3100 BSP V: 3.505067                 | 3100 BSP V: 3.505061 |
| 3020 to 3040 |           |      |      |                 |    |            |      |      |                 |    |   |                         |                                      |                      |
| 3050 3060    | 28        | 55   |      | M8              | 17 | 18         | 55   |      | M8              | 17 |   |                         |                                      |                      |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |                         |                                      |                      |
| 3020 to 3040 | 27        | 51   |      | M10             | 17 | 18         | 40   |      | M8              | 17 |   |                         |                                      |                      |
| 3050 3060    |           |      |      |                 |    |            |      |      |                 |    |   |                         |                                      |                      |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |                         |                                      |                      |
| 3020 to 3040 |           |      |      | 1' 5/16 -12 UNF | 19 |            |      |      | 1' 1/16 -12 UNF | 19 |   |                         |                                      |                      |
| 3050 3060    |           |      |      | 1' 5/8 -12 UNF  | 19 |            |      |      | 1' 5/16 -12 UNF | 19 |   |                         |                                      |                      |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |                         |                                      |                      |
| 3020 to 3040 | 28        | 52,4 | 26,2 | M10             | 17 | 18         | 52,4 | 26,2 | M10             | 17 |   |                         |                                      |                      |
| 3050 3060    | 42        | 69,8 | 35,6 | M14             | 17 | 34         | 52,4 | 26,2 | M10             | 17 |   |                         |                                      |                      |
| 3071 to 3100 |           |      |      |                 |    |            |      |      |                 |    |   |                         |                                      |                      |

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1355 3/3

Consult us for availability

**PUMPS PRESENTATION**  
**SERIES 5**

- FLAT FRONT BODY



**F.T 50 1364**

PUMP

**BAN**



**F.T 50 1365**

- THICK FRONT BODIES

PUMP

**AAP**



**F.T 50 1408**

PUMP

**AAR**



**F.T 50 1407**

PUMP

**ADP**



**F.T 50 1416**



Consult us for availability

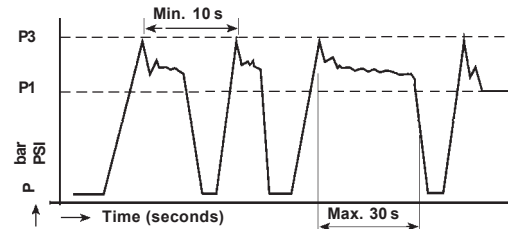
| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW           |                          | Input power (kW)<br>at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|------|-------------------|------------------------|--------------------------|---|---------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI  |                   | at 1500 RPM<br>l / min | at Maxi speed<br>l / min |   |                                 |                      |
| <b>5043</b> | 43,06                | 300            | 4350 | 255                  | 3700 | 3000              | 64,59                  | 129                      | 8,44  | 80,55                           | 14,2                 |
| <b>5052</b> | 52,91                | 300            | 4350 | 255                  | 3700 | 3000              | 79,36                  | 158,5                    | 10,37                                       | 98,97                           | 14,2                 |
| <b>5062</b> | 62,75                | 300            | 4350 | 255                  | 3700 | 3000              | 94,12                  | 188                      | 12,30                                       | 117,38                          | 14,4                 |
| <b>5072</b> | 72,59                | 300            | 4350 | 255                  | 3700 | 3000              | 108,88                 | 217,5                    | 14,23                                       | 135,79                          | 14,6                 |
| <b>5083</b> | 83,67                | 280            | 4060 | 240                  | 3480 | 2700              | 125,50                 | 226                      | 16,41                                       | 156,51                          | 15,1                 |
| <b>5093</b> | 93,51                | 250            | 3625 | 210                  | 3045 | 2700              | 140,26                 | 252,5                    | 18,34                                       | 174,92                          | 15,2                 |
| <b>5103</b> | 103,3                | 250            | 3625 | 210                  | 3045 | 2700              | 154,95                 | 279                      | 20,25                                       | 193,23                          | 15,2                 |
| <b>5125</b> | 125,5                | 250            | 3625 | 210                  | 3045 | 2600              | 188,25                 | 326                      | 24,61                                       | 234,76                          | 15,7                 |
| <b>5140</b> | 140,2                | 250            | 3625 | 210                  | 3045 | 2500              | 210,30                 | 350,5                    | 27,49                                       | 262,26                          | 15,7                 |
| <b>5153</b> | 153                  | 250            | 3625 | 210                  | 3045 | 2400              | 229,50                 | 367,5                    | 30  | 286,20                          | 16                   |

Dimensions readings and approximative characteristics subject to modifications.

The pump can only run in one way rotation (Precise the direction of rotation on order).  
 The working cycles hereunder are possible with hydraulic mineral oil for viscosities between 12 and 150 cSt (65,2 and 700 SUS).  
 The minimum viscosity of 12 cSt (65,2 SUS) is available for a maximum temperature in the hydraulic circuit .  
 Working temperature: - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C (284 °F) with Viton shaft seal).  
 Full flow filtration: 10 to 15 microns at the pressure port of the pump or on the return circuit.  
 Filtration on the suction side: 125 microns.  
 Pressure at the inlet of the pump:  
 - Minimum 0,7 bar absolute (Maxi depressure 300 millibar with regard to the air pressure).  
 - Maximum 2 bar absolute or 1 bar over the air pressure.  
 The hereabove characteristics concern the pumps driven by elastic couplings perfectly aligned without any external radial or axial force.  
 For any other coupling, see technical data sheet F.T R 0009.  
 For use at maximum working conditions and/or intensive cycles, thanks to consult our technical sales service for validation.

**P1** Maximum pressure in continuous duty.  
**P3** Allowable peack pressure.

Maximum Pressure ⇒

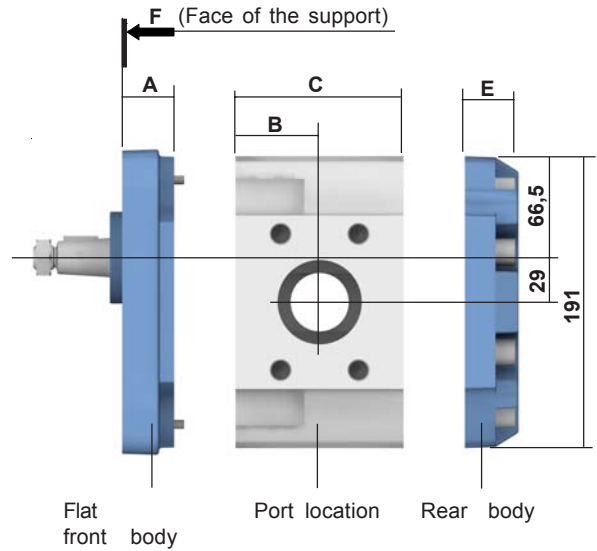


**FLAT FRONT BODY**

Front body: **A**  
**BAN** 34

| Port location (capacity): | B    | C     |
|---------------------------|------|-------|
| 5043 - 5052 - 5062 - 5072 | 54,7 | 109,7 |
| 5083 - 5093 - 5103 -      | 61   | 122,2 |
| 5125 - 5140 - 5153 -      | 71,6 | 143,2 |

Rear body: **E**  
**L** 35



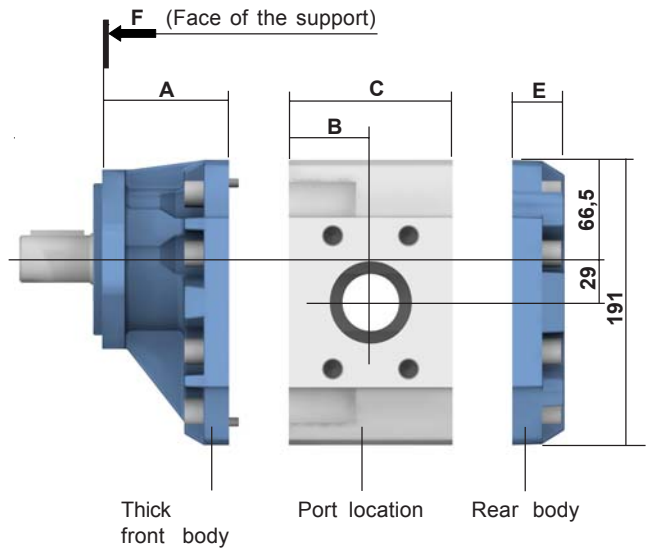
Dimensions readings and approximative characteristics subject to modifications.

**THICK FRONT BODY**

Front bodies: **A**  
**AAP / AAR**  
**ADP** 85

| Port location (capacity): | B    | C     |
|---------------------------|------|-------|
| 5043 - 5052 - 5062 - 5072 | 54,7 | 109,7 |
| 5083 - 5093 - 5103 -      | 61   | 122,2 |
| 5125 - 5140 - 5153 -      | 71,6 | 143,2 |

Rear body: **E**  
**L** 35



**F.T 35 1364 2/5**




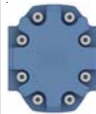


Consult us for availability

|          |         |          |         |          |         |          |           |         |        |         |          |
|----------|---------|----------|---------|----------|---------|----------|-----------|---------|--------|---------|----------|
| <b>P</b> | II Sign | III Sign | IV Sign | <b>5</b> | VI Sign | VII Sign | VIII Sign | IX Sign | X Sign | XI Sign | XII Sign |
|----------|---------|----------|---------|----------|---------|----------|-----------|---------|--------|---------|----------|


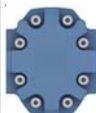
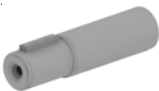


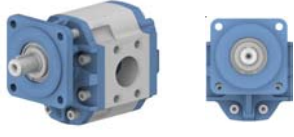
For CODIFICATION, see data sheet **F.T.R 0011**

| DIRECTION of ROTATION (II Sign)<br>P 1 P 2 | FRONT BODIES (III and IV Sign) | CAPACITY (V and VI Sign) | PORT LOCATION (VII Sign)<br>H | REAR BODY (VIII Sign)<br>L | DRIVING SHAFTS (IX, X and XI Sign) |                      |               |
|--|--------------------------------|--------------------------|-------------------------------|----------------------------|------------------------------------|----------------------|---------------|
|  |                                |                          |                               |                            | TAPERED<br>10                      | STRAIGHT KEYED<br>20 | SPLINED<br>30 |

FLAT FRONT BODY

|   |   |            |  |  |   |   |   |
|---|---|------------|--|--|---|---|---|
| X | X | <b>BAN</b> |  | 5043<br>5052<br>5062<br>5072<br>5083<br>5093<br>5103<br>5125<br>5140<br>5153 |   | <br>10 B05 | <br>20 C05 |
|---|---|------------|--|--|---|---|---|

THICK FRONT BODIES

|   |   |                  |   |  |   |   |   |   |  |
|---|---|------------------|---|--|---|---|---|---|--|
| X | X | <b>AAP / AAR</b> |   | 5043<br>5052<br>5062<br>5072<br>5083<br>5093<br>5103<br>5125<br>5140<br>5153 |   | <br>20 A05 | <br>30 A04 |   |  |
|   |   | <b>ADP</b>       |   |  |   |   |   |   |  |
|   |   | X                | X |  |   |   |   |  |  |
|   |   |                  |   |  |   |   |   |  |  |

Dimensions readings and approximative characteristics subject to modifications.

