



Motors catalog

Motors Series 0



Motors Series 1



Motors Series 2



Motors Series 2,5

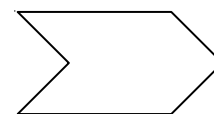


Motors Series 3

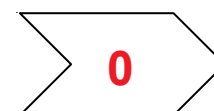


MOTORS CATALOGUE

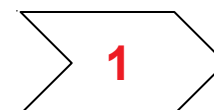
Characteristics and Codification



Hydraulic gear motors
Series 0 Flat front body



Hydraulic gear motors
Series 1 Flat front body



Hydraulic gear motors
Series 2 Flat front body



Hydraulic gear motors
Series 2 Thick front body



Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

PUBLISHING 02 / 2012

Hydraulic gear motors
Series 2,5 Flat front body



2,5

Hydraulic gear motors
Series 2,5 Thick front body



2,5

Hydraulic gear motors
Series 3 Flat front body



3

Hydraulic gear motors
series 3 Thick front body



3



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[home](#)

[contents](#)

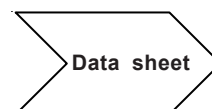
[previous](#)

[next](#)

[main dimensions](#)

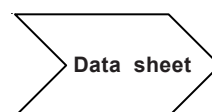
Characteristics and Codifications

Recommendations for installing and maintenance Motors



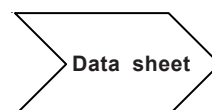
F.T R 0152

Oil recommendations



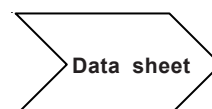
F.T R 0003

Recommendation concerning the drive type of Motors



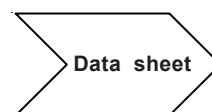
F.T R 0009

Codification of Motors



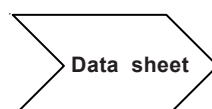
F.T R 0243

Motors Characteristics



F.T R 0054

Compensation CIP 3G



F.T R 0269

Our motors 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.
Motor can be placed in whatever position.

2- Driving

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

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

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

When the motor 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.

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, depressure 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 tème 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.

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 motor oil loss.

Consequences are always damaging to the motor: 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 motor 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 motor.

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 motors 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 motor, 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.

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).

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

Also make sure that no external heat supply disturbs the functioning of the motor. 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 motor 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 motor 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.

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

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

As the JTEKT-HPI hydraulic motors 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 motor.

Recommended couplings:

F.T R 0009 1/3 2/3

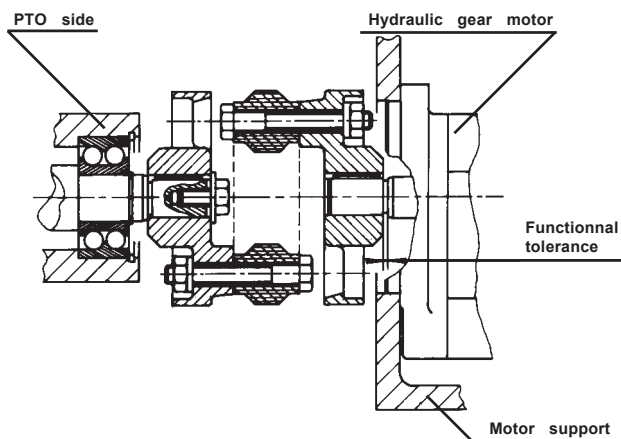
Conditionnally recommended couplings:

F.T R 0009 2/3 3/3

Proscribed couplings:

F.T R 0009 3/3

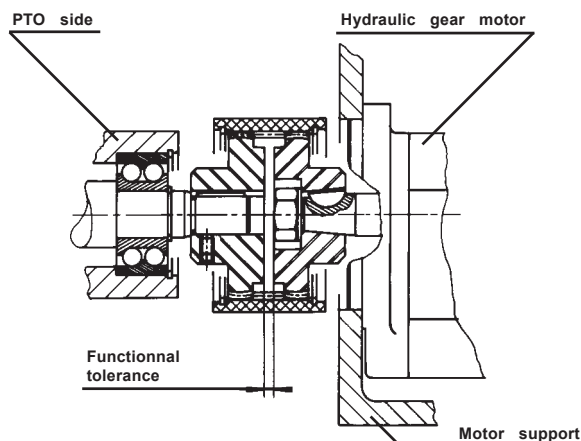
RECOMMENDED COUPLINGS



Mounting with elastic 3 parts coupling.

The motor shafts can be:

- Straight keyed shafts
- Tapered shafts
- Splined shafts

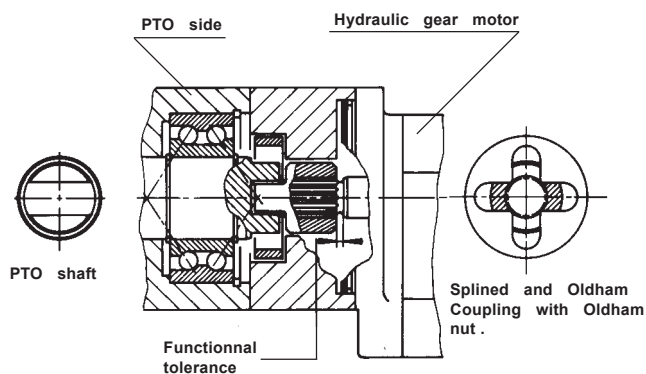


Mounting with 3 parts coupling with bulged gear.

The motor shafts can be:

- Straight keyed shafts
- Tapered shafts
- Splined shafts

RECOMMENDED COUPLINGS

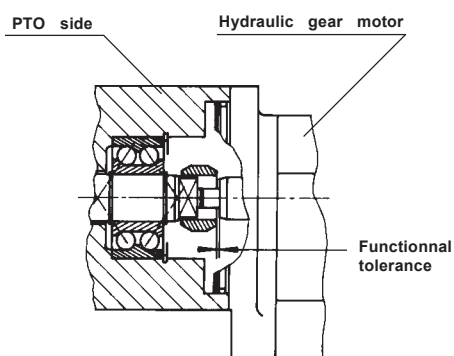


Mounting with coupling and Oldham coupling.

The motor shafts can be:

- Straight keyed shafts
- Tapered shafts
- Splined shafts

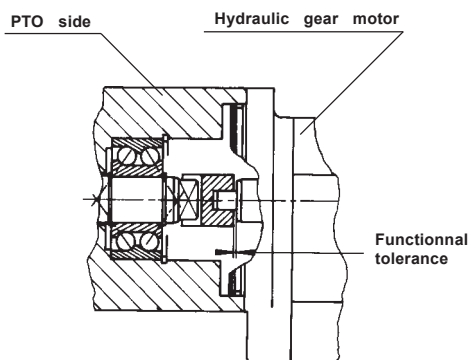
RECOMMENDED LUBRICATION.



Mounting with Oldham coupling.

Tang drive shaft on PTO and motor shaft.

RECOMMENDED LUBRICATION.

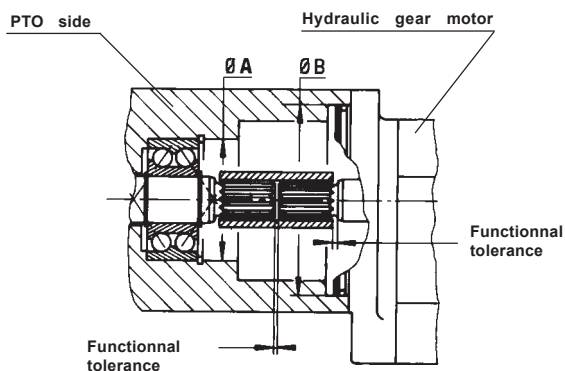


Mounting with Oldham coupling.

Tang drive shaft on PTO and motor shaft.

RECOMMENDED LUBRICATION.

CONDITIONALLY ALLOWED COUPLINGS

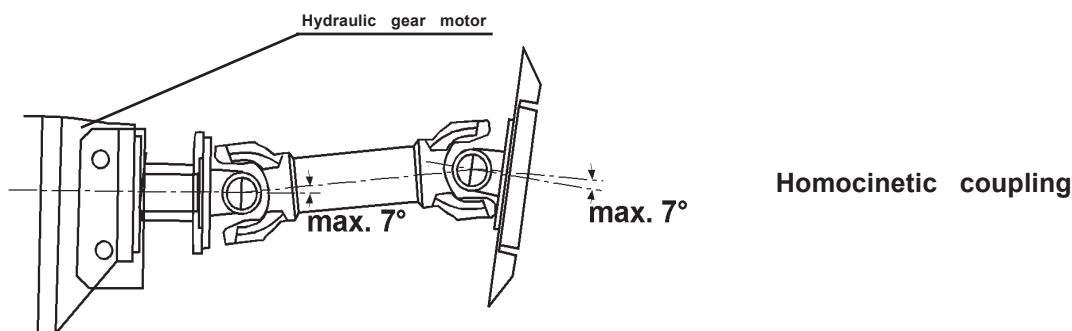


Mounting with splined coupling (Spigot on free flank).

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

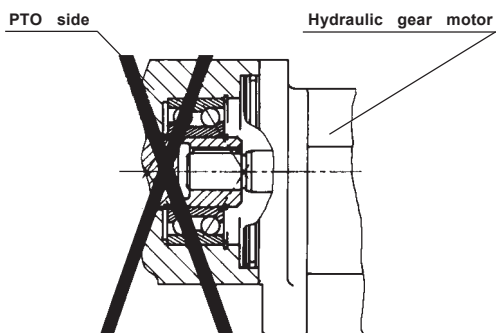
Concentricity $\leq 0,03$ (according to the motor type and capacity).

CONDITIONALLY ALLOWED COUPLINGS



PROSCRIBED COUPLINGS

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

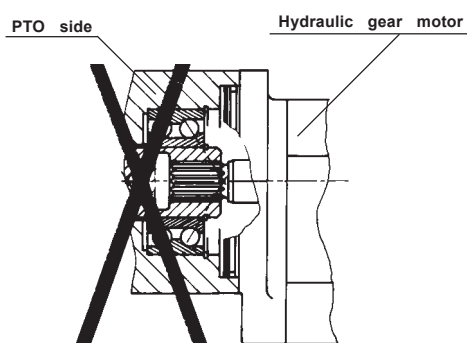


Straight keyed drive.

Hyperstatic mounting.

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

INEVITABLE PUMP SHAFT - CONSTRAINT

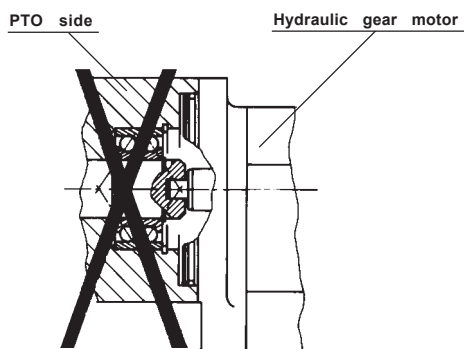


Splined drive.

Hyperstatic mounting.

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

INEVITABLE PUMP SHAFT - CONSTRAINT

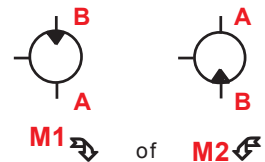


Tang drive.

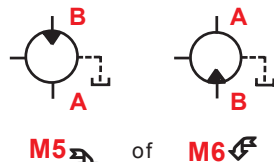
**Motor shaft directly into the
PTO shaft.**

INEVITABLE PUMP SHAFT - CONSTRAINT

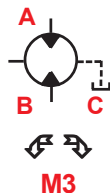
1 Direction



1 Direction with counter pressure



2 Direction with counter pressure



TYPE

Motor **P**

DIRECTION of ROTATION

- Clockwise **1**
- Anti-clockwise **2**
- 2 Direction with counter pressure **3**
- 1 Direction (Clockwise) with counter pressure **5**
- 1 Direction (Anti-clockwise) with counter pressure **6**

FRONT BODY

MOUNTING FLANGE

- 2 and 4 holes (USA - ISO) **A**
- 4 holes (Englisch - Italian) **B**
- 2 and 4 holes (French) **C**
- 2 and 4 holes (German) **D**

A, B, C, D, E, F, J, L, R, W, Z

Execution variation

FLAT FRONT BODY

- without tightness on spigot joint **N**
- with tightness on spigot joint **K**

THICK FRONT BODY WITH FRONT BEARING

Power Series

- without tightness on spigot joint **P**
- with tightness on spigot joint **R**

TYPE of the SERIES

- Series **0**
- Series **1**
- Series **2**
- Series **2,5**
- Series **3**

CAPACITY in the SERIES (cc / rev)

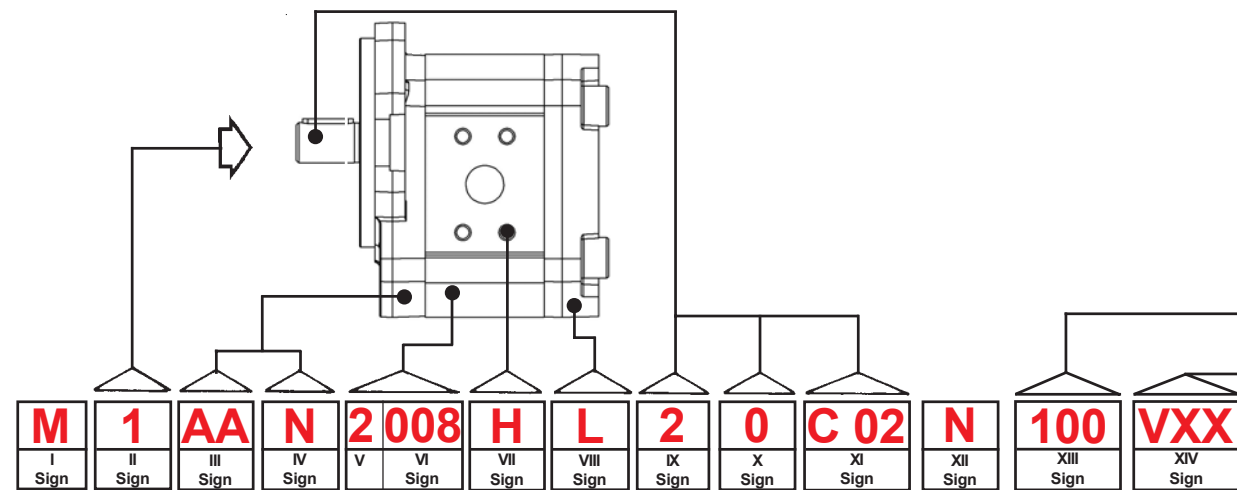
- Series **0** 0,50 - 0,75 - 1,00 - 1,25 - 1,50 - 2,00
- Series **1** (00)2 - (00)3 - (00)4 - (00)5 - (00)6
- Series **2** (00)6 - (00)8 - (0)10 - (0)12 - (0)14 - (0)15 - (0)17 - (0)18 - (0)22 - (0)26 - (0)30
- Series **2,5** 12 - 15 - 17 - 18 - 22
- Series **3** (0)31 - (0)40 - (0)50 - (0)60 - (0)71 - (0)80 - (0)90 - 100

Préfixe(0) only to get the conformity of the codification

Non Standard Product, Contact us

CAUTION :

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



Pressure

Speed of rotation

SHAFT SEAL

- N** Nitrile
- V** Viton

PRIMARY SHAFT CODE

see data sheets

TYPE of SHAFT

- Front
- Rear
- 1** Tapered
- 2** Straight keyed
- 3** Splinned
- 4** Tang
- 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
- Q** Internal flow control
- AR** with block, configuration MBPS

PORTS LOCATION

- H** Implantation HPI
- C** Square location
- F** Threaded ports
- Y** ISO location (Norm 6162)
- B** Italian location
- U** SAE threaded location (Norm J475)
- X** without ports (Mounting with rear body Typ A)

SERIES	MODEL	Capacity	MINI SPEED	MAXI PRESSURE at MINI SPEED		MAXI SPEED	MAXI PRESSURE at MAXI SPEED		NOMINAL FLOW		input power in kW at 1000 RPM and 100 bar	Input torque at 100 bar in m.daN	approx. weight Kg
		cc / rev	RPM	bar	PSI	RPM	bar	PSI	at 1500 rev / min	at maxi speed			
									l / min	l / min			

0

0050	0,50	500	100	1450	8000	250	3625	0,75	4	0,10	0,54	0,42
0075	0,75	500	100	1450	8000	220	3190	1,12	6	0,15	1,40	
0100	1	500	100	1450	8000	200	2900	1,50	8	0,20	1,87	0,45
0125	1,25	500	100	1450	6000	150	2175	1,87	7,5	0,25	2,34	
0150	1,50	500	100	1450	6000	120	1740	2,25	9	0,29	2,81	
0200	2	500	100	1450	5000	100	1450	3	10	0,39	3,74	0,50

1

1002	2,05	1000	200	2900	8000	250	3625	3,07	16,4	0,40	3,83	0,9
1003	3,07	1000	200	2900	7000	250	3625	4,60	21,4	0,60	5,74	
1004	4,09	800	175	2537	6000	200	2900	6,13	24,5	0,80	7,65	1,1
1005	5,12	500	150	2175	6000	175	2537	7,68	30,7	1	9,58	
1006	6,14	400	150	2175	6000	175	2537	9,21	30,7	1,20	11,49	

2

2006	6,45	300	150	2175	4000	250	3625	9,67	22,5	1,26	12,07	1,6
2008	8,25	300	150	2175	4000	250	3625	12,37	28,8	1,62	15,43	1,7
2010	10,12	300	150	2175	4000	250	3625	15,18	35,3	1,98	18,93	1,7
2012	12	250	150	2175	4000	250	3625	18	42	2,35	22,45	1,7
2014	13,8	200	200	2900	3500	225	3260	20,7	48,3	2,71	25,81	2
2015	15,52	200	200	2900	3500	225	3260	23,25	52,5	3,04	29,03	2,1
2017	17,3	200	200	2900	3500	225	3260	25,95	60,55	3,39	32,36	2,1
2018	19,12	200	150	2175	3500	175	2537	28,65	66,8	3,75	35,77	2,2
2022	22,87	200	150	2175	3500	150	2175	34,2	79,8	4,48	42,78	2,3
2026	27,6	200	150	2175	3000	150	2175	41,4	82,8	5,41	51,63	2,7
2030	31,2	200	150	2175	3000	150	2175	46,8	93,6	6,12	58,36	2,8

Dimension readings and approximative characteristics subject to modifications

SERIES	MODEL	Capacity cc / rev	MINI SPEED RPM	MAXI PRESSURE at MINI SPEED bar PSI		MAXI SPEED RPM	MAXI PRESSURE at MAXI SPEED bar PSI		NOMINAL FLOW		input power in kW at 1000 RPM and 100 bar	Input torque at 100 bar in Nm	approx. weight Kg
									at 1500 rev / min	at maxi speed			
									l / min	l / min			

2,5

2512	12	250	200	2900	4000	225	3260	18	48	2,35	22,45	2,3
2515	15,52	200	200	2900	3500	225	3260	23,25	52,5	3,04	29,03	2,6
2517	17,3	200	200	2900	3500	225	3260	25,95	60,55	3,39	32,36	2,6
2518	19,12	200	150	2175	3500	175	2537	28,65	66,8	3,75	35,77	2,7
2522	22,87	200	150	2175	3500	150	2175	34,2	79,8	4,48	42,78	2,8

3

3025	25,8	300	200	2900	3000	250	3625	38,7	77,4	4,90	4,63	5,6
3031	32,1	300	200	2900	3000	225	3260	48,15	96,3	6,10	5,73	5,6
3040	41,5	250	200	2900	3000	225	3260	62,25	124,5	7,85	7,37	5,7
3050	51,65	250	200	2900	3000	225	3260	77,47	154,9	9,77	9,21	6,9
3060	62,6	200	175	2537	3000	200	2900	93,9	156,5	11,85	11,05	7
3071	73,55	200	150	2175	2500	200	2900	110,32	183,8	13,92	13,08	7
3080	82,95	200	125	1812	2500	175	2537	124,42	182,4	15,59	14,60	7,1
3090	92,95	200	125	1812	2000	175	2537	139,42	185,9	17,47	16,47	7,8
3100	103,9	200	125	1812	2000	175	2537	155,85	207,8	19,40	18,17	8

Dimension readings and approximative characteristics subject to modifications

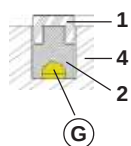
F.T R 0054 2/2


Consult us for availability

[home](#)
[contents](#)
[previous](#)
[next](#)
[main dimensions](#)

PUBLISHING 02 / 2012

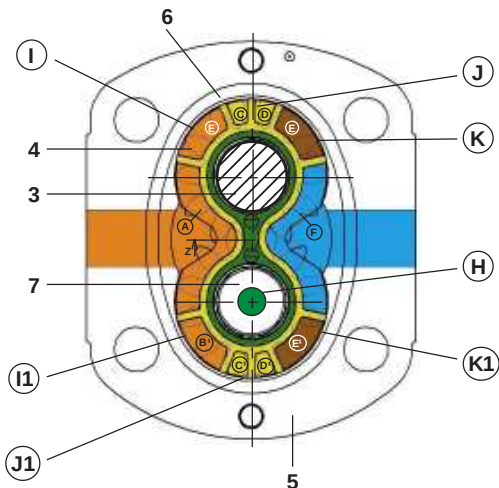
Section ZZ



	P1 A B B1
	G C D C1 D1
	E E1
	P2 F
	H

Balanced system zones

High pressure (primary pressure)
Median pressure
Average pressure
Counter pressure from 0 to P max (secondary pressure)
Low pressure (communication with tank)



- 1 Anti-extrusion seal of the integral compensation
- 2 Tightness seal of the integral compensation
- 3 Driving shaft
- 4 Monoblock bearing
- 5 Body of motor
- 6 Tightness seal in between bodies
- 7 Driven shaft

FUNCTIONS: I (I1) Feeding canal of zone B (B1)
J (J1) Bi-operation feeding canal of zones C-D (C1 - D1) and G
M (M1) Feeding canal of zone E

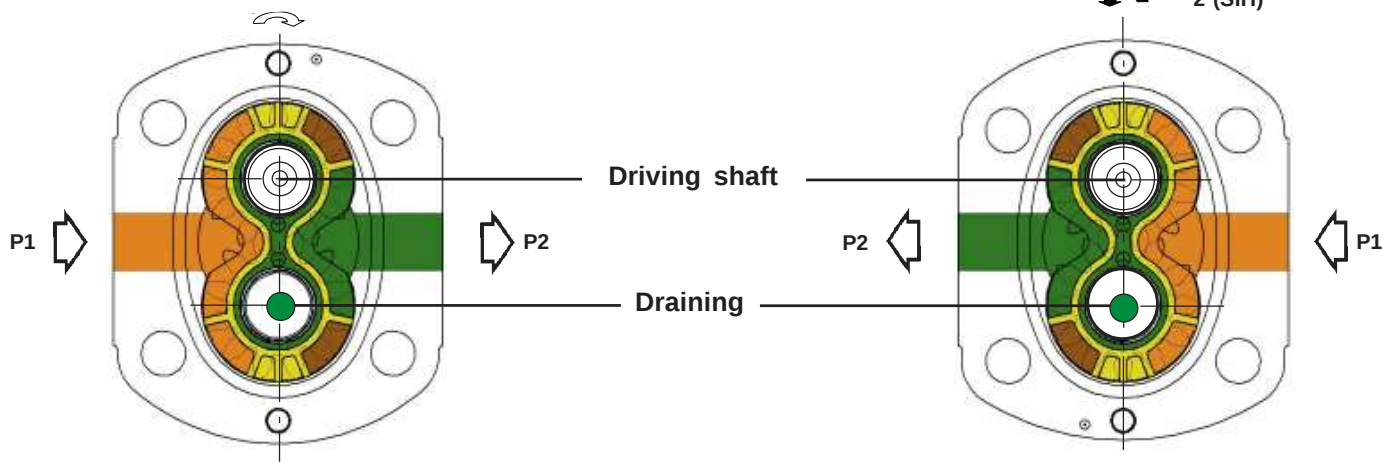
C.I.P 3G.M5

Clockwise 1 (SH)

**1 way rotation
without counter-pressure**

C.I.P 3G.M6

Anti-Clockwise 2 (SIH)



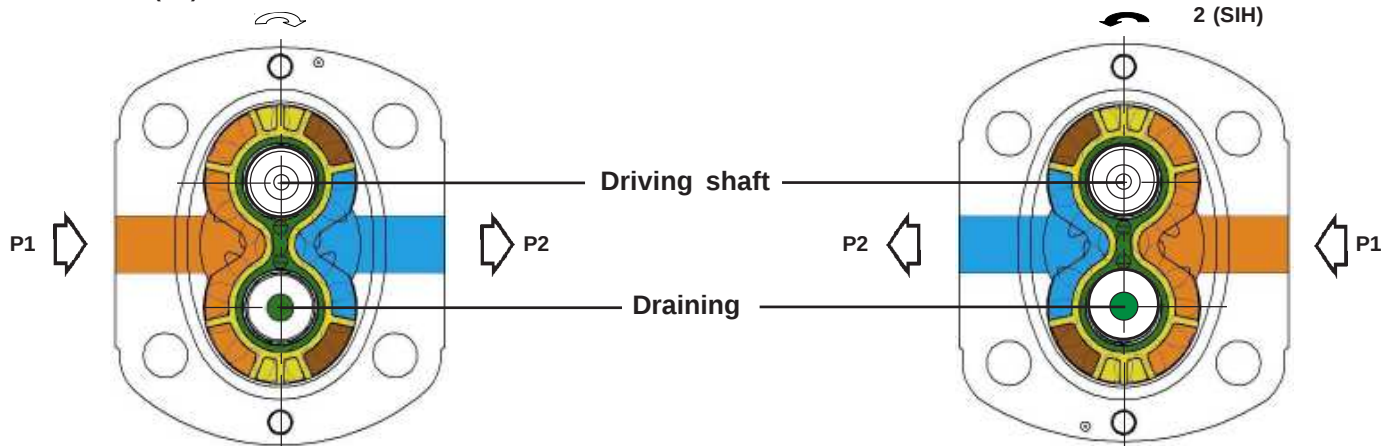
C.I.P 3G.M3

Clockwise 1 (SH)

**1 or 2 ways rotation
with counter-pressure**

C.I.P 3G.M3

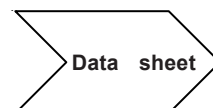
Anti-Clockwise 2 (SIH)



Dimensions readings and approximative characteristics subject to modifications.

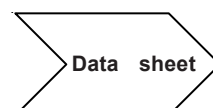
F.T.R 0269

MOTORS PRESENTATION SERIES 0



F.T 00 1420

MOTOR **AAN**



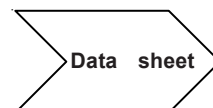
F.T 00 1421

MOTOR **AAK**



F.T 00 1422

MOTOR **DCN**



F.T 00 1423

MOTOR **DCK**



F.T 00 1424



Consult us for availability

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
0050	0,50	200	2900	230	3335	250	3625	5000	6000	800	1200	1500	5000	0,42
0075	0,75	175	2537	200	2900	220	3190	5000	6000	800	1200	1500 ^{220 bar}	5000	
0100	1	160	2320	180	2610	200	2900	5000	6000	800	1200	1500 ^{200 bar}	5000	
0125	1,25	100	1450	120	1740	150	2175	3500	4500	500	1000 ^{150 bar}		3500	0,45
0150	1,50	70	1015	90	1305	120	1740	3500	4500	500	1000 ^{150 bar}		3500	
0200	2	70	1015	85	1232	100	1450	3000	4000	500	1000 ^{150 bar}		3000	

The working cycles mentioned above are possible with hydraulic mineral oil for between 12 and 150Cst - 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 temperatures : - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C / 284 °F with Viton shaft seal).

Full flow filtration from 10 to 15 micron at the motor inlet or the return circuit.

MAXIMUM PRESSURE:

For the motors with one direction of rotation (M1/M2), the outlet pressure must not exceed 1 bar.

For the motors with two directions of rotation (M5/M6), the pressure in the drain line must not exceed 1 bar.

For the motors with two directions of rotation (M3), the pressure in the drain line must not exceed 1 bar.

For the working conditions exceeding the above mentioned cycles or in case of torque transmission by driving belt, chain or toothed wheel, please contact our sales department.

(The tests are effected with the oil SHELL Tellus T 46)

The above technical data are valid for motor transmitting the torque by an elastic coupling, perfectly aligned, without any outside radial and axial forces.

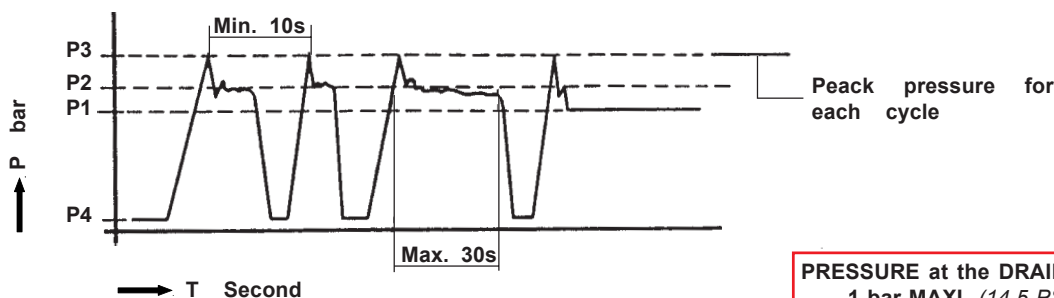
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

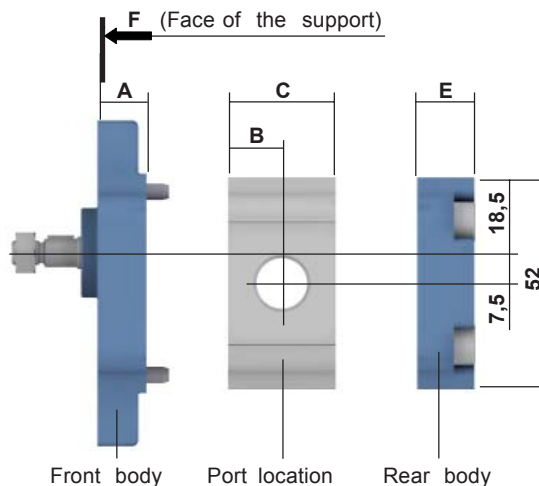
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Front body:	A
AAN / AAK - DCN / DCK	12

Port location (Capacity):	B	C
0050 - 0075	13,2	26,4
0100 - 0125 - 0150	16,4	32,8
0200	20,6	41,2

Rear body:	E
L	14



Consult us for availability

M		III Sign	IV Sign	0	VI Sign	VII Sign	VIII Sign	IX Sign	X Sign	XI Sign	XII Sign
----------	--	-------------	------------	----------	------------	-------------	--------------	------------	-----------	------------	-------------

For CODIFICATION, see data sheet **F.T R 0243**

DIRECTION of ROTATION (II Sign)					FLAT FRONT BODIES (III and IV Sign)	CAPACITY (V and VI Sign)	PORT LOCATION (VII Sign)	REAR BODY (VIII Sign)	DRIVING SHAFTS (IX , X and XI Sign)	
M 1	M 2	M 3	M 5	M 6					STRAIGHT KEYED	TANG
									20	40
X	X	X	X	X	AAN / AAK DCN / DCK 	0050 0075 0100 0125 0150 0200	 	 20 B01 40 C01 40 C15		
X	X	X	X	X						

LEGENDES

DIRECTION of ROTATION

- M1** = Clockwise
- M2** = Anti clockwise
- M3** = 2 Direction with Counter Pressure
- M5** = 1 Direction with Counter Pressure
- M6** = 1 Direction with Counter Pressure

FRONT BODIES

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

PORT LOCATION

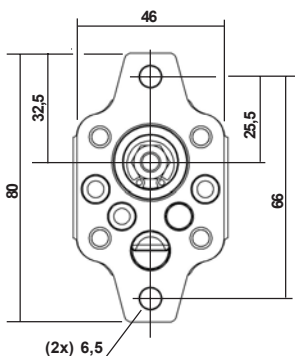
- F** = Threaded ports

REAR BODY

- L** = Standard

FLAT FRONT BODIES

AAN / AAK

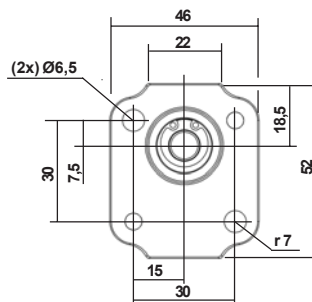


Centering: $\varnothing 22 \begin{smallmatrix} -0,02 \\ -0,041 \end{smallmatrix}$
Thickness: 4

AAN : F.T 00 1421

AAK : F.T 00 1422

DCN / DCK



Centering: $\varnothing 22 \begin{smallmatrix} -0,02 \\ -0,041 \end{smallmatrix}$
Thickness: 4

DCN : F.T 00 1423

DCK : F.T 00 1424

Dimensions readings and approximative characteristics subject to modifications.

F.T 00 1420 2/3

Consult us for availability

home

contents

previous

next

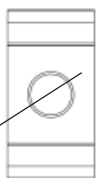
main dimensions

CHOICE of IMPLANTATIONS of PORTS

F

(Threaded)

$\varnothing F$
effective
depth G



Capacity	INLET					OUTLET				
	$\varnothing C$	D	E	$\varnothing F$	G	$\varnothing C$	D	E	$\varnothing F$	G
0050 to 0200				M14 x150	12				M14 x150	12

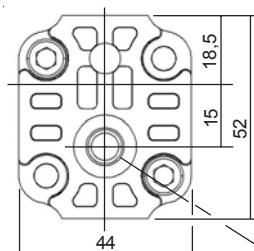
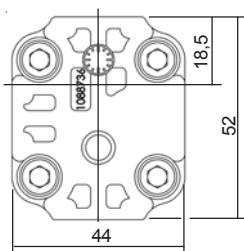
REAR BODY

MOTORS M1 - M2

MOTORS M3 - M5 - M6

L

Standard



Drainage 1/8" Gaz Prof. utile 7 pour
moteur tournant dans les 2 sens de
rotation, ou a 1 seul sens mais
fonctionnant avec une contre pression
sur l'orifice retour.

Couple de serrage maxi du raccord

30 N.m

DRIVING SHAFTS

Tapered

10

Straight keyed

20

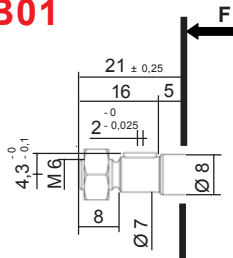
Splinned

30

Tang

40

B01

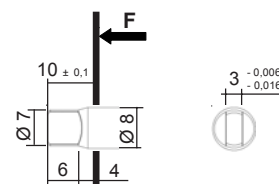


Delivered with Nut Ref.: K108328

Maxi transmissible torque

5 N.m

C01



Maxi transmissible torque

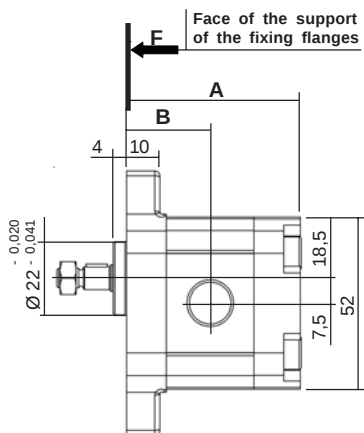
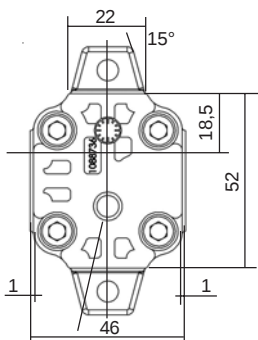
6 N.m

Dimensions readings and approximative characteristics subject to modifications.

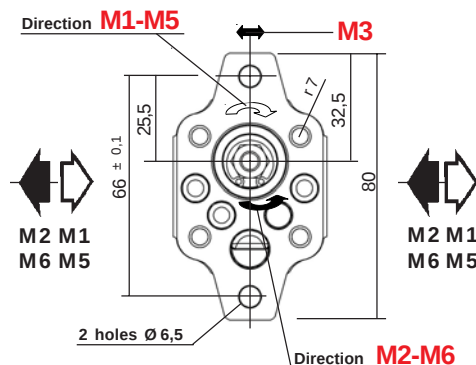
F.T 00 1420 3/3



For CODIFICATION, see data sheet **F.T R 0243**



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/8" BSP effective depth 7 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
30 N.m

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

Seal kits:

M1 - M2
Nitrile: K5073819 Viton: K5073820
(For manufacture to since march 1991)

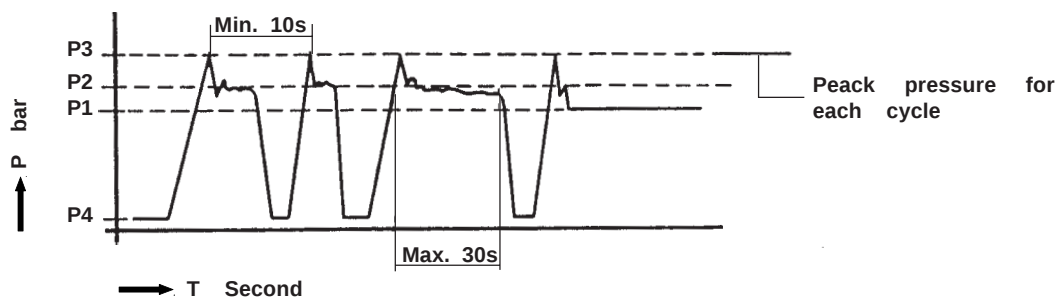
M3 - M5 - M6
Nitrile: K5071063 Viton: K5071064
(For manufacture to since march 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
0050	0,50	200	2900	230	3335	250	3260	5000	6000	800	1200	1500	5000	0,42
0075	0,75	175	2537	200	2900	220	3190	5000	6000	800	1200	1500 ^{220 bar}	5000	
0100	1	160	2320	180	2610	200	2900	5000	6000	800	1200	1500 ^{200 bar}	5000	
0125	1,25	100	1450	120	1740	150	2175	3500	4500	500	1000 ^{150 bar}	1500 ^{200 bar}	3500	0,45
0150	1,50	70	1015	90	1305	120	1740	3500	4500	500	1000 ^{150 bar}	1500 ^{200 bar}	3500	
0200	2	70	1015	85	1232	100	1450	3000	4000	500	1000 ^{150 bar}	1500 ^{200 bar}	3000	0,50

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet & P (Only in M3)



Dimensions readings and approximative characteristics subject to modifications.

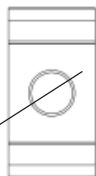
F.T 00 1421 1/2

CHOICE of the IMPLANTATION of PORTS

F

(Threaded)

ØF
effective
depth G



Capacity	INLET					OUTLET				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
0050 to 0200				M14 x150	12				M14 x150	12

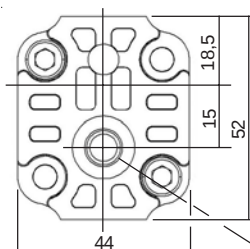
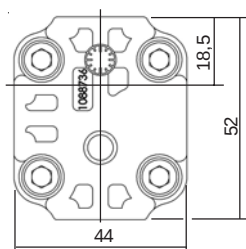
REAR BODY

MOTORS M1 - M2

MOTORS M3 - M5 - M6

L

Standard



Drain port 1/8" BSP effective depth 7 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
30 N.m

DRIVING SHAFTS

Tapered

10

Straight keyed

20

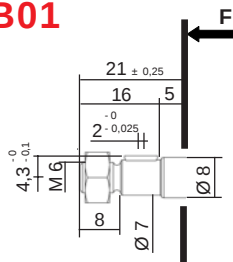
Splinned

30

Tang

40

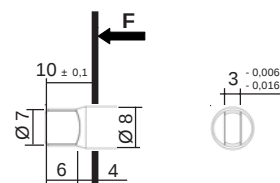
B01



Delivered with Nut Ref.: K108328

Maxi transmissible torque
5 N.m

C01



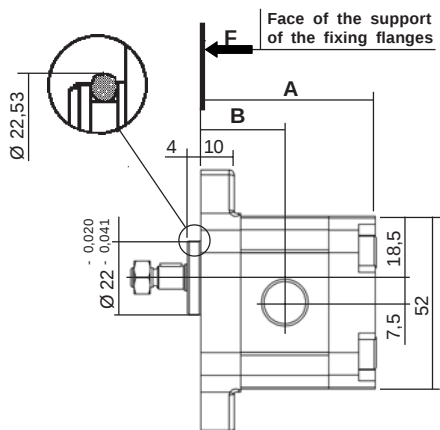
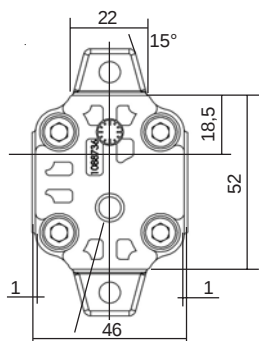
Maxi transmissible torque
6 N.m

Dimensions readings and approximative characteristics subject to modifications.

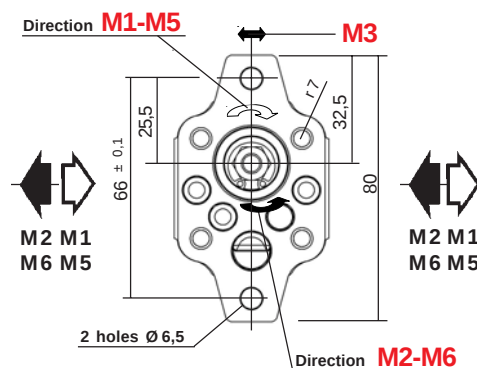
F.T 00 1421 2/2



For CODIFICATION, see data sheet **F.T R 0243**



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/8" BSP effective depth 7 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
30 N.m

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

Seal kits:

M1 - M2
Nitrile: K5073819 + K100256
Viton: K5073820 + K105494
(For manufacture to since march 1991)

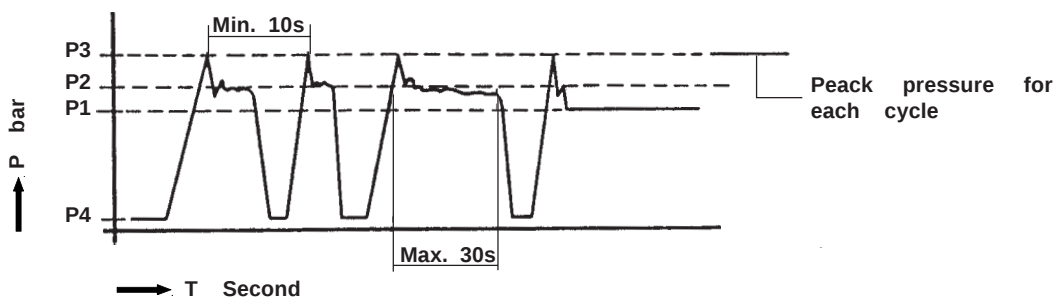
M3 - M5 - M6
Nitrile: K5071063 + K100256
Viton: K5071064 + K105494
(For manufacture to since march 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
0050	0,50	200	2900	230	3335	250	3260	5000	6000	800	1200	1500	5000	0,42
0075	0,75	175	2537	200	2900	220	3190	5000	6000	800	1200	1500	5000	
0100	1	160	2320	180	2610	200	2900	5000	6000	800	1200	1500	5000	
0125	1,25	100	1450	120	1740	150	2175	3500	4500	500	1000	1500	3500	0,45
0150	1,50	70	1015	90	1305	120	1740	3500	4500	500	1000	1500	3500	
0200	2	70	1015	85	1232	100	1450	3000	4000	500	1000	1500	3000	0,50

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet & P (Only in M3)



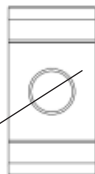
Consult us for availability

CHOICE of the IMPLANTATION of PORTS

F

(Threaded)

ØF
effective
depth G



Capacity	INLET					OUTLET				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
0050 to 0200				M14 x150	12				M14 x150	12

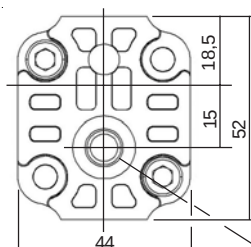
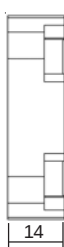
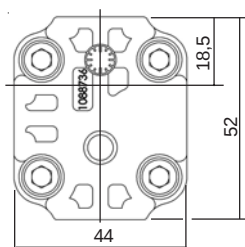
REAR BODY

MOTORS M1 - M2

MOTORS M3 - M5 - M6

L

Standard



Drain port 1/8" BSP effective depth 7 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
30 N.m

DRIVING SHAFTS

Tapered

10

Straight keyed

20

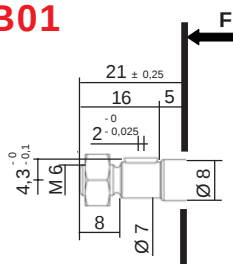
Splinned

30

Tang

40

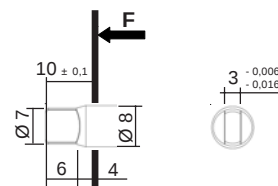
B01



Delivered with Nut Ref.:K108328

Maxi transmissible torque
5 N.m

C01



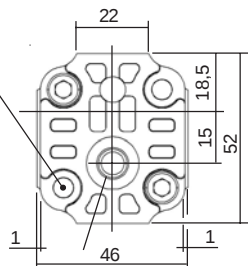
Maxi transmissible torque
6 N.m

Consult us for availability



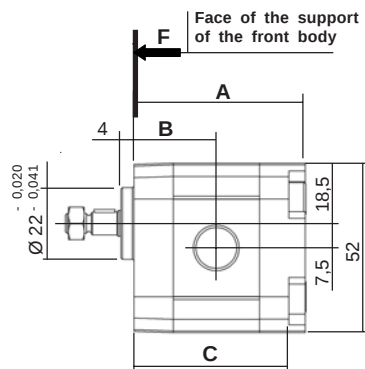
For CODIFICATION, see data sheet **F.T R 0243**

Tightening torque
20 ± 0,2 m.daN

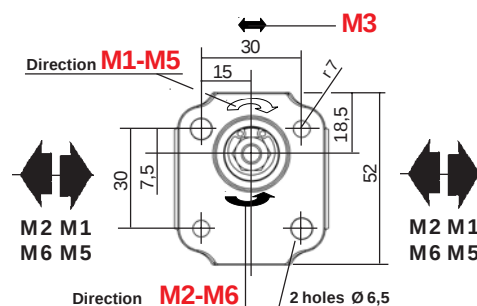


Drain port 1/8" BSP effective depth 7 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
30 N.m



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



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

Seal kits:

M1 - M2

Nitrile: **K5073819** Viton: **K5073820**
(For manufacture to since march 1991)

M3 - M5 - M6

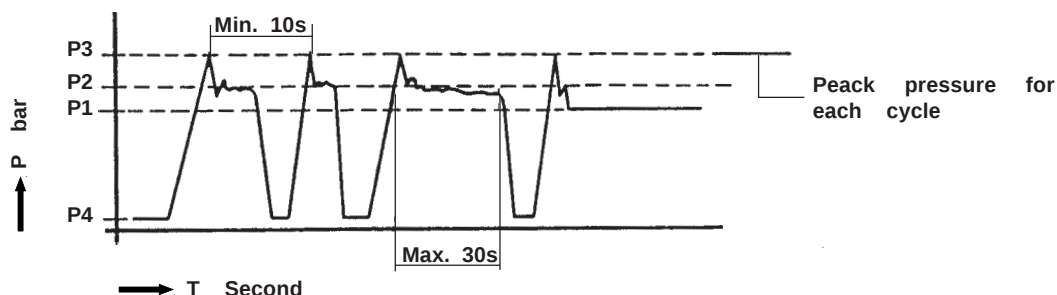
Nitrile: **K5071063** Viton: **K5071064**
(For manufacture to since march 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
0050	0,50	200	2900	230	3335	250	3260	5000	6000	800	1200	1500	5000	0,42
0075	0,75	175	2537	200	2900	220	3190	5000	6000	800	1200	1500 ^{220 bar}	5000	
0100	1	160	2320	180	2610	200	2900	5000	6000	800	1200	1500 ^{200 bar}	5000	
0125	1,25	100	1450	120	1740	150	2175	3500	4500	500	1000 ^{150 bar}		3500	0,45
0150	1,50	70	1015	90	1305	120	1740	3500	4500	500	1000 ^{150 bar}		3500	
0200	2	70	1015	85	1232	100	1450	3000	4000	500	1000 ^{150 bar}		3000	0,50

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet & P (Only in M3)



Dimensions readings and approximative characteristics subject to modifications.

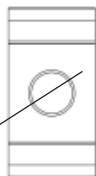
F.T 00 1423 1/2

CHOICE of the IMPLANTATION of PORTS

F

(Threaded)

ØF
effective
depth G



Capacity	INLET					OUTLET				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
0050 to 0200				M14 x150	12				M14 x150	12

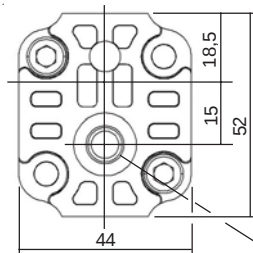
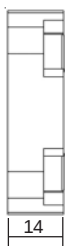
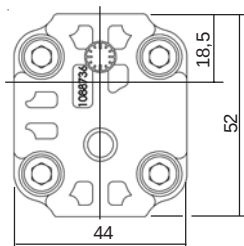
REAR BODY

MOTORS M1 - M2

MOTORS M3 - M5 - M6

L

Standard



Drain port 1/8" BSP effective depth 7 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
30 N.m

DRIVING SHAFTS

Tapered

10

Straight keyed

20

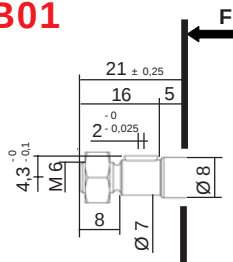
Splinned

30

Tang

40

B01

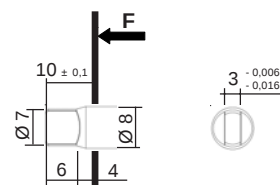


Delivered with Nut Ref.:K108328

Maxi transmissible torque

5 N.m

C01



Maxi transmissible torque

6 N.m

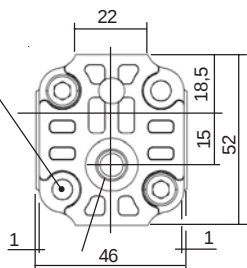
Dimensions readings and approximative characteristics subject to modifications.

F.T 00 1423 2/2



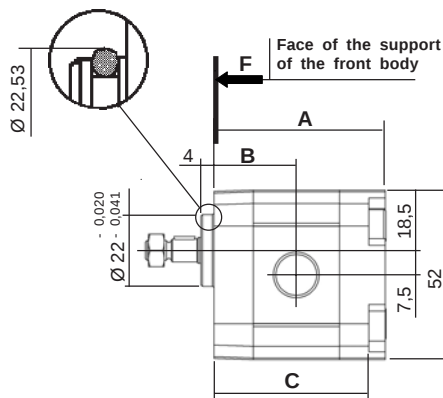
For CODIFICATION, see data sheet **F.T R 0243**

Tightening torque
20 ± 0,2 m.daN

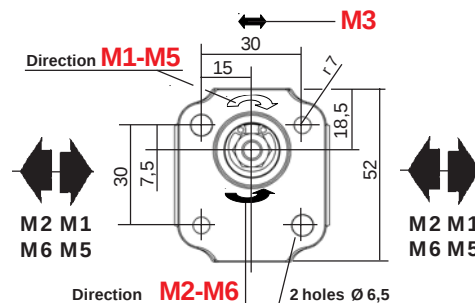


Drain port 1/8" BSP effective depth 7 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
30 N.m



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



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

Seal kits:

M1 - M2

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

M3 - M5 - M6

Nitrile: **K5071063 + K100256**
Viton: **K5071064 + K105494**
(For manufacture to since march 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
0050	0,50	200	2900	230	3335	250	3260	5000	6000	800	1200	1500	5000	0,42
0075	0,75	175	2537	200	2900	220	3190	5000	6000	800	1200	1500 220 bar	5000	
0100	1	160	2320	180	2610	200	2900	5000	6000	800	1200	1500 200 bar	5000	0,45
0125	1,25	100	1450	120	1740	150	2175	3500	4500	500	1000 150 bar	1500 150 bar	3500	
0150	1,50	70	1015	90	1305	120	1740	3500	4500	500	1000 150 bar	1500 150 bar	3500	
0200	2	70	1015	85	1232	100	1450	3000	4000	500	1000 150 bar	1500 150 bar	3000	0,50

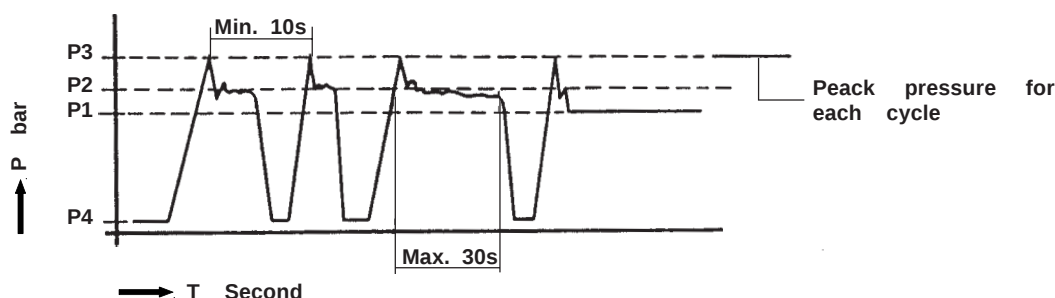
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet & P (Only in M3)



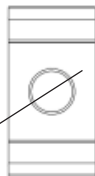
Consult us for availability

CHOICE of the IMPLANTATION of PORTS

F

(Threaded)

ØF
effective
depth G



Capacity	INLET					OUTLET				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
0050 to 0200				M14 x150	12				M14 x150	12

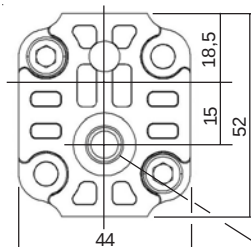
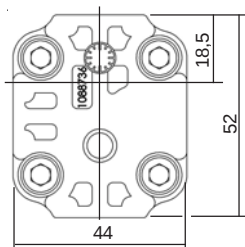
REAR BODY

MOTORS M1 - M2

MOTORS M3 - M5 - M6

L

Standard



Drain port 1/8" BSP effective depth 7 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
30 N.m

DRIVING SHAFTS

Tapered

10

Straight keyed

20

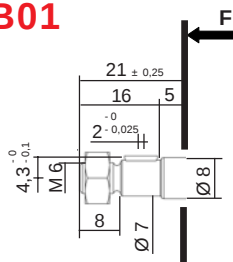
Splinned

30

Tang

40

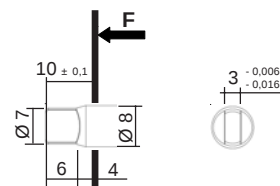
B01



Delivered with Nut Ref.:K108328

Maxi transmissible torque
5 N.m

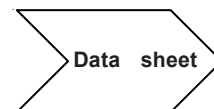
C01



Maxi transmissible torque
6 N.m

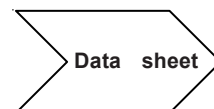
Consult us for availability

MOTORS PRESENTATION SERIES 1



F.T 10 1425

MOTOR **AAN**



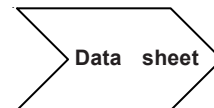
F.T 10 1426

MOTOR **AAK**



F.T 10 1427

MOTOR **BAN**



F.T 10 1428

MOTOR **CBN**



F.T 10 1429

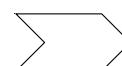
MOTOR **CBK**



F.T 10 1430



Consult us for availability



MOTOR

DCN



Data sheet

F.T 10 1431

MOTOR

DCK



Data sheet

F.T 10 1432



Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

PUBLISHING 02 / 2012

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at ΔP ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		

1002	2,05	200	2900	230	3335	250	3625	5000	6000	1000	1200	1400	8000	0,9
1003	3,07	200	2900	230	3335	250	3625	5000	6000	900	1100	1400	8000	
1004	4,09	150	2175	180	2610	200	2900	4000	5000	700	1000	1200 ^{200 bar}	6000	1,1
1005	5,12	125	1812	150	2175	175	2537	3500	4500	500	900 ^{175 bar}		5000	
1006	6,14	125	1812	140	2030	175	2537	3000	4000	500	900 ^{175 bar}		4500	

The working cycles mentioned above are possible with hydraulic mineral oil for between 12 and 150cSt - 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 temperatures : - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C / 284 °F with Viton shaft seal).

Full flow filtration from 10 to 15 micron at the motor inlet or the return circuit.

MAXIMUM PRESSURE:

For the motors with one direction of rotation (M1/M2), the outlet pressure must not exceed 1 bar.

For the motors with two directions of rotation (M5/M6), the pressure in the drain line must not exceed 1 bar.

For the motors with two directions of rotation (M3), the pressure in the drain line must not exceed 1 bar.

For the working conditions exceeding the above mentioned cycles or in case of torque transmission by driving belt, chain or toothed wheel, please contact our sales department.

(The tests are effected with the oil SHELL Tellus T 46)

The above technical data are valid for motor transmitting the torque by an elastic coupling, perfectly aligned, without any outside radial and axial forces.

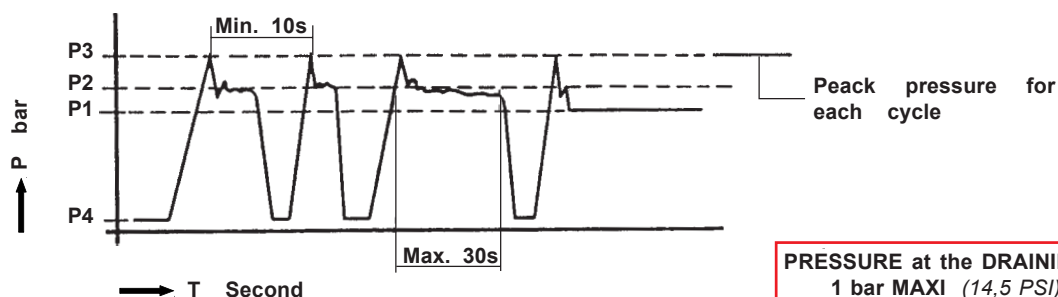
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Front bodies:

AAN / AAK - BAN - CBN / CBK
DCN / DCK

A

18

Port location (Capacity):

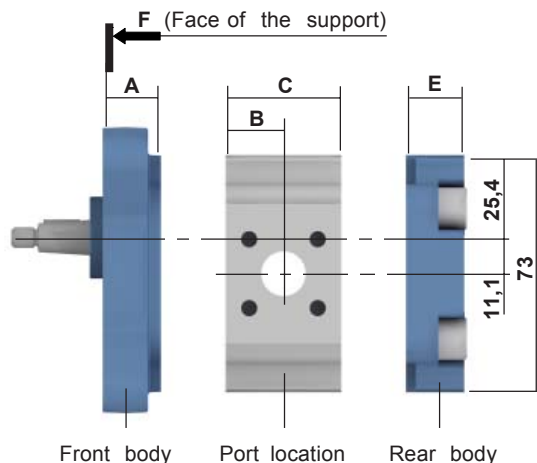
	B	C
1001 - 1002 - 1003	17,9	35,8
1004 - 1005 - 1006	22,7	45,6

Rear bodies:

L - A -

E

18



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[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

PUBLISHING 02 / 2012

Dimensions readings and approximative characteristics subject to modifications.

F.T 10 1425 1/5

M	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 0243**

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 SHAFTS (IX , X and XI Sign)			
M 1	M 2	M 3	M 5	M 6				C	F	X	L	A	TAPERED	STRAGHT KEYED	SPLINED	TANG
X	X	X	X	X		AAN / AAK										
X	X	X	X	X		BAN	1002 1003 1004 1005 1006						 10 C01			 40 C02
X	X	X	X	X		CBN / CBK										
X	X	X	X	X		DCN / DCK										

LEGENDES

DIRECTION of ROTATION

- M1 = Clockwise
M2 = Anti clockwise
M3 = 2 Direction with Counter Pressure
M5 = 1 Direction with Counter Pressure
M6 = 1 Direction with Counter Pressure

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

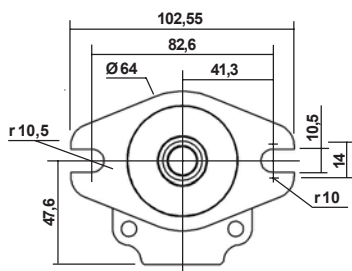
REAR BODIES

- L = Standard
A = with rear ports

Dimensions readings and approximative characteristics subject to modifications.

FRONT BODIES

AAN / AAK

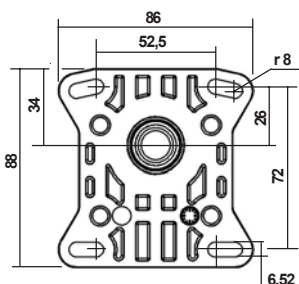


Centering: $\varnothing$ 50,8<sup>0
-0,05</sup>

Thickness: 6
AAN: F.T 10 1294

AAK: F.T 10 1326

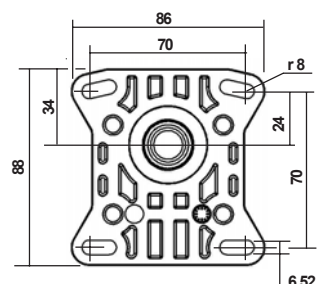
BAN



Centering: $\varnothing$ 25,35<sup>0,02
0,041</sup>

Thickness: 4
BAN: F.T 10 1295

CBN / CBK

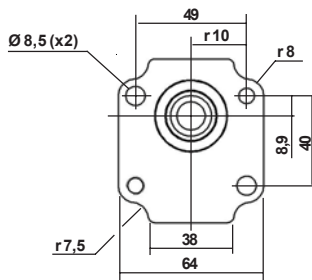


Centering: $\varnothing$ 35<sup>0,025
0,05</sup>

Thickness: 4
CBN: F.T 10 1296

CBK: F.T 10 1327

DCN / DCK



Centering: $\varnothing$ 32<sup>0,025
0,05</sup>

Thickness: 4
DCN: F.T 10 1297

DCK: F.T 10 1328

Dimensions readings and approximative characteristics subject to modifications.

F.T 10 1425 3/5

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

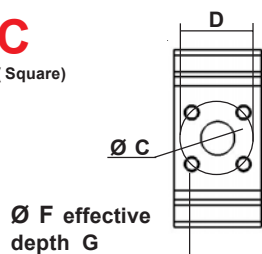
[main dimensions](#)

PUBLISHING 17 / 03 / 2011

CHOICE of the IMPLANTATIONS of PORTS

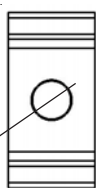
Port connector, see our Catalogue N° 70

C
(Square)

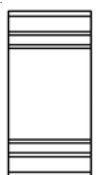


F
(Threaded)

ØF
effective
depth G



X
(with ports)

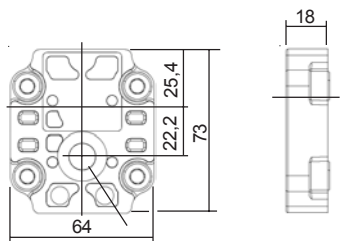


Capacity	DIMENSIONS								AFFECTATION					
	INLET PORT A				OUTLET PORT B				1 way rotation without counter pressure M1		2 ways rotation with counter pressure M2		1 way rotation with counter pressure M5	
	ENTREE		SORTIE		ENTREE		SORTIE		ENTREE		SORTIE		ENTREE	
	ØC	D	ØF	G	ØC	D	ØF	G	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
1002 1003 1004 to 1006	14	30	M6	13	14	30	M6	13	A	B	B	A	B	A
1002 1003 1004 to 1006			3/8" BSP	12			3/8" BSP	12	A	B	B	A	B	A
1004 to 1006			1/2" BSP	14			3/8" BSP	12						
1002 to 1006	Only with rear body Type A													

Dimensions readings and approximative characteristics subject to modifications.

REAR BODIES

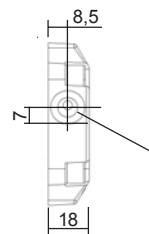
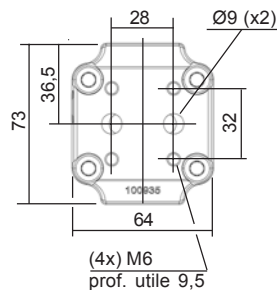
L
Standard



Drain port 1/4" BSP effective depth 13 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

A
Rear ports



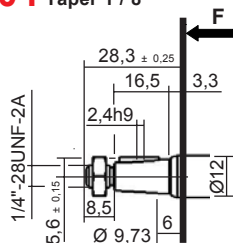
Drain port 1/8" BSP effective depth 9 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
30⁺⁵₀ N.m

DRIVING SHAFTS

Tapered
10

B01 Taper 1 / 8

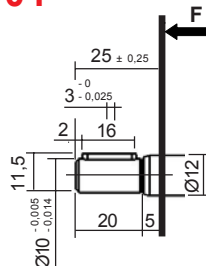


Delivered with nut: K101719

Max. transmissible torque
40 N.m

Straight keyed
20

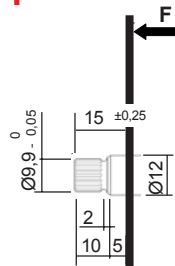
C01



Max. transmissible torque
25 N.m

Splined
30

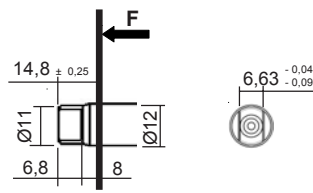
C01



**Cannelures en
développante
10 x 18 x 0,5
NF E 22 141 - BNA 455
Max. transmissible torque
25 N.m**

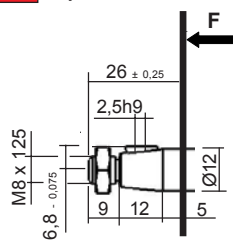
Tang
40

A01



Max. transmissible torque
30 N.m

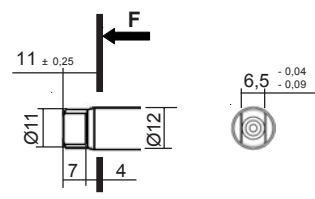
C01 Taper 1 / 5



Delivered with nut: K105890

Max. transmissible torque
50 N.m

C02



Max. transmissible torque
30 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 10 1425 5/5

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[home](#)

[contents](#)

[previous](#)

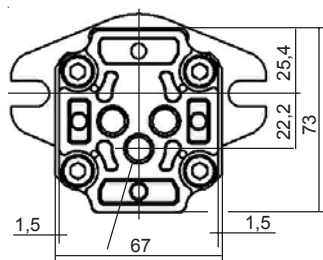
[next](#)

[main dimensions](#)

PUBLISHING 17 / 03 / 2011

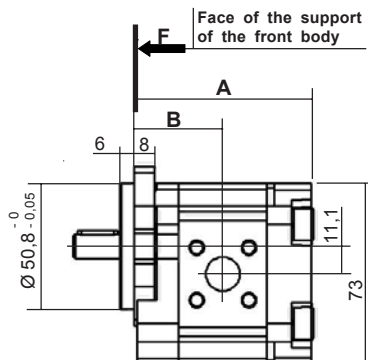


For CODIFICATION, see data sheet **F.T R 0243**

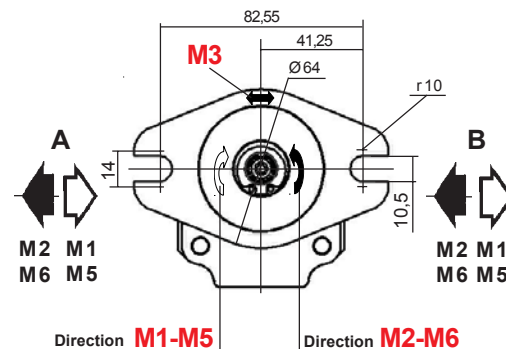


Drain port 1/4" BSP effective depth 13 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



CHOICE of the Capacity

Dimensions

	A	B
1002 1003	71,8	35,9
1004 1005 1006	81,5	40,7

Seals kits:

M1 - M2

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

M3 - M5/M6

Nitrile: **K5070976** Viton: **K5070977**
(For manufacture to since March 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100 \text{ bar}$ (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
1002	2,05	200	2900	230	3335	250	3625	5000	6000	1000	1200	1400	8000	0,9
1003	3,07	200	2900	230	3335	250	3625	5000	6000	900	1100	1400	8000	
1004	4,09	150	2175	180	2610	200	2900	4000	5000	700	1000	1200 200 bar	6000	1,1
1005	5,12	125	1812	150	2175	175	2537	3500	4500	500	900 175 bar		5000	
1006	6,14	125	1812	140	2030	175	2537	3000	4000	500	900 175 bar		4500	

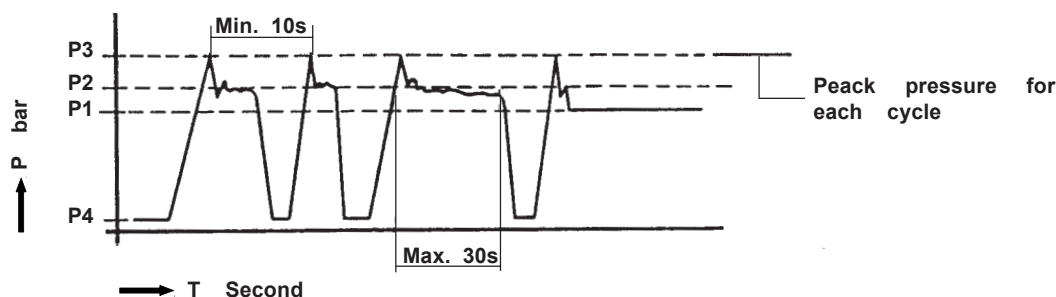
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

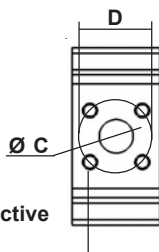
P3 Max. Allowable peak pressure

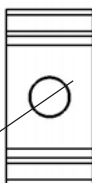
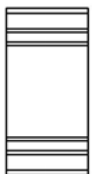
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

C
(Square)

F
(Threaded)

Ø F
effective
depth G

X
(with ports)


Capacity	DIMENSIONS								AFFECTATION					
	INLET PORT A				OUTLET PORT B				1 way rotation without counter pressure M1				2 ways rotation with counter pressure M2	
									ENTREE	SORTIE	ENTREE	SORTIE		
	1 way rotation with counter pressure M5				1 way rotation with counter pressure M6				M3					
	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET								
ØC	D	ØF	G	ØC	D	ØF	G	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	
1002	14	30	M6	13	14	30	M6	13	A	B	B	A	B	A
1003														
1004 to 1006														
1002			3/8" BSP	12			3/8" BSP	12	A	B	B	A	B	A
1003														
1004 to 1006														
1002 to 1006	Only with rear body Type A													

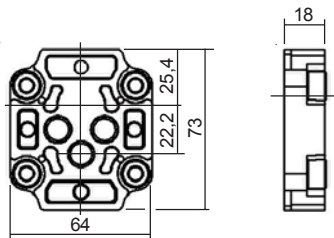
Dimensions readings and approximative characteristics subject to modifications.

CHOICE of the REAR BODY

MOTORS M1 - M2 (without drain)

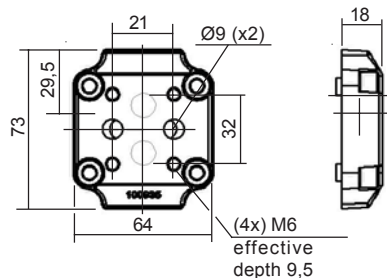
L

Standard



A

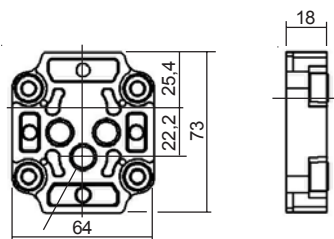
Rear ports



MOTORS M3 - M5 - M6 (with drain)

L

Standard

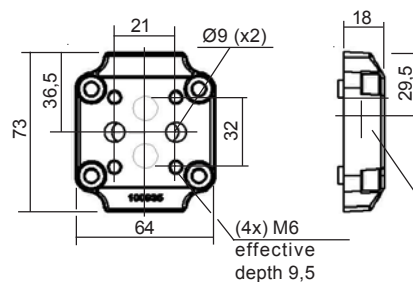


Drain port 1/4" BSP effective depth 13 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

A

Rear ports



Drain port 1/8" BSP effective depth 9 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
30⁺⁵₀ N.m

Dimensions readings and approximative characteristics subject to modifications.