**F.T 35 1364 3/5**

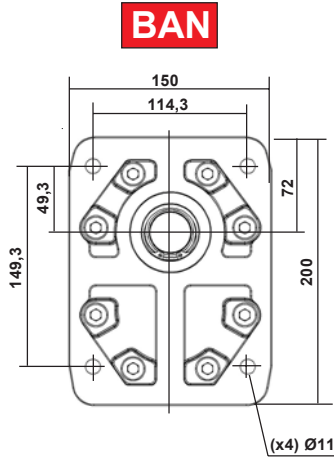
**LEGENDES**

|                                       |  |                      |                  |
|---------------------------------------|--|----------------------|------------------|
| <b>DIRECTION of ROTATION</b>          | <b>FRONT BODIES</b>  | <b>PORT LOCATION</b> | <b>REAR BODY</b> |
| P1 = Clockwise<br>P2 = Anti clockwise | BA* = Fixing English and Italian<br>AA*/AD* = Fixing SAE and ISO | H = HPI              | L = Standard     |

 Consult us for availability

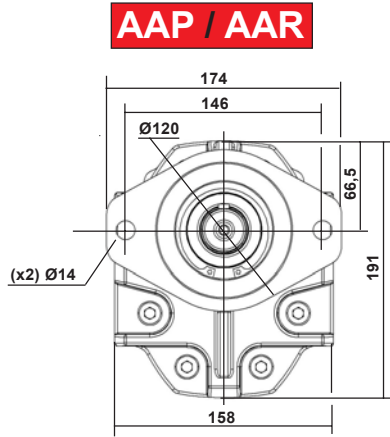


**FRONT BODIES**



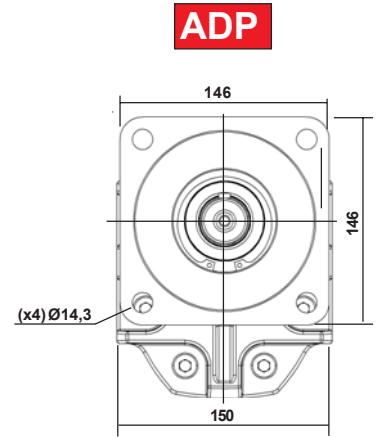
Centering:  $\varnothing 60,3^{+0.03}_{-0.06}$   
Thickness: 8

**BAN**: F.T 35 1365



Centering:  $\varnothing 101,6^{+0}_{-0.05}$   
Thickness: 6

**AAP**: F.T 35 1408  
**AAR**: F.T 35 1416

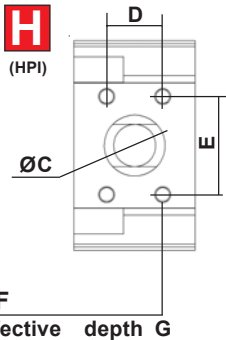


Centering:  $\varnothing 127^{+0}_{-0.05}$   
Thickness: 6

**ADP**: F.T 35 1416

Dimensions readings and approximative characteristics subject to modifications.

**CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES**



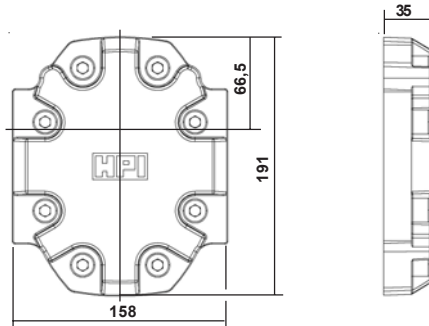
| Capacity            | INLET (T) |      |            |     |    | OUTLET (P) |      |      |     |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |  |
|---------------------|-----------|------|------------|-----|----|------------|------|------|-----|----|--|--|--|
|                     | ØC        | D    | E          | ØF  | G  | ØC         | D    | E    | ØF  | G  |  |  |  |
|                     | INLET (T) |      | OUTLET (P) |     |    |            |      |      |     |    |  |  |  |
| <b>5043 to 5072</b> | 55        | 50,8 | 89         | M14 | 25 | 38         | 35,6 | 69,8 | M14 | 25 | <b>5043</b>  | 1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397 | 3/4" BSP<br>N: 3.550022<br>V: 3.550392   |
|                     |           |      |            |     |    |            |      |      |     |    | <b>5052</b>  | 1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 | 1" BSP<br>N: 3.550023<br>V: 3.550393     |
|                     |           |      |            |     |    |            |      |      |     |    | <b>5072</b>  | 1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 | 1" BSP<br>N: 3.550023<br>V: 3.550393     |
| <b>5083 to 5153</b> | 65        | 50,8 | 89         | M14 | 25 | 38         | 35,6 | 69,8 | M14 | 25 | <b>5083</b>  | 1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 | 1" BSP<br>N: 3.550023<br>V: 3.550393     |
|                     |           |      |            |     |    |            |      |      |     |    | <b>5093</b>  | 1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 | 1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397 |
|                     |           |      |            |     |    |            |      |      |     |    | <b>5103</b>  | 2" BSP<br>N: 3.550028<br>V: 3.5510399    | 1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397 |
|                     |           |      |            |     |    |            |      |      |     |    | <b>5125</b>  | 2" 1/2 BSP<br>N: 3.550034<br>V: 3.550400 | 1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397 |
|                     |           |      |            |     |    |            |      |      |     |    | <b>5140</b>  | 2" 1/2 BSP<br>N: 3.550034<br>V: 3.550400 | 1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397 |

**F.T 35 1364 4/5**

**Consult us for availability**

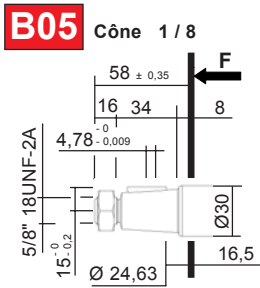
**REAR BODY**

**L** Standard

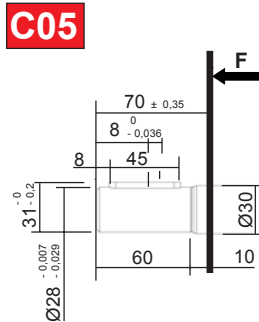


**DRIVING SHAFTS**

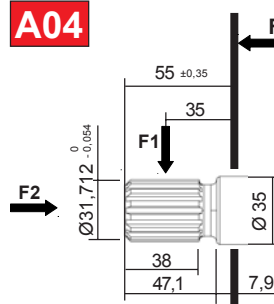
| Tapered<br><b>10</b> | Straight keyed<br><b>20</b> | Splined<br><b>30</b> | Tang<br><b>40</b> |
|----------------------|-----------------------------|----------------------|-------------------|
|----------------------|-----------------------------|----------------------|-------------------|



Maxi transmissible torque  
**800 N.m**



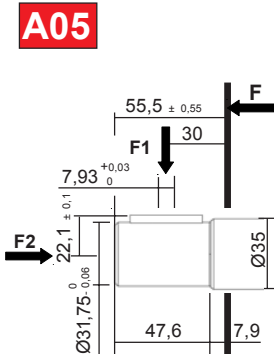
Maxi transmissible torque  
**400 N.m**



**F1 = 150 daN**  
**F2 = 50 daN**

Involute spline to SAE  
14 teeth - 1" 1/4  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
**690 N.m**



**F1 = 150 daN**  
**F2 = 50 daN**

Maxi transmissible torque  
**430 N.m**

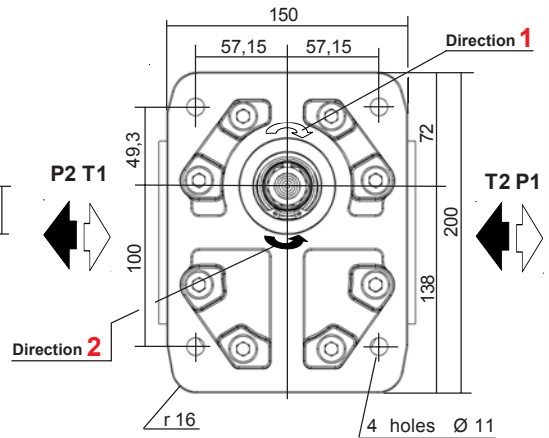
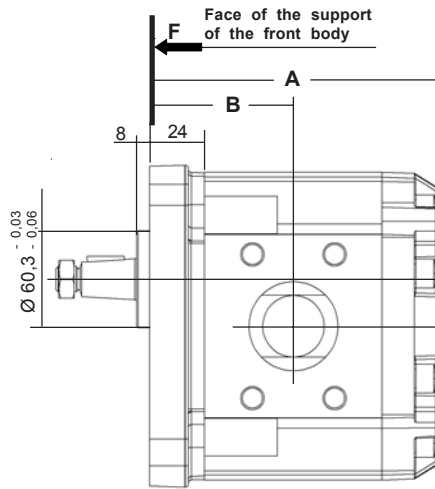
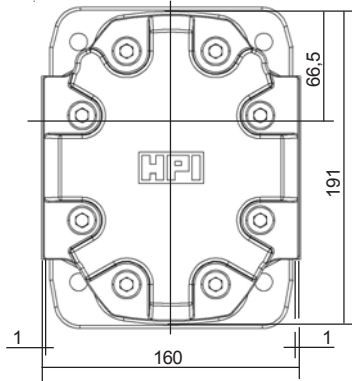
Dimensions readings and approximative characteristics subject to modifications.

**F.T 35 1364 5/5**

**Consult us for availability**

**P** **II** **BA** **N** **5** **VI** **HL** **IX** **X** **XI** **XII**  
Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign

For CODIFICATION, see data sheet **F.T.R 0011**



| CHOICE of the Capacity | Dimensions |       |
|------------------------|------------|-------|
|                        | A          | B     |
| 043 - 052 - 062 - 072  | 179        | 88,7  |
| 083 - 093 - 103        | 191        | 95    |
| 125 - 140 - 153        | 212,2      | 105,5 |

**Seal kits:**  
Nitrile: **K5502240**  
Viton: **K5502250**  
(For the manufacturings from september 1981)

| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW           |                          | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------|----------------------|----------------|------|----------------------|------|-------------------|------------------------|--------------------------|--|---------------------------------------|----------------------|
|       |                      | bar            | PSI  | bar                  | PSI  |                   | at 1500 RPM<br>l / min | at Maxi speed<br>l / min |  |                                       |                      |
| 5043  | 43,06                | 300            | 4350 | 255                  | 3700 | 3000              | 64,59                  | 129                      | 8,44   | 80,55                                 | 13,4                 |
| 5052  | 52,91                | 300            | 4350 | 255                  | 3700 | 3000              | 79,36                  | 158,5                    | 10,37  | 98,97                                 | 13,4                 |
| 5062  | 62,75                | 300            | 4350 | 255                  | 3700 | 3000              | 94,12                  | 188                      | 12,30  | 117,38                                | 13,6                 |
| 5072  | 72,59                | 300            | 4350 | 255                  | 3700 | 3000              | 108,88                 | 217,5                    | 14,23  | 135,79                                | 13,8                 |
| 5083  | 83,67                | 280            | 4060 | 240                  | 3480 | 2700              | 125,50                 | 226                      | 16,41  | 156,51                                | 14,3                 |
| 5093  | 93,51                | 250            | 3625 | 210                  | 3045 | 2700              | 140,26                 | 252,5                    | 18,34  | 174,92                                | 14,4                 |
| 5103  | 103,3                | 250            | 3625 | 210                  | 3045 | 2700              | 154,95                 | 279                      | 20,25  | 193,23                                | 14,4                 |
| 5125  | 125,5                | 250            | 3625 | 210                  | 3045 | 2600              | 188,25                 | 326                      | 24,61  | 234,76                                | 14,9                 |
| 5140  | 140,2                | 250            | 3625 | 210                  | 3045 | 2500              | 210,30                 | 350,5                    | 27,49  | 262,26                                | 14,9                 |
| 5153  | 153                  | 250            | 3625 | 210                  | 3045 | 2400              | 229,50                 | 367,5                    | 30   | 286,20                                | 15,2                 |

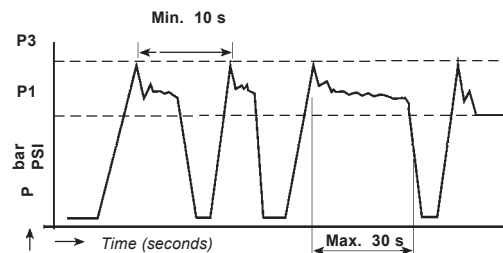
Dimensions readings and approximative characteristics subject to modifications.

**F.T 35 1365 1/2**

P1 Maximum pressure in continuous duty.