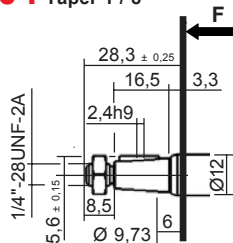
F.T 10 1426 3/4

DRIVING SHAFTS

Tapered

10

B01 Taper 1 / 8



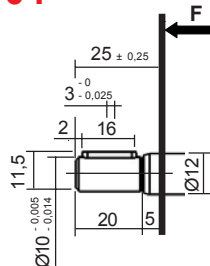
Delivered with nut: K101719

Max. transmissible torque
40 N.m

Straight keyed

20

C01

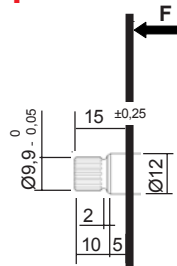


Max. transmissible torque
25 N.m

Splined

30

C01

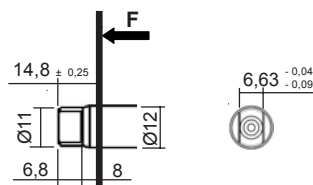


Cannelures en développante
10 x 18 x 0,5
NF E 22 141 - BNA 455
Max. transmissible torque
25 N.m

Tang

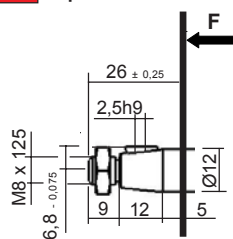
40

A01



Max. transmissible torque
30 N.m

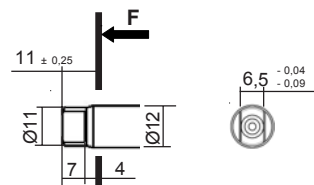
C01 Taper 1 / 5



Delivered with nut: K105890

Max. transmissible torque
50 N.m

C02



Max. transmissible torque
30 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 10 1426 4/4

Consult us for availability

[home](#)

[contents](#)

[previous](#)

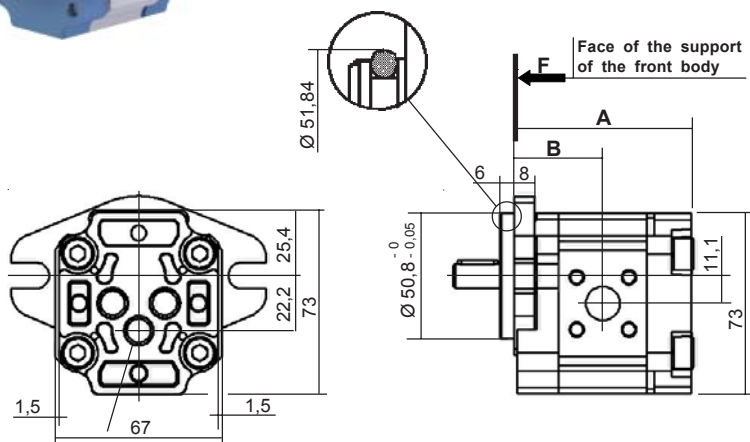
[next](#)

[main dimensions](#)

PUBLISHING 02 / 2012



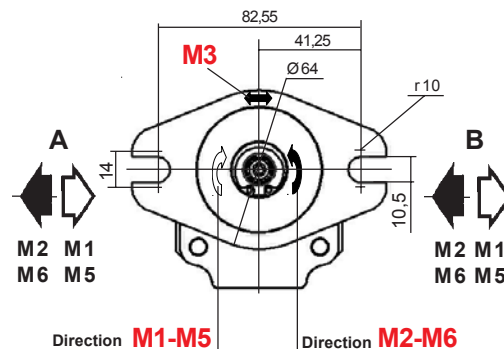
For CODIFICATION, see data sheet F.T R 0243



Drain port 1/4" BSP effective depth 13 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



CHOICE of the Capacity

Dimensions

	A	B
1002 1003	71,8	35,9
1004 1005 1006	81,5	40,7

Seals kits:

M1 - M2
Nitrile: K5070976 + K102539
Viton: K5070977 + K107116
(For manufacture to since March 1986)

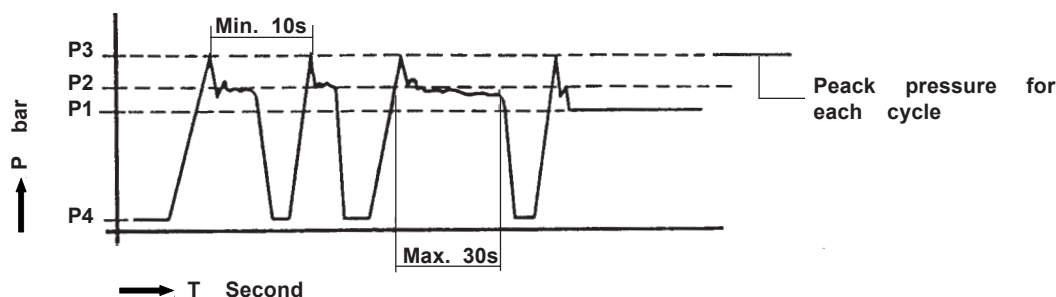
M3 - M5/M6
Nitrile: K5070976 + K102539
Viton: K5070977 + K107116
(For manufacture to since March 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100 \text{ bar}$ (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
1002	2,05	200	2900	230	3335	250	3625	5000	6000	1000	1200	1400	8000	0,9
1003	3,07	200	2900	230	3335	250	3625	5000	6000	900	1100	1400	8000	
1004	4,09	150	2175	180	2610	200	2900	4000	5000	700	1000	1200 200 bar	6000	1,1
1005	5,12	125	1812	150	2175	175	2537	3500	4500	500	900 175 bar		5000	
1006	6,14	125	1812	140	2030	175	2537	3000	4000	500	900 175 bar		4500	

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet $\leq P$ (Only in M3)

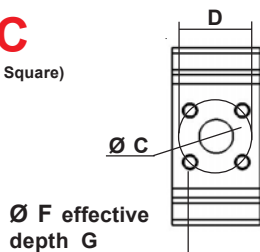


Consult us for availability

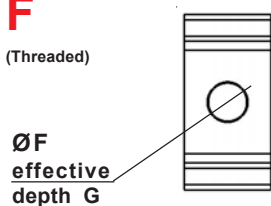
CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

C
(Square)



F
(Threaded)



X
(with ports)



Capacity	DIMENSIONS								AFFECTATION					
	INLET PORT A				OUTLET PORT B				1 way rotation without counter pressure M1		pressure M2		2 ways rotation with counter pressure M3	
	ENTREE		SORTIE		ENTREE		SORTIE		ENTREE		SORTIE		ENTREE	
	Ø C	D	Ø F	G	Ø C	D	Ø F	G	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
1002	14	30	M6	13	14	30	M6	13	A	B	B	A	B	A
1003														
1004 to 1006														
1002			3/8" BSP	12			3/8" BSP	12	A	B	B	A	B	A
1003														
1004 to 1006			1/2" BSP	14			3/8" BSP	12						
1002 to 1006	Only with rear body Type A													

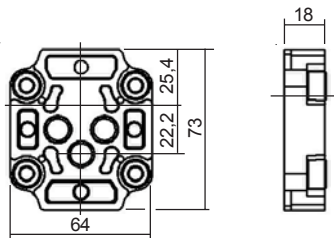
Dimensions readings and approximative characteristics subject to modifications.

CHOICE of the REAR BODY

MOTORS M1 - M2 (without drain)

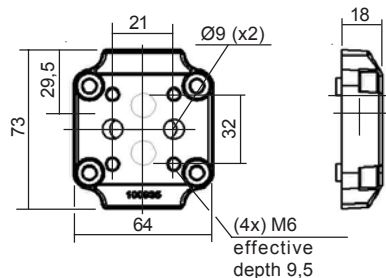
L

Standard



A

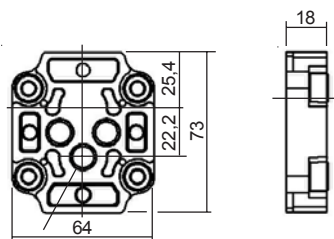
Rear ports



MOTORS M3 - M5 - M6 (with drain)

L

Standard

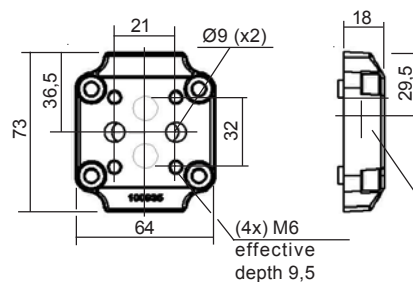


Drain port 1/4" BSP effective depth 13 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

A

Rear ports



Drain port 1/8" BSP effective depth 9 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 10 1427 3/4

Consult us for availability

home

contents

previous

next

main dimensions

PUBLISHING 02 / 2012

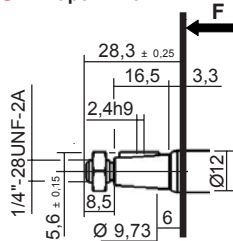
042
/ 00

DRIVING SHAFTS

Tapered

10

B01 Taper 1 / 8



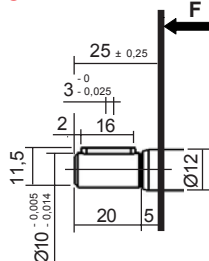
Delivered with nut: K101719

Max. transmissible torque
40 N.m

Straight keyed

20

C01

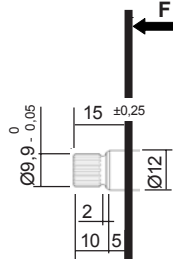


Max. transmissible torque
25 N.m

Splined

30

C01

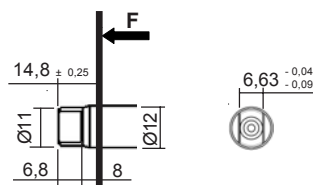


Cannelures en développante
10 x 18 x 0,5
NF E 22 141 - BNA 455
Max. transmissible torque
25 N.m

Tang

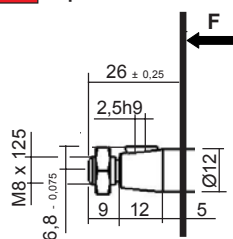
40

A01



Max. transmissible torque
30 N.m

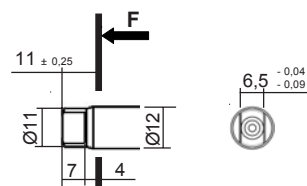
C01 Taper 1 / 5



Delivered with nut: K105890

Max. transmissible torque
50 N.m

C02

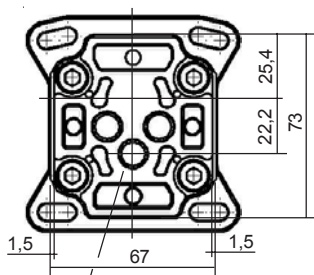


Max. transmissible torque
30 N.m

Dimensions readings and approximative characteristics subject to modifications.

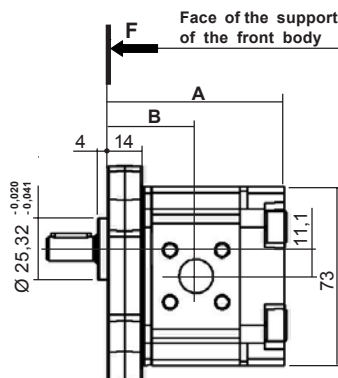


For CODIFICATION, see data sheet **F.T R 0243**

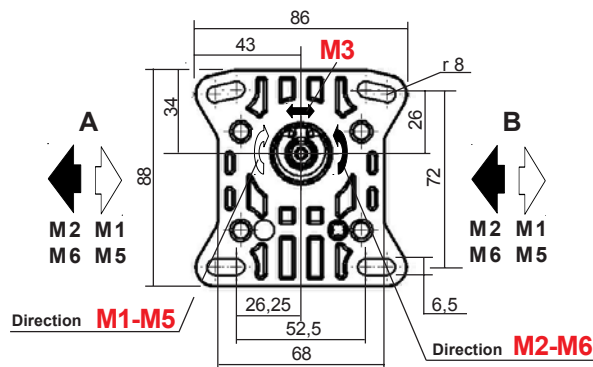


Drain port 1/4" BSP effective depth 13 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m



PRESSION at the DRAINING:
1 bar MAXI (14,5 PSI)



CHOICE of the Capacity	Dimensions	
	A	B

1002 1003	71,8	35,9
1004 1005 1006	81,5	40,7

Seals kits:

M1 - M2

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

M3 - M5/M6

Nitrile: **K5070976** Viton: **K5070977**
(For manufacture to since March 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100 \text{ bar}$ (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
1002	2,05	200	2900	230	3335	250	3625	5000	6000	1000	1200	1400	8000	0,9
1003	3,07	200	2900	230	3335	250	3625	5000	6000	900	1100	1400	8000	
1004	4,09	150	2175	180	2610	200	2900	4000	5000	700	1000	1200 ^{200 bar}	6000	1,1
1005	5,12	125	1812	150	2175	175	2537	3500	4500	500	900 ^{175 bar}		5000	
1006	6,14	125	1812	140	2030	175	2537	3000	4000	500	900 ^{175 bar}		4500	

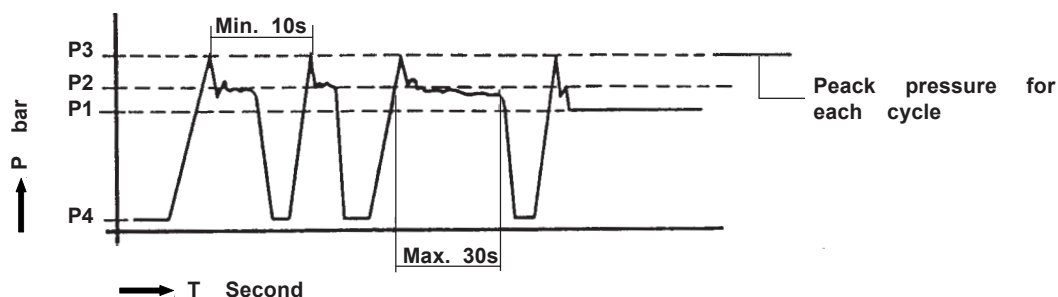
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

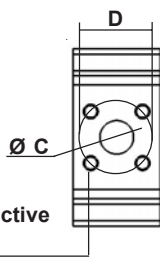
P3 Max. Allowable peak pressure

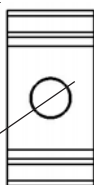
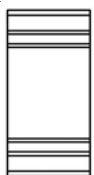
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

C
(Square)

F
(Threaded)

Ø F effective
depth G

X
(with ports)


Capacity	DIMENSIONS								AFFECTATION					
	INLET PORT A				OUTLET PORT B				1 way rotation without counter pressure M1 ENTREE SORTIE				2 ways rotation with counter pressure M2 ENTREE SORTIE	
									1 way rotation with counter pressure M5 M6				M3	
	ØC	D	ØF	G	ØC	D	ØF	G	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
1002 1003	14	30	M6	13	14	30	M6	13	A	B	B	A	B	A
1004 to 1006														
1002 1003			3/8" BSP	12			3/8" BSP	12	A	B	B	A	B	A
1004 to 1006			1/2" BSP	14			3/8" BSP	12						
1002 to 1006	Only with rear body Type A													

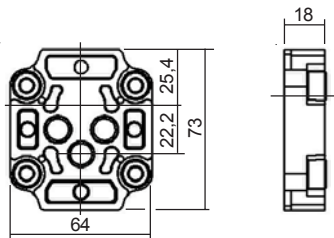
Dimensions readings and approximative characteristics subject to modifications.

CHOICE of the REAR BODY

MOTORS M1 - M2 (without drain)

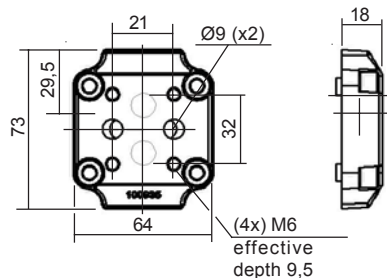
L

Standard



A

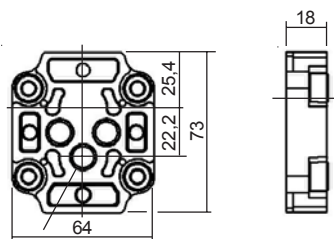
Rear ports



MOTORS M3 - M5 - M6 (with drain)

L

Standard

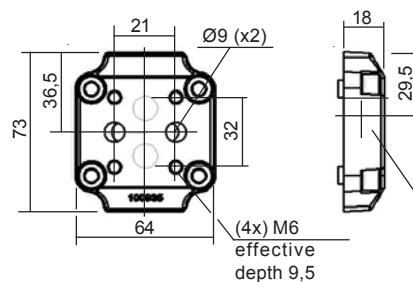


Drain port 1/4" BSP effective depth 13 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

A

Rear ports



Drain port 1/8" BSP effective depth 9 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
30⁺⁵₀ N.m

Dimensions readings and approximative characteristics subject to modifications.

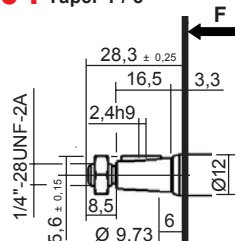
F.T 10 1428 3/4

DRIVING SHAFTS

Tapered

10

B01 Taper 1 / 8



Delivered with nut: K101719

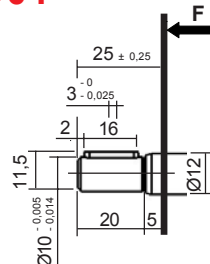
Max. transmissible torque

40 N.m

Straight keyed

20

C01



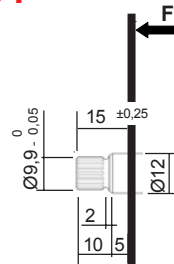
Max. transmissible torque

25 N.m

Splined

30

C01



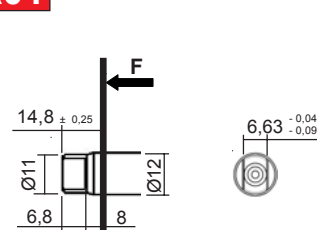
Cannelures en développante
10 x 18 x 0,5
NF E 22 141 - BNA 455
Max. transmissible torque

25 N.m

Tang

40

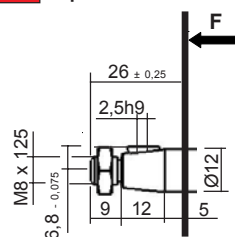
A01



Max. transmissible torque

30 N.m

C01 Taper 1 / 5

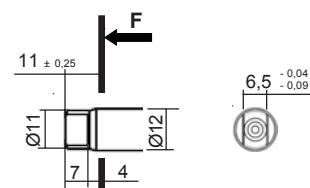


Delivered with nut: K105890

Max. transmissible torque

50 N.m

C02



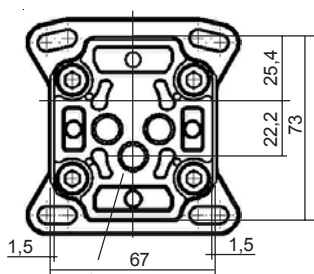
Max. transmissible torque

30 N.m

Dimensions readings and approximative characteristics subject to modifications.

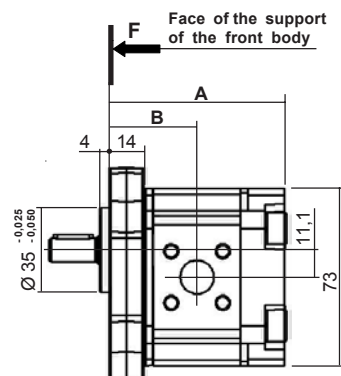


For CODIFICATION, see data sheet **F.T R 0243**

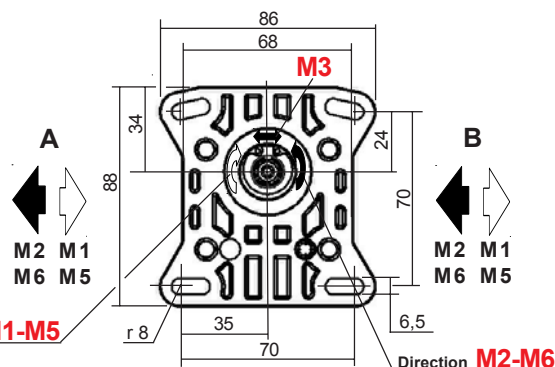


Drain port 1/4" BSP effective depth 13 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



CHOICE of the Capacity

Dimensions

	A	B
1002 1003	71,8	35,9
1004 1005 1006	81,5	40,7

Seals kits:

M1 - M2

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

M3 - M5/M6

Nitrile: **K5070976** Viton: **K5070977**
(For manufacture to since March 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
1002	2,05	200	2900	230	3335	250	3625	5000	6000	1000	1200	1400	8000	0,9
1003	3,07	200	2900	230	3335	250	3625	5000	6000	900	1100	1400	8000	
1004	4,09	150	2175	180	2610	200	2900	4000	5000	700	1000	1200 200 bar	6000	1,1
1005	5,12	125	1812	150	2175	175	2537	3500	4500	500	900 175 bar		5000	
1006	6,14	125	1812	140	2030	175	2537	3000	4000	500	900 175 bar		4500	

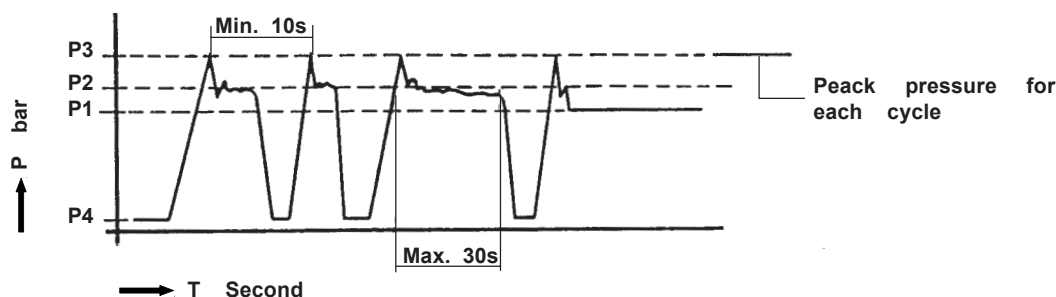
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet $\leq P$ (Only in M3)

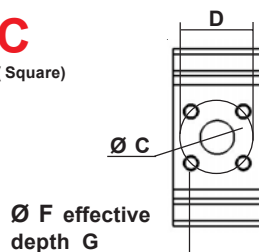


CHOICE of the IMPLANTATIONS of PORTS

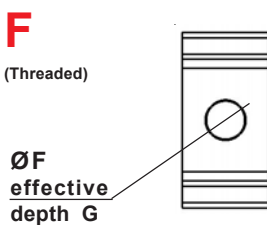
Port connector, see our Catalogue N° 70

C

(Square)


F

(Threaded)


X

(with ports)



Capacity	DIMENSIONS								AFFECTATION					
	INLET PORT A				OUTLET PORT B				1 way rotation without counter pressure M1		1 way rotation with counter pressure M2		2 ways rotation with counter pressure M3	
									ENTREE	SORTIE	ENTREE	SORTIE	ENTREE	SORTIE
	ØC	D	ØF	G	ØC	D	ØF	G	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
1002 1003	14	30	M6	13	14	30	M6	13	A	B	B	A	B	A
1004 to 1006														
1002 1003			3/8" BSP	12			3/8" BSP	12	A	B	B	A	B	A
1004 to 1006			1/2" BSP	14			3/8" BSP	12						
1002 to 1006	Only with rear body Type A													

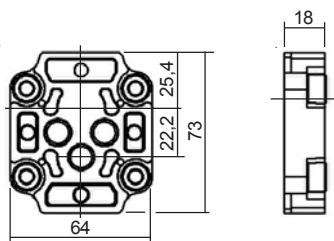
Dimensions readings and approximative characteristics subject to modifications.

CHOICE of the REAR BODY

MOTORS M1 - M2 (without drain)

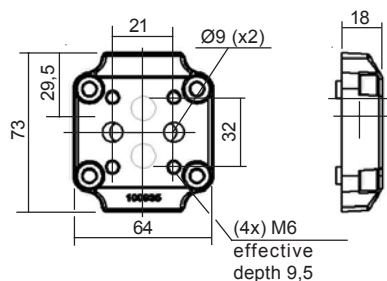
L

Standard



A

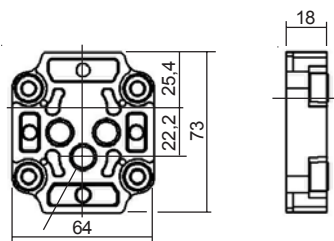
Rear ports



MOTORS M3 - M5 - M6 (with drain)

L

Standard

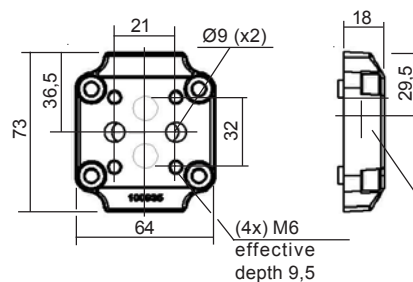


Drain port 1/4" BSP effective depth 13 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

A

Rear ports



Drain port 1/8" BSP effective depth 9 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
30⁺⁵₀ N.m

Dimensions readings and approximative characteristics subject to modifications.

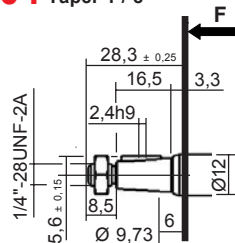
F.T 10 1429 3/4

DRIVING SHAFTS

Tapered

10

B01 Taper 1 / 8



Delivered with nut: K101719

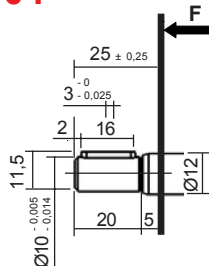
Max. transmissible torque

40 N.m

Straight keyed

20

C01



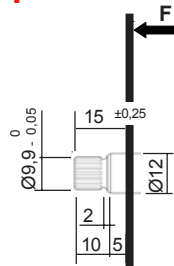
Max. transmissible torque

25 N.m

Splined

30

C01



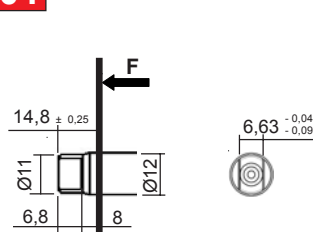
Cannelures en développante
10 x 18 x 0,5
NF E 22 141 - BNA 455
Max. transmissible torque

25 N.m

Tang

40

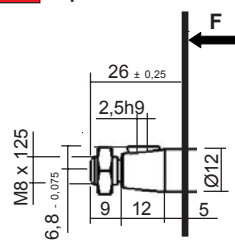
A01



Max. transmissible torque

30 N.m

C01 Taper 1 / 5

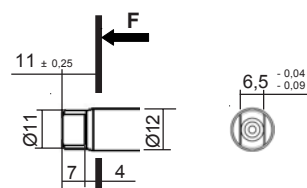


Delivered with nut: K105890

Max. transmissible torque

50 N.m

C02



Max. transmissible torque

30 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 10 1429 4/4

Consult us for availability

[home](#)

[contents](#)

[previous](#)

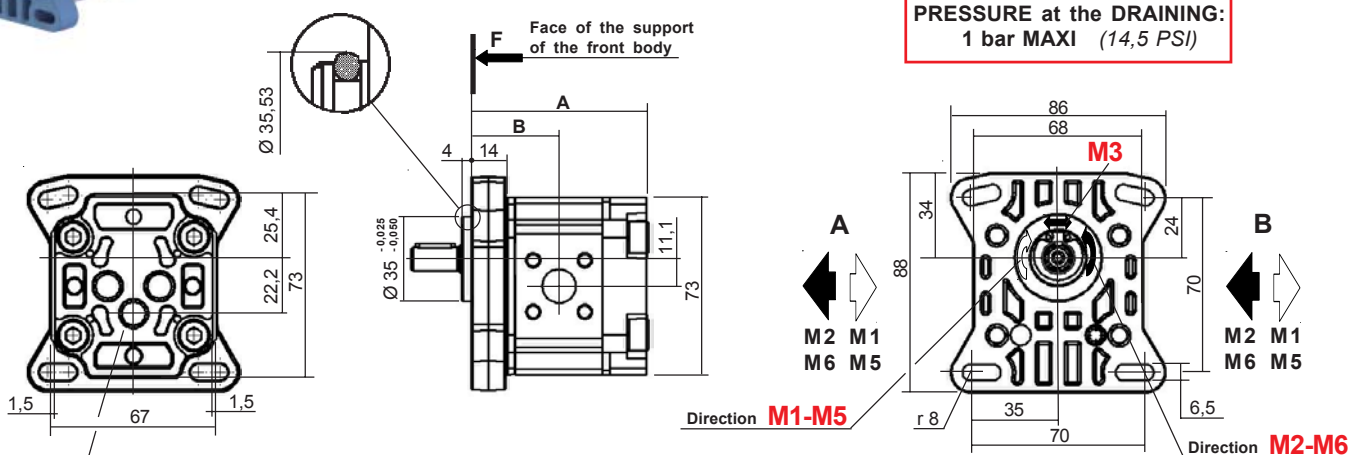
[next](#)

[main dimensions](#)

PUBLISHING 02 / 2012



For CODIFICATION, see data sheet **F.T R 0243**



Drain port 1/4" BSP effective depth 13 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity	Dimensions	
	A	B
1002 1003	71,8	35,9
1004 1005 1006	81,5	40,7

Seals kits:

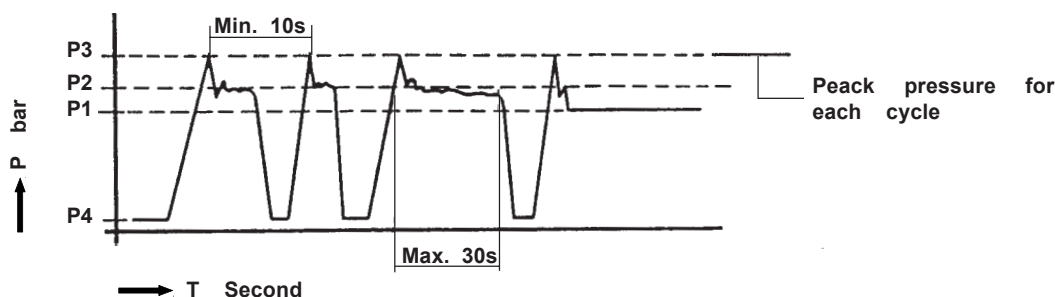
M1 - M2
Nitrile: **K5074037 + K100240**
Viton: **K5074038 + K103279**
(For manufacture to since October 1991)
M3 - M5/M6
Nitrile: **K5070976 + K100240**
Viton: **K5070977 + K103279**
(For manufacture to since March 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100 \text{ bar}$ (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
1002	2,05	200	2900	230	3335	250	3625	5000	6000	1000	1200	1400	8000	0,9
1003	3,07	200	2900	230	3335	250	3625	5000	6000	900	1100	1400	8000	
1004	4,09	150	2175	180	2610	200	2900	4000	5000	700	1000	1200 ^{200 bar}	6000	1,1
1005	5,12	125	1812	150	2175	175	2537	3500	4500	500	900 ^{175 bar}		5000	
1006	6,14	125	1812	140	2030	175	2537	3000	4000	500	900 ^{175 bar}		4500	

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet $\leq P$ (Only in M3)

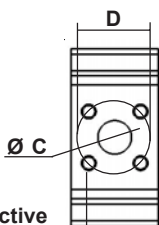


Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

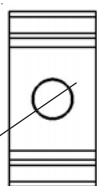
Port connector, see our Catalogue N° 70

C
(Square)

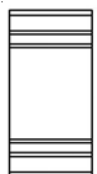


F
(Threaded)

Ø F
effective
depth G



X
(with ports)



Capacity	DIMENSIONS								AFFECTATION					
	INLET PORT A				OUTLET PORT B				1 way rotation without counter pressure				2 ways rotation with counter pressure	
									M1		M2			
	Ø C	D	Ø F	G	Ø C	D	Ø F	G	ENTREE	SORTIE	ENTREE	SORTIE	INLET	OUTLET
1002	14	30	M 6	13	14	30	M 6	13	A	B	B	A	B	A
1003														
1004 to 1006														
1002			3/8" BSP	12			3/8" BSP	12	A	B	B	A	B	A
1003														
1004 to 1006			1/2" BSP	14			3/8" BSP	12						
1002 to 1006	Only with rear body Type A													

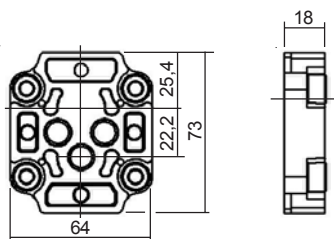
Dimensions readings and approximative characteristics subject to modifications.

CHOICE of the REAR BODY

MOTORS M1 - M2 (without drain)

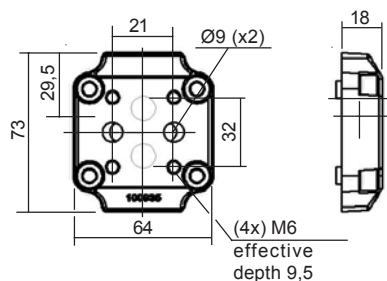
L

Standard



A

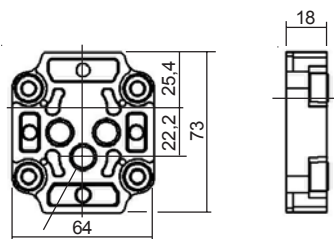
Rear ports



MOTORS M3 - M5 - M6 (with drain)

L

Standard

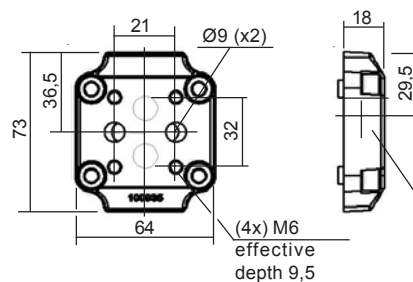


Drain port 1/4" BSP effective depth 13 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

A

Rear ports



Drain port 1/8" BSP effective depth 9 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
30⁺⁸₀ N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 10 1430 3/4

Consult us for availability

home

contents

previous

next

main dimensions

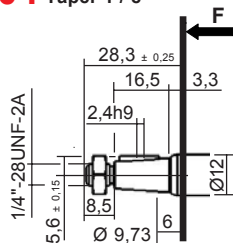
PUBLISHING 02 / 2012

DRIVING SHAFTS

Tapered

10

B01 Taper 1 / 8



Delivered with nut: K101719

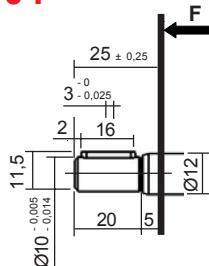
Max. transmissible torque

40 N.m

Straight keyed

20

C01



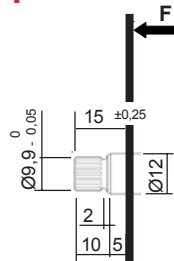
Max. transmissible torque

25 N.m

Splined

30

C01



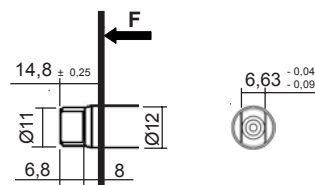
Cannelures en développante
10 x 18 x 0,5
NF E 22 141 - BNA 455
Max. transmissible torque

25 N.m

Tang

40

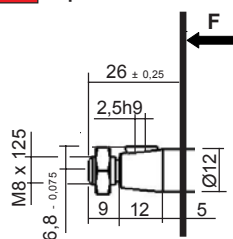
A01



Max. transmissible torque

30 N.m

C01 Taper 1 / 5

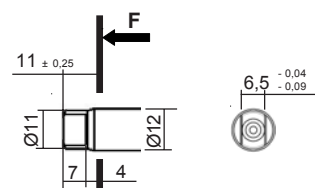


Delivered with nut: K105890

Max. transmissible torque

50 N.m

C02



Max. transmissible torque

30 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 10 1430 4/4

Consult us for availability

[home](#)

[contents](#)

[previous](#)

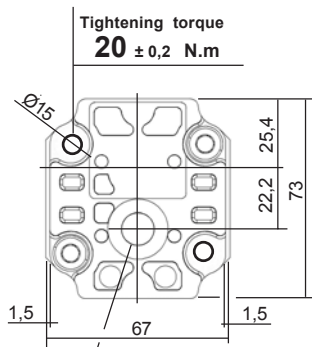
[next](#)

[main dimensions](#)

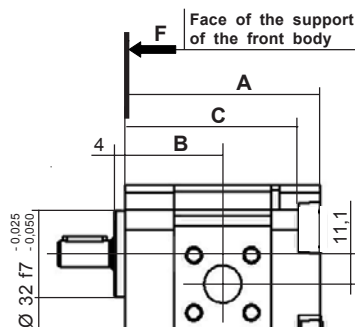
PUBLISHING 02 / 2012



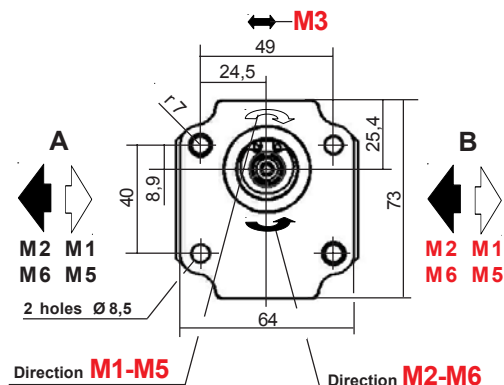
For CODIFICATION, see data sheet **F.T R 0243**



Tightening torque
20 ± 0,2 N.m



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 13 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

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

Seals kits:

M1 - M2

Nitrile: **K5074037** Viton: **K5074038**

(For manufacture to since October 1991)

M3

Nitrile: **K5070976** Viton: **K5070977**

(For manufacture to since March 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
1002	2,05	200	2900	230	3335	250	3625	5000	6000	1000	1200	1400	8000	0,9
1003	3,07	200	2900	230	3335	250	3625	5000	6000	900	1100	1400	8000	
1004	4,09	150	2175	180	2610	200	2900	4000	5000	700	1000	1200 200 bar	6000	1,1
1005	5,12	125	1812	150	2175	175	2537	3500	4500	500	900 175 bar		5000	
1006	6,14	125	1812	140	2030	175	2537	3000	4000	500	900 175 bar		4500	

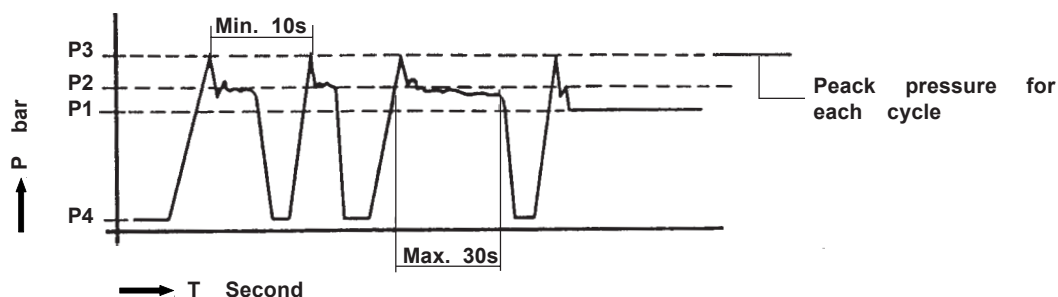
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

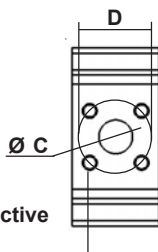
P4 Pressure at Motor outlet ≤ P (Only in M3)



CHOICE of the IMPLANTATIONS of PORTS

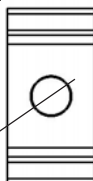
Port connector, see our Catalogue N° 70

C
(Square)

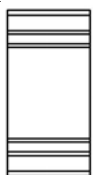


F
(Threaded)

Ø F effective
depth G



X
(with ports)



Capacity	DIMENSIONS								AFFECTATION					
	INLET PORT A				OUTLET PORT B				1 way rotation without counter pressure M1				2 ways rotation with counter pressure M2	
									ENTREE	SORTIE	ENTREE	SORTIE	M3	
									1 way rotation with counter pressure M5					
	ØC	D	ØF	G	ØC	D	ØF	G	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
1002 1003	14	30	M6	13	14	30	M6	13	A	B	B	A	B	A
1004 to 1006														
1002 1003			3/8" BSP	12			3/8" BSP	12	A	B	B	A	B	A
1004 to 1006			1/2" BSP	14			3/8" BSP	12						
1002 to 1006	Only with rear body Type A													

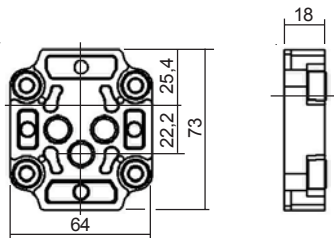
Dimensions readings and approximative characteristics subject to modifications.

CHOICE of the REAR BODY

MOTORS M1 - M2 (without drain)

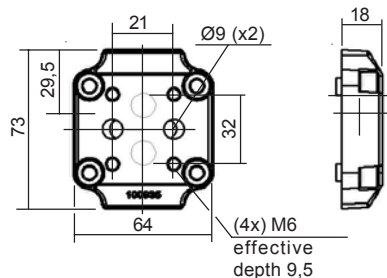
L

Standard



A

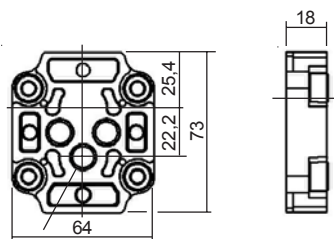
Rear ports



MOTORS M3 - M5 - M6 (with drain)

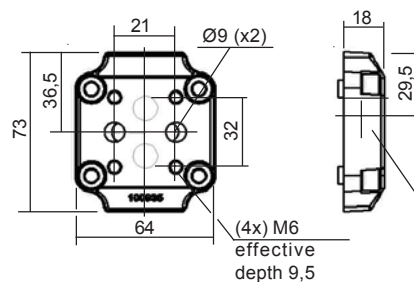
L

Standard



A

Rear ports



Drain port 1/4" BSP effective depth 13
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
35 N.m

Dimensions readings and approximative characteristics subject to modifications.

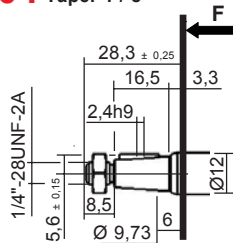
F.T 10 1431 3/4

DRIVING SHAFTS

Tapered

10

B01 Taper 1 / 8



Delivered with nut: K101719

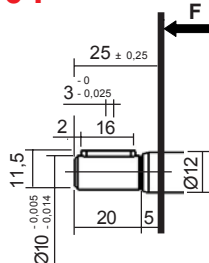
Max. transmissible torque

40 N.m

Straight keyed

20

C01



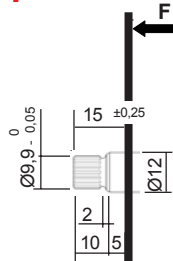
Max. transmissible torque

25 N.m

Splined

30

C01



Cannelures en développante

10 x 18 x 0,5

NF E 22 141 - BNA 455

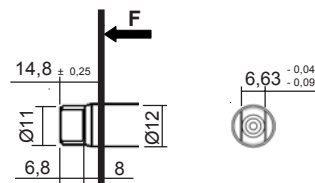
Max. transmissible torque

25 N.m

Tang

40

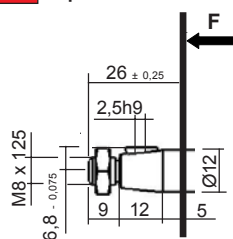
A01



Max. transmissible torque

30 N.m

C01 Taper 1 / 5

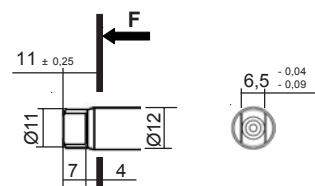


Delivered with nut: K105890

Max. transmissible torque

50 N.m

C02



Max. transmissible torque

30 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 10 1431 4/4

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

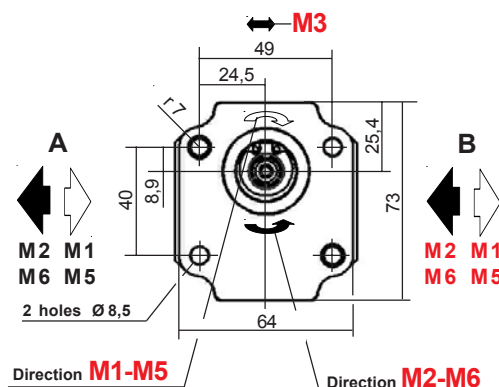
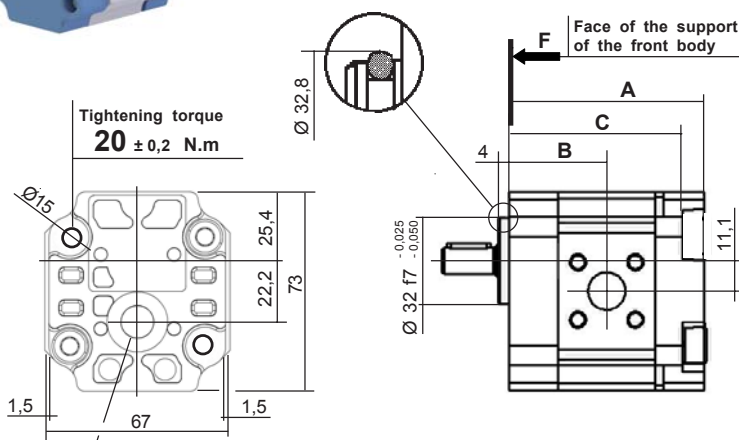
[main dimensions](#)

PUBLISHING 02 / 2012



For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 13 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

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

Seals kits:

M1 - M2

Nitrile: **K5074037 + K108227**

Viton: **K5074038 + K108228**

(For manufacture to since October 1991)

M3

Nitrile: **K5070976 + K108227**

Viton: **K5070977 + K108228**

(For manufacture to since March 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
1002	2,05	200	2900	230	3335	250	3625	5000	6000	1000	1200	1400	8000	0,9
1003	3,07	200	2900	230	3335	250	3625	5000	6000	900	1100	1400	8000	
1004	4,09	150	2175	180	2610	200	2900	4000	5000	700	1000	1200 200 bar	6000	1,1
1005	5,12	125	1812	150	2175	175	2537	3500	4500	500	900 175 bar		5000	
1006	6,14	125	1812	140	2030	175	2537	3000	4000	500	900 175 bar		4500	

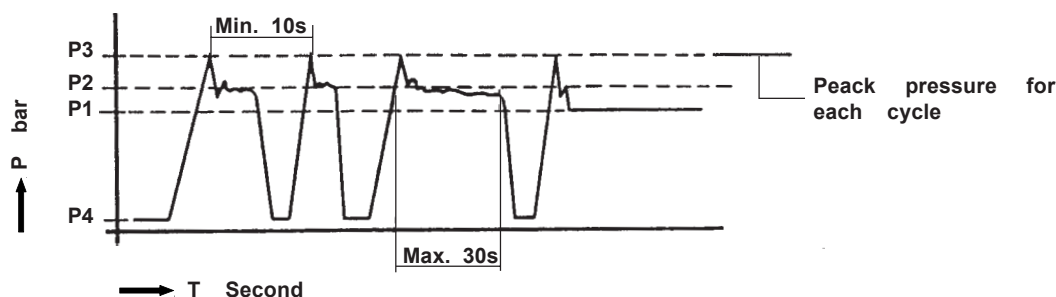
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

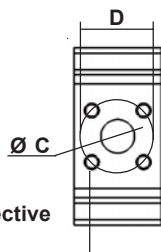
P4 Pressure at Motor outlet ≤ P (Only in M3)

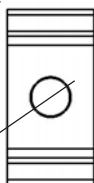
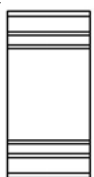


Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

C
(Square)

F
(Threaded)

Ø F
effective
depth G

X
(with ports)


Capacity	DIMENSIONS								AFFECTATION					
	INLET PORT A				OUTLET PORT B				1 way rotation without counter pressure M1 M2				2 ways rotation with counter pressure M3	
	ENTREE		SORTIE		ENTREE		SORTIE		1 way rotation with counter pressure M5 M6					
	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
1002 1003	14	30	M6	13	14	30	M6	13	A	B	B	A	B	A
1004 to 1006														
1002 1003			3/8" BSP	12			3/8" BSP	12	A	B	B	A	B	A
1004 to 1006			1/2" BSP	14			3/8" BSP	12						
1002 to 1006	Only with rear body Type A													

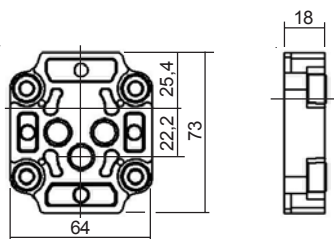
Dimensions readings and approximative characteristics subject to modifications.

CHOICE of the REAR BODY

MOTORS M1 - M2 (without drain)

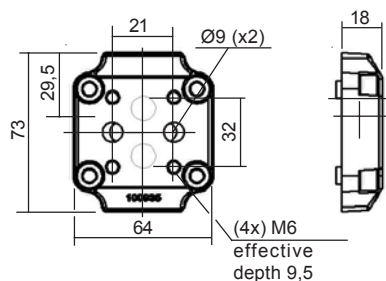
L

Standard



A

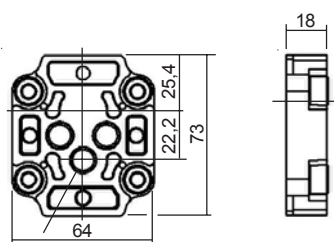
Rear ports



MOTORS M3 - M5 - M6 (with drain)

L

Standard

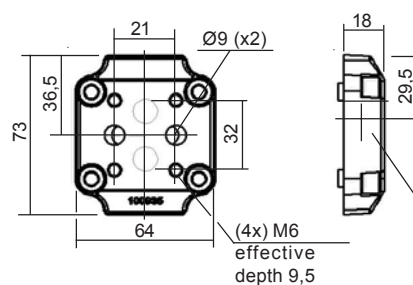


Drain port 1/4" BSP effective depth 13 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

A

Rear ports



Drain port 1/8" BSP effective depth 9 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
30⁺⁵ N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 10 1431 3/4

Consult us for availability

home

contents

previous

next

main dimensions

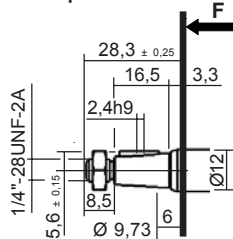
PUBLISHING 02 / 2012

DRIVING SHAFTS

Tapered

10

B01 Taper 1 / 8



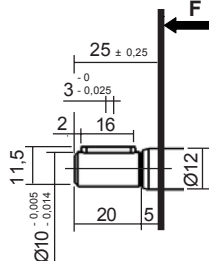
Delivered with nut: K101719

Max. transmissible torque
40 N.m

Straight keyed

20

C01

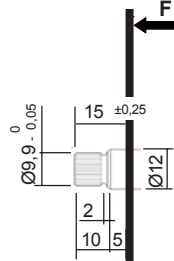


Max. transmissible torque
25 N.m

Splined

30

C01

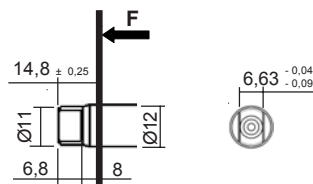


Cannelures en développante
10 x 18 x 0,5
NF E 22 141 - BNA 455
Max. transmissible torque
25 N.m

Tang

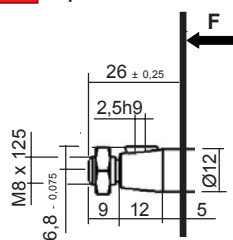
40

A01



Max. transmissible torque
30 N.m

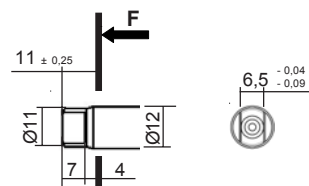
C01 Taper 1 / 5



Delivered with nut: K105890

Max. transmissible torque
50 N.m

C02



Max. transmissible torque
30 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 10 1431 4/4

Consult us for availability

[home](#)

[contents](#)

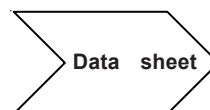
[previous](#)

[next](#)

[main dimensions](#)

PUBLISHING 02 / 2012

MOTORS PRESENTATION SERIES 2 and 2,5



F.T 20 1433

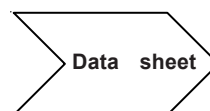
HIGHT PRESSURE SHAFT RING



F.T 20 1493

- FLAT FRONT BODIES

MOTOR **AAAN**



F.T 20 1434

MOTOR **AAK**



F.T 20 1435

MOTOR **AFN**



F.T 20 1436

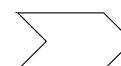
MOTOR **APK**



F.T 20 1437

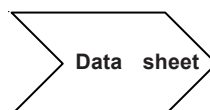


Consult us for availability



- FLAT FRONT BODIES (rest)

MOTOR **BAN**



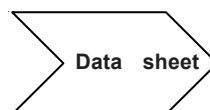
F.T 20 1438

MOTOR **CAN**



F.T 20 1439

MOTOR **CEN**



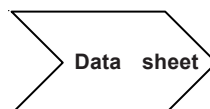
F.T 20 1440

MOTOR **CEK**



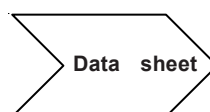
F.T 20 1441

MOTOR **DBN**

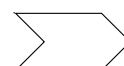
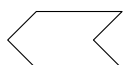


F.T 20 1442

MOTOR **DBK**



F.T 20 1443



 Consult us for availability

[home](#)

[contents](#)

[previous](#)

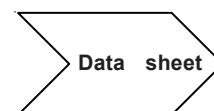
[next](#)

[main dimensions](#)

PUBLISHING 02 / 2012

- FLAT FRONT BODIES (rest)

MOTOR **DCN**



F.T 20 1444

MOTOR **DCK**



F.T 20 1445

MOTOR **DUK**



F.T 20 1446

MOTOR **DWN**

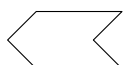


F.T 20 1447

MOTOR **DZK**



F.T 20 1448



Consult us for availability

Series 2 and 2,5 pressure shaft ring only for flat front cover

Applications: 1 Direction of rotation (M1 / M2) with counter-pressure
2 Direction of rotation (M3 - M5 / M6) with counter-pressure on drain line
Pump with feeding pressure

Description: Sealing ring with radial effect, single lip with dust lip
VITON external coating
Small sealing lip with spring

Mounting: Mounting in front cover (special machining) of high pressure ring and washer

Running

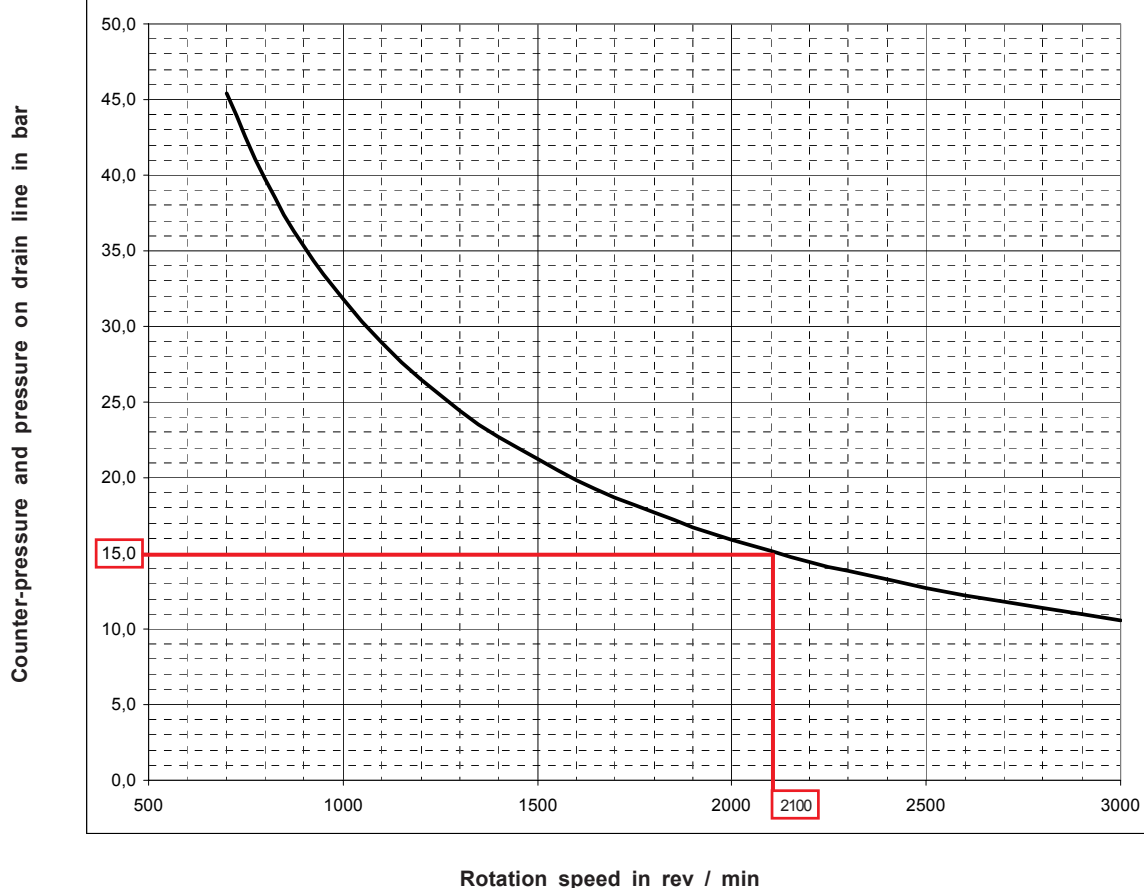
conditions: $P \text{ (bar)} \times V \text{ (rev/min)} < 31.800$ (see below graphic)

P (bar): Pressure on ring

V (rev/min): Shaft rotation speed

Fluids: mineral oils, huiles synthetic oils

Running temperatures: - 40°C to + 100°C



Example: At 2100 rev/min rotation speed, max pressure on the ring is 15 bar.

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		

Series 2

2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	1,6
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	1,7
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ^{175 bar}		3500	2,2
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ^{150 bar}		3500	2,3
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ^{150 bar}		3500	2,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ^{150 bar}		3500	2,7

Series 2,5

2512	12	200	2900	230	2900	250	3625	3000	3200	500	1000	1200	4000	2,3
2515	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2,6
2517	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ^{225 bar}	3500	2,7
2518	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ^{175 bar}		3500	2,7
2522	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ^{150 bar}		3500	2,8

The working cycles mentioned above are possible with hydraulic mineral oil for between 12 and 150Cst - 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 temperatures : - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C / 284 °F with Viton shaft seal).

Full flow filtration from to 10 to 15 micron at the motor inlet or the return circuit.

MAXIMUM PRESSURE:

For the motors with one direction of rotation (M1/M2), the outlet pressure must not exceed 1 bar.

For the motors with two directions of rotation (M5/M6), the pressure in the drain line must not exceed 1 bar.

For the motors with two directions of rotation (M3), the pressure in the drain line must not exceed 1 bar.

For the working conditions exceeding the above mentioned cycles or in case of torque transmission by driving belt, chain or toothed wheel, please contact our sales department.

(The tests are effected with the oil SHELL Tellus T 46)

The above technical data are valid for motor transmitting the torque by an elastic coupling, perfectly aligned, without any outside radial and axial forces.

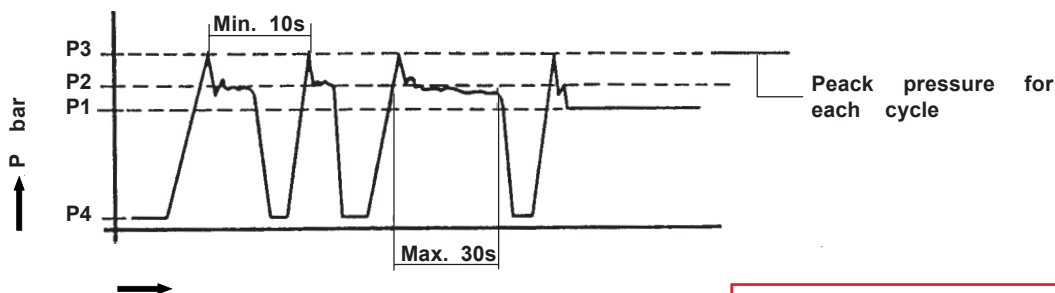
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)

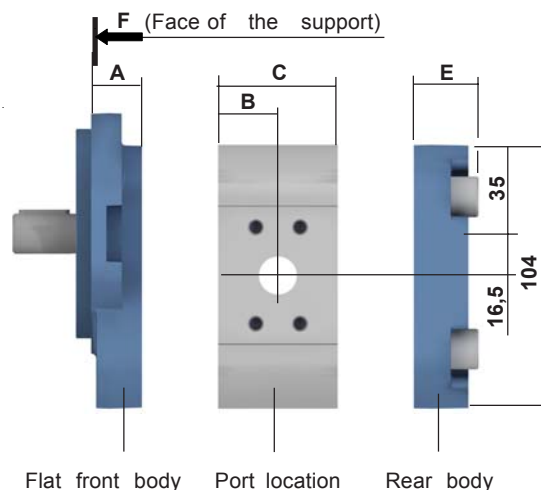
Consult us for availability

FLAT FRONT BODY

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

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

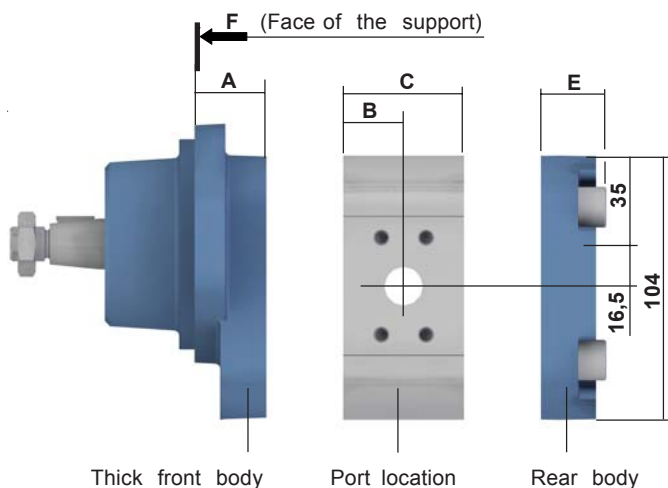
Rear bodies:	E
L	25,5
A	24,5
X -	24
Q	50,5
AR	24


THICK FRONT BODY

Thick front bodies:	A
AAP / AAR	28
ARP / ARK	25
AVP	28
DBP / DBR	51

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

Rear bodies:	E
L	25,5
A	24,5
X - T	24
Q	50,5
AR	24



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1433 2/12


Consult us for availability

[home](#)
[contents](#)
[previous](#)
[next](#)
[main dimensions](#)

PUBLISHING 02 / 2012

M

II Sign

III Sign

IV Sign

2

VI Sign

VII Sign

VIII Sign

IX Sign

X Sign

XI Sign

XII Sign

For CODIFICATION, see data sheet F.T R 0243

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 SHAFTS (IX, X and XI Sign)			
M 1	M 2	M 3	M 5	M 6			H	C	B	F	U	X	Y	L	A	X **	T **	Q **	AR	TAPERED	SPLINNED	STRAIGHT KEYED	TANG	
																				10	20	30	40	
X	X	X	X	X	 																			
X	X	X	X	X																				
X	X	X	X	X		2006 2008 2010 2012 2014 2015 2017																		
X	X	X	X	X		2018 2022 2026 2030																		
X	X	X	X	X		2512 2515 2517 2518 2522																		
X	X	X	X	X																				
X	X	X	X	X																				
X	X	X	X	X																				

LEGENDES

DIRECTION of ROTATION

- M 1 = Clockwise without counter pressure
- M 2 = Anti clockwise without counter pressure
- M 3 = Bi directional with counter pressure
- M 5 = Clockwise with counter pressure
- M 6 = Anti clockwise with counter pressure

FRONT BODIES

- A ** = Fixing SAE and ISO
- B ** = Fixing english and Italian
- C ** = Fixing French
- D ** = Fixing German

PORT LOCATION

- H = HPI Location
- C = Square location
- B = Italian location
- F = Threaded ports
- U = SAE location (SAE J 475)
- X = without port

REAR BODIES

- L = Standard
- A = with ports
- X = high pressure relief valve Internal return
- T = high pressure relief valve External return
- Q = Internal flow control
- AR = with block configuration MBPS

** Not available in Motors M3

Consult us for availability

M	II Sign	III Sign	IV Sign	2	VI Sign	VII Sign	VIII Sign	IX Sign	X Sign	XI Sign	XII Sign
---	---------	----------	---------	---	---------	----------	-----------	---------	--------	---------	----------

For CODIFICATION , see data sheet **F.T R 0243**

DIRECTION of ROTATION (II Sign)						FLAT and THICK 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)			
M 1	M 2	M 3	M 5	M 6					H	C	B	F	U	X	Y		L	A	X **	T **	Q **	AR	TAPERED	STRAIGHT KEYED	SPLINNED	TANG
																							10	20	30	40

X	X	X	X	X	 	2006 2008 2010 2012 2014 2015 2017 2022 2026 2030	      	     																			
X	X	X	X	X	 																						

X	X	X	X	X	 	2512 2515 2517 2518 2522	      	     															 			
X	X	X	X	X	 																					
X	X	X	X	X	 																					
X	X	X	X	X	 																		 			

** Not available in Motors M3

LEGENDES

DIRECTION of ROTATION

- M1 = Clockwise
without counter pressure
M2 = Anti clockwise
without counter pressure
M3 = Bi directional
with counter pressure
M5 = Clockwise
with counter pressure
M6 = Anti clockwise
with counter pressure

FRONT BODIES

- A** = Fixing SAE
D** = Fixing German

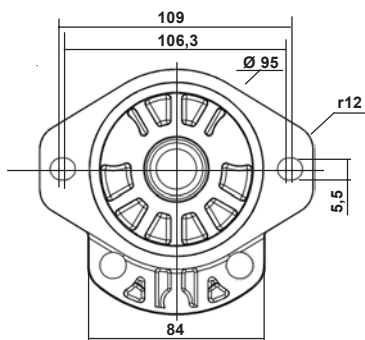
PORT LOCATION

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

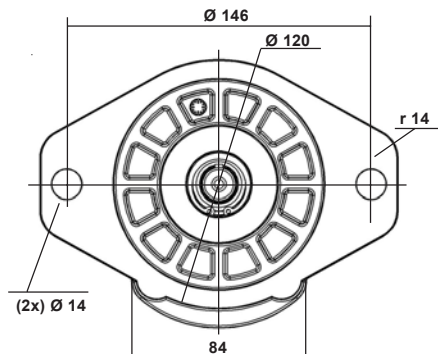
REAR BODIES

- L = Standard
A = with ports
X = high pressure relief valve
Internal return
T = high pressure relief valve
External return
Q = Internal flow control
AR = with block
configuration MBPS

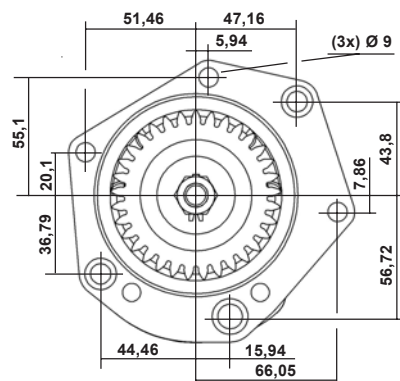
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FLAT FRONT BODIES
AAN / AAK

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

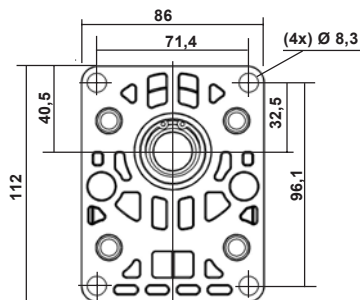
AAN : Series 2 F.T 20 1434
 Series 2,5 F.T 25 1456
AAK : Series 2 F.T 20 1435
 Series 2,5 F.T 25 1457

AFN

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

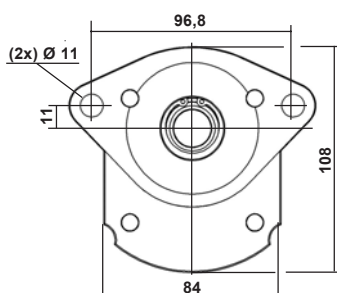
AFN : Series 2 F.T 20 1436
 Series 2,5 F.T 25 1458

APK

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

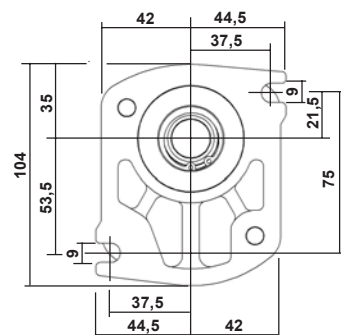
APK : Series 2 F.T 20 1437
 Series 2,5 F.T 25 1459

BAN

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

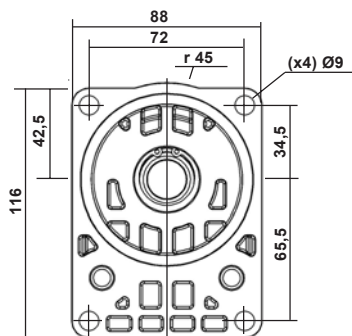
BAN : Series 2 F.T 20 1438
 Series 2,5 F.T 25 1460

CAN

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

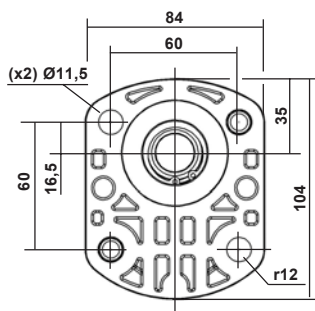
CAN : Series 2 F.T 20 1439
 Series 2,5 F.T 25 1461

CEN / CEK

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

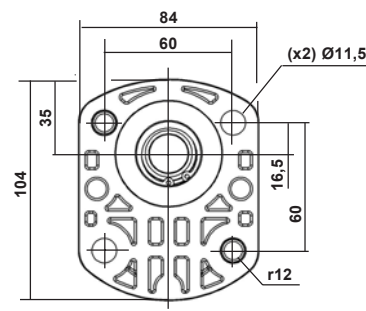
CEN : Series 2 F.T 20 1440
 Series 2,5 F.T 25 1462
CEK : Series 2 F.T 20 1441
 Series 2,5 F.T 25 1463

DBN / DBK

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

DBN : Series 2 F.T 20 1442
 Series 2,5 F.T 25 1464
DBK : Series 2 F.T 20 1443
 Series 2,5 F.T 25 1465

DCN / DCK

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

DCN : Series 2 F.T 20 1444
 Series 2,5 F.T 25 1466
DCK : Series 2 F.T 20 1445
 Series 2,5 F.T 25 1467

DWN

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

DWN : Series 2 F.T 20 1447
 Series 2,5 F.T 25 1469

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1433 5/12

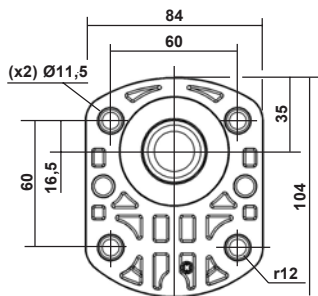
Consult us for availability

[home](#)
[contents](#)
[previous](#)
[next](#)
[main dimensions](#)