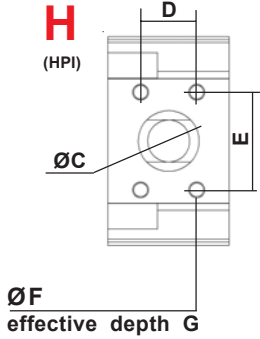
Maximum pressure ⇒

P3 Allowable peack pressure.



Consult us for availability

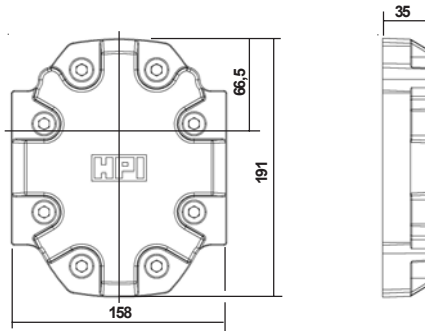
**CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES**



| Capacity           | INLET (T) |      |    |     |    | OUTLET (P) |      |      |     |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 RPM) |  |  |
|--------------------|-----------|------|----|-----|----|------------|------|------|-----|----|--|--|--|
|                    | ØC        | D    | E  | ØF  | G  | ØC         | D    | E    | ØF  | G  |  |  |  |
|                    |           |      |    |     |    |            |      |      |     |    | INLET (T)  | OUTLET (P)                               |  |
| 5043<br>to<br>5072 | 55        | 50,8 | 89 | M14 | 25 | 38         | 35,6 | 69,8 | M14 | 25 | 5043   | 1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397 | 3/4" BSP<br>N: 3.550022<br>V: 3.550392   |
|                    |           |      |    |     |    |            |      |      |     |    | 5052<br>5062   | 1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 | 1" BSP<br>N: 3.550023<br>V: 3.550393     |
|                    |           |      |    |     |    |            |      |      |     |    | 5072   | 1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 | 1" BSP<br>N: 3.550023<br>V: 3.550393     |
| 5083<br>to<br>5153 | 65        | 50,8 | 89 | M14 | 25 | 38         | 35,6 | 69,8 | M14 | 25 | 5083   | 1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 | 1" BSP<br>N: 3.550023<br>V: 3.550393     |
|                    |           |      |    |     |    |            |      |      |     |    | 5093<br>5103   | 1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 | 1" 1/4 Gaz<br>N: 3.550026<br>V: 3.550397 |
|                    |           |      |    |     |    |            |      |      |     |    | 5125<br>5140   | 2" BSP<br>N: 3.550028<br>V: 3.5510399    | 1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397 |
|                    |           |      |    |     |    |            |      |      |     |    | 5153   | 2" 1/2 BSP<br>N: 3.550034<br>V: 3.550400 | 1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397 |

**REAR BODY**

**L** Standard



**DRIVING SHAFT (FLAT FRONT BODY)**

**Tapered**

**10**

**Straight keyed**

**20**

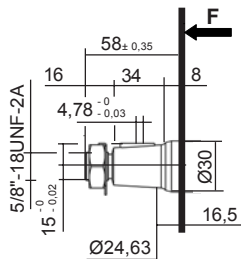
**Splined**

**30**

**Tang**

**40**

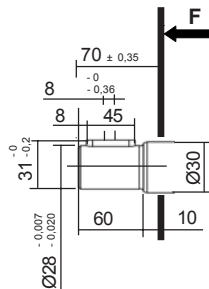
**B03** Cône 1 / 8



Delivered with Nut Ref.:K101877

Maxi transmissible torque  
**800 N.m**

**A02**

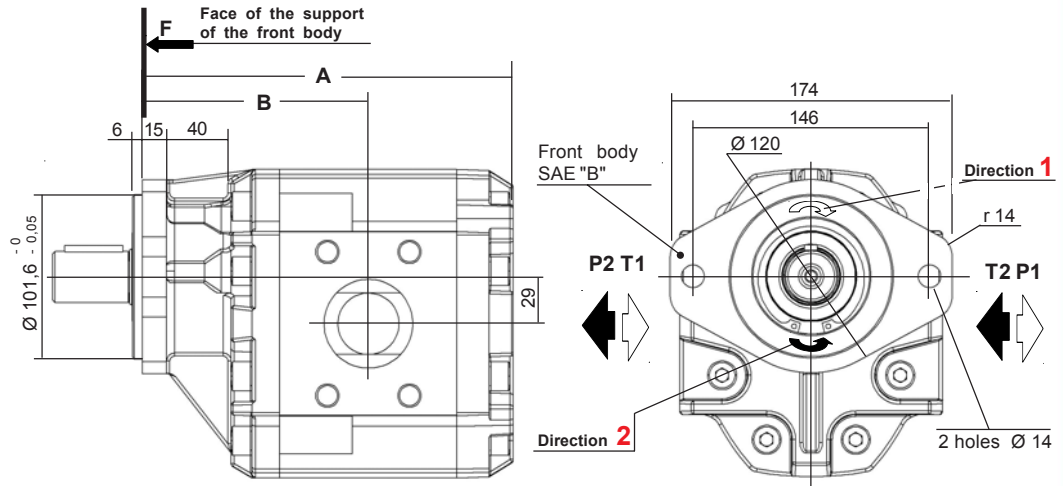
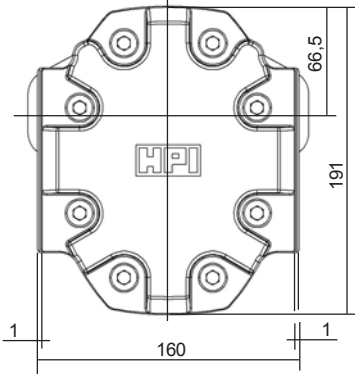


Maxi transmissible torque  
**400 N.m**

Consult us for availability

**P** **II Sign** **AA** **P** **5** **VI Sign** **HL** **IX Sign** **X Sign** **XI Sign** **XII Sign**

For CODIFICATION, see data sheet **F.T R 0011**



| CHOICE of the Capacity | Dimensions |       |
|------------------------|------------|-------|
|                        | A          | B     |
| 043 - 052 - 062 - 072  | 230        | 139,7 |
| 083 - 093 - 103        | 242        | 146   |
| 125 - 140 - 153        | 263,2      | 156,5 |

Seal kits:  
Nitrile: **K5501200 + K5502240**  
Viton: **K5501210 + K5502250**  
(For the manufacturings from september 1981)

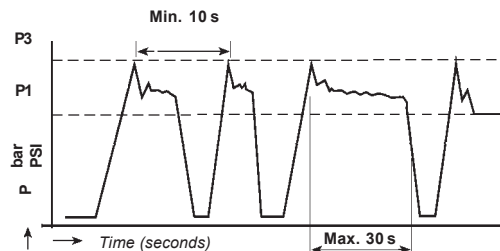
Dimensions readings and approximative characteristics subject to modifications.

| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW           |                          | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx.<br>weight<br>Kg |
|-------|----------------------|----------------|------|----------------------|------|-------------------|------------------------|--------------------------|--|---------------------------------------|-------------------------|
|       |                      | bar            | PSI  | bar                  | PSI  |                   | at 1500 RPM<br>l / min | at Maxi speed<br>l / min |  |                                       |                         |
| 5043  | 43,06                | 300            | 4350 | 255                  | 3700 | 3000              | 64,59                  | 129                      | 8,44   | 80,55                                 | 14,2                    |
| 5052  | 52,91                | 300            | 4350 | 255                  | 3700 | 3000              | 79,36                  | 158,5                    | 10,37  | 98,97                                 | 14,2                    |
| 5062  | 62,75                | 300            | 4350 | 255                  | 3700 | 3000              | 94,12                  | 188                      | 12,30  | 117,38                                | 14,4                    |
| 5072  | 72,59                | 300            | 4350 | 255                  | 3700 | 3000              | 108,88                 | 217,5                    | 14,23  | 135,79                                | 14,6                    |
| 5083  | 83,67                | 280            | 4060 | 240                  | 3480 | 2700              | 125,50                 | 226                      | 16,41  | 156,51                                | 15,1                    |
| 5093  | 93,51                | 250            | 3625 | 210                  | 3045 | 2700              | 140,26                 | 252,5                    | 18,34  | 174,92                                | 15,2                    |
| 5103  | 103,3                | 250            | 3625 | 210                  | 3045 | 2700              | 154,95                 | 279                      | 20,25  | 193,23                                | 15,2                    |
| 5125  | 125,5                | 250            | 3625 | 210                  | 3045 | 2600              | 188,25                 | 326                      | 24,61  | 234,76                                | 15,7                    |
| 5140  | 140,2                | 250            | 3625 | 210                  | 3045 | 2500              | 210,30                 | 350,5                    | 27,49  | 262,26                                | 15,7                    |
| 5153  | 153                  | 250            | 3625 | 210                  | 3045 | 2400              | 229,50                 | 367,5                    | 30   | 286,20                                | 16                      |

P1 Maximum pressure in continuous duty.

Maximum pressure ⇒

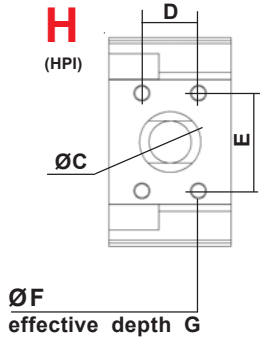
P3 Allowable peack pressure.



F.T 35 1408 1/2

Consult us for availability

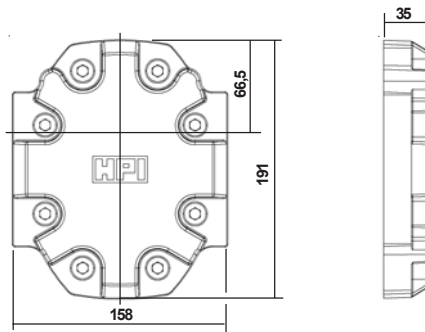
CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity            | INLET (T)           |      |      |     |     | OUTLET (P) |      |      |      |     | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 RPM)  |  |
|---------------------|---------------------|------|------|-----|-----|------------|------|------|------|-----|---|--|
|                     | ØC                  | D    | E    | ØF  | G   | ØC         | D    | E    | ØF   | G   | INLET (T)   | OUTLET (P)   |
|                     | <b>5043 to 5072</b> | 55   | 50,8 | 89  | M14 | 25         | 38   | 35,6 | 69,8 | M14 | 25  | <b>5043</b><br>1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397<br><br><b>5052 5062</b><br>1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398<br><br><b>5072</b><br>1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 |
| <b>5083 to 5153</b> | 65                  | 50,8 | 89   | M14 | 25  | 38         | 35,6 | 69,8 | M14  | 25  | <b>5083</b><br>1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398<br><br><b>5093 5103</b><br>1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398<br><br><b>5125 5140</b><br>2" BSP<br>N: 3.550028<br>V: 3.5510399<br><br><b>5153</b><br>2" 1/2 BSP<br>N: 3.550034<br>V: 3.550400 | 1" BSP<br>N: 3.550023<br>V: 3.550393<br><br>1" 1/4 Gaz<br>N: 3.550026<br>V: 3.550397<br><br>1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397<br><br>1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397       |

REAR BODY

**L** Standard



DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

Straight keyed

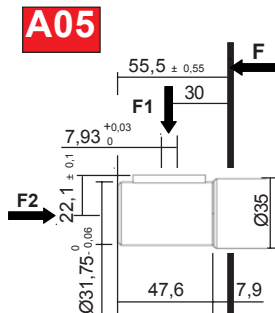
20

Splined

30

Tang

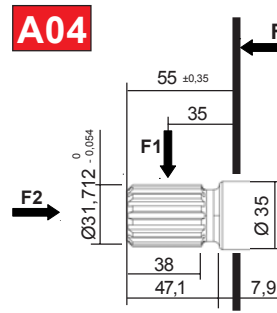
40



F1 = 150 daN  
F2 = 50 daN

Maxi transmissible torque

430 N.m



F1 = 150 daN  
F2 = 50 daN

Involute spline to SAE  
14 teeth - 1" 1/4  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque

690 N.m

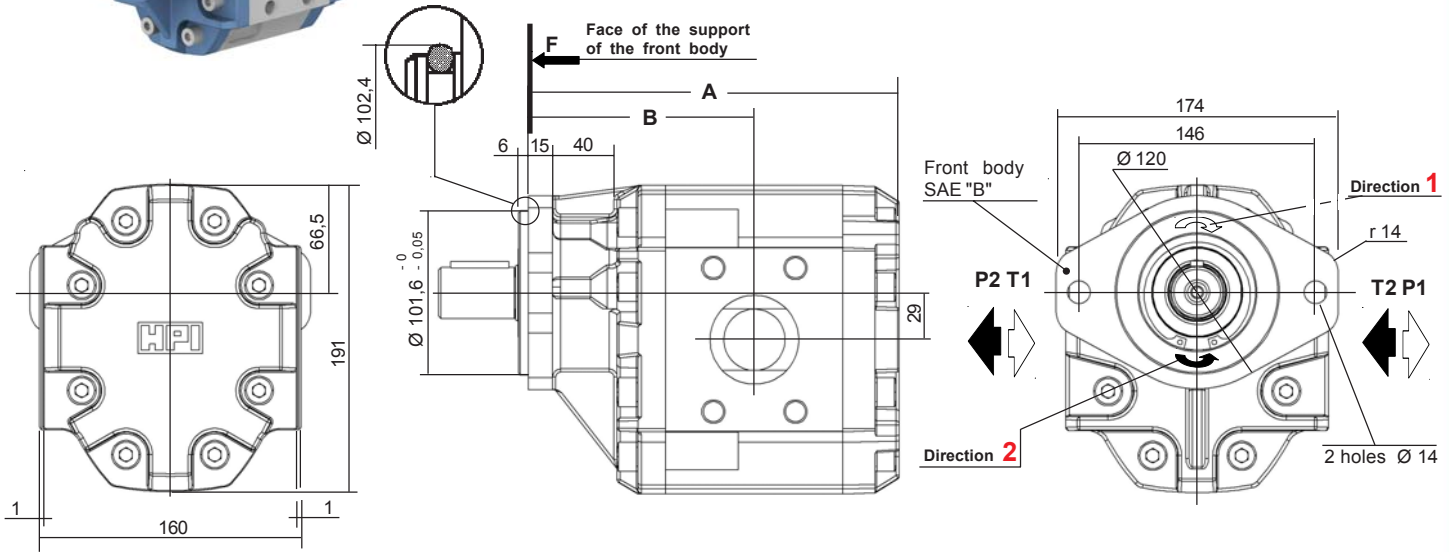
Dimensions readings and approximative characteristics subject to modifications.

F.T 35 1408 2/2

Consult us for availability

**P** II Sign **AA** **R** **5** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0011**



| CHOICE of the Capacity | Dimensions |       |
|------------------------|------------|-------|
|                        | A          | B     |
| 043 - 052 - 062 - 072  | 230        | 139,7 |
| 083 - 093 - 103        | 242        | 146   |
| 125 - 140 - 153        | 263,2      | 156,5 |

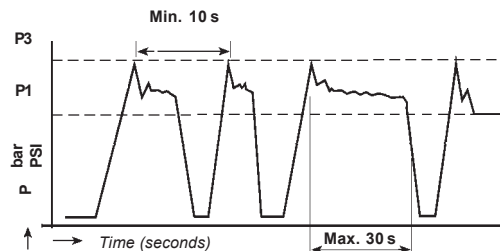
**Seal kits:**  
Nitrile: **K5501200 + K5502240**  
Viton: **K5501210 + K5502250**  
(For the manufacturings from september 1981)

| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW           |                          | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx.<br>weight<br>Kg |
|-------|----------------------|----------------|------|----------------------|------|-------------------|------------------------|--------------------------|--|---------------------------------------|-------------------------|
|       |                      | bar            | PSI  | bar                  | PSI  |                   | at 1500 RPM<br>l / min | at Maxi speed<br>l / min |  |                                       |                         |
| 5043  | 43,06                | 300            | 4350 | 255                  | 3700 | 3000              | 64,59                  | 129                      | 8,44   | 80,55                                 | 14,2                    |
| 5052  | 52,91                | 300            | 4350 | 255                  | 3700 | 3000              | 79,36                  | 158,5                    | 10,37  | 98,97                                 | 14,2                    |
| 5062  | 62,75                | 300            | 4350 | 255                  | 3700 | 3000              | 94,12                  | 188                      | 12,30  | 117,38                                | 14,4                    |
| 5072  | 72,59                | 300            | 4350 | 255                  | 3700 | 3000              | 108,88                 | 217,5                    | 14,23  | 135,79                                | 14,6                    |
| 5083  | 83,67                | 280            | 4060 | 240                  | 3480 | 2700              | 125,50                 | 226                      | 16,41  | 156,51                                | 15,1                    |
| 5093  | 93,51                | 250            | 3625 | 210                  | 3045 | 2700              | 140,26                 | 252,5                    | 18,34  | 174,92                                | 15,2                    |
| 5103  | 103,3                | 250            | 3625 | 210                  | 3045 | 2700              | 154,95                 | 279                      | 20,25  | 193,23                                | 15,2                    |
| 5125  | 125,5                | 250            | 3625 | 210                  | 3045 | 2600              | 188,25                 | 326                      | 24,61  | 234,76                                | 15,7                    |
| 5140  | 140,2                | 250            | 3625 | 210                  | 3045 | 2500              | 210,30                 | 350,5                    | 27,49  | 262,26                                | 15,7                    |
| 5153  | 153                  | 250            | 3625 | 210                  | 3045 | 2400              | 229,50                 | 367,5                    | 30   | 286,20                                | 16                      |

P1 Maximum pressure in continuous duty.

Maximum pressure ⇒

P3 Allowable peack pressure.

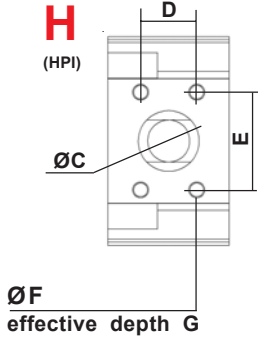


Dimensions readings and approximative characteristics subject to modifications.

F.T 35 1416 1/2

Consult us for availability

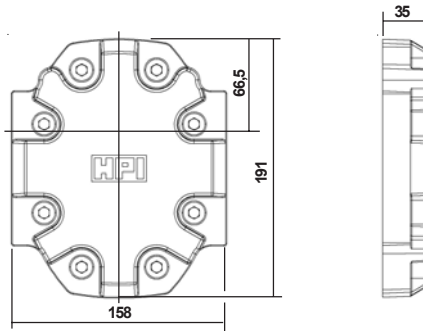
CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



| Capacity           | INLET (T) |      |    |     |    | OUTLET (P) |      |      |     |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 RPM) |  |  |
|--------------------|-----------|------|----|-----|----|------------|------|------|-----|----|--|--|--|
|                    | ØC        | D    | E  | ØF  | G  | ØC         | D    | E    | ØF  | G  |  |  |  |
|                    |           |      |    |     |    |            |      |      |     |    | INLET (T)  | OUTLET (P)                               |  |
| 5043<br>to<br>5072 | 55        | 50,8 | 89 | M14 | 25 | 38         | 35,6 | 69,8 | M14 | 25 | 5043   | 1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397 | 3/4" BSP<br>N: 3.550022<br>V: 3.550392   |
|                    |           |      |    |     |    |            |      |      |     |    | 5052<br>5062   | 1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 | 1" BSP<br>N: 3.550023<br>V: 3.550393     |
|                    |           |      |    |     |    |            |      |      |     |    | 5072   | 1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 | 1" BSP<br>N: 3.550023<br>V: 3.550393     |
| 5083<br>to<br>5153 | 65        | 50,8 | 89 | M14 | 25 | 38         | 35,6 | 69,8 | M14 | 25 | 5083   | 1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 | 1" BSP<br>N: 3.550023<br>V: 3.550393     |
|                    |           |      |    |     |    |            |      |      |     |    | 5093<br>5103   | 1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 | 1" 1/4 Gaz<br>N: 3.550026<br>V: 3.550397 |
|                    |           |      |    |     |    |            |      |      |     |    | 5125<br>5140   | 2" BSP<br>N: 3.550028<br>V: 3.5510399    | 1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397 |
|                    |           |      |    |     |    |            |      |      |     |    | 5153   | 2" 1/2 BSP<br>N: 3.550034<br>V: 3.550400 | 1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397 |

REAR BODY

L Standard



DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

Straight keyed

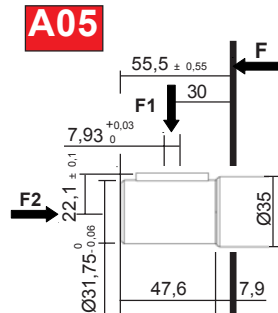
20

Splined

30

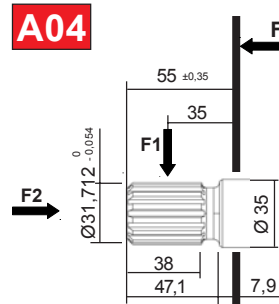
Tang

40



F1 = 150 daN  
F2 = 50 daN

Maxi transmissible torque  
430 N.m



F1 = 150 daN  
F2 = 50 daN

Involute spline to SAE  
14 teeth - 1" 1/4  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
690 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 35 1416 2/2

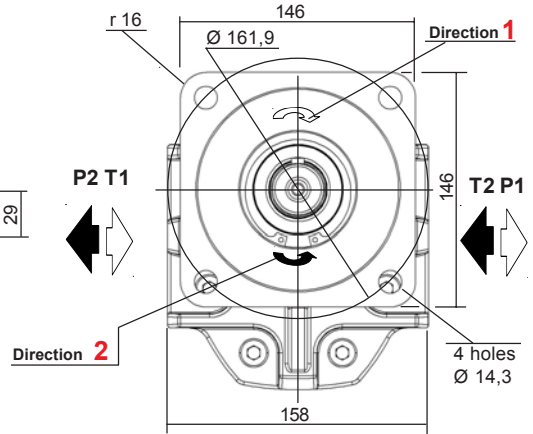
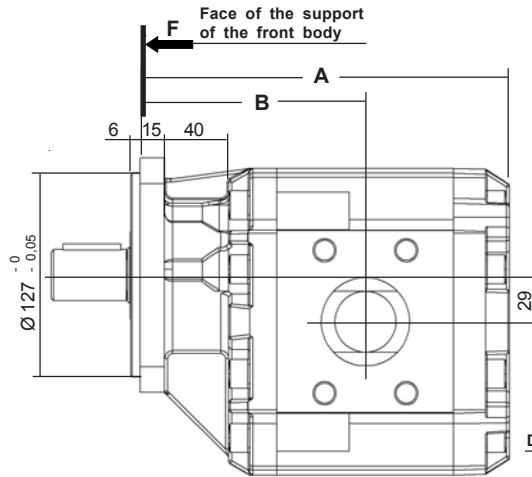
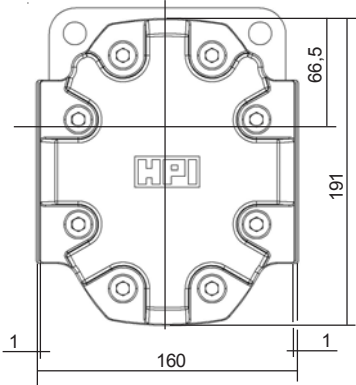
Consult us for availability





**P** II Sign **AD** **P** **5** VI Sign **H** **L** IX Sign **X** Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T.R 0011**



| CHOICE of the Capacity | Dimensions |       |
|------------------------|------------|-------|
|                        | A          | B     |
| 043 - 052 - 062 - 072  | 230        | 139,7 |
| 083 - 093 - 103        | 242        | 146   |
| 125 - 140 - 153        | 263,2      | 156,5 |