PUBLISHING 02 / 2012

FLAT FRONT BODIES

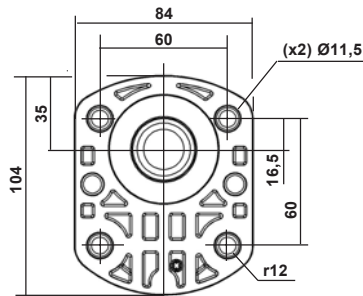
DUK



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

DUK : Series 2 F.T 20 1446
Series 2,5 F.T 25 1468

DZK

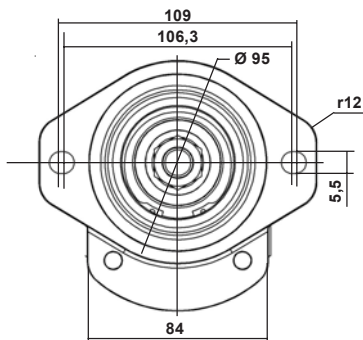


Centering: $\varnothing 52 \begin{smallmatrix} -0,030 \\ -0,060 \end{smallmatrix}$
Thickness: 6

DZK : Series 2 F.T 20 1448
Series 2,5 F.T 25 1470

THICK FRONT BODIES

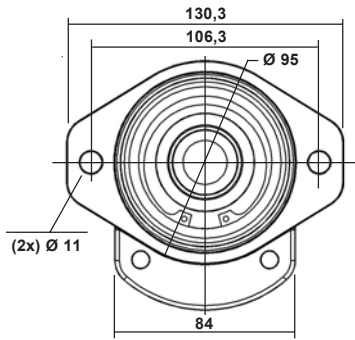
AAP / AAR



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

AAP : Series 2 F.T 20 1449
Series 2,5 F.T 25 1471
AAR : Series 2 F.T 20 1450
Series 2,5 F.T 25 1472

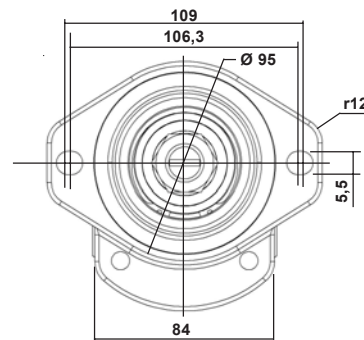
ARP / ARK



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

ARP : Series 2 F.T 20 1451
Series 2,5 F.T 25 1473
ARK : Series 2 F.T 20 1452
Series 2,5 F.T 25 1474

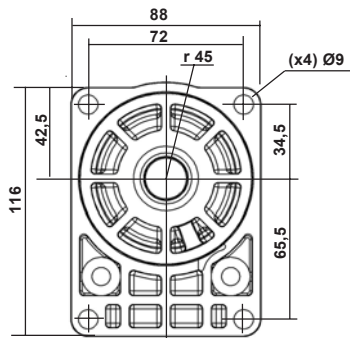
AVP



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

AVP : Série 2 F.T 20 1453
Série F.T 25 1475
2,5

DBP / DBR



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

DBP : Series 2 F.T 20 1454
Series 2,5 F.T 25 1476
DBR : Series 2 F.T 20 1455
Series 2,5 F.T 25 1477

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1433 6/12

Consult us for availability

[home](#)

[contents](#)

[previous](#)

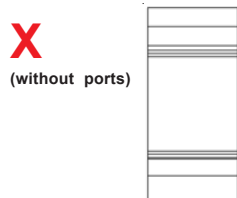
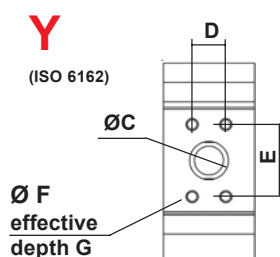
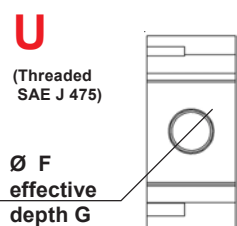
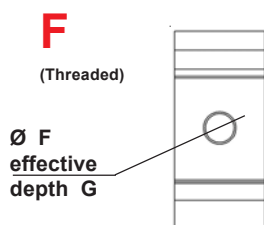
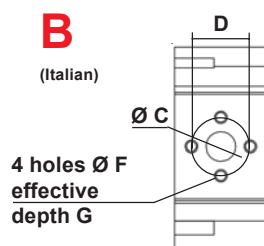
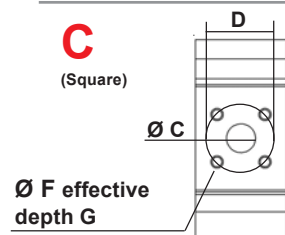
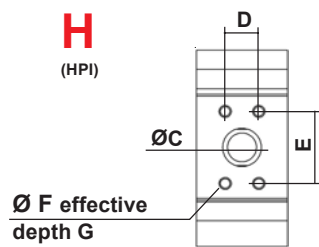
[next](#)

[main dimensions](#)

PUBLISHING 02 / 2012

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET					OUTLET				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
2006 to 2012	15	17,4	38	M6	12	20	17,4	38	M6	15
2014 to 2030 2512 to 2522	15	17,4	38	M6	12	26	47,6	22,4	M6	12
2006 to 2030 2512 to 2522	15	35		M6	12	20	40		M6	12
2006 to 2012	15	30		M6	13	15	30		M6	13
2014 to 2030 2512 to 2522	15	30		M6	13	23,5	40		M8	13
2006 to 2012				3/8" BSP	12				3/4" BSP	16
2014 to 2022 2512				1/2" BSP	14				1" BSP	18
2006 to 2012				7/8" 14 UNF 2B	17				1"1/16 12 UNF 2B	20
2014 to 2022 2512				1"5/16 12 UNF 2B	17				7/8" 14 UNF 2B	20
2026-2030 2515 to 2522				1"4/16 12 UNF 2B	20				1"5/16 12 UNF 2B	20
2006 to 2012	15	17,4	38	M8	14	20	17,4	38	M8	14
2014 to 2022 2512	15	17,4	38	M8	14	26	47,6	22,4	M10	14
2026-2030 2515 to 2522	15	17,4	38	M10	14	26	52,4	26,2	M10	14
2006 to 2030 2512 to 2522	Only with rear body Type A									

[illegible]

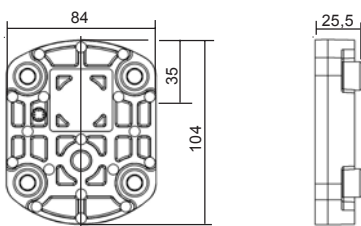
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1433 7/12

REAR BODIES for MOTORS M1 - M2

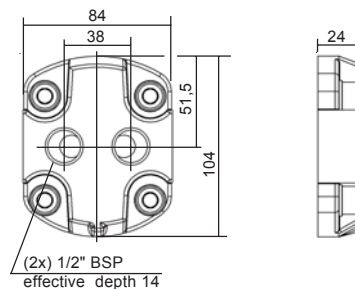
L

Standard



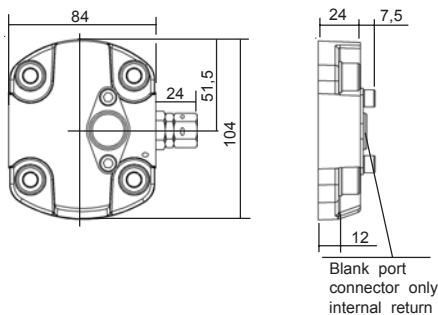
A

with ports



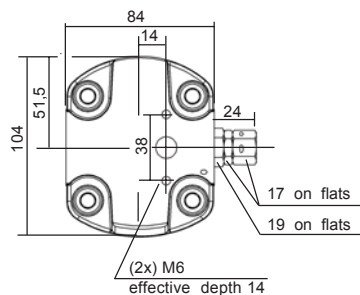
X

High pressure relief valve
(Adjustable) Internal return



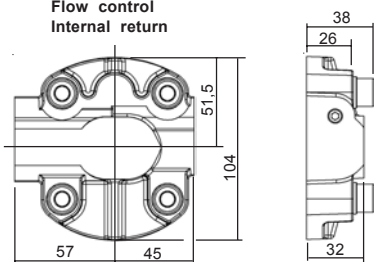
T

High pressure relief valve
(Adjustable) External return



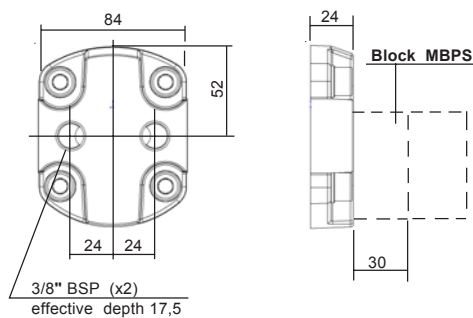
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1433 8/12

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

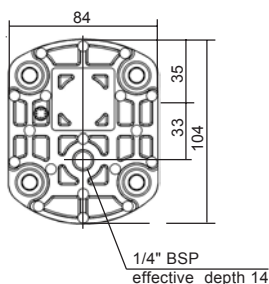
[main dimensions](#)

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

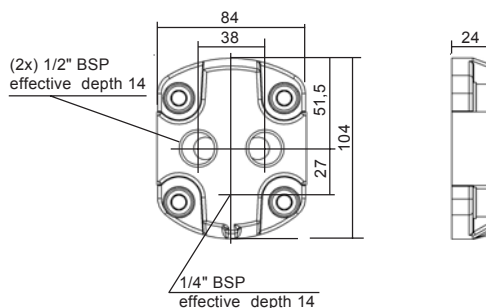
L

Standard



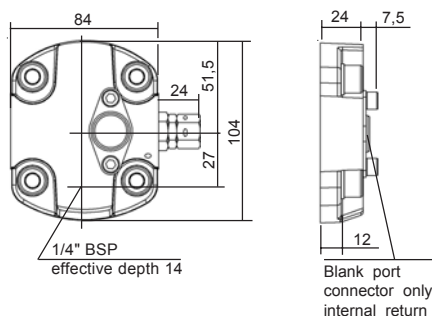
A

with ports



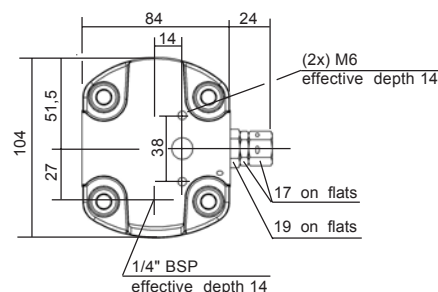
X

High pressure relief valve
(Adjustable) Internal return



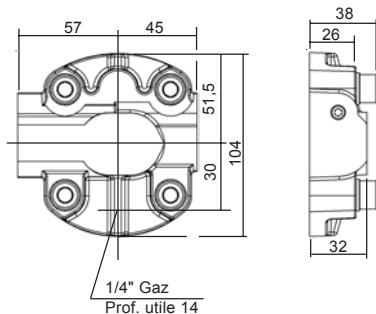
T

High pressure relief valve
(Adjustable) External return



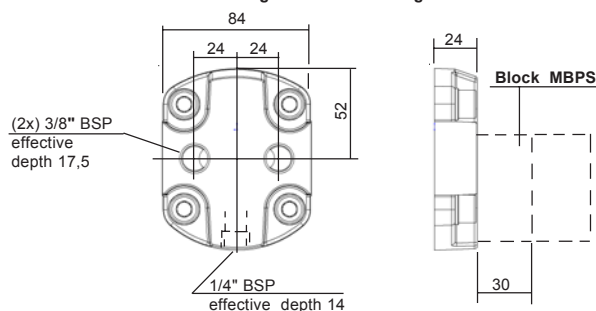
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1433 9/12

Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

 Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

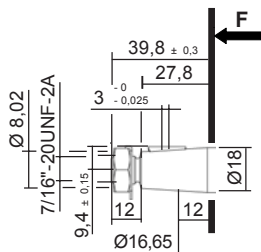
PUBLISHING 02 / 2012

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

B02 Cône 1 / 8

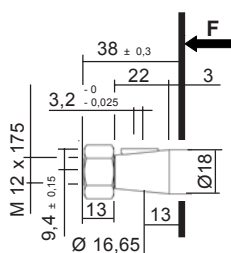


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

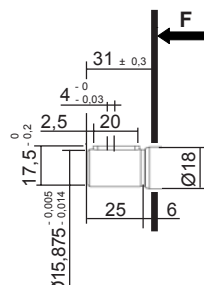
Maxi transmissible torque

220 N.m

Straight keyed

20

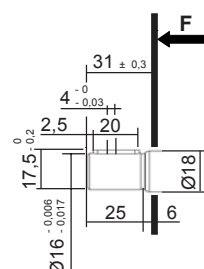
A01



Maxi transmissible torque

50 N.m

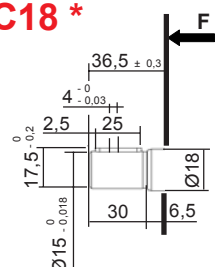
C02



Maxi transmissible torque

50 N.m

C18 *

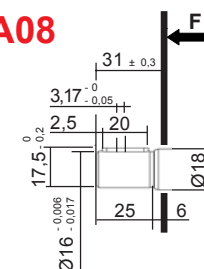


Maxi transmissible torque

40 N.m

*** ONLY 2006 to 2012**

A08



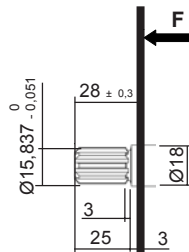
Maxi transmissible torque

50 N.m

Splined

30

A01

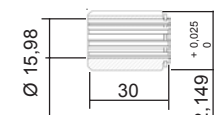


Involute spline SAE Standard
9 teeth - Pitch 16/32 - Flat root
30° Pressure angle

Maxi transmissible torque

100 N.m

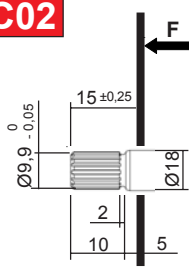
Sleeve coupling 9 teeth / 13 teeth
Ref.: K.5041310
Mounting with splined shaft 30 A01



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

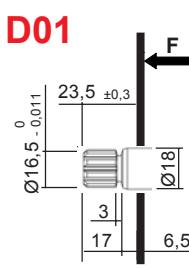


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

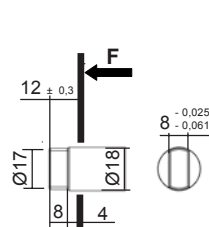
Maxi transmissible torque

100 N.m

Tang

40

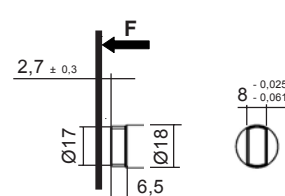
C03



Maxi transmissible torque

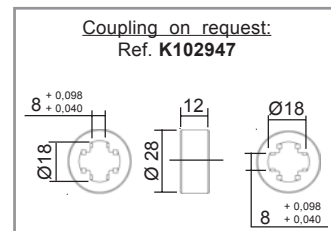
70 N.m

D02



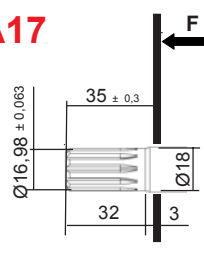
Max tightening torque

70 N.m



Coupling on request:
Ref. K102947

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 1433 10/12

Consult us for availability

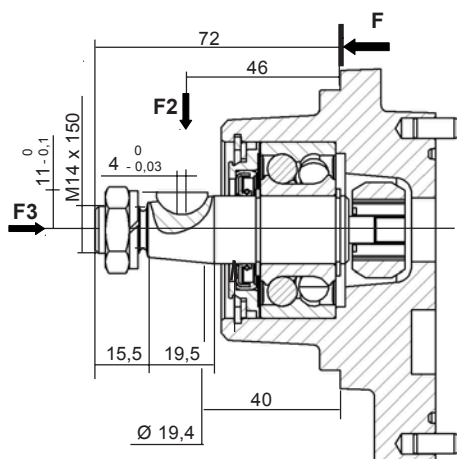
DRIVING SHAFT (THICK FRONT BODY)

Tapered

10

AAP / AAR

C03 Taper 1 / 5



F2 Maxi: 120 daN
F3 Maxi: 50 daN

Maxi transmissible torque

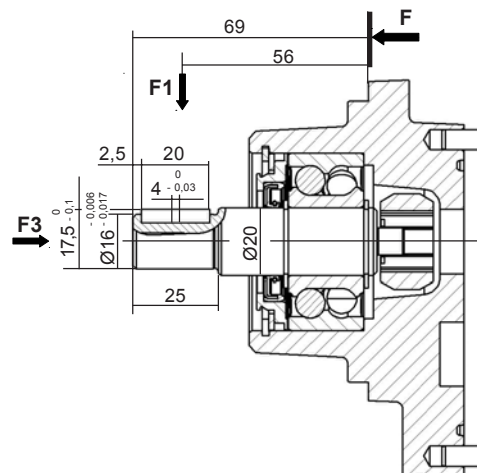
70 N.m

Straight keyed

20

AAP / AAR

C03



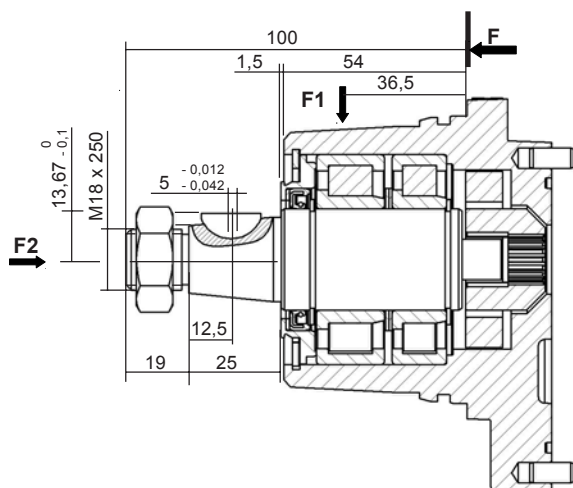
F1 Maxi: 120 daN
F3 Maxi: 50 daN

Maxi transmissible torque

50 N.m

ARP / ARK

C05 Taper 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 1433 11/12

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

PUBLISHING 02 / 2012

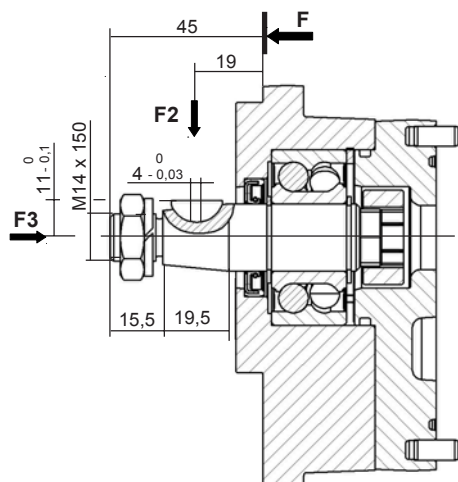
DRIVING SHAFT (THICK FRONT BODY)

Tapered

10

DBP / DBR

C07 Taper 1 / 5



Delivered with Nut: K102045

F2 Maxi: 120 daN

F3 Maxi: 50 daN

Maxi transmissible torque

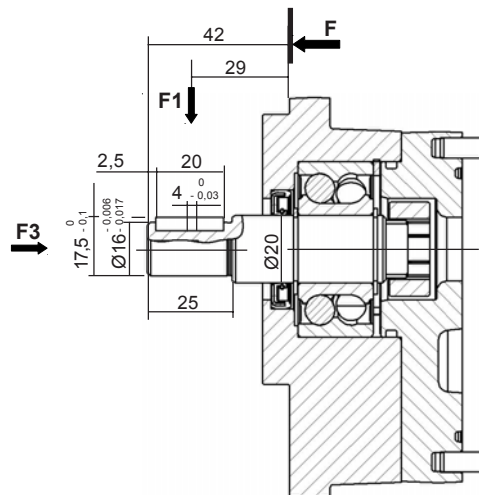
50 N.m

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 1433 12/12

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

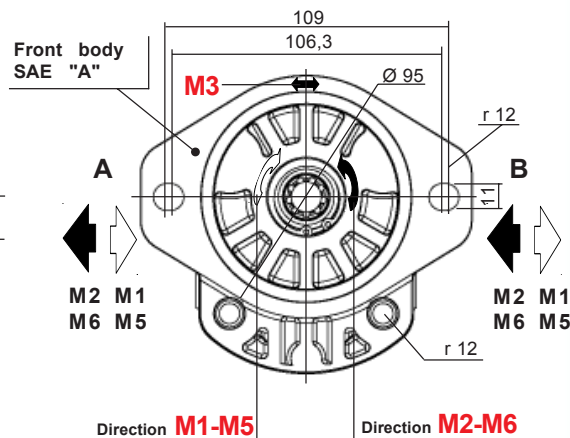
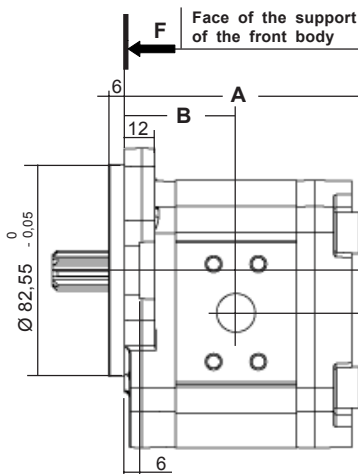
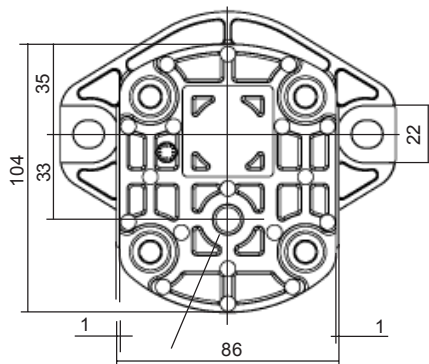
PUBLISHING 02 / 2012



M	II Sign	AA	N	2	VI Sign	H	L	IX Sign	X Sign	XI Sign	XII Sign
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For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Dimensions readings and approximative characteristics subject to modifications.

Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

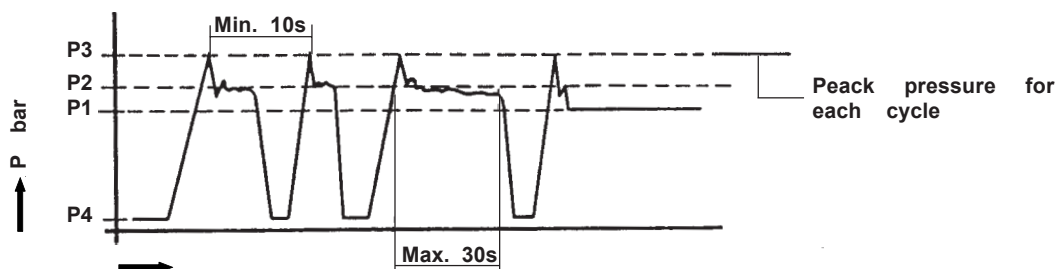
CHOICE of the Capacity	Dimensions	
	A	B
006 - 008 - 010 012	92,5	43,5
014 - 015 - 017 018 - 022	107	51
026 - 030	123	59

Seals kits:
M1 - M2
Nitrile: K5069810 Viton: K5069820
(For manufacture to since january 1984)
M3 - M5/M6
Nitrile: K5071067 Viton: K5071068
(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	1,6
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	1,7
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ^{175 bar}		3500	2,2
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ^{150 bar}		3500	2,3
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ^{150 bar}		3500	2,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ^{150 bar}		3500	2,7

On the hereunder indicated diagram, the maximum duty pressure are the following.

- P1 Maximum pressure in continuous duty P2 Maximum pressure in intermittent duty
P3 Max. Allowable peak pressure P4 Pressure at Motor outlet $\leq P$ (Only in M3)

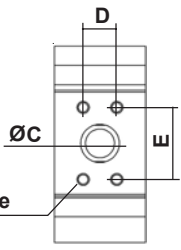
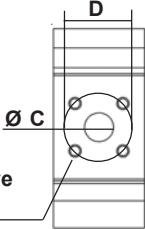
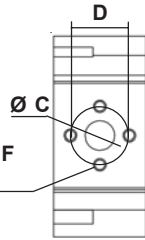
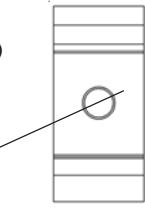
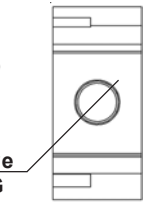
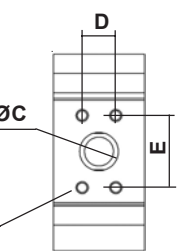


Consult us for availability

F.T 20 1434 1/5

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

		Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
			ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
													INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
H (HPI) 	2006 to 2012	15	17,4	38	M6	12	20	17,4	38	M6	15	A	B	B	A	B	A	
	2014 to 2030 2512 to 2522	15	17,4	38	M6	12	26	47,6	22,4	M6	12							
C (Square) 	2006 to 2030 2512 to 2522	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A	
B (Italian) 	2006 to 2012	15	30		M6	13	15	30		M6	13	A	B	B	A	B	A	
	2014 to 2030 2512 to 2522	15	30		M6	13	23,5	40		M8	13							
F (Threaded) 	2006 to 2012				3/8" BSP	12				3/4" BSP	16	A	B	B	A	B	A	
	2014 to 2022 2512				1/2" BSP	14				1" BSP	18							
U (Threaded SAE J 475) 	2006 to 2012				7/8" 14 UNF 2B	17				1" 1/16 12 UNF 2B	20	A	B	B	A	B	A	
	2014 to 2022 2512				1" 5/16 12 UNF 2B	17				7/8" 14 UNF 2B	20							
	2026-2030 2515 to 2522				1" 1/16 12 UNF 2B	20				1" 5/16 12 UNF 2B	20							
Y (ISO 6162) 	2006 to 2012	15	17,4	38	M8	14	20	17,4	38	M8	14	A	B	B	A	B	A	
	2014 to 2022 2512	15	17,4	38	M8	14	26	47,6	22,4	M10	14							
	2026-2030 2515 to 2522	15	17,4	38	M10	14	26	52,4	26,2	M10	14							
X (without ports) 	2006 to 2030 2512 to 2522	Only with rear body Type A																

PUBLISHING 01 / 2013

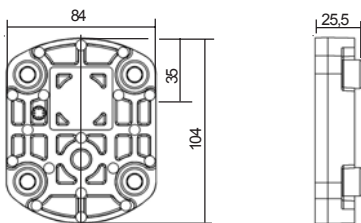
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1434 2/5

REAR BODIES for MOTORS M1 - M2

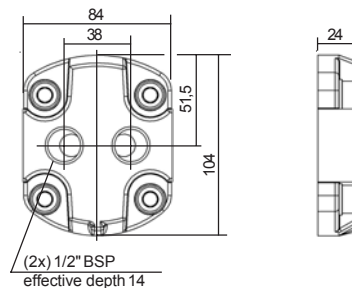
L

Standard



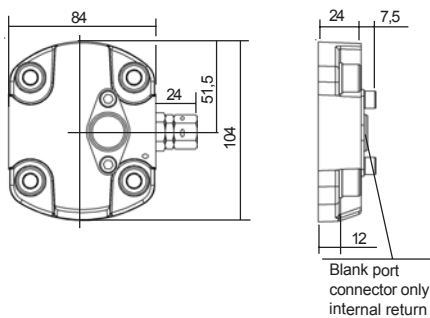
A

with ports



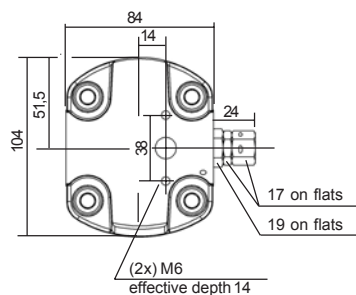
X

High pressure relief valve
(Adjustable) Internal return



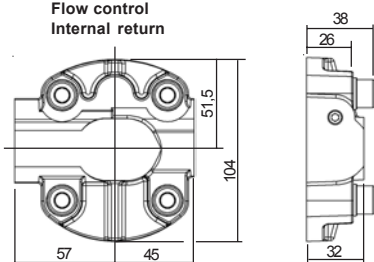
T

High pressure relief valve
(Adjustable) External return



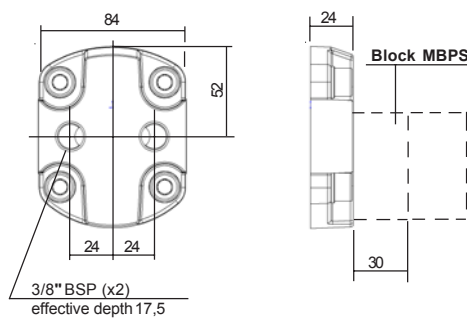
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1434 3/5



Consult us for availability

home

contents

previous

next

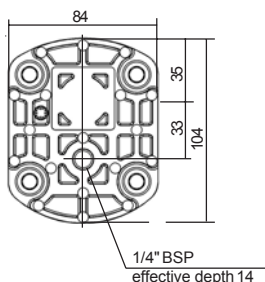
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

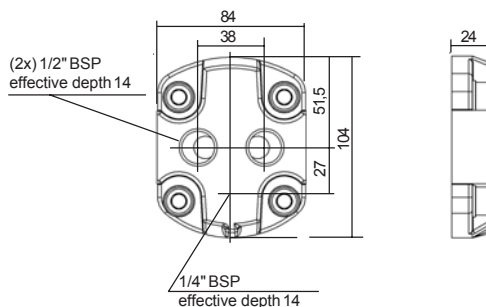
L

Standard



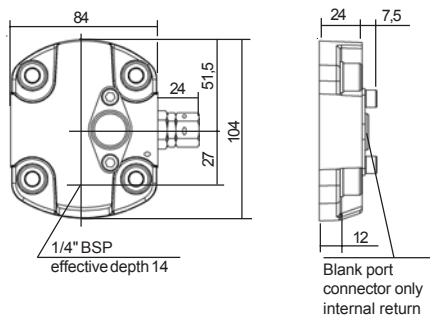
A

with ports



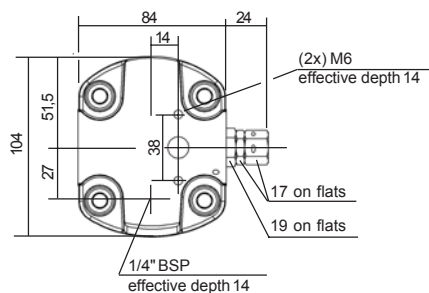
X

High pressure relief valve
(Adjustable) Internal return



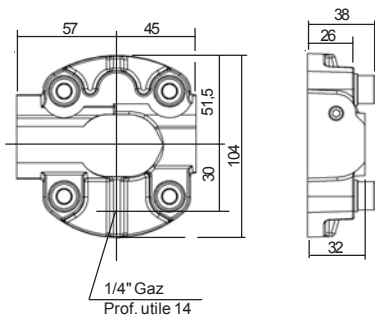
T

High pressure relief valve
(Adjustable) External return



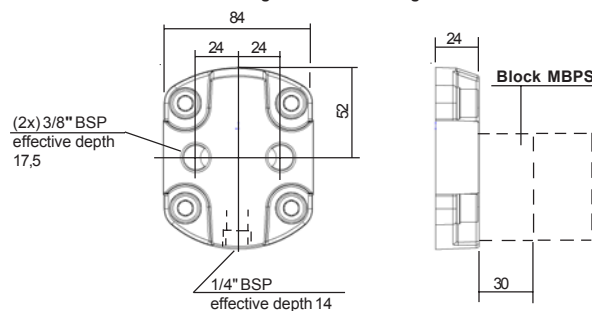
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

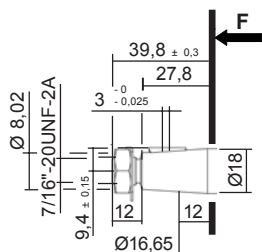
Consult us for availability

DRIVING SHAFT

Tapered

10

B02 Cône 1 / 8

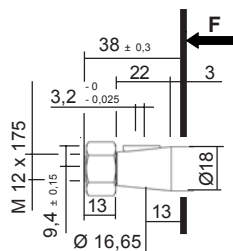


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

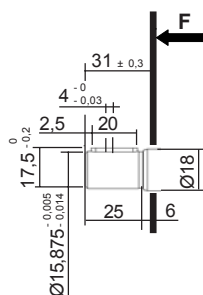
Maxi transmissible torque

220 N.m

Straight keyed

20

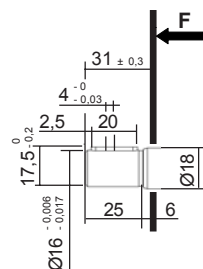
A01



Maxi transmissible torque

50 N.m

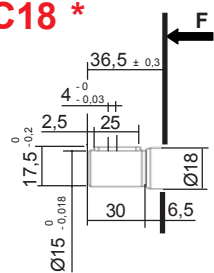
C02



Maxi transmissible torque

50 N.m

C18 *

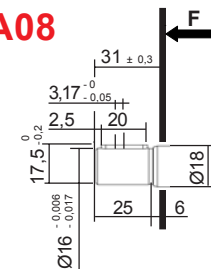


Maxi transmissible torque

40 N.m

*** ONLY 2006 to 2012**

A08



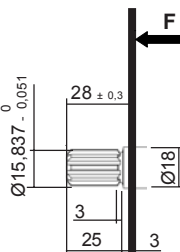
Maxi transmissible torque

50 N.m

Splined

30

A01

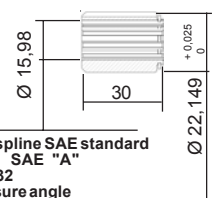


Involute spline SAE Standard
9 teeth - Pitch 16/32 - Flat root
30° Pressure angle

Maxi transmissible torque

100 N.m

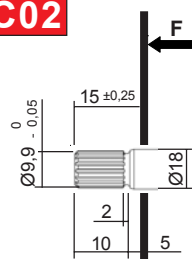
Sleeve coupling 9 teeth / 13 teeth
Ref.: **K.5041310**
Mounting with splinned shaft **30 A01**



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

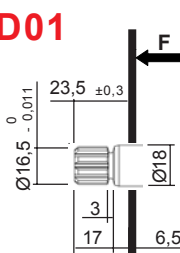


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

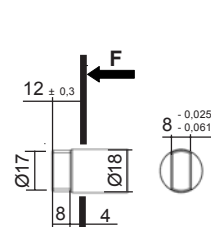
Maxi transmissible torque

100 N.m

Tang

40

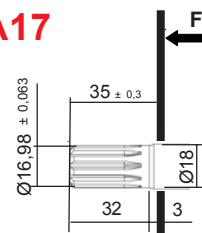
C03



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.

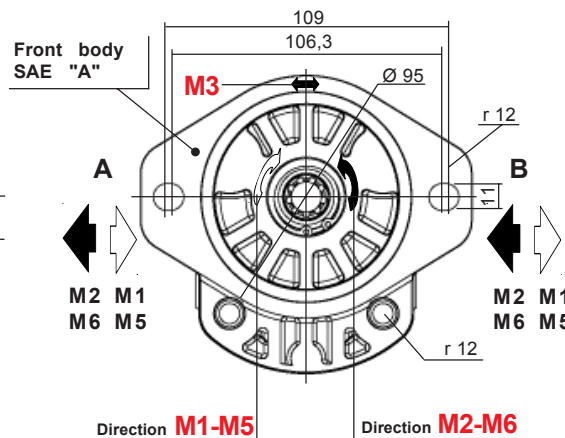
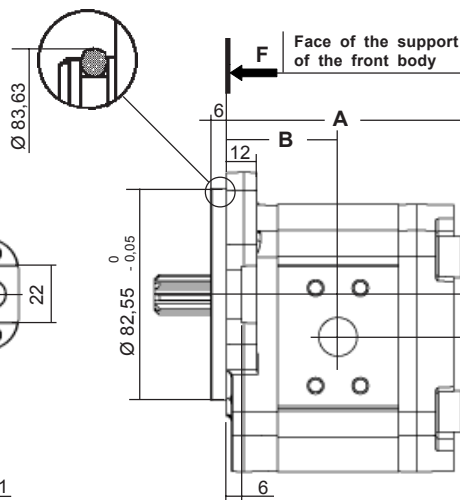
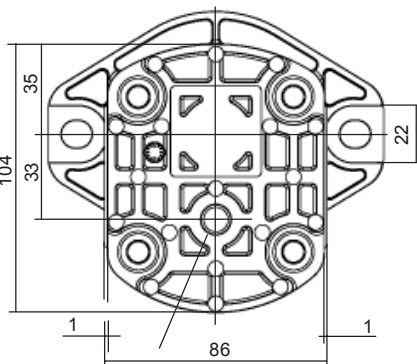
F.T 20 1434 5/5

Consult us for availability

M II Sign AAK 2 VI Sign HL IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet F.T R 0243

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Dimensions readings and approximative characteristics subject to modifications.

Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

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

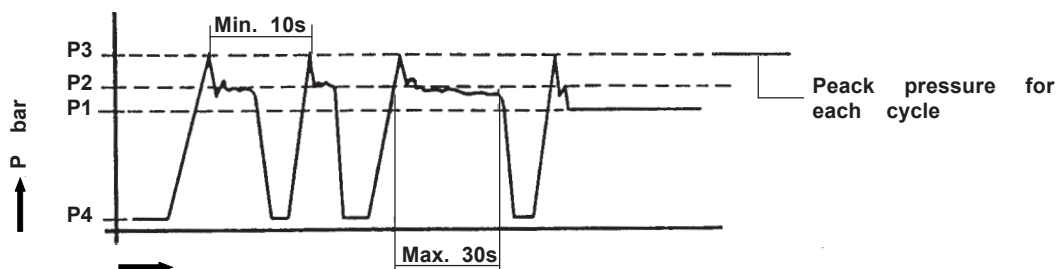
Seals kits:
M1 - M2
Nitrile: K5069810 + K102901
Viton: K5069820 + K104093
(For manufacture to since january 1984)
M3 - M5/M6
Nitrile: K5071067 + K102901
Viton: K5071068 + K104093
(For manufacture to since february 1986)

MODEL	Capacity	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
	cc / rev	bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	1,6
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	1,7
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ²²⁵ bar	3500	2
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ²²⁵ bar	3500	2,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ²²⁵ bar	3500	2,1
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ¹⁷⁵ bar		3500	2,2
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ¹⁵⁰ bar		3500	2,3
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ¹⁵⁰ bar		3500	2,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ¹⁵⁰ bar		3500	2,7

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

Port connector, see our Catalogue N° 70

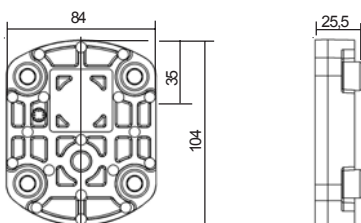
1 way rotation with counter pressure				pressure	
M5		M6		M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET

087 / 00

REAR BODIES for MOTORS M1 - M2

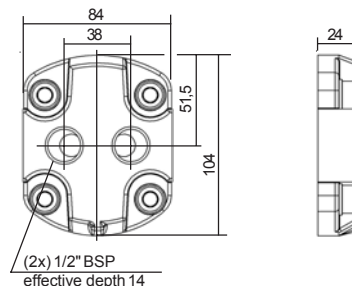
L

Standard



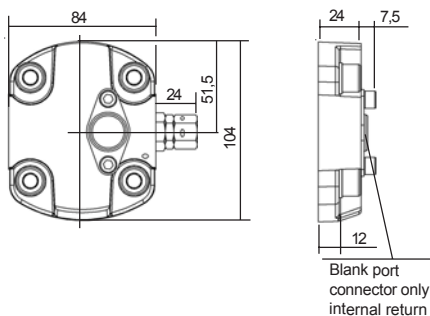
A

with ports



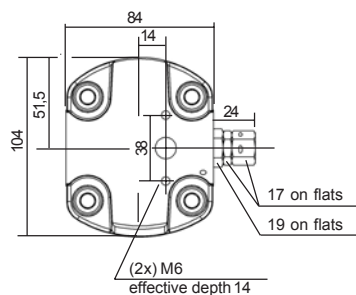
X

High pressure relief valve
(Adjustable) Internal return



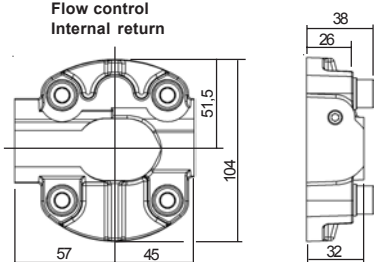
T

High pressure relief valve
(Adjustable) External return



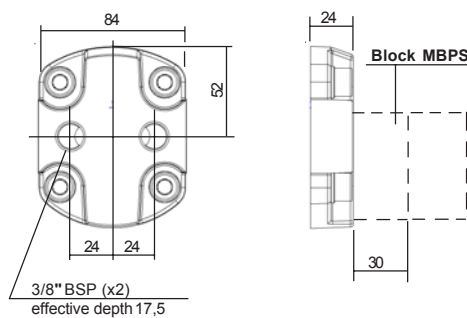
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1435 3/5

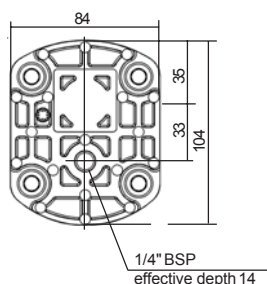


Consult us for availability

REAR BODIES for MOTORS M3 - M5 - M6

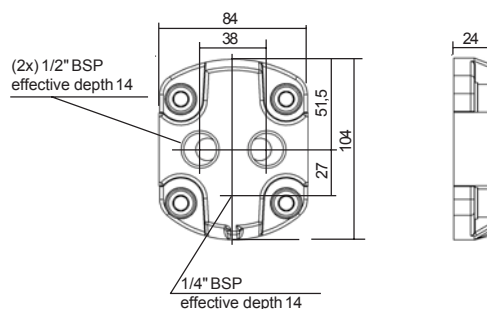
L

Standard



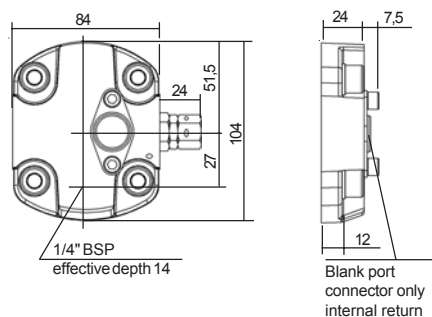
A

with ports



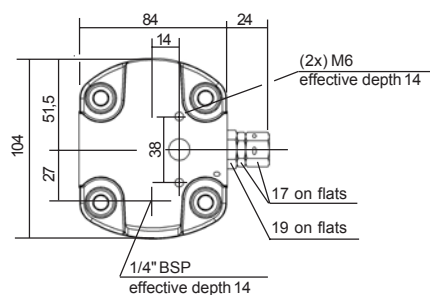
X

High pressure relief valve
(Adjustable) Internal return



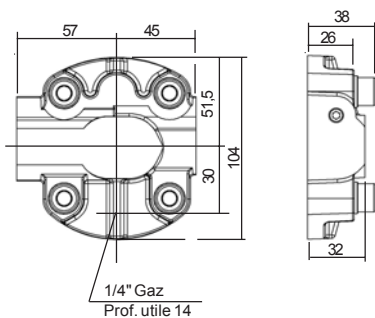
T

High pressure relief valve
(Adjustable) External return



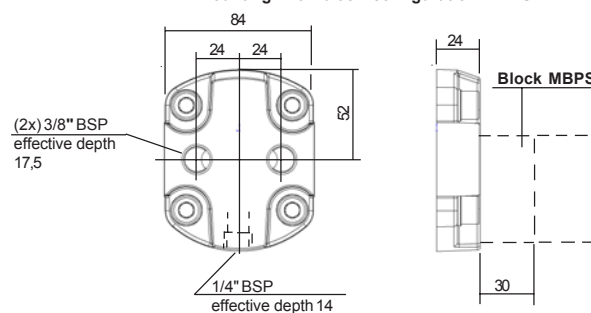
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

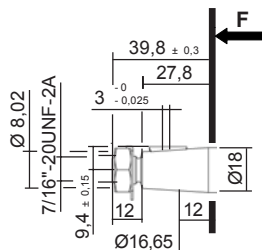
Consult us for availability

DRIVING SHAFT

Tapered

10

B02 Cône 1 / 8

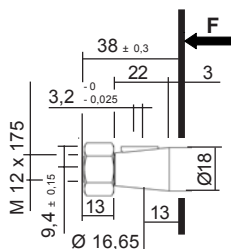


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

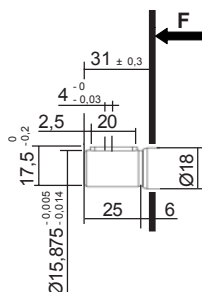
Maxi transmissible torque

220 N.m

Straight keyed

20

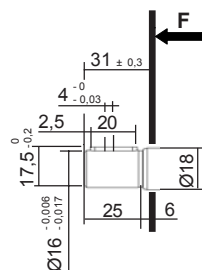
A01



Maxi transmissible torque

50 N.m

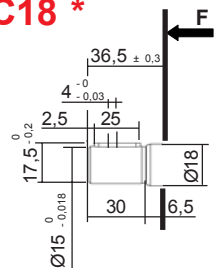
C02



Maxi transmissible torque

50 N.m

C18 *

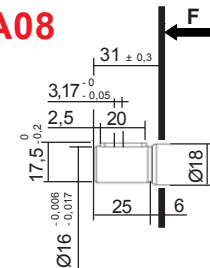


Maxi transmissible torque

40 N.m

*** ONLY 2006 to 2012**

A08



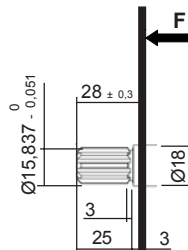
Maxi transmissible torque

50 N.m

Splined

30

A01



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

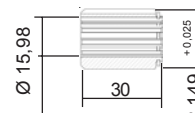
Maxi transmissible torque

100 N.m

Sleeve coupling 9 teeth / 13 teeth

Ref.: K.5041310

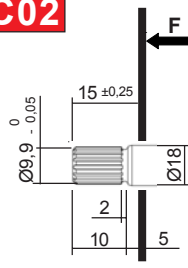
Mounting with splined shaft 30 A01



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

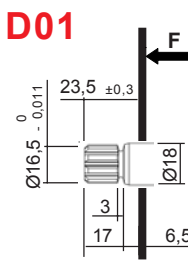


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

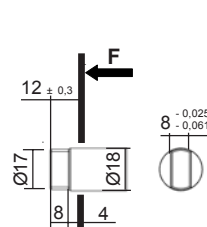
Maxi transmissible torque

100 N.m

Tang

40

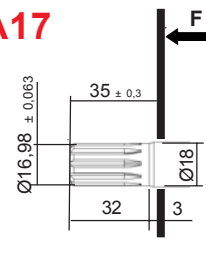
C03



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

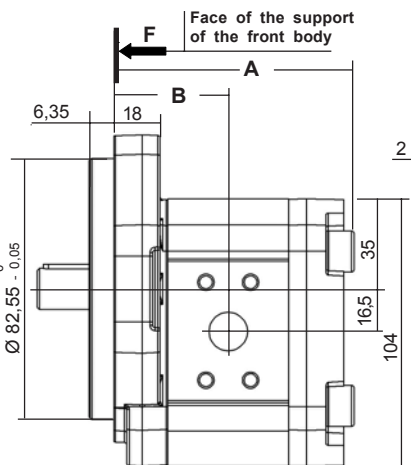
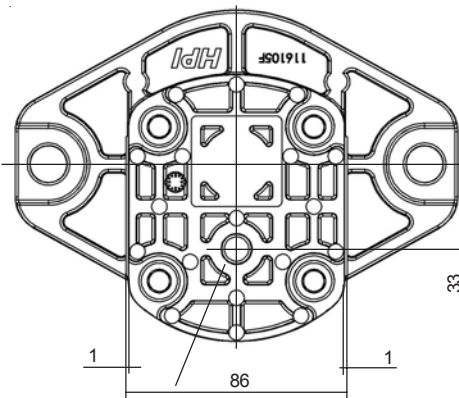
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1435 5/5

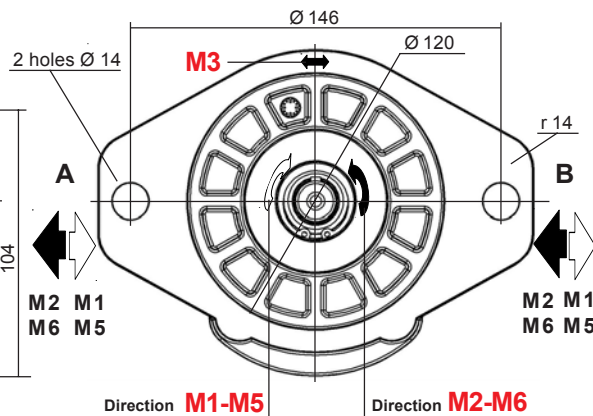
Consult us for availability

M 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 0243**



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



CHOICE of the Capacity

Dimensions
A B

006 - 008 - 010 012	92,5	43,5
014 - 015 - 017 018 - 022	107	51
026 - 030	123	59

Seals kits:

M1 - M2

Nitrile: **K5069810** Viton: **K5069820**

(For manufacture to since january 1984)

M3 - M5/M6

Nitrile: **K5071067** Viton: **K5071068**

(For manufacture to since february 1986)

Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

MODEL	Capacity	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
	cc / rev	bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	1,6
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	1,7
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ^{175 bar}		3500	2,2
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ^{150 bar}		3500	2,3
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ^{150 bar}		3500	2,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ^{150 bar}		3500	2,7

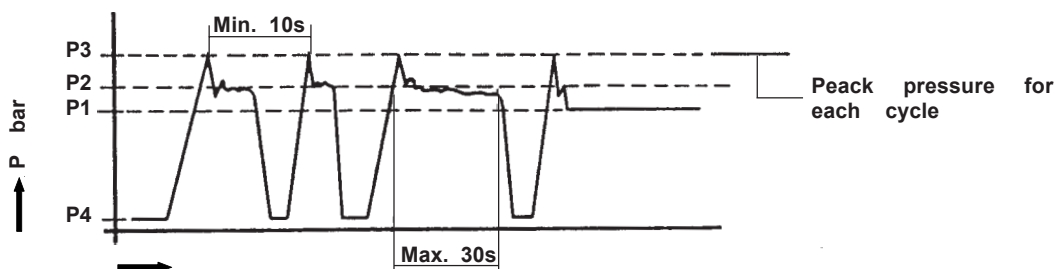
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

Port connector, see our Catalogue N° 70

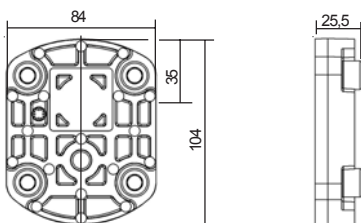
1 way rotation with counter pressure				pressure	
M5		M6		M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET

PUBLISHING 01 / 2013

REAR BODIES for MOTORS M1 - M2

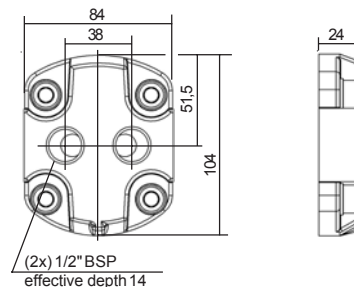
L

Standard



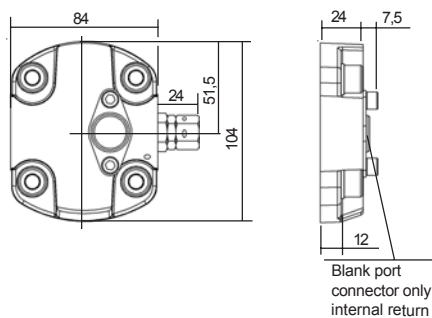
A

with ports



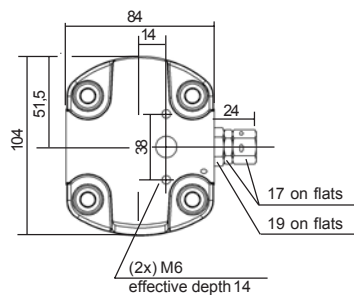
X

High pressure relief valve
(Adjustable) Internal return



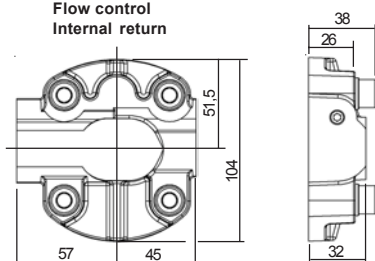
T

High pressure relief valve
(Adjustable) External return



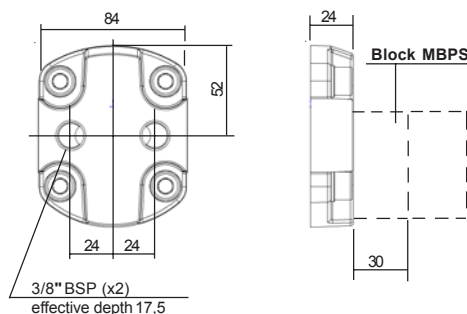
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1436 3/5

Consult us for availability

home

contents

previous

next

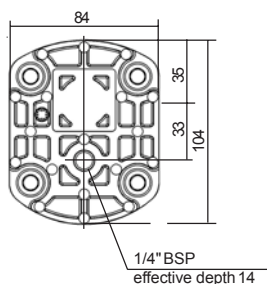
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

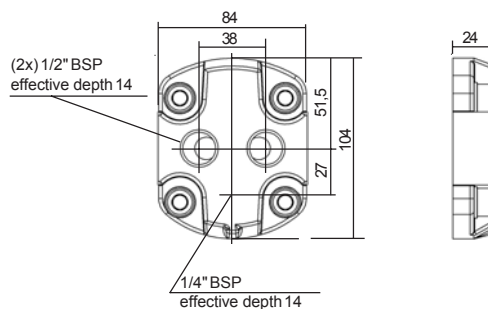
L

Standard



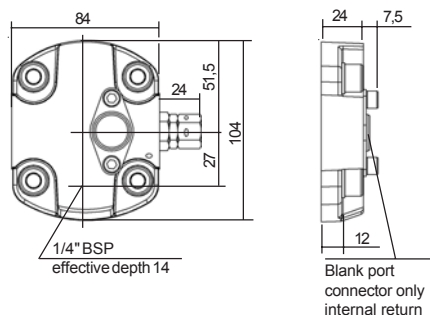
A

with ports



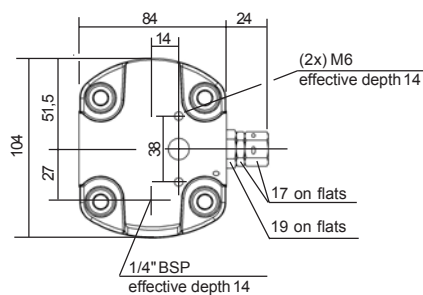
X

High pressure relief valve
(Adjustable) Internal return



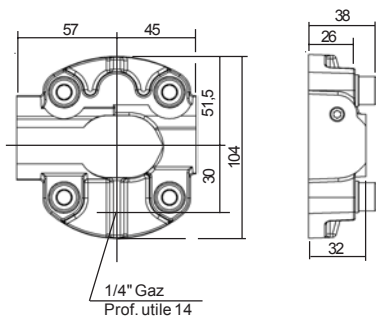
T

High pressure relief valve
(Adjustable) External return



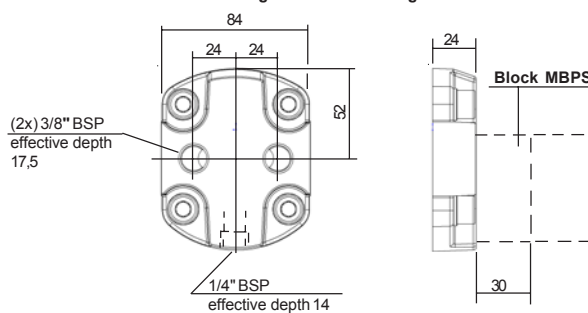
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			

 Versions not manufactured

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1436 4/5



Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

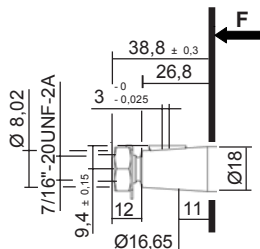
PUBLISHING 02 / 2012

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

B02 Cône 1 / 8

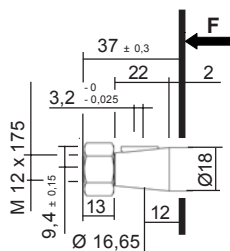


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

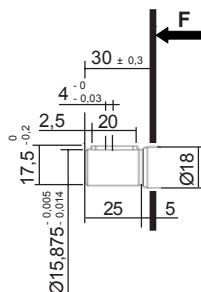
Maxi transmissible torque

220 N.m

Straight keyed

20

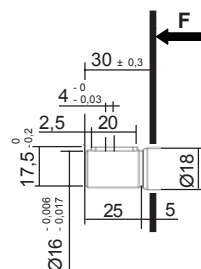
A01



Maxi transmissible torque

50 N.m

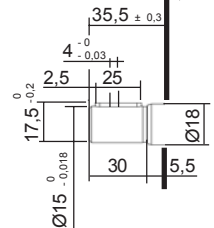
C02



Maxi transmissible torque

50 N.m

C18 *

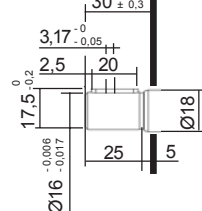


Maxi transmissible torque

40 N.m

* ONLY 2006 to 2012

A08



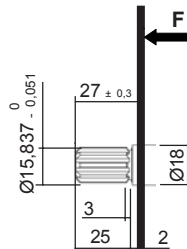
Maxi transmissible torque

50 N.m

Splined

30

A01

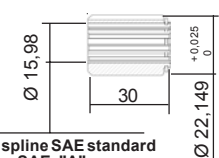


Involute spline SAE Standard
9 teeth - Pitch 16/32 - Flat root
30° Pressure angle

Maxi transmissible torque

100 N.m

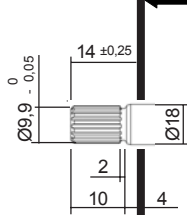
Sleeve coupling 9 teeth / 13 teeth
Ref.: K.5041310
Mounting with splined shaft 30 A01



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

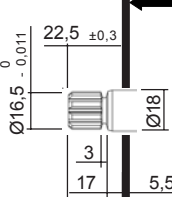


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

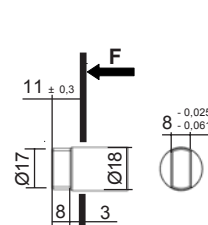
Maxi transmissible torque

100 N.m

Tang

40

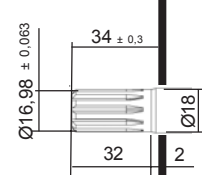
C03



Maxi transmissible torque

70 N.m

A17



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

Maxi transmissible torque

100 N.m

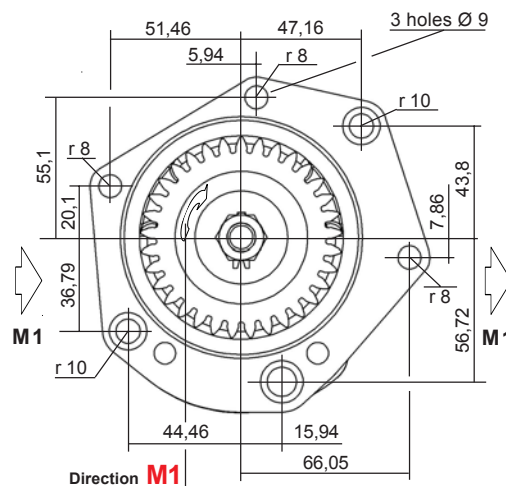
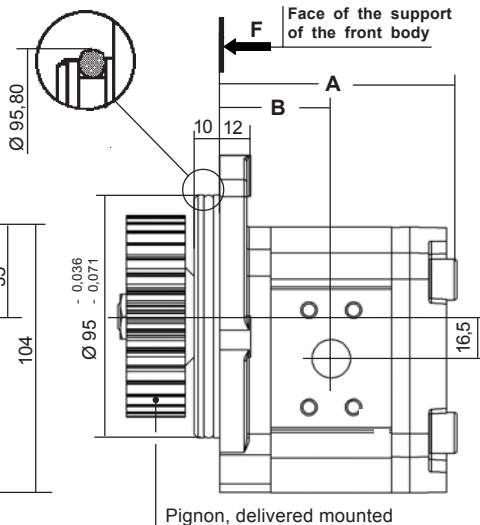
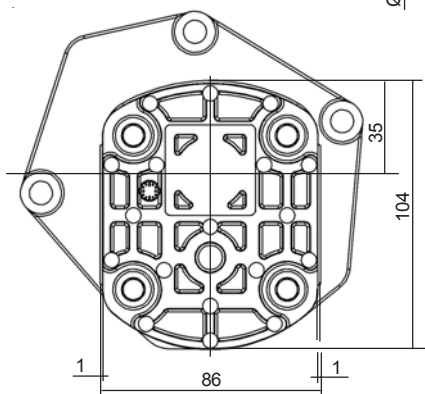
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1436 5/5

Consult us for availability

M 1 **AP K 2** VI Sign **H L P** **P100 *** XI Sign

For CODIFICATION, see data sheet **F.T R 0243**



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

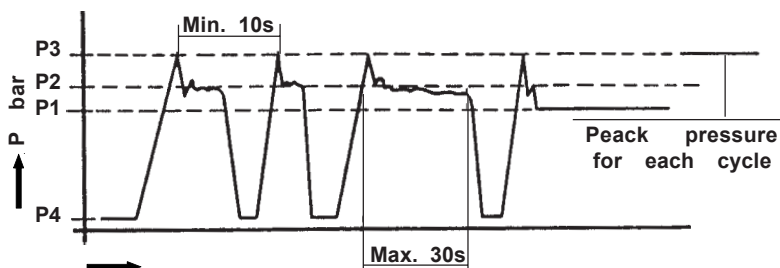
Dimensions

	A	B
006 - 008 - 010 012	92,5	43,5
014 - 015 - 017	107	51
018 - 022	123	59
026 - 030	123	59

Seals kits:

M1
Nitrile: **K5069810 + X368928**
Viton: **K5069820**
(For manufacture to since january 1984)

MODEL	Capacity	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
	cc / rev	bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	1,6
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	1,7
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ^{175 bar}		3500	2,2
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ^{150 bar}		3500	2,3
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ^{150 bar}		3500	2,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ^{150 bar}		3500	2,7

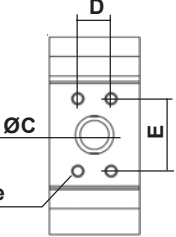
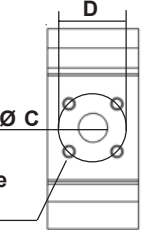
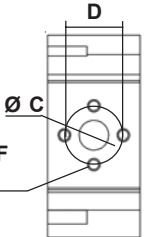
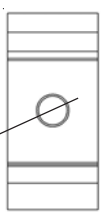
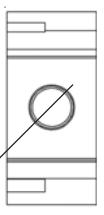
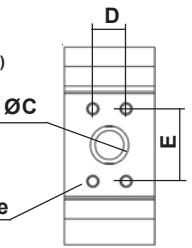


On the hereunder indicated diagram, the maximum duty pressure are the following.
P1 Maximum pressure in continuous duty
P2 Maximum pressure in intermittent duty
P3 Max. Allowable peak pressure
P4 Pressure at Motor outlet ≤ P (Only in M3)

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

	Capacity	INLET					OUTLET				
		ØC	D	E	ØF	G	ØC	D	E	ØF	G
H (HPI) 	2006 to 2012	15	17,4	38	M6	12	20	17,4	38	M6	15
	2014 to 2030 2512 to 2522	15	17,4	38	M6	12	26	47,6	22,4	M6	12
C (Square) 	2006 to 2030 2512 to 2522	15	35		M6	12	20	40		M6	12
B (Italian) 	2006 to 2012	15	30		M6	13	15	30		M6	13
	2014 to 2030 2512 to 2522	15	30		M6	13	23,5	40		M8	13
F (Threaded) 	2006 to 2012				3/8" BSP	12				3/4" BSP	16
	2014 to 2022 2512				1/2" BSP	14				1" BSP	18
U (Threaded SAE J475) 	2006 to 2012				7/8" 14 UNF 2B	17				1"1/16 12 UNF 2B	20
	2014 to 2022 2512				1"5/16 12 UNF 2B	17				7/8" 14 UNF 2B	20
	2026-2030 2515 to 2522				1"1/16 12 UNF 2B	20				1"5/16 12 UNF 2B	20
Y (ISO 6162) 	2006 to 2012	15	17,4	38	M8	14	20	17,4	38	M8	14
	2014 to 2022 2512	15	17,4	38	M8	14	26	47,6	22,4	M10	14
	2026-2030 2515 to 2522	15	17,4	38	M10	14	26	52,4	26,2	M10	14

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1437 2/4

Consult us for availability

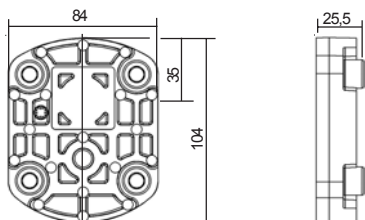
[home](#)
[contents](#)
[previous](#)
[next](#)
[main dimensions](#)

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M1

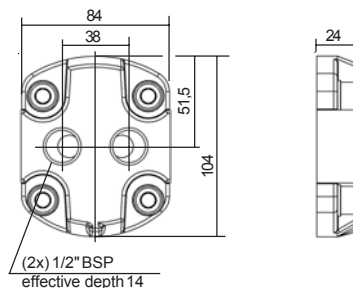
L

Standard



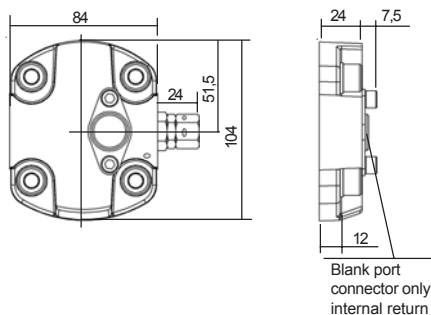
A

with ports



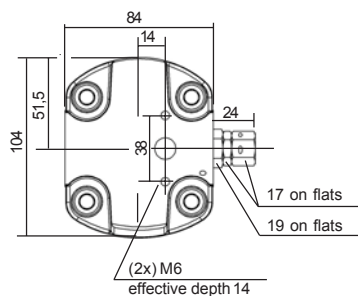
X

High pressure relief valve
(Adjustable) Internal return



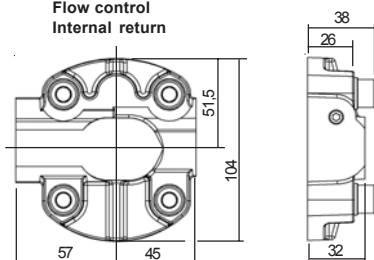
T

High pressure relief valve
(Adjustable) External return



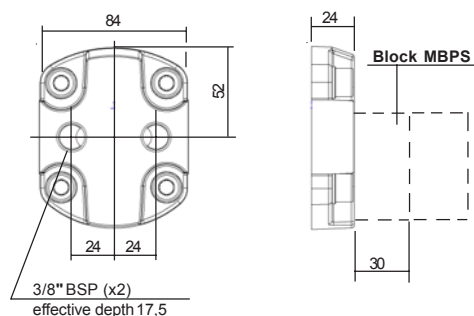
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



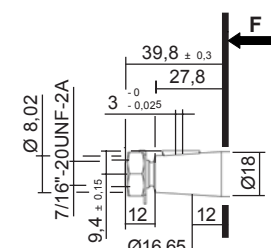
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1437 3/4



Consult us for availability

DRIVING SHAFT

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

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1437 4/4



Consult us for availability

[home](#)

[contents](#)

[previous](#)

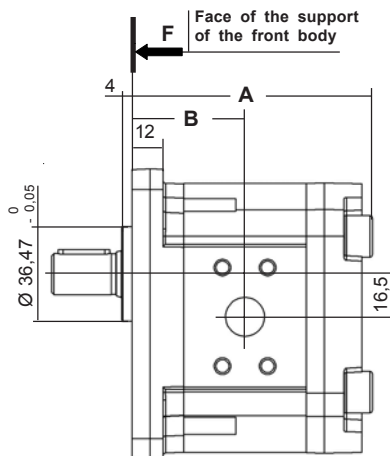
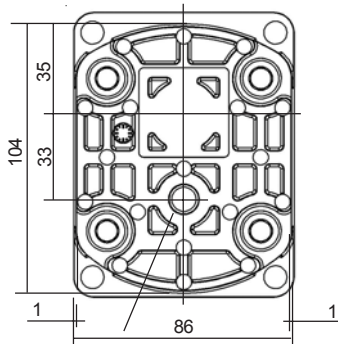
[next](#)

[main dimensions](#)

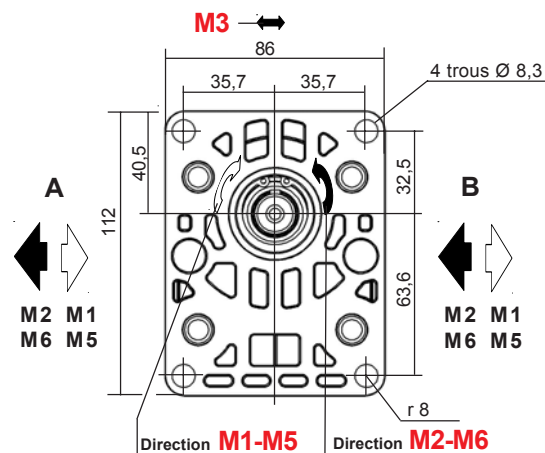
PUBLISHING 02 / 2012

M II Sign **BA** **N** **2** VI Sign **H** **L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0243**



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity

Dimensions

	A	B
006 - 008 - 010 012	92,5	43,5
014 - 015 - 017 018 - 022	107	51
026 - 030	123	59

Seals kits:

M1 - M2

Nitrile: **K5069810** Viton: **K5069820**

(For manufacture to since january 1984)

M3

Nitrile: **K5071067** Viton: **K5071068**

(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	1,6
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	1,7
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ^{175 bar}	1500 ^{225 bar}	3500	2,2
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ^{150 bar}	1500 ^{225 bar}	3500	2,3
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ^{150 bar}	1500 ^{225 bar}	3500	2,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ^{150 bar}	1500 ^{225 bar}	3500	2,7