**Seal kits:**  
Nitrile: **K5501200 + K5502240**  
Viton: **K5501210 + K5502250**  
(For the manufacturings from september 1981)

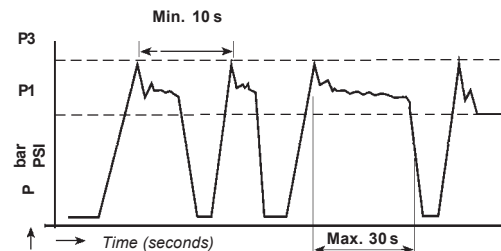
Dimensions readings and approximative characteristics subject to modifications.

| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW           |                          | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|------|-------------------|------------------------|--------------------------|--|---------------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI  |                   | at 1500 RPM<br>l / min | at Maxi speed<br>l / min |  |                                       |                      |
| <b>5043</b> | 43,06                | 300            | 4350 | 255                  | 3700 | 3000              | 64,59                  | 129                      | 8,44   | 80,55                                 | 14,2                 |
| <b>5052</b> | 52,91                | 300            | 4350 | 255                  | 3700 | 3000              | 79,36                  | 158,5                    | 10,37  | 98,97                                 | 14,2                 |
| <b>5062</b> | 62,75                | 300            | 4350 | 255                  | 3700 | 3000              | 94,12                  | 188                      | 12,30  | 117,38                                | 14,4                 |
| <b>5072</b> | 72,59                | 300            | 4350 | 255                  | 3700 | 3000              | 108,88                 | 217,5                    | 14,23  | 135,79                                | 14,6                 |
| <b>5083</b> | 83,67                | 280            | 4060 | 240                  | 3480 | 2700              | 125,50                 | 226                      | 16,41  | 156,51                                | 15,1                 |
| <b>5093</b> | 93,51                | 250            | 3625 | 210                  | 3045 | 2700              | 140,26                 | 252,5                    | 18,34  | 174,92                                | 15,2                 |
| <b>5103</b> | 103,3                | 250            | 3625 | 210                  | 3045 | 2700              | 154,95                 | 279                      | 20,25  | 193,23                                | 15,2                 |
| <b>5125</b> | 125,5                | 250            | 3625 | 210                  | 3045 | 2600              | 188,25                 | 326                      | 24,61  | 234,76                                | 15,7                 |
| <b>5140</b> | 140,2                | 250            | 3625 | 210                  | 3045 | 2500              | 210,30                 | 350,5                    | 27,49  | 262,26                                | 15,7                 |
| <b>5153</b> | 153                  | 250            | 3625 | 210                  | 3045 | 2400              | 229,50                 | 367,5                    | 30   | 286,20                                | 16                   |

**P1** Maximum pressure in continuous duty.  
 $P1 = 0,75 \times P3$

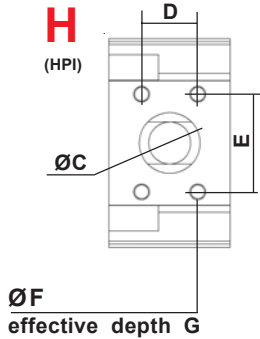
Maximum pressure  $\Rightarrow$

**P3** Allowable peak pressure.



Consult us for availability

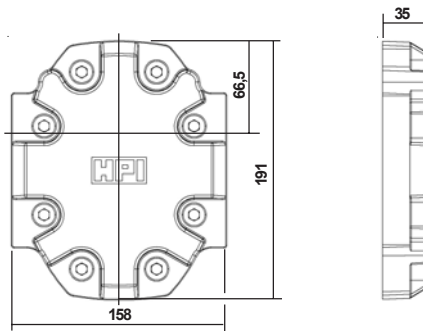
**CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES**



| Capacity           | INLET (T) |      |    |     |    | OUTLET (P) |      |      |     |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 RPM) |  |  |
|--------------------|-----------|------|----|-----|----|------------|------|------|-----|----|--|--|--|
|                    | ØC        | D    | E  | ØF  | G  | ØC         | D    | E    | ØF  | G  | INLET (T)  | OUTLET (P)                               |  |
| 5043<br>to<br>5072 | 55        | 50,8 | 89 | M14 | 25 | 38         | 35,6 | 69,8 | M14 | 25 | 5043   | 1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397 | 3/4" BSP<br>N: 3.550022<br>V: 3.550392   |
|                    |           |      |    |     |    |            |      |      |     |    | 5052<br>5062   | 1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 | 1" BSP<br>N: 3.550023<br>V: 3.550393     |
|                    |           |      |    |     |    |            |      |      |     |    | 5072   | 1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 | 1" BSP<br>N: 3.550023<br>V: 3.550393     |
| 5083<br>to<br>5153 | 65        | 50,8 | 89 | M14 | 25 | 38         | 35,6 | 69,8 | M14 | 25 | 5083   | 1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 | 1" BSP<br>N: 3.550023<br>V: 3.550393     |
|                    |           |      |    |     |    |            |      |      |     |    | 5093<br>5103   | 1" 1/2 BSP<br>N: 3.550027<br>V: 3.550398 | 1" 1/4 Gaz<br>N: 3.550026<br>V: 3.550397 |
|                    |           |      |    |     |    |            |      |      |     |    | 5125<br>5140   | 2" BSP<br>N: 3.550028<br>V: 3.5510399    | 1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397 |
|                    |           |      |    |     |    |            |      |      |     |    | 5153   | 2" 1/2 BSP<br>N: 3.550034<br>V: 3.550400 | 1" 1/4 BSP<br>N: 3.550026<br>V: 3.550397 |

**REAR BODY**

**L** Standard



**DRIVING SHAFT (FLAT FRONT BODY)**

Tapered

**10**

Straight keyed

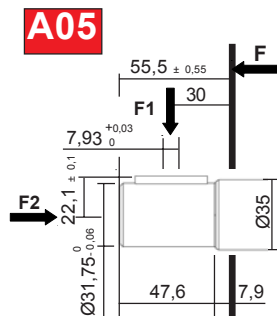
**20**

Splined

**30**

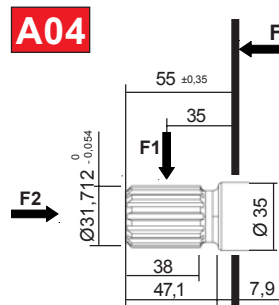
Tang

**40**



**F1 = 150 daN**  
**F2 = 50 daN**

Maxi transmissible torque  
**430 N.m**



**F1 = 150 daN**  
**F2 = 50 daN**

Involute spline to SAE  
14 teeth - 1" 1/4  
Diametral Pitch 16/32  
30° Pressure angle

Maxi transmissible torque  
**690 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 35 1407 2/2**

Consult us for availability

**PUMPS PRESENTATION**  
**SERIES 4****F.T 40 1417****- FLAT FRONT BODY****PUMP****CBN****F.T 40 1416****PUMP****CBK****F.T 40 1419****- THICK FRONT BODY****PUMP****ADP****F.T 40 1418**

Consult us for availability

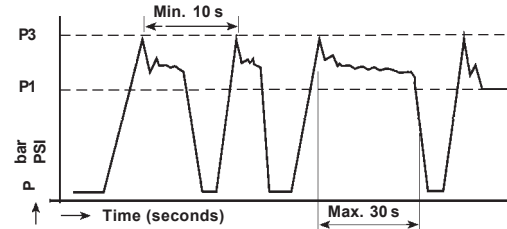
| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW           |                          | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|------|-------------------|------------------------|--------------------------|--|---------------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI  |                   | at 1500 RPM<br>l / min | at Maxi speed<br>l / min |  |                                       |                      |
| <b>4075</b> | 075                  | 200            | 2900 | 170                  | 2465 | 2500              | 112,5                  | 187,5                    | 19,37  | 141                                   | 17                   |
| <b>4110</b> | 110                  | 200            | 2900 | 170                  | 2465 | 2500              | 165                    | 275                      | 28,42  | 206                                   | 17,2                 |
| <b>4150</b> | 150                  | 200            | 2900 | 170                  | 2465 | 2500              | 225                    | 375                      | 28,60  | 281                                   | 17,4                 |
| <b>4175</b> | 175                  | 175            | 2625 | 150                  | 2175 | 2500              | 262,5                  | 437,5                    | 34,31  | 327,35                                | 19                   |
| <b>4212</b> | 212                  | 150            | 2175 | 130                  | 1885 | 2500              | 318                    | 530                      | 41,57  | 396,56                                | 19,4                 |
| <b>4250</b> | 250                  | 125            | 1812 | 105                  | 1522 | 2000              | 375                    | 500                      | 49,02  | 467,65                                | 20                   |

The pump can only run in one way rotation (Precise the direction of rotation on order).  
 The working cycles hereunder are possible with hydraulic mineral oil for viscosities between 12 and 150 cSt (65,2 and 700 SUS).  
 The minimum viscosity of 12 cSt (65,2 SUS) is available for a maximum temperature in the hydraulic circuit .  
 Working temperature: - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C (284 °F) with Viton shaft seal).  
 Full flow filtration: 10 to 15 microns at the pressure port of the pump or on the return circuit.  
 Filtration on the suction side: 125 microns.  
 Pressure at the inlet of the pump:  
 - Minimum 0,7 bar absolute (Maxi depressure 300 millibar with regard to the air pressure).  
 - Maximum 2 bar absolute or 1 bar over the air pressure.  
 The hereabove characteristics concern the pumps driven by elastic couplings perfectly aligned without any external radial or axial force.  
 For any other coupling, see technical data sheet F.T R 0009.  
 For use at maximum working conditions and/or intensive cycles, thanks to consult our technical sales service for validation.

Dimensions readings and approximative characteristics subject to modifications.

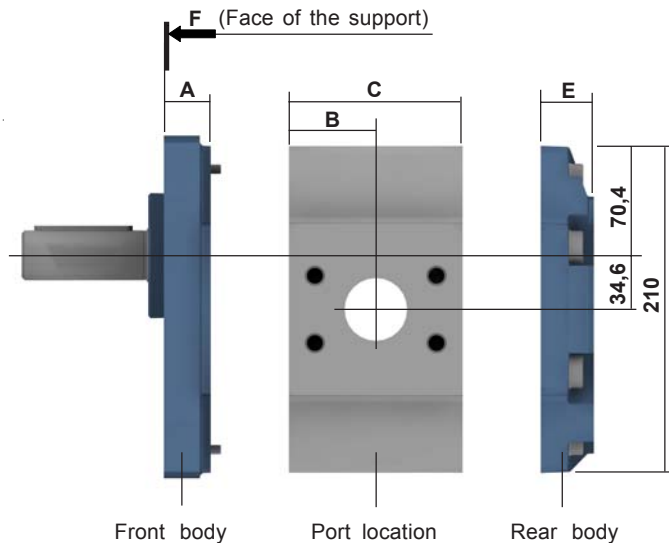
P1 Maximum pressure in continuous duty.  
 P3 Allowable peack pressure.