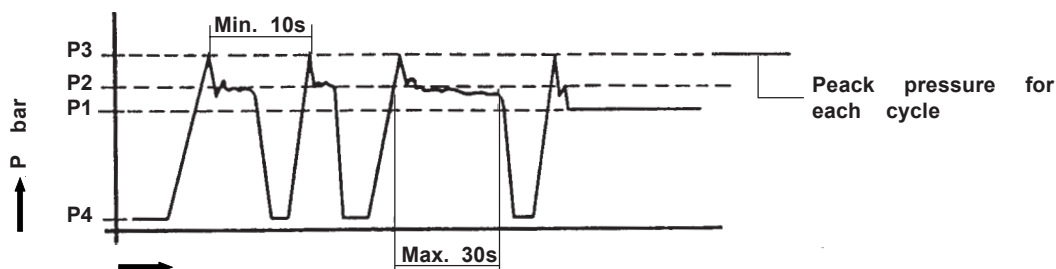
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

home

contents

previous

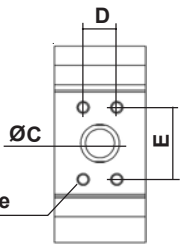
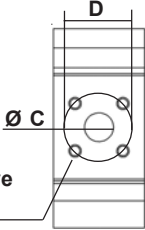
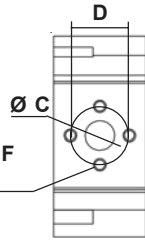
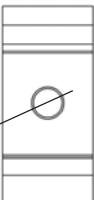
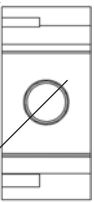
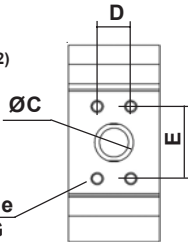
next

main dimensions

PUBLISHING 02 / 2012

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

	Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
												INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
H (HPI)  Ø F effective depth G	2006 to 2012 2014 to 2030 2512 to 2522	15	17,4	38	M6	12	20	17,4	38	M6	15	A	B	B	A	B	A
C (Square)  Ø F effective depth G	2006 to 2030 2512 to 2522	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
B (Italian)  4 holes Ø F effective depth G	2006 to 2012 2014 to 2030 2512 to 2522	15	30		M6	13	15	30		M6	13	A	B	B	A	B	A
F (Threaded)  Ø F effective depth G	2006 to 2012 2014 to 2022 2512				3/8" BSP	12				3/4" BSP	16	A	B	B	A	B	A
					1/2" BSP	14				1" BSP	18						
U (Threaded SAE J 475)  Ø F effective depth G	2006 to 2012 2014 to 2022 2512 2026-2030 2515 to 2522				7/8" 14 UNF 2B	17				1"1/16 12 UNF 2B	20	A	B	B	A	B	A
					1"5/16 12 UNF 2B	17				7/8" 14 UNF 2B	20						
					1"1/16 12 UNF 2B	20				1"5/16 12 UNF 2B	20						
Y (ISO 6162)  ØF effective depth G	2006 to 2012 2014 to 2022 2512 2026-2030 2515 to 2522	15	17,4	38	M8	14	20	17,4	38	M8	14	A	B	B	A	B	A
		15	17,4	38	M8	14	26	47,6	22,4	M10	14						
		15	17,4	38	M10	14	26	52,4	26,2	M10	14						
X (without ports) 	2006 to 2030 2512 to 2522	Only with rear body Type A															

PUBLISHING 01 / 2013

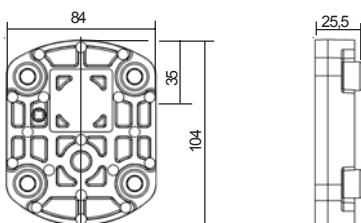
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1438 2/5

REAR BODIES for MOTORS M1 - M2

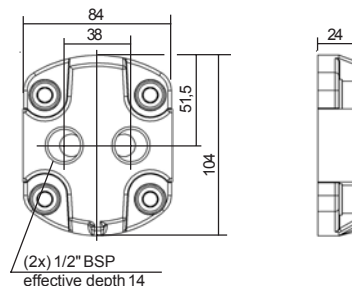
L

Standard



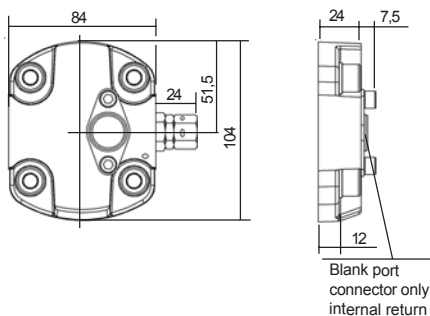
A

with ports



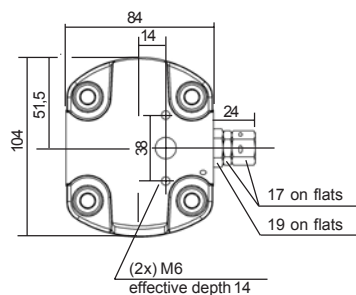
X

High pressure relief valve
(Adjustable) Internal return



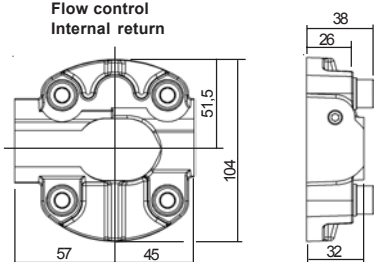
T

High pressure relief valve
(Adjustable) External return



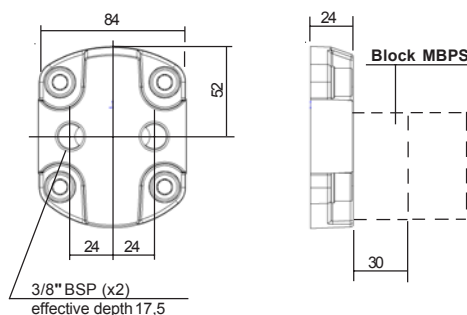
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1438 3/5

Consult us for availability

home

contents

previous

next

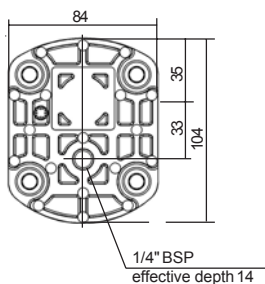
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

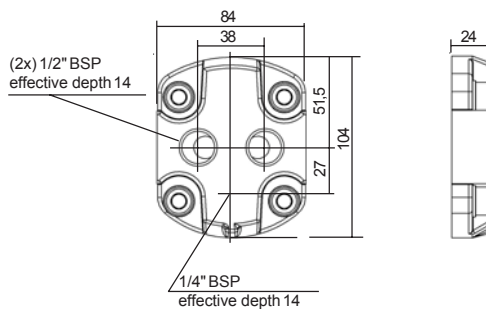
L

Standard



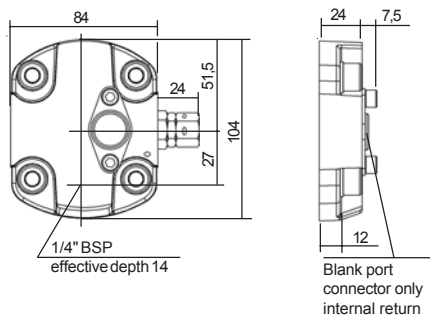
A

with ports



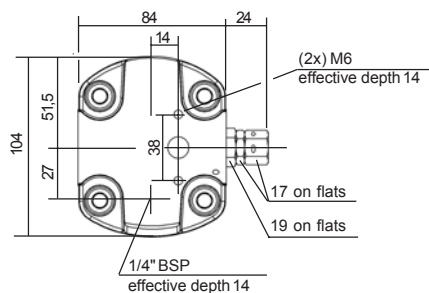
X

High pressure relief valve
(Adjustable) Internal return



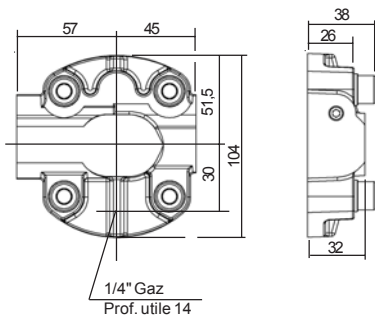
T

High pressure relief valve
(Adjustable) External return



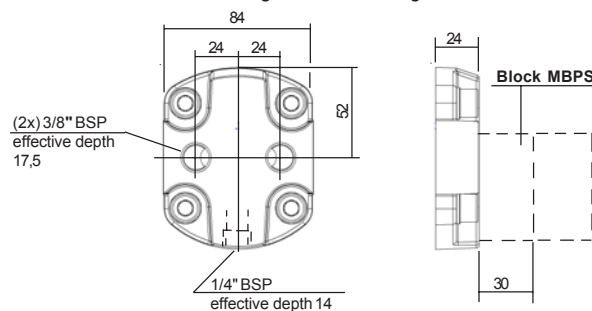
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

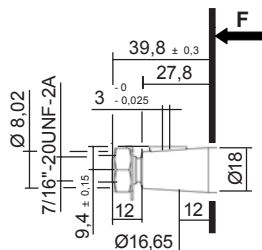
Consult us for availability

DRIVING SHAFT

Tapered

10

B02 Cône 1 / 8

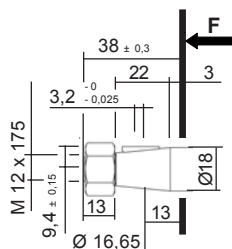


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

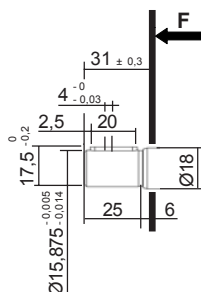
Maxi transmissible torque

220 N.m

Straight keyed

20

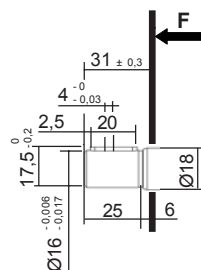
A01



Maxi transmissible torque

50 N.m

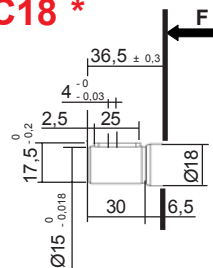
C02



Maxi transmissible torque

50 N.m

C18 *

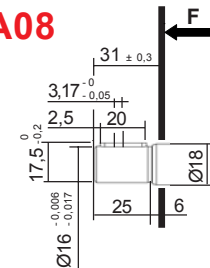


Maxi transmissible torque

40 N.m

*** ONLY 2006 to 2012**

A08



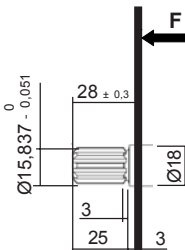
Maxi transmissible torque

50 N.m

Splined

30

A01



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

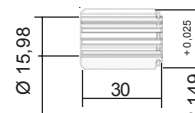
Maxi transmissible torque

100 N.m

Sleeve coupling 9 teeth / 13 teeth

Ref.: K.5041310

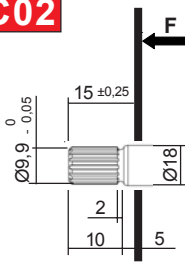
Mounting with splined shaft 30 A01



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

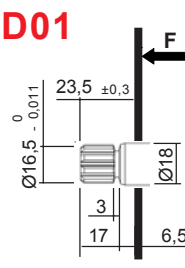


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

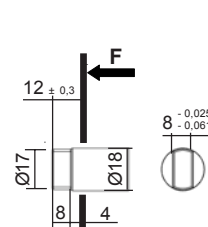
Maxi transmissible torque

100 N.m

Tang

40

C03



Maxi transmissible torque

70 N.m

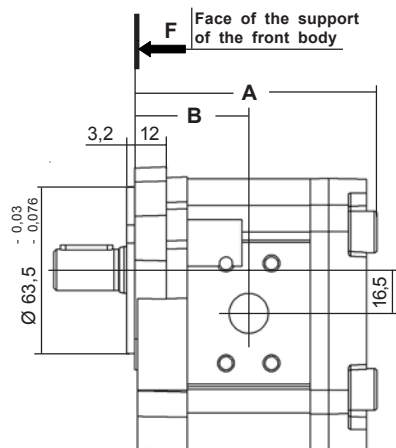
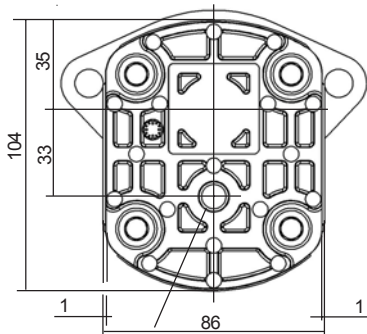
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1438 5/5

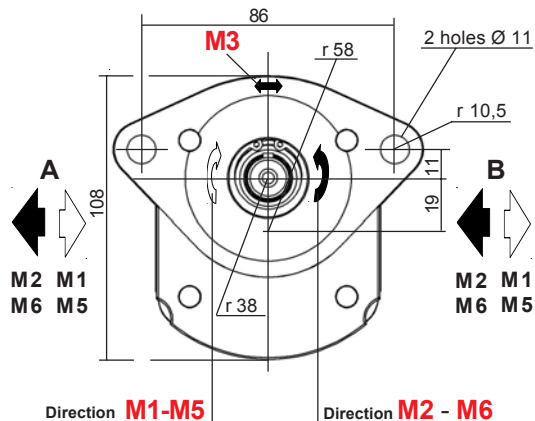
Consult us for availability

M II Sign CAN 2 VI Sign H L IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet F.T R 0243



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of
the Capacity

Dimensions

	A	B
006 - 008 - 010 012	92,5	43,5
014 - 015 - 017 018 - 022	107	51
026 - 030	123	59

Seals kits:

M1 - M2

Nitrile: K5069810 Viton: K5069820
(For manufacture to since january 1984)

M3 - M5/M6

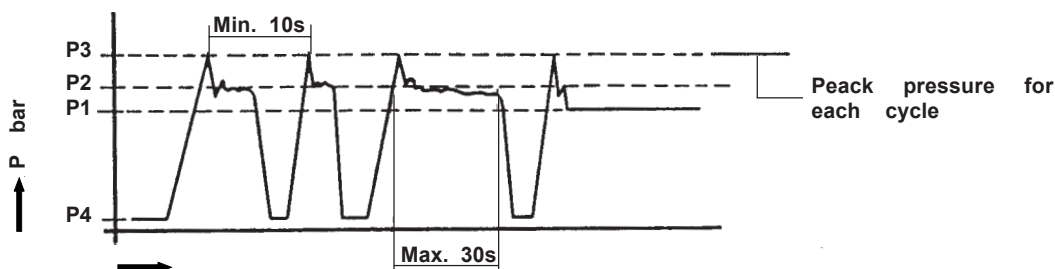
Nitrile: K5071067 Viton: K5071068
(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	1,6
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	1,7
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 225 bar	3500	2
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 225 bar	3500	2,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 225 bar	3500	2,1
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 175 bar		3500	2,2
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 150 bar		3500	2,3
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 150 bar		3500	2,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 150 bar		3500	2,7

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

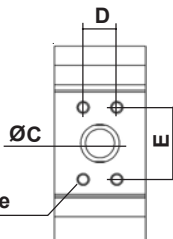
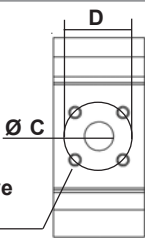
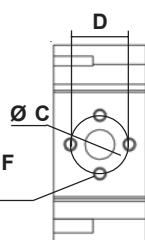
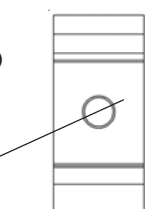
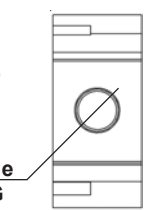
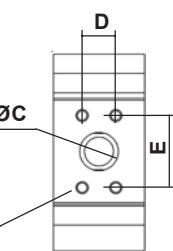
P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

	Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
												INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
H (HPI)  Ø F effective depth G	2006 to 2012 2014 to 2030 2512 to 2522	15	17,4	38	M6	12	20	17,4	38	M6	15	A	B	B	A	B	A
C (Square)  Ø F effective depth G	2006 to 2030 2512 to 2522	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
B (Italian)  4 holes Ø F effective depth G	2006 to 2012 2014 to 2030 2512 to 2522	15	30		M6	13	15	30		M6	13	A	B	B	A	B	A
F (Threaded)  Ø F effective depth G	2006 to 2012 2014 to 2022 2512				3/8" BSP	12				3/4" BSP	16	A	B	B	A	B	A
					1/2" BSP	14				1" BSP	18						
U (Threaded SAE J475)  Ø F effective depth G	2006 to 2012 2014 to 2022 2512 2026-2030 2515 to 2522				7/8" 14 UNF 2B	17				1"1/16 12 UNF 2B	20	A	B	B	A	B	A
					1"5/16 12 UNF 2B	17				7/8" 14 UNF 2B	20						
					1"1/16 12 UNF 2B	20				1"5/16 12 UNF 2B	20						
Y (ISO 6162)  ØF effective depth G	2006 to 2012 2014 to 2022 2512 2026-2030 2515 to 2522	15	17,4	38	M8	14	20	17,4	38	M8	14	A	B	B	A	B	A
		15	17,4	38	M8	14	26	47,6	22,4	M10	14						
		15	17,4	38	M10	14	26	52,4	26,2	M10	14						
X (without ports) 	2006 to 2030 2512 to 2522	Only with rear body Type A										 Consult us for availability					

PUBLISHING 01 / 2013

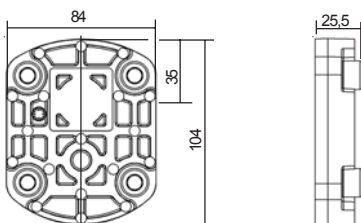
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1439 2/5

REAR BODIES for MOTORS M1 - M2

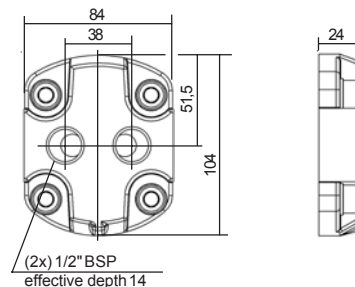
L

Standard



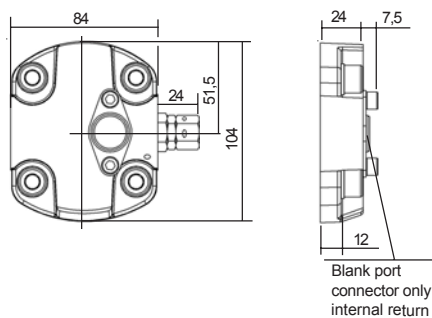
A

with ports



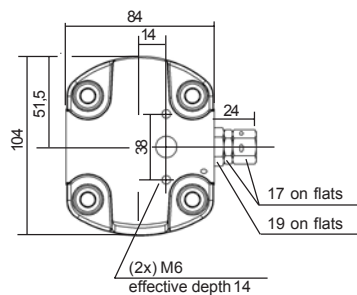
X

High pressure relief valve
(Adjustable) Internal return



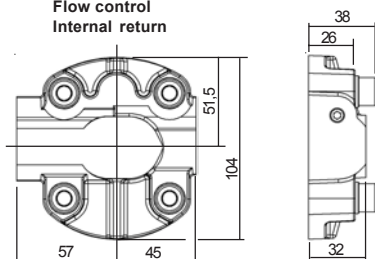
T

High pressure relief valve
(Adjustable) External return



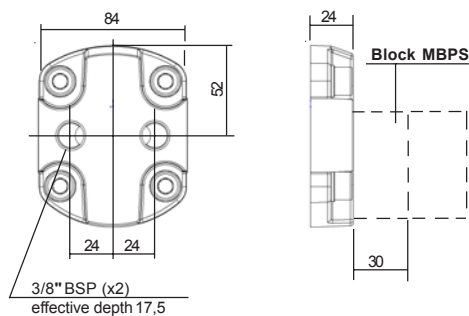
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1439 3/5

Consult us for availability

home

contents

previous

next

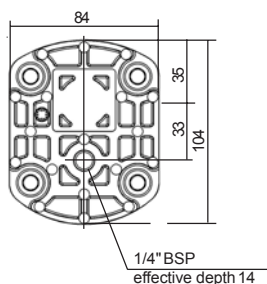
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

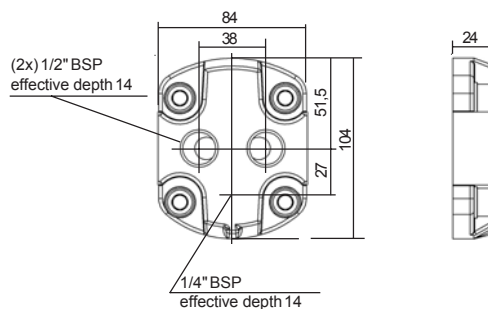
L

Standard



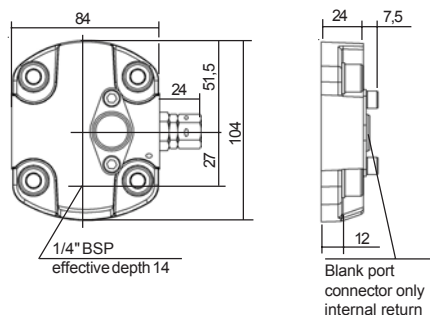
A

with ports



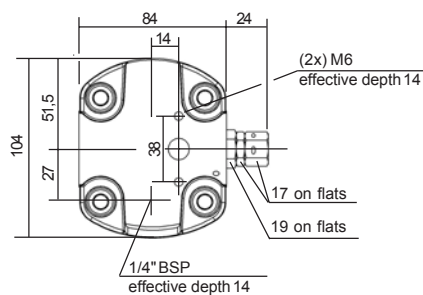
X

High pressure relief valve
(Adjustable) Internal return



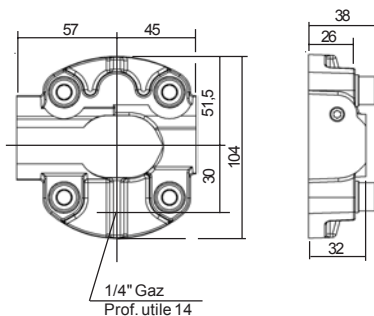
T

High pressure relief valve
(Adjustable) External return



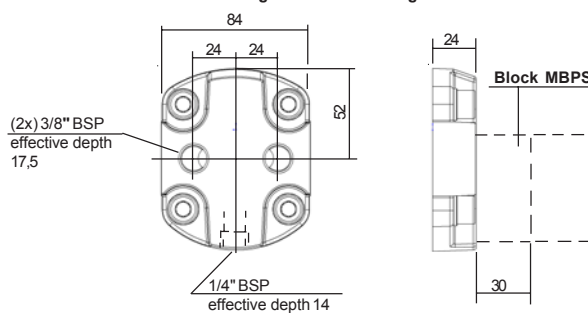
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1439 4/5

Consult us for availability

home

contents

previous

next

main dimensions

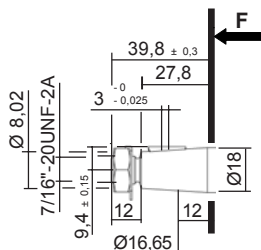
PUBLISHING 02 / 2012

DRIVING SHAFT

Tapered

10

B02 Cône 1 / 8

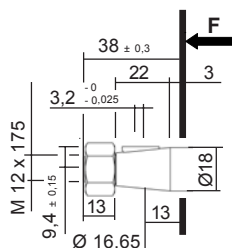


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

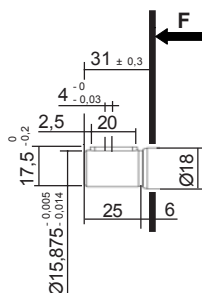
Maxi transmissible torque

220 N.m

Straight keyed

20

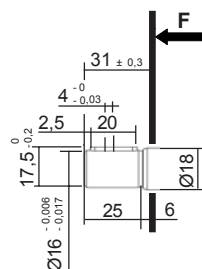
A01



Maxi transmissible torque

50 N.m

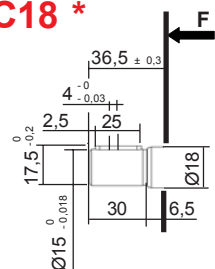
C02



Maxi transmissible torque

50 N.m

C18 *

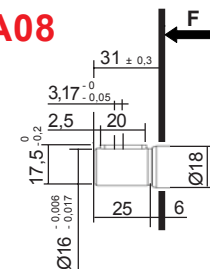


Maxi transmissible torque

40 N.m

*** ONLY 2006 to 2012**

A08



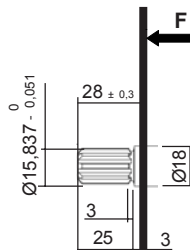
Maxi transmissible torque

50 N.m

Splined

30

A01

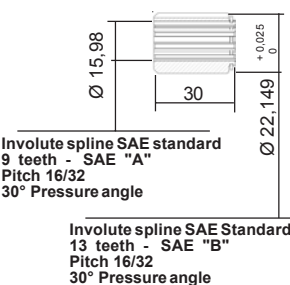


Involute spline SAE Standard
9 teeth - Pitch 16/32 - Flat root
30° Pressure angle

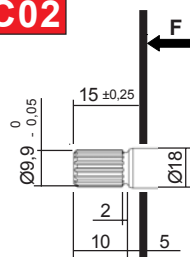
Maxi transmissible torque

100 N.m

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



C02

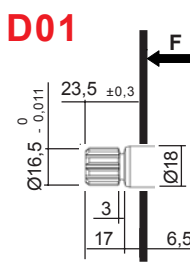


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

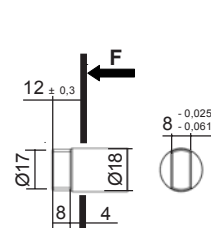
Maxi transmissible torque

100 N.m

Tang

40

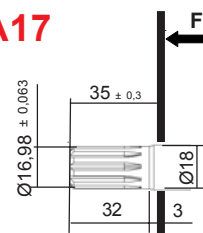
C03



Maxi transmissible torque

70 N.m

A17



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

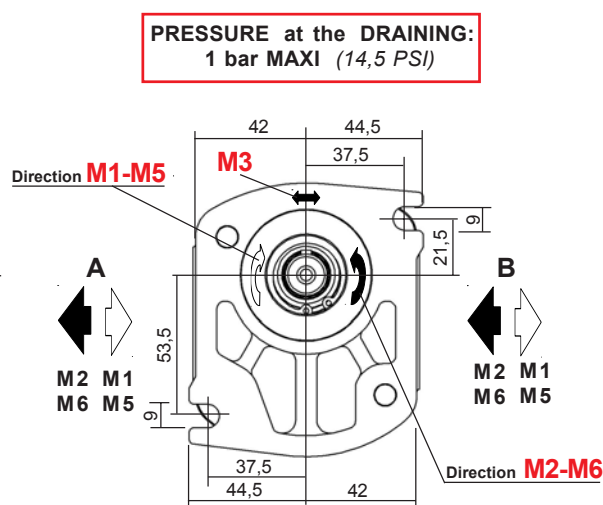
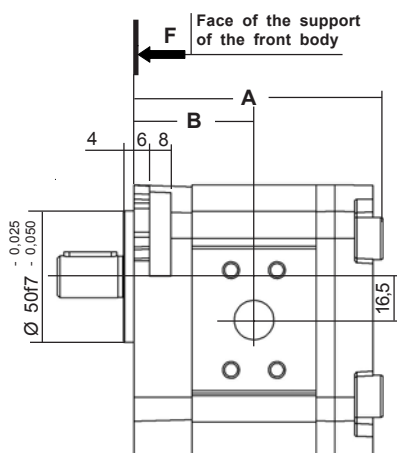
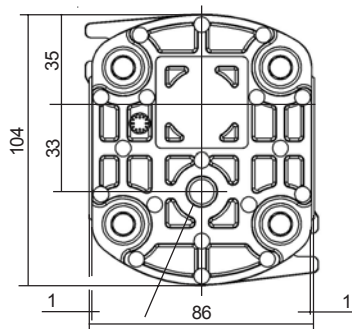
Maxi transmissible torque

100 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1439 5/5

Consult us for availability



Dimensions readings and approximative characteristics subject to modifications.

Drain port 1/4" BSP effective depth 14
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity

Dimensions

A

B

006 - 008 - 010
012

92,5	43,5
------	------

014 - 015 - **017**
018 - 022

107	51
-----	----

026 - 030

123	59
-----	----

Seals kits:

M1 - M2

Nitrile: K5069810 Viton: K5069820

(For manufacture since January 1984)

M3 - M5/M6

Nitrile: K5071067 Viton: K5071068

(For manufacture since February 1986)

MODEL	Capacity	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
	cc / rev	bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		

2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	1,6
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	1,7
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ^{175 bar}		3500	2,2
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ^{150 bar}		3500	2,3
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ^{150 bar}		3500	2,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ^{150 bar}		3500	2,7

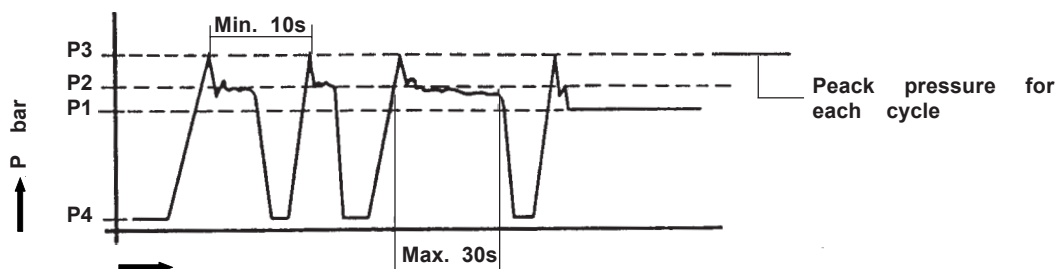
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

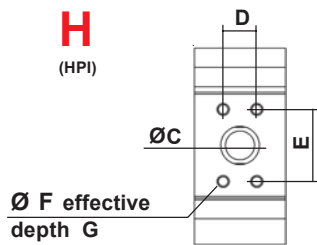
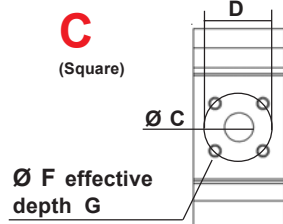
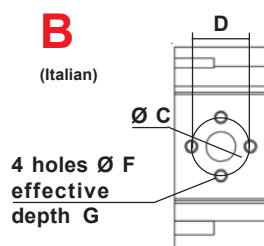
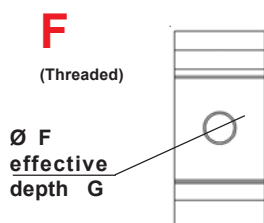
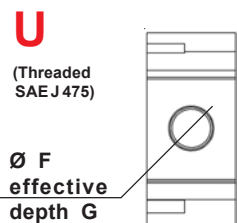
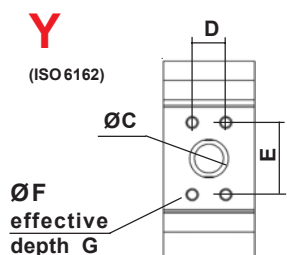
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

H
(HPI)

C
(Square)

B
(Italian)

F
(Threaded)

U
(Threaded SAE J 475)

Y
(ISO 6162)

X
(without ports)


Capacity	INLET					OUTLET				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
2006 to 2012	15	17,4	38	M6	12	20	17,4	38	M6	15
2014 to 2030	15	17,4	38	M6	12	26	47,6	22,4	M6	12
2512 to 2522	15	17,4	38	M6	12	26	47,6	22,4	M6	12
2006 to 2030	15	35		M6	12	20	40		M6	12
2512 to 2522	15	35		M6	12	20	40		M6	12
2006 to 2012	15	30		M6	13	15	30		M6	13
2014 to 2030	15	30		M6	13	23,5	40		M8	13
2512 to 2522	15	30		M6	13	23,5	40		M8	13
2006 to 2012				3/8" BSP	12				3/4" BSP	16
2014 to 2022				1/2" BSP	14				1" BSP	18
2512 to 2522				1/2" BSP	14				1" BSP	18
2006 to 2012				7/8" 14 UNF 2B	17				1"1/16 12 UNF 2B	20
2014 to 2022				1"5/16 12 UNF 2B	17				7/8" 14 UNF 2B	20
2512 to 2522				1"5/16 12 UNF 2B	17				7/8" 14 UNF 2B	20
2006 to 2012	15	17,4	38	M8	14	20	17,4	38	M8	14
2014 to 2022	15	17,4	38	M8	14	26	47,6	22,4	M10	14
2512 to 2522	15	17,4	38	M8	14	26	47,6	22,4	M10	14
2026-2030	15	17,4	38	M10	14	26	52,4	26,2	M10	14
2515 to 2522	15	17,4	38	M10	14	26	52,4	26,2	M10	14
2006 to 2030	Only with rear body Type A									
2512 to 2522	Only with rear body Type A									

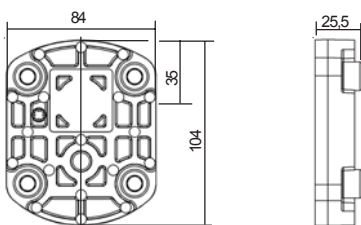
AFFECTATION

1 way rotation without counter pressure				2 ways rotation with counter pressure			
ENTREE		SORTIE		ENTREE		SORTIE	
1 way rotation with counter pressure				M3			
INLET		OUTLET		INLET		OUTLET	
A	B	B	A	B	A		
A	B	B	A	B	A		
A	B	B	A	B	A		
A	B	B	A	B	A		
A	B	B	A	B	A		
A	B	B	A	B	A		
A	B	B	A	B	A		
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A	B	B	A	B	A		
A							

REAR BODIES for MOTORS M1 - M2

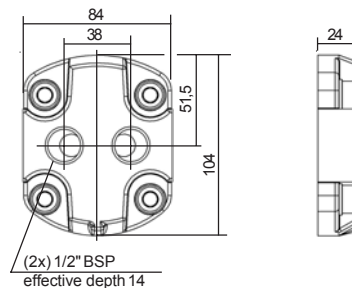
L

Standard



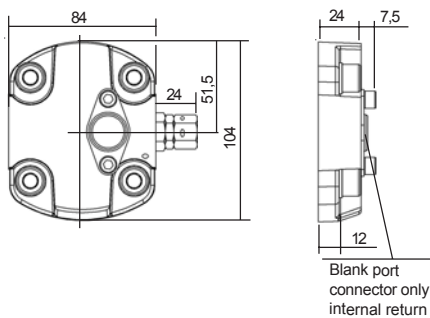
A

with ports



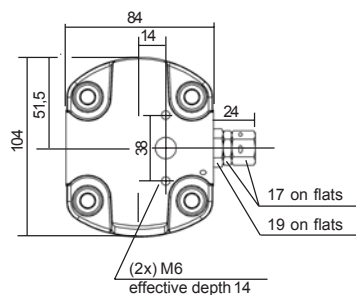
X

High pressure relief valve
(Adjustable) Internal return



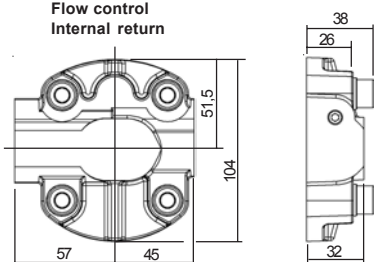
T

High pressure relief valve
(Adjustable) External return



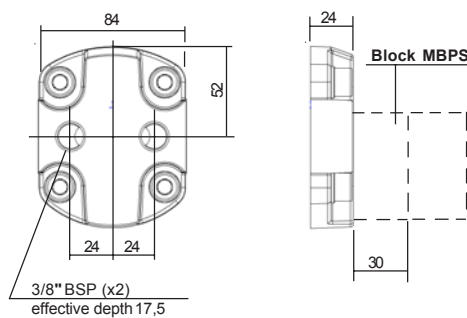
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1440 3/5



Consult us for availability

home

contents

previous

next

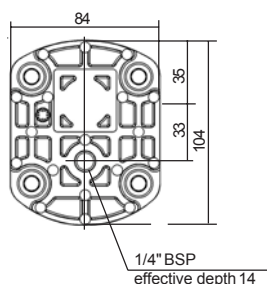
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

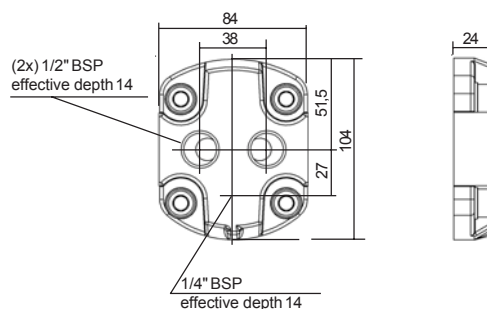
L

Standard



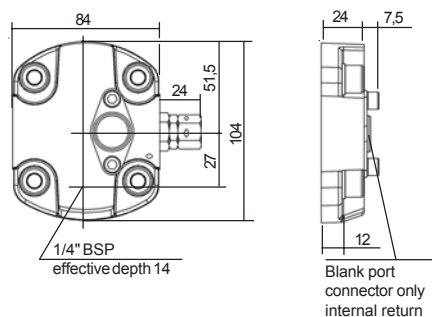
A

with ports



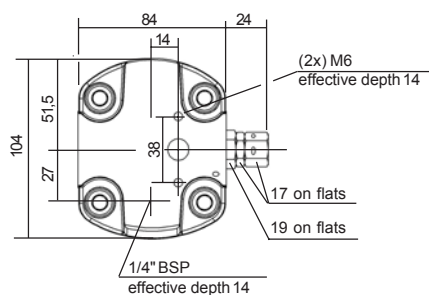
X

High pressure relief valve
(Adjustable) Internal return



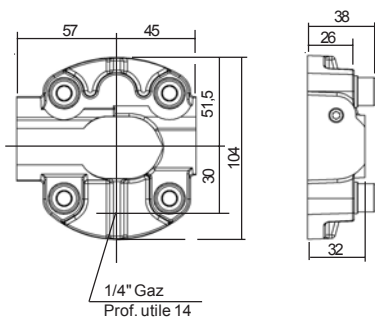
T

High pressure relief valve
(Adjustable) External return



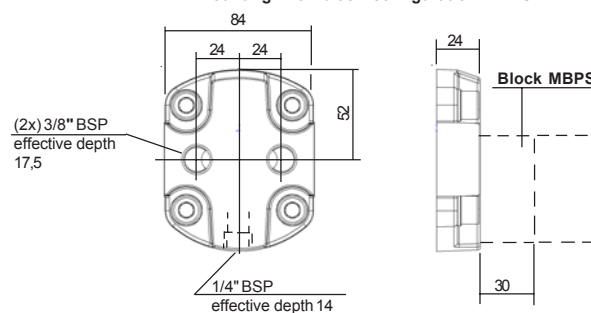
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

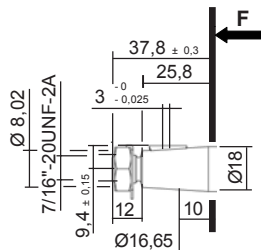
Consult us for availability

DRIVING SHAFTS

Tapered

10

B02 Cône 1 / 8

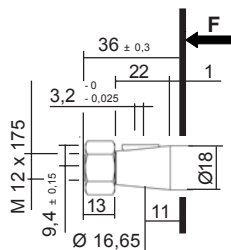


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

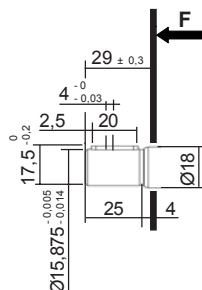
Maxi transmissible torque

220 N.m

Straight keyed

20

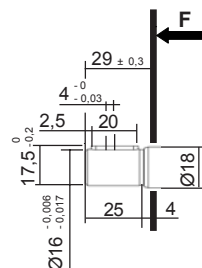
A01



Maxi transmissible torque

50 N.m

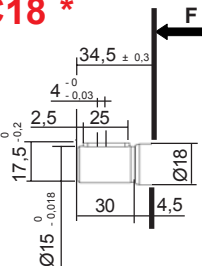
C02



Maxi transmissible torque

50 N.m

C18 *

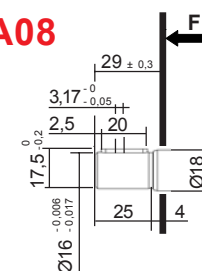


Maxi transmissible torque

40 N.m

*** ONLY 2006 to 2012**

A08



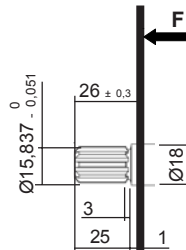
Maxi transmissible torque

50 N.m

Splined

30

A01



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

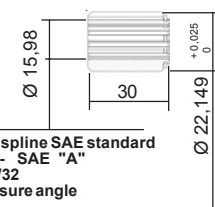
Maxi transmissible torque

100 N.m

Sleeve coupling 9 teeth / 13 teeth

Ref.: K.5041310

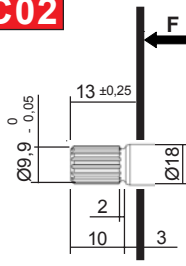
Mounting with splined shaft 30 A01



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

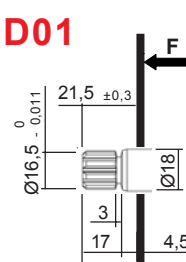


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

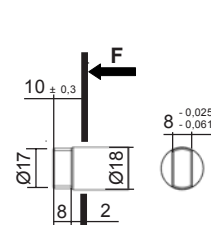
Maxi transmissible torque

100 N.m

Tang

40

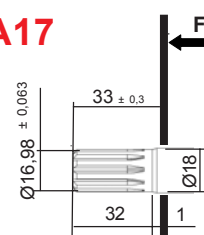
C03



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

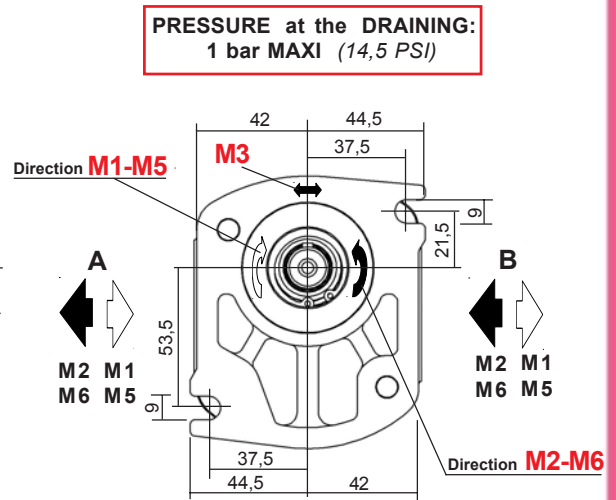
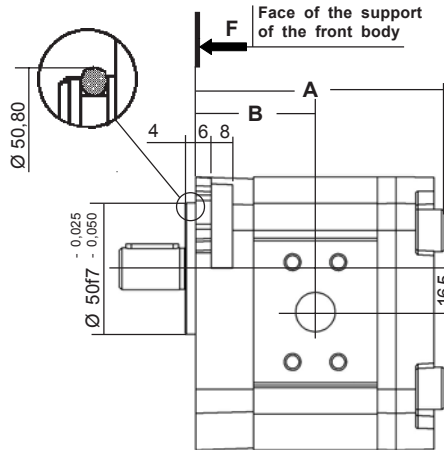
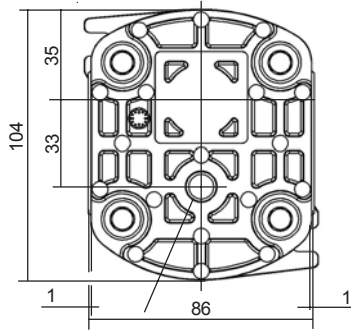
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1440 5/5

Consult us for availability

M	II Sign	CEK	2	VI Sign	H	L	IX Sign	X Sign	XI Sign	XII Sign
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For CODIFICATION, see data sheet **F.T R 0243**



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)

Dimensions readings and approximative characteristics subject to modifications.

Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity	Dimensions	
	A	B
006 - 008 - 010 012	94,5	45,5
014 - 015 - 017 018 - 022	109	53
026 - 030	125	61

Seals kits:

M1 - M2
Nitrile: K5069810 + K102238
Viton: K5069820
(For manufacture to since january 1984)

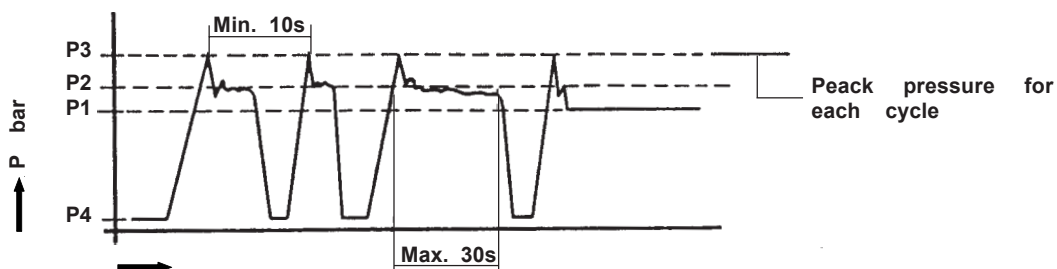
M3 - M5/M6
Nitrile: K5071067 + K102238
Viton: K5071068
(For manufacture to since february 1986)

MODEL	Capacity	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
	cc / rev	bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	1,6
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	1,7
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ^{175 bar}		3500	2,2
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ^{150 bar}		3500	2,3
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ^{150 bar}		3500	2,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ^{150 bar}		3500	2,7

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

Port connector, see our Catalogue N° 70

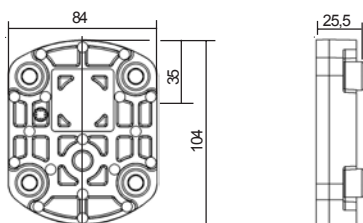
1 way rotation with counter pressure				pressure	
M5		M6		M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET

116 / 00

REAR BODIES for MOTORS M1 - M2

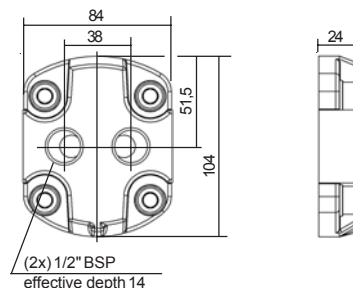
L

Standard



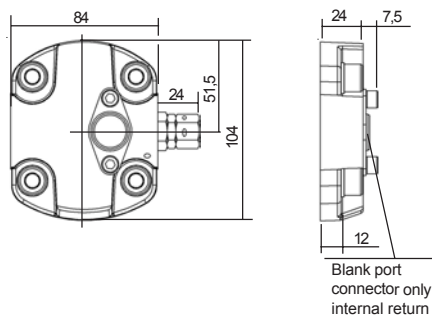
A

with ports



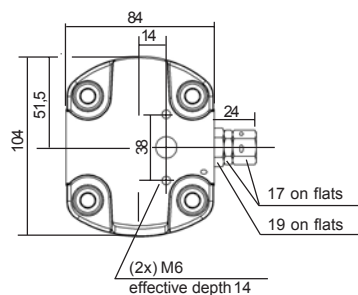
X

High pressure relief valve
(Adjustable) Internal return



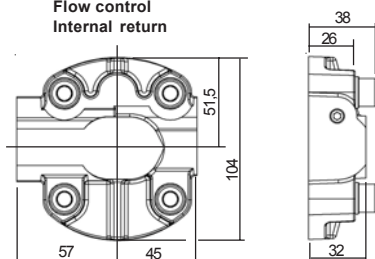
T

High pressure relief valve
(Adjustable) External return



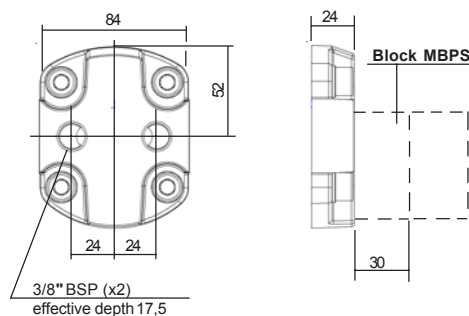
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1441 3/5

Consult us for availability

home

contents

previous

next

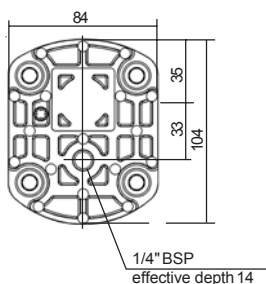
main dimensions

PUBLISHING 17 / 03 / 2011

REAR BODIES for MOTORS M3 - M5 - M6

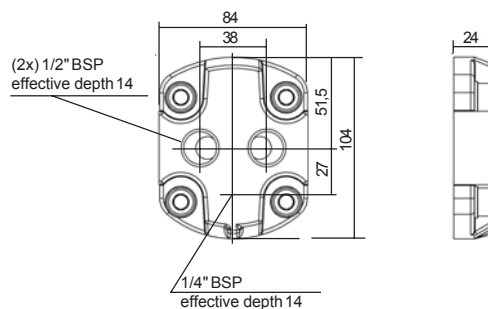
L

Standard



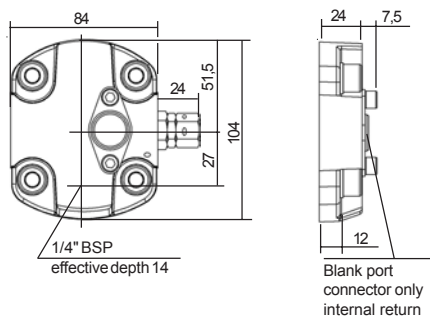
A

with ports



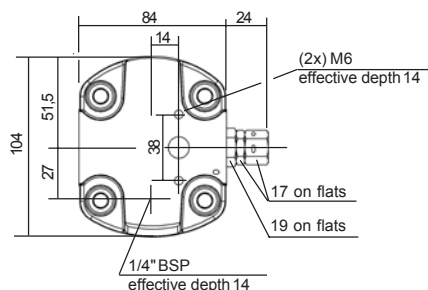
X

High pressure relief valve
(Adjustable) Internal return



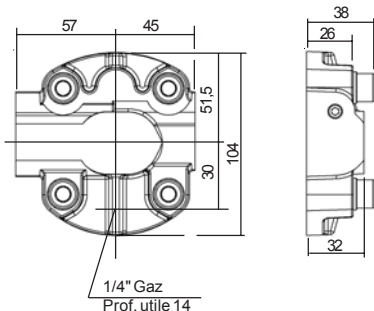
T

High pressure relief valve
(Adjustable) External return



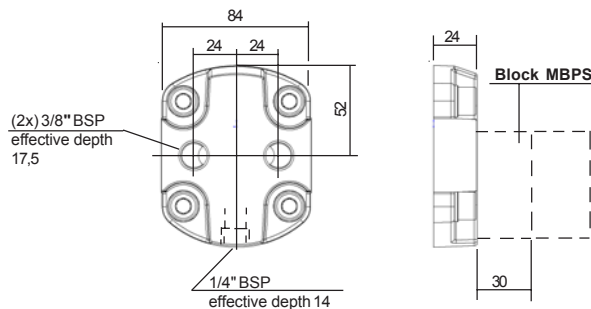
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

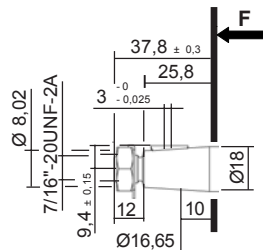
Consult us for availability

DRIVING SHAFTS

Tapered

10

B02 Cône 1 / 8

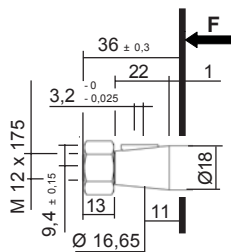


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

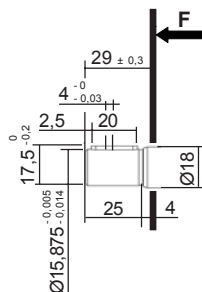
Maxi transmissible torque

220 N.m

Straight keyed

20

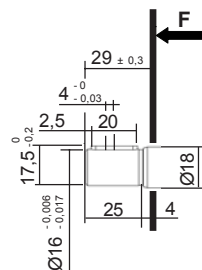
A01



Maxi transmissible torque

50 N.m

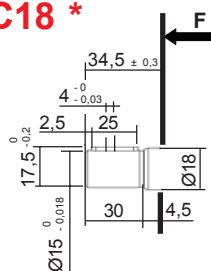
C02



Maxi transmissible torque

50 N.m

C18 *

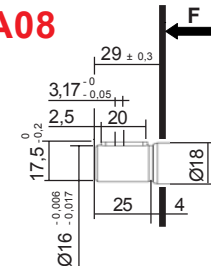


Maxi transmissible torque

40 N.m

*** ONLY 2006 to 2012**

A08



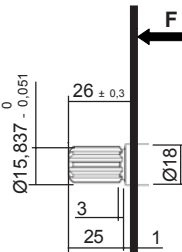
Maxi transmissible torque

50 N.m

Splined

30

A01



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

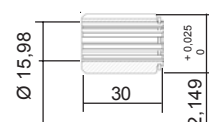
Maxi transmissible torque

100 N.m

Sleeve coupling 9 teeth / 13 teeth

Ref.: K.5041310

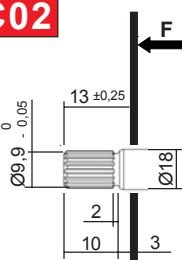
Mounting with splined shaft 30 A01



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

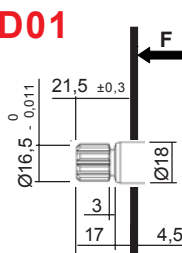


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

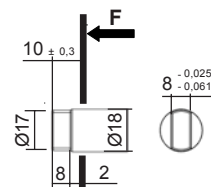
Maxi transmissible torque

100 N.m

Tang

40

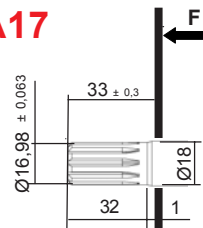
C03



Maxi transmissible torque

70 N.m

A17



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

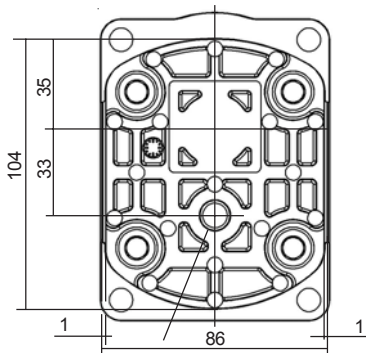
Maxi transmissible torque

100 N.m

Dimensions readings and approximative characteristics subject to modifications.

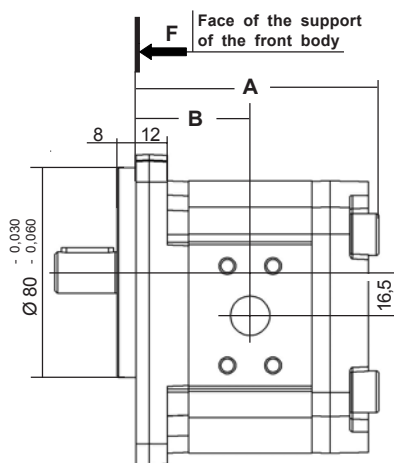
F.T 20 1441 5/5

Consult us for availability

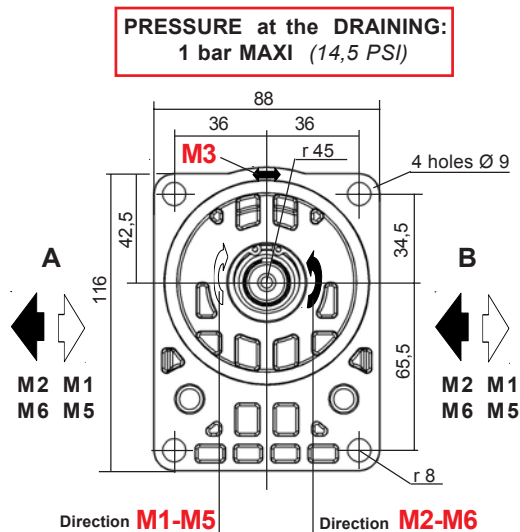


Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m



For CODIFICATION, see data sheet **F.T R 0243**



CHOICE of the Capacity	Dimensions	
	A	B

006 - 008 - 010 012	92,5	43,5
014 - 015 - 017 018 - 022	107	51
026 - 030	123	59

Seals kits:

M1 - M2

Nitrile: K5069810 Viton: K5069820

(For manufactur to since january 1984)

M3 - M5/M6

Nitrile: K5071067 Viton: K5071068

(For manufacture since February 1986)

MODEL	Capacity	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
	cc / rev	bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	1,6
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	1,7
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ^{175 bar}		3500	2,2
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ^{150 bar}		3500	2,3
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ^{150 bar}		3500	2,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ^{150 bar}		3500	2,7

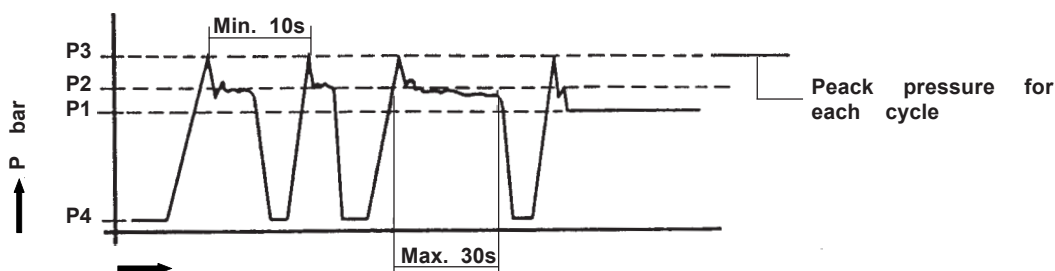
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P3 Max. Allowable peak pressure

P2 Maximum pressure in intermittent duty

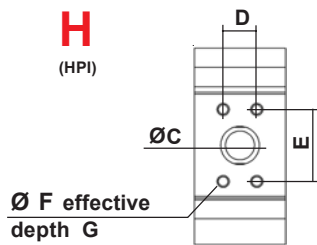
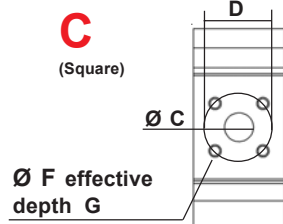
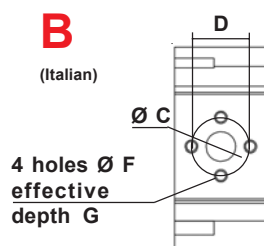
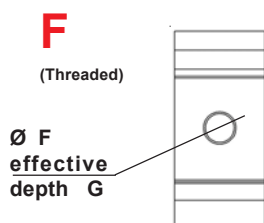
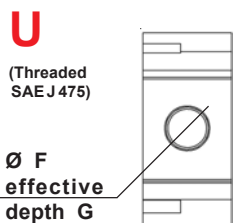
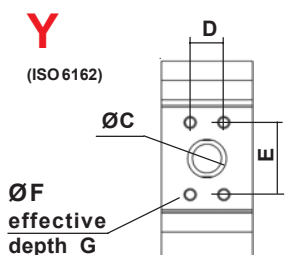
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

H
(HPI)

C
(Square)

B
(Italian)

F
(Threaded)

U
(Threaded SAE J 475)

Y
(ISO 6162)

X
(without ports)


Capacity	INLET										AFFECTATION					
	INLET					OUTLET					1 way rotation without counter pressure		2 ways rotation with counter pressure			
											1 way rotation with counter pressure					
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	M1 ENTREE	M2 SORTIE	M5 INLET	M6 OUTLET	M3 INLET	M3 OUTLET
2006 to 2012	15	17,4	38	M6	12	20	17,4	38	M6	15						
2014 to 2030																
2512 to 2522	15	17,4	38	M6	12	26	47,6	22,4	M6	12	A	B	B	A	B	A
2006 to 2030	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
2512 to 2522																
2006 to 2012	15	30		M6	13	15	30		M6	13						
2014 to 2030																
2512 to 2522	15	30		M6	13	23,5	40		M8	13	A	B	B	A	B	A
2006 to 2012				3/8" BSP	12				3/4" BSP	16	A	B	B	A	B	A
2014 to 2022																
2512 to 2522				1/2" BSP	14				1" BSP	18						
2006 to 2012				7/8" 14 UNF 2B	17				1"1/16 12 UNF 2B	20						
2014 to 2022				1"5/16 12 UNF 2B	17				7/8" 14 UNF 2B	20	A	B	B	A	B	A
2512 to 2522																
2026-2030				1"1/16 12 UNF 2B	20				1"5/16 12 UNF 2B	20						
2515 to 2522																
2006 to 2012	15	17,4	38	M8	14	20	17,4	38	M8	14						
2014 to 2022																
2512 to 2522	15	17,4	38	M8	14	26	47,6	22,4	M10	14	A	B	B	A	B	A
2026-2030																
2515 to 2522	15	17,4	38	M10	14	26	52,4	26,2	M10	14						
2006 to 2030																
2512 to 2522																
2006 to 2030																
2512 to 2522																

Only with rear body Type A

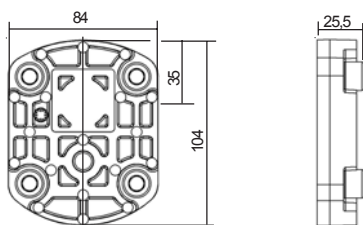
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1442 2/5

REAR BODIES for MOTORS M1 - M2

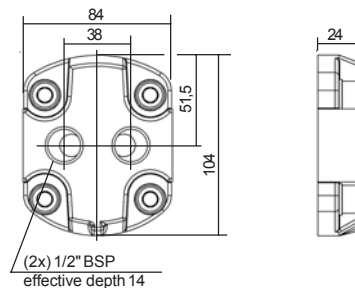
L

Standard



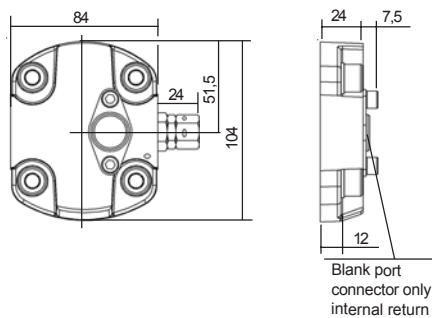
A

with ports



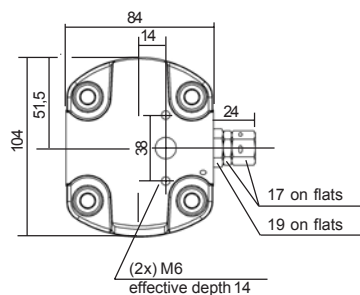
X

High pressure relief valve
(Adjustable) Internal return



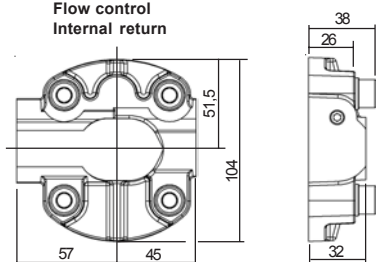
T

High pressure relief valve
(Adjustable) External return



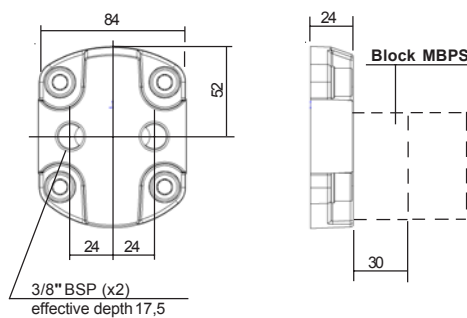
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1442 3/5

Consult us for availability

home

contents

previous

next

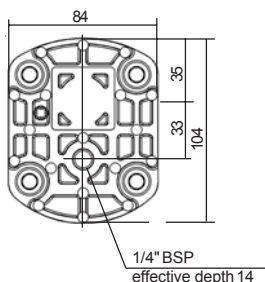
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

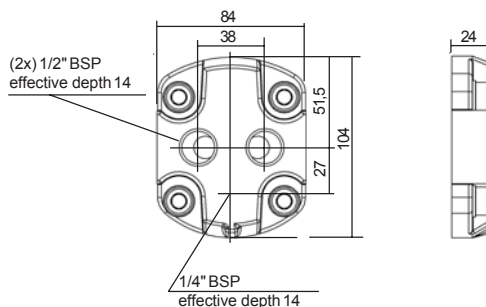
L

Standard



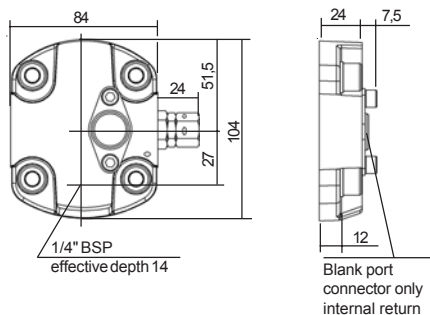
A

with ports



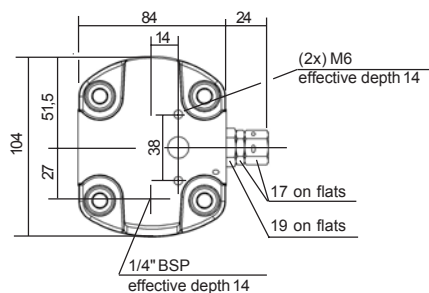
X

High pressure relief valve
(Adjustable) Internal return



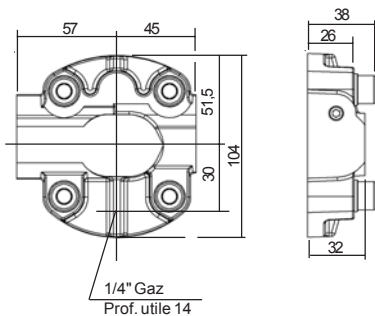
T

High pressure relief valve
(Adjustable) External return



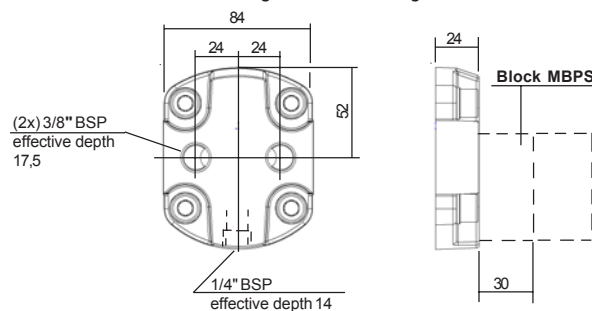
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured



Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

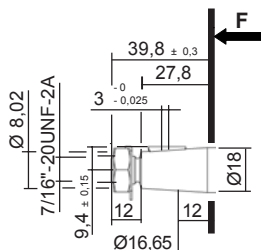
F.T 20 1442 4/5

DRIVING SHAFT

Tapered

10

B02 Cône 1 / 8

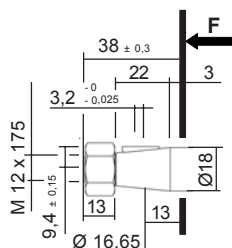


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

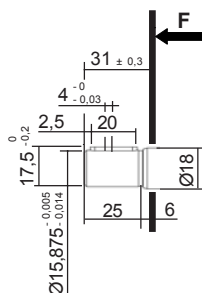
Maxi transmissible torque

220 N.m

Straight keyed

20

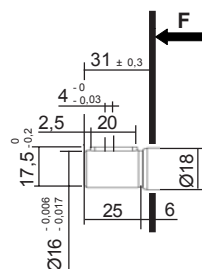
A01



Maxi transmissible torque

50 N.m

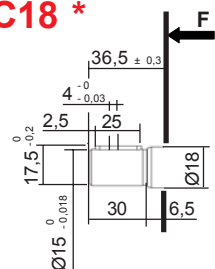
C02



Maxi transmissible torque

50 N.m

C18 *

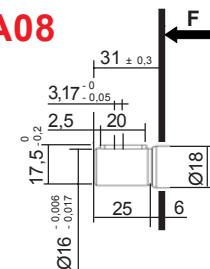


Maxi transmissible torque

40 N.m

*** ONLY 2006 to 2012**

A08



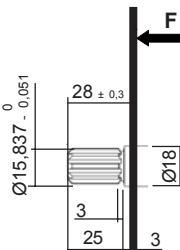
Maxi transmissible torque

50 N.m

Splined

30

A01

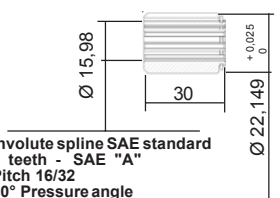


Involute spline SAE Standard
9 teeth - Pitch 16/32 - Flat root
30° Pressure angle

Maxi transmissible torque

100 N.m

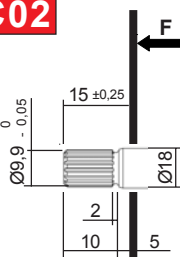
Sleeve coupling 9 teeth / 13 teeth
Ref.: **K.5041310**
Mounting with splinned shaft **30 A01**



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

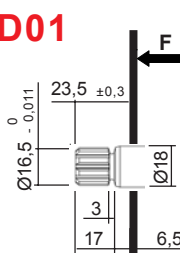


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

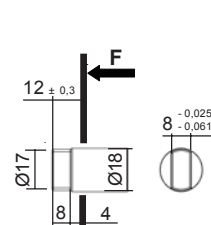
Maxi transmissible torque

100 N.m

Tang

40

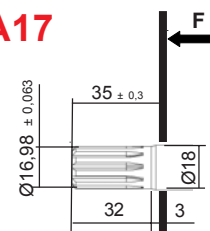
C03



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.

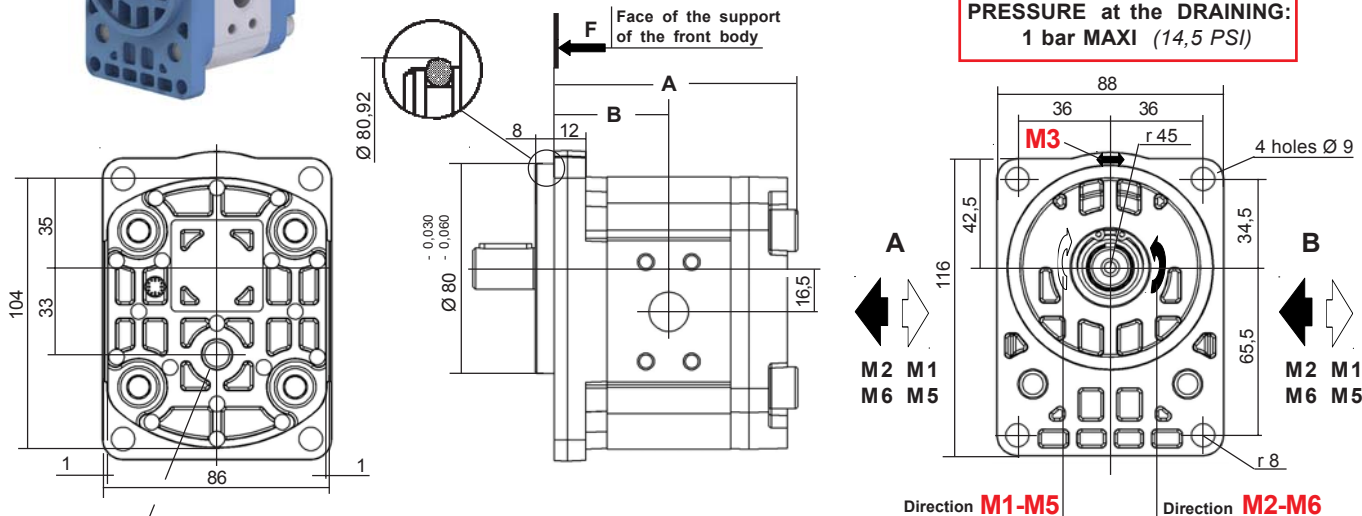
F.T 20 1442 5/5

Consult us for availability



For CODIFICATION, see data sheet F.T R 0243

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



CHOICE of the Capacity	Dimensions	
	A	B

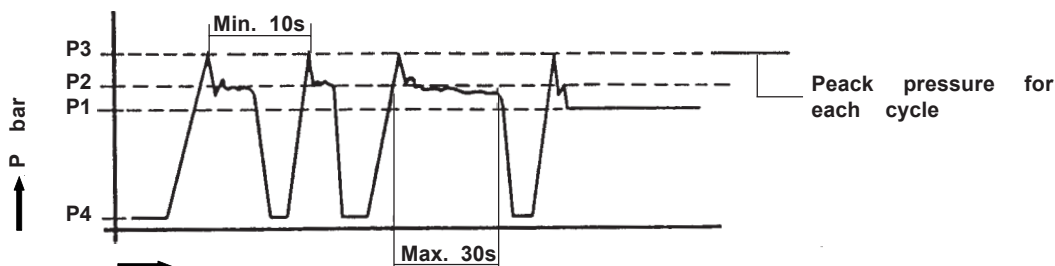
006 - 008 - 010 012	92,5	43,5
014 - 015 - 017 018 - 022	107	51
026 - 030	123	59

Seals kits:
M1 - M2
Nitrile: K5069810 + K101517
Viton: K5069820 + K104406
(For manufacture to since january 1984)
M3 - M5/M6
Nitrile: K5071067 + K101517
Viton: K5071068 + K104406
(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	1,6
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	1,7
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ^{175 bar}		3500	2,2
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ^{150 bar}		3500	2,3
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ^{150 bar}		3500	2,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ^{150 bar}		3500	2,7

On the hereunder indicated diagram, the maximum duty pressure are the following.

- P1 Maximum pressure in continuous duty P2 Maximum pressure in intermittent duty
P3 Max. Allowable peak