Maximum Pressure ⇒



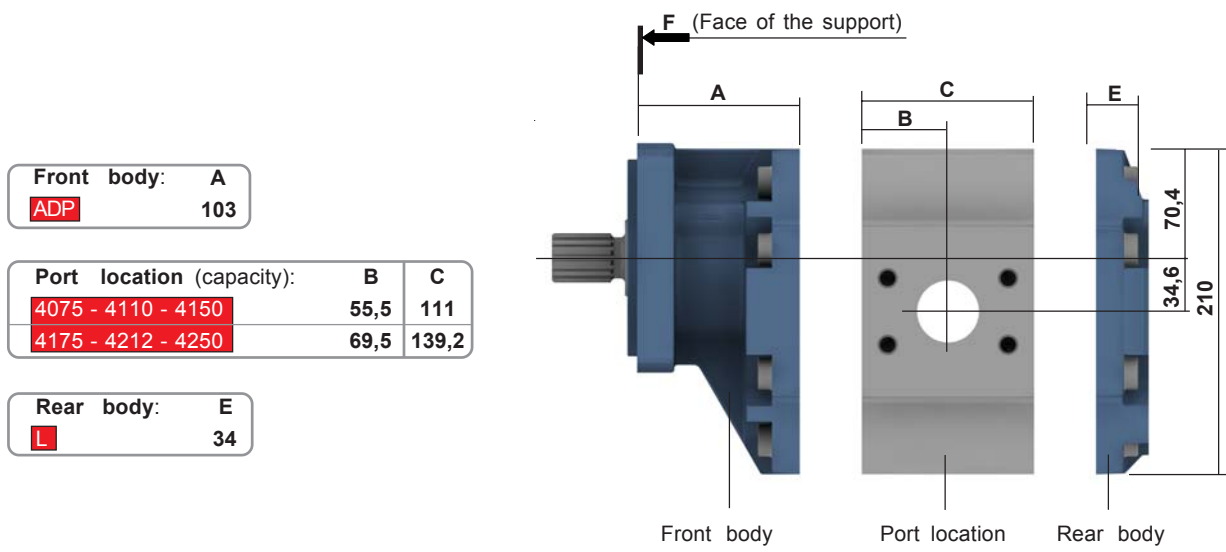
**FLAT FRONT BODY**

|                           |      |       |
|---------------------------|------|-------|
| Front body:               | A    |       |
| <b>CBN / CBK</b>          | 30   |       |
| Port location (capacity): | B    | C     |
| <b>4075 - 4110 - 4150</b> | 55,5 | 111   |
| <b>4175 - 4212 - 4250</b> | 69,5 | 139,2 |
| Rear body:                | E    |       |
| <b>L</b>                  | 34   |       |



Consult us for availability

**THICK FRONT BODY**



For CODIFICATION, see data sheet **F.T R 0011**

| DIRECTION of ROTATION<br>(II Sign)<br>P 1 P 2 | FLAT / THICK FRONT BODIES<br>(III and IV Sign) | CAPACITY<br>(V and VI Sign) | PORT LOCATION<br>(VII Sign) | REAR BODY<br>(VIII Sign) | DRIVING SHAFTS<br>(IX, X and XI Sign) |               |
|---|--|-----------------------------|-----------------------------|--------------------------|---------------------------------------|---------------|
|   |  |                             |                             |                          | STRAIGHT KEYED<br>20                  | SPLINED<br>30 |

|                 |   |   |                |  |  |  |                   |                   |
|-----------------|---|---|----------------|--|--|--|-------------------|-------------------|
| FLAT FRONT BODY | X | X | <b>CBN</b><br> | 4075<br>4110<br>4150<br>4175<br>4212<br>4250 |  |  | <br><b>20 C06</b> | <br><b>30 C06</b> |
|-----------------|---|---|----------------|--|--|--|-------------------|-------------------|

|                  |   |   |                |  |  |  |                   |
|------------------|---|---|----------------|--|--|--|-------------------|
| THICK FRONT BODY | X | X | <b>ADP</b><br> | 4075<br>4110<br>4150<br>4175<br>4212<br>4250 |  |  | <br><b>30 A07</b> |
|------------------|---|---|----------------|--|--|--|-------------------|

Dimensions readings and approximative characteristics subject to modifications.

**F.T 40 1417 2/4**

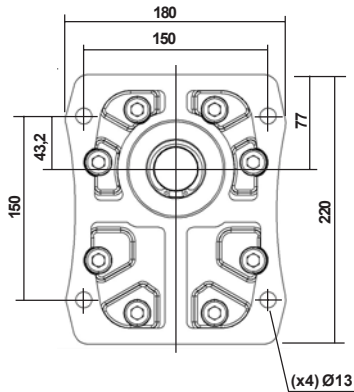
**LEGENDES**

|   |  |                                 |                                  |
|---|--|---------------------------------|----------------------------------|
| <b>DIRECTION of ROTATION</b><br>P1 = Clockwise<br>P2 = Anti clockwise | <b>FRONT BODIES</b><br>CB* = Fixing French<br>AD* = Fixing SAE and ISO | <b>PORT LOCATION</b><br>H = HPI | <b>REAR BODY</b><br>L = Standard |
|---|--|---------------------------------|----------------------------------|

Consult us for availability

**FRONT BODIES**

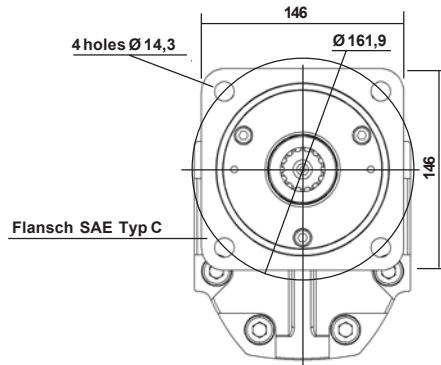
**CBN / CBK**



Centering:  $\varnothing 80 \begin{smallmatrix} -0,03 \\ -0,06 \end{smallmatrix}$   
Thickness: 10

CBN: F.T 40 1416  
CBK: F.T 40 1419

**ADP**

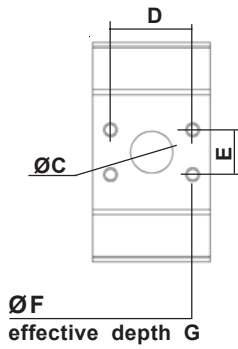


Centering:  $\varnothing 127 \begin{smallmatrix} 0 \\ -0,05 \end{smallmatrix}$   
Thickness: 6,35

ADP: F.T 40 418

**CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES**

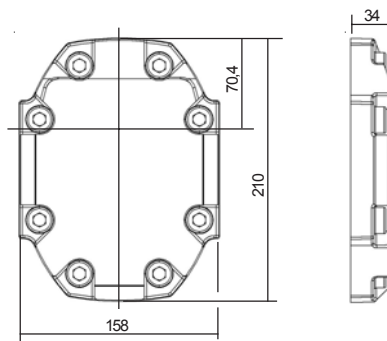
**H**  
(HPI)



| Capacity           | INLET (T) |      |      |     |    | OUTLET (P) |      |      |     |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |  |
|--------------------|-----------|------|------|-----|----|------------|------|------|-----|----|--|--|--|
|                    | ØC        | D    | E    | ØF  | G  | ØC         | D    | E    | ØF  | G  | INLET (T)  | OUTLET (P)                               |  |
|                    |           |      |      |     |    |            |      |      |     |    |  |  |  |
| 4075<br>to<br>4150 | 60        | 77,8 | 42,6 | M12 | 45 | 40         | 77,8 | 42,9 | M12 | 22 | 4075   | 1" 1/4 BSP<br>N: 4.500438<br>V: 4.505071 | 1" BSP<br>N: 4.500437<br>V: 4.505070     |
|                    |           |      |      |     |    |            |      |      |     |    | 4110   | 1" 1/2 BSP<br>N: 4.500439<br>V: 4.504871 | 1" 1/4 BSP<br>N: 4.500438<br>V: 4.505071 |
|                    |           |      |      |     |    |            |      |      |     |    | 4150   | 2" BSP<br>N: 4.500440<br>V: 4.505072     | 1" 1/2 BSP<br>N: 4.500439<br>V: 4.504871 |
| 4175<br>to<br>4250 | 70        | 89   | 50,8 | M12 | 45 | 38         | 77,8 | 42,9 | M12 | 22 | 4175   | 2" BSP<br>N: 4.500440<br>V: 4.505072     | 1" 1/2 BSP<br>N: 4.500439<br>V: 4.504871 |
|                    |           |      |      |     |    |            |      |      |     |    | 4212   | 2" 1/2 BSP<br>N: 4.500443<br>V: 4.505074 | 1" 1/2 BSP<br>N: 4.500439<br>V: 4.504871 |
|                    |           |      |      |     |    |            |      |      |     |    | 4250   | 2" 1/2 BSP<br>N: 4.500443<br>V: 4.505074 | 2" BSP<br>N: 4.500440<br>V: 4.505072     |

**CORPS ARRIERE**

**L**  
Standard



Consult us for availability

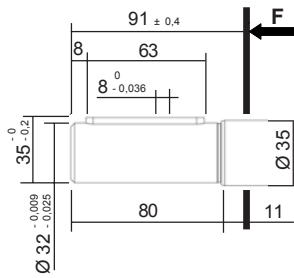
Dimensions readings and approximative characteristics subject to modifications.

**F.T 40 1417 3/4**

**DRIVING SHAFTS**

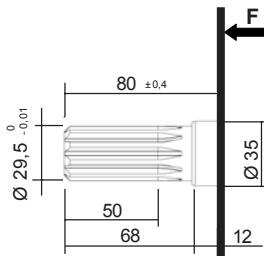
|           |                |           |           |
|-----------|----------------|-----------|-----------|
| Tapered   | Straight keyed | Splined   | Tang      |
| <b>10</b> | <b>20</b>      | <b>30</b> | <b>40</b> |

**C06**



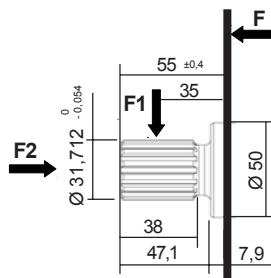
Couple maxi transmissible  
**700 N.m**

**C06**



Involute spline shaft  
30 x 10 x 2,5  
to standard NF E 22 141 - BNA 455  
Spigot on free flanks  
Maxi transmissible torque  
**140 N.m**

**A07**



**F1 = 280 daN**  
**F2 = 100 daN**

Involute spline to SAE  
Standard - 14 teeth 1" 1/4 -  
Pitch 16/32 - Flat root  
30° Pressure angle  
Maxi transmissible torque  
**700 N.m**

Dimensions readings and approximative characteristics subject to modifications.

**F.T 40 1417 4/4**

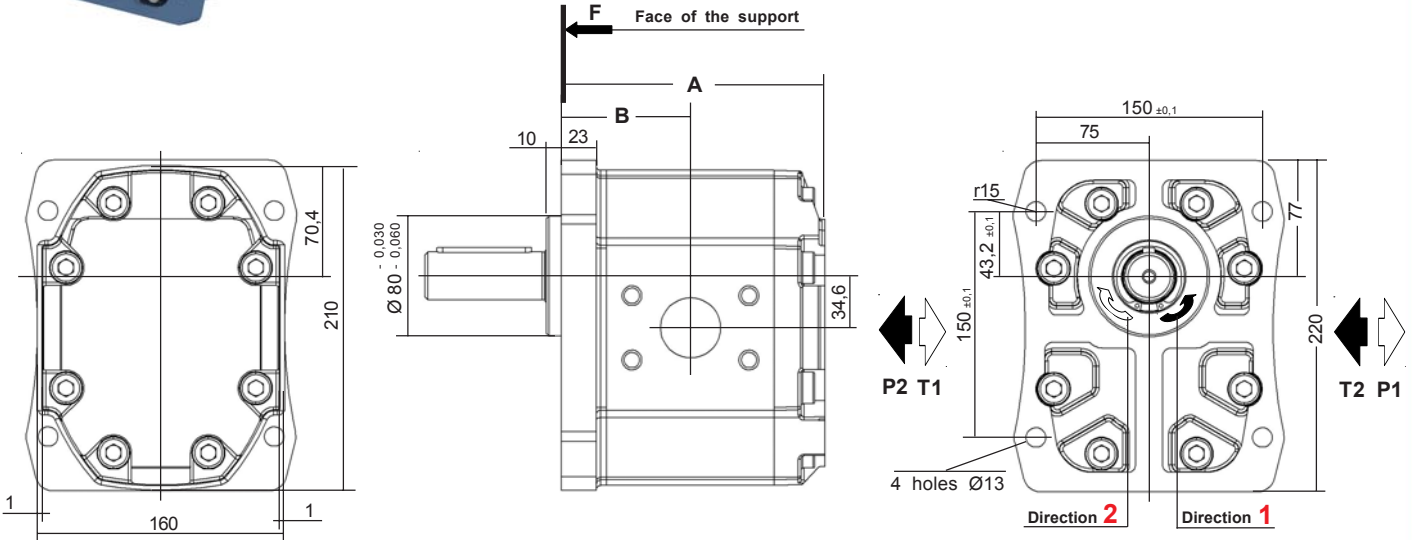


Consult us for availability



**P** **II** **CB** **N** **4** **VI** **H** **L** **IX** **X** **XI** **XII**  
Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign

For CODIFICATION, see Data sheet **F.T R 0011**



| CHOICE of the Capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 075 - 110 - 150        | 175        | 85,5 |
| 175 - 212 - 250        | 203        | 99,5 |

Seal kits:

Nitrile: **K5008900**  
Viton: **K5015730**

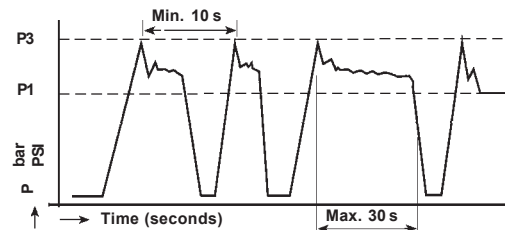
(For the manufacturings from 1978)

| MODEL | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW           |                          | Input power (kW)<br>at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight<br>Kg |
|-------|----------------------|----------------|------|----------------------|------|-------------------|------------------------|--------------------------|---|---------------------------------|----------------------|
|       |                      | bar            | PSI  | bar                  | PSI  |                   | at 1500 RPM<br>l / min | at Maxi speed<br>l / min |   |                                 |                      |
| 4075  | 075                  | 200            | 2900 | 170                  | 2465 | 2500              | 112,5                  | 187,5                    | 19,37                                       | 141                             | 17                   |
| 4110  | 110                  | 200            | 2900 | 170                  | 2465 | 2500              | 165                    | 275                      | 28,42                                       | 206                             | 17,2                 |
| 4150  | 150                  | 200            | 2900 | 170                  | 2465 | 2500              | 225                    | 375                      | 28,60                                       | 281                             | 17,4                 |
| 4175  | 175                  | 175            | 2625 | 150                  | 2175 | 2500              | 262,5                  | 437,5                    | 34,31                                       | 327,35                          | 19                   |
| 4212  | 212                  | 150            | 2175 | 130                  | 1885 | 2500              | 318                    | 530                      | 41,57                                       | 396,56                          | 19,4                 |
| 4250  | 250                  | 125            | 1812 | 105                  | 1522 | 2000              | 375                    | 500                      | 49,02                                       | 467,65                          | 20                   |

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure ⇒



Dimensions readings and approximative characteristics subject to modifications.

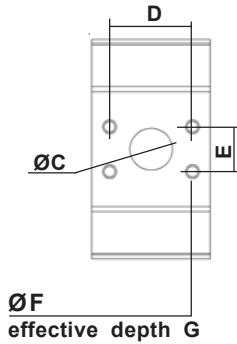
F.T 40 1416 1/2

Consult us for availability



**CHOICE of the IMPLANTATION of PORTS and RECOMMENDED FLANGES**

**H**  
(HPI)

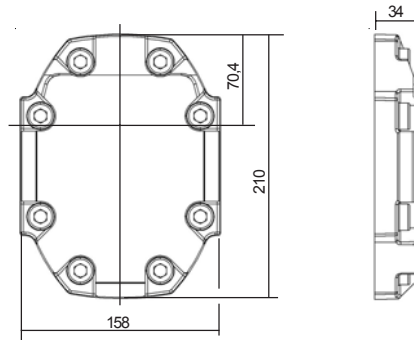


| Capacity           | INLET (T) |      |      |     |    | OUTLET (P) |      |      |     |    | CATALOGUE N° 70   |  |  |
|--------------------|-----------|------|------|-----|----|------------|------|------|-----|----|---|--|--|
|                    | ØC        | D    | E    | ØF  | G  | ØC         | D    | E    | ØF  | G  | Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |  |
|                    |           |      |      |     |    |            |      |      |     |    | INLET (T)   | OUTLET (P)                               |  |
| 4075<br>to<br>4150 | 60        | 77,8 | 42,6 | M12 | 45 | 40         | 77,8 | 42,9 | M12 | 22 | 4075  | 1" 1/4 BSP<br>N: 4.500438<br>V: 4.505071 | 1" BSP<br>N: 4.500437<br>V: 4.505070     |
|                    |           |      |      |     |    |            |      |      |     |    | 4110  | 1" 1/2 BSP<br>N: 4.500439<br>V: 4.504871 | 1" 1/4 BSP<br>N: 4.500438<br>V: 4.505071 |
|                    |           |      |      |     |    |            |      |      |     |    | 4150  | 2" BSP<br>N: 4.500440<br>V: 4.505072     | 1" 1/2 BSP<br>N: 4.500439<br>V: 4.504871 |
| 4175<br>to<br>4250 | 70        | 89   | 50,8 | M12 | 45 | 38         | 77,8 | 42,9 | M12 | 22 | 4175  | 2" BSP<br>N: 4.500440<br>V: 4.505072     | 1" 1/2 BSP<br>N: 4.500439<br>V: 4.504871 |
|                    |           |      |      |     |    |            |      |      |     |    | 4212  | 2" 1/2 BSP<br>N: 4.500443<br>V: 4.505074 | 1" 1/2 BSP<br>N: 4.500439<br>V: 4.504871 |
|                    |           |      |      |     |    |            |      |      |     |    | 4250  | 2" 1/2 BSP<br>N: 4.500443<br>V: 4.505074 | 2" BSP<br>N: 4.500440<br>V: 4.505072     |

**REAR BODY**

**L**

Standard

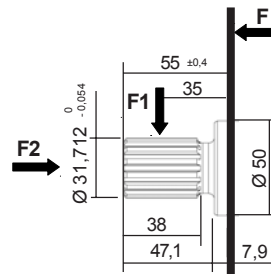


Dimensions readings and approximative characteristics subject to modifications.

**DRIVING SHAFTS**

| Tapered   | Straight keyed | Splined   | Tang      |
|-----------|----------------|-----------|-----------|
| <b>10</b> | <b>20</b>      | <b>30</b> | <b>40</b> |

**A07**



**F1 = 280 daN**  
**F2 = 100 daN**

Involute spline to SAE  
Standard - 14 teeth - 1" 1/4 SAE  
Pitch 16 / 32 - Flat root  
30° Pressure angle

Maxi transmissible torque  
**700 N.m**

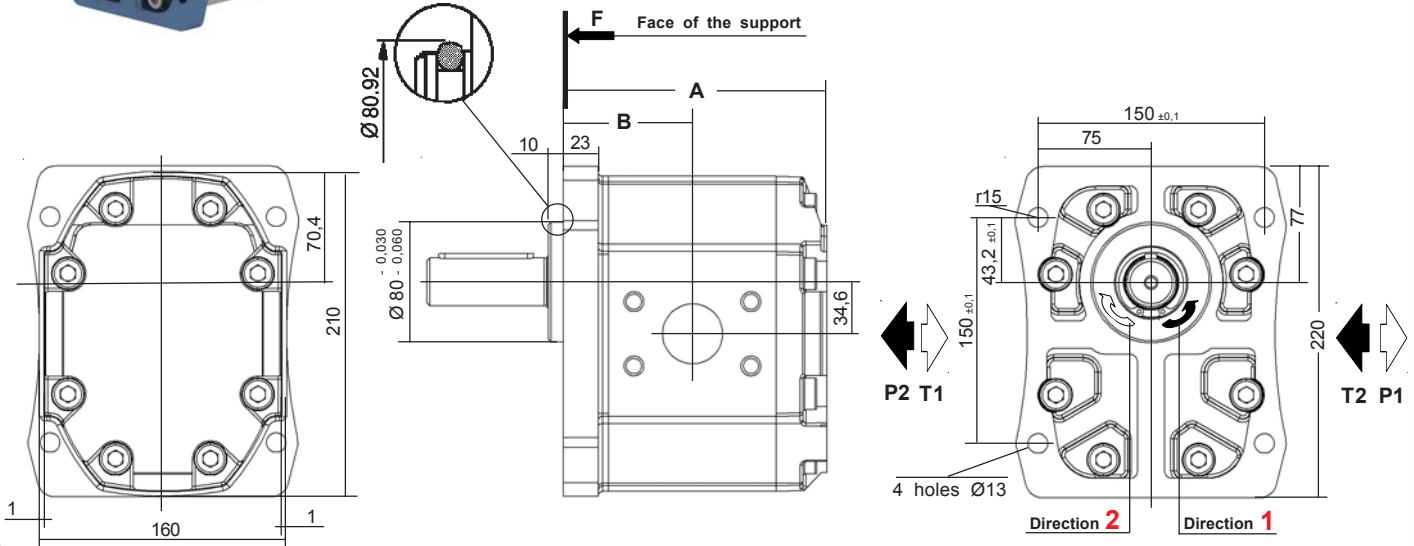
**Consult us for availability**

**F.T 40 1416 2/2**



**P** **II** **CBK** **K** **4** **VI** **HL** **IX** **X** **XI** **XII**  
Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign

For CODIFICATION, see Data sheet **F.T R 0011**



| CHOICE of the Capacity | Dimensions |      |
|------------------------|------------|------|
|                        | A          | B    |
| 075 - 110 - 150        | 175        | 85,5 |
| 175 - 212 - 250        | 203        | 99,5 |

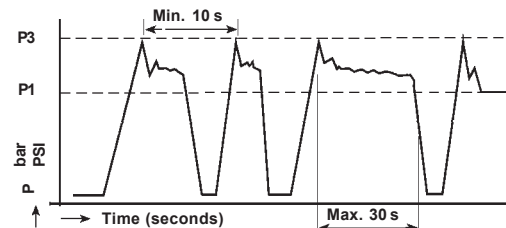
**Seal kits:**  
Nitrile: **K5008900 + K101517**  
Viton: **K5015730 + K104406**  
(For the manufacturings from 1978)

| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed RPM | NOMINAL FLOW           |                          | Input power (kW) at 1000 RPM and 100 bar | Input torque at 100 bar and N.m | Approx. weight Kg |
|-------------|----------------------|----------------|------|----------------------|------|----------------|------------------------|--------------------------|--|---------------------------------|-------------------|
|             |                      | bar            | PSI  | bar                  | PSI  |                | at 1500 RPM<br>l / min | at Maxi speed<br>l / min |  |                                 |                   |
| <b>4075</b> | 075                  | 200            | 2900 | 170                  | 2465 | 2500           | 112,5                  | 187,5                    | 19,37                                    | 141                             | 17                |
| <b>4110</b> | 110                  | 200            | 2900 | 170                  | 2465 | 2500           | 165                    | 275                      | 28,42                                    | 206                             | 17,2              |
| <b>4150</b> | 150                  | 200            | 2900 | 170                  | 2465 | 2500           | 225                    | 375                      | 28,60                                    | 281                             | 17,4              |
| <b>4175</b> | 175                  | 175            | 2625 | 150                  | 2175 | 2500           | 262,5                  | 437,5                    | 34,31                                    | 327,35                          | 19                |
| <b>4212</b> | 212                  | 150            | 2175 | 130                  | 1885 | 2500           | 318                    | 530                      | 41,57                                    | 396,56                          | 19,4              |
| <b>4250</b> | 250                  | 125            | 1812 | 105                  | 1522 | 2000           | 375                    | 500                      | 49,02                                    | 467,65                          | 20                |

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peack pressure.



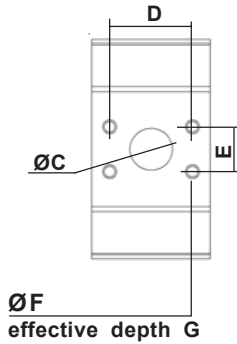
Dimensions readings and approximative characteristics subject to modifications.

**F.T 40 1419 1/2**

Consult us for availability

**CHOICE of the IMPLANTATION of PORTS and RECOMMENDED FLANGES**

**H**  
(HPI)

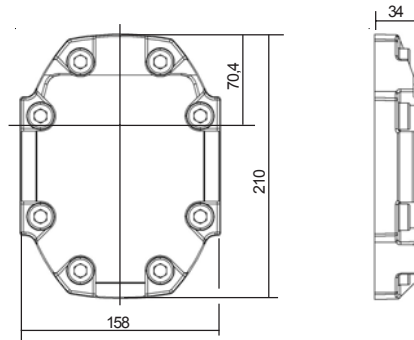


| Capacity           | INLET (T) |      |      |     |    | OUTLET (P) |      |      |     |    | CATALOGUE N° 70<br>Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |  |
|--------------------|-----------|------|------|-----|----|------------|------|------|-----|----|--|--|--|
|                    | ØC        | D    | E    | ØF  | G  | ØC         | D    | E    | ØF  | G  | INLET (T)  | OUTLET (P)                               |  |
|                    |           |      |      |     |    |            |      |      |     |    |  |  |  |
| 4075<br>to<br>4150 | 60        | 77,8 | 42,6 | M12 | 45 | 40         | 77,8 | 42,9 | M12 | 22 | 4075   | 1" 1/4 BSP<br>N: 4.500438<br>V: 4.505071 | 1" BSP<br>N: 4.500437<br>V: 4.505070     |
|                    |           |      |      |     |    |            |      |      |     |    | 4110   | 1" 1/2 BSP<br>N: 4.500439<br>V: 4.504871 | 1" 1/4 BSP<br>N: 4.500438<br>V: 4.505071 |
|                    |           |      |      |     |    |            |      |      |     |    | 4150   | 2" BSP<br>N: 4.500440<br>V: 4.505072     | 1" 1/2 BSP<br>N: 4.500439<br>V: 4.504871 |
| 4175<br>to<br>4250 | 70        | 89   | 50,8 | M12 | 45 | 38         | 77,8 | 42,9 | M12 | 22 | 4175   | 2" BSP<br>N: 4.500440<br>V: 4.505072     | 1" 1/2 BSP<br>N: 4.500439<br>V: 4.504871 |
|                    |           |      |      |     |    |            |      |      |     |    | 4212   | 2" 1/2 BSP<br>N: 4.500443<br>V: 4.505074 | 1" 1/2 BSP<br>N: 4.500439<br>V: 4.504871 |
|                    |           |      |      |     |    |            |      |      |     |    | 4250   | 2" 1/2 BSP<br>N: 4.500443<br>V: 4.505074 | 2" BSP<br>N: 4.500440<br>V: 4.505072     |

**REAR BODY**

**L**

Standard

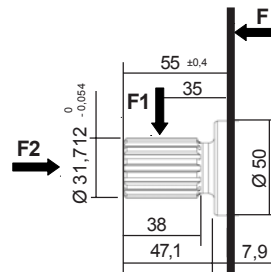


Dimensions readings and approximative characteristics subject to modifications.

**DRIVING SHAFTS**

| Tapered   | Straight keyed | Splined   | Tang      |
|-----------|----------------|-----------|-----------|
| <b>10</b> | <b>20</b>      | <b>30</b> | <b>40</b> |

**A07**



F1 = 280 daN  
F2 = 100 daN

Involute spline to SAE  
Standard - 14 teeth - 1" 1/4 SAE  
Pitch 16 / 32 - Flat root  
30° Pressure angle

Maxi transmissible torque

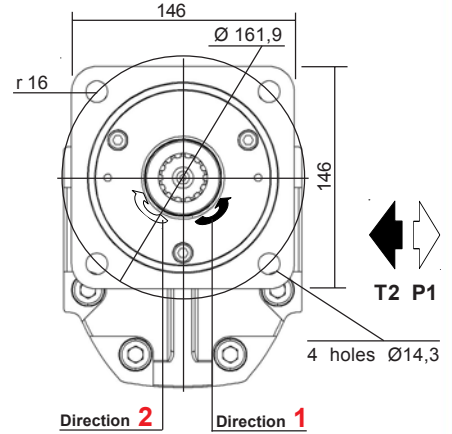
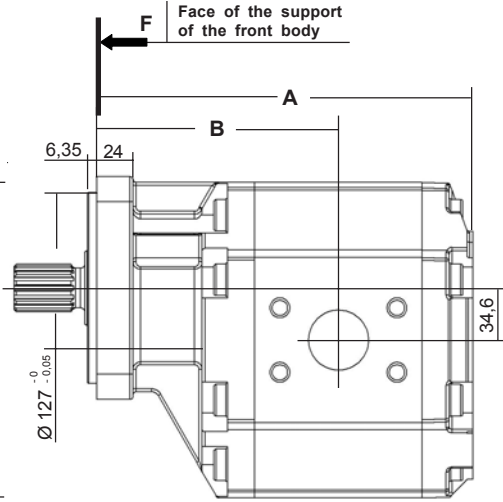
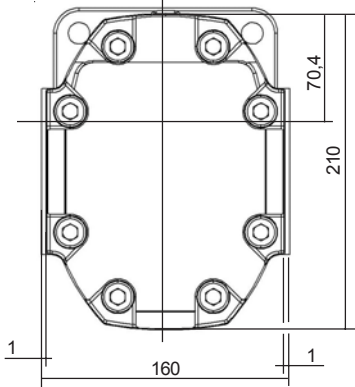
**700 N.m**

Consult us for availability

**F.T 40 1419 2/2**

**P** **II** **ADP** **P** **4** **VI** **HL** **IX** **X** **XI** **XII**  
Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign

For CODIFICATION, see Data sheet **F.T R 0011**



Dimensions readings and approximative characteristics subject to modifications.

| CHOICE of the Capacity | Dimensions |       |
|------------------------|------------|-------|
|                        | A          | B     |
| 075 - 110 - 150        | 248        | 158,5 |
| 175 - 212 - 250        | 276        | 174,5 |

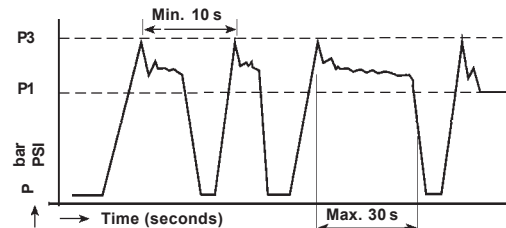
**Seal kits:**  
Nitrile: **K5044880 + K5008910**  
Viton: **K5044890 + K5044840**  
(From manufacturings from 1978)

| MODEL       | Capacity<br>cc / rev | PEACK PRESSURE |      | MAX WORKING PRESSURE |      | Maxi speed<br>RPM | NOMINAL FLOW           |                          | Input power (kW)<br>at 1000 RPM<br>and 100 bar | Input torque<br>at 100 bar<br>and N.m | Approx. weight<br>Kg |
|-------------|----------------------|----------------|------|----------------------|------|-------------------|------------------------|--------------------------|--|---------------------------------------|----------------------|
|             |                      | bar            | PSI  | bar                  | PSI  |                   | at 1500 RPM<br>l / min | at Maxi speed<br>l / min |  |                                       |                      |
| <b>4075</b> | 075                  | 200            | 2900 | 170                  | 2465 | 2500              | 112,5                  | 187,5                    | 19,37  | 141                                   | 19,5                 |
| <b>4110</b> | 110                  | 200            | 2900 | 170                  | 2465 | 2500              | 165                    | 275                      | 28,42  | 206                                   | 19,7                 |
| <b>4150</b> | 150                  | 200            | 2900 | 170                  | 2465 | 2500              | 225                    | 375                      | 28,60  | 281                                   | 20                   |
| <b>4175</b> | 175                  | 175            | 2625 | 150                  | 2175 | 2500              | 262,5                  | 437,5                    | 34,31  | 327,35                                | 21,5                 |
| <b>4212</b> | 212                  | 150            | 2175 | 130                  | 1885 | 2500              | 318                    | 530                      | 41,57  | 396,56                                | 22                   |
| <b>4250</b> | 250                  | 125            | 1812 | 105                  | 1522 | 2000              | 375                    | 500                      | 49,02  | 467,65                                | 22,5                 |

P1 Maximum pressure in continuous duty.

Maximum Pressure →

P3 Allowable peack pressure.

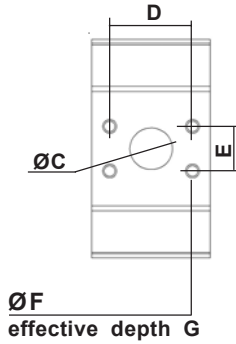


**F.T 40 1418 1/2**

**Consult us for availability**

**CHOICE of the IMPLANTATION of PORTS and RECOMMENDED FLANGES**

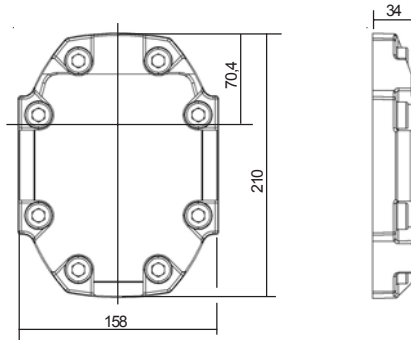
**H**  
(HPI)



| Capacity           | INLET (T) |      |      |     |    | OUTLET (P) |      |      |     |    | CATALOGUE N° 70   |  |  |
|--------------------|-----------|------|------|-----|----|------------|------|------|-----|----|---|--|--|
|                    | ØC        | D    | E    | ØF  | G  | ØC         | D    | E    | ØF  | G  | Ref. of RECOMMENDED FLANGES<br>(for speed 1500 rev / min) |  |  |
|                    |           |      |      |     |    |            |      |      |     |    | INLET (T)   | OUTLET (P)                               |  |
| 4075<br>to<br>4150 | 60        | 77,8 | 42,6 | M12 | 45 | 40         | 77,8 | 42,9 | M12 | 22 | 4075  | 1" 1/4 BSP<br>N: 4.500438<br>V: 4.505071 | 1" BSP<br>N: 4.500437<br>V: 4.505070     |
|                    |           |      |      |     |    |            |      |      |     |    | 4110  | 1" 1/2 BSP<br>N: 4.500439<br>V: 4.504871 | 1" 1/4 BSP<br>N: 4.500438<br>V: 4.505071 |
|                    |           |      |      |     |    |            |      |      |     |    | 4150  | 2" BSP<br>N: 4.500440<br>V: 4.505072     | 1" 1/2 BSP<br>N: 4.500439<br>V: 4.504871 |
| 4175<br>to<br>4250 | 70        | 89   | 50,8 | M12 | 45 | 38         | 77,8 | 42,9 | M12 | 22 | 4175  | 2" BSP<br>N: 4.500440<br>V: 4.505072     | 1" 1/2 BSP<br>N: 4.500439<br>V: 4.504871 |
|                    |           |      |      |     |    |            |      |      |     |    | 4212  | 2" 1/2 BSP<br>N: 4.500443<br>V: 4.505074 | 1" 1/2 BSP<br>N: 4.500439<br>V: 4.504871 |
|                    |           |      |      |     |    |            |      |      |     |    | 4250  | 2" 1/2 BSP<br>N: 4.500443<br>V: 4.505074 | 2" BSP<br>N: 4.500440<br>V: 4.505072     |

**REAR BODY**

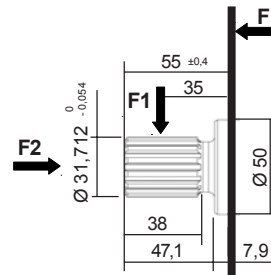
**L**  
Standard



**DRIVING SHAFTS**

| Tapered | Straight keyed | Splined | Tang |
|---------|----------------|---------|------|
| 10      | 20             | 30      | 40   |

**A07**



F1 = 280 daN  
F2 = 100 daN

Involute spline to SAE  
Standard - 14 teeth - 1" 1/4 SAE  
Pitch 16 / 32 - Flat root  
30° Pressure angle

Maxi transmissible torque  
700 N.m



Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

**F.T 40 1418 2/2**

# **JTEKT**

**HPI**

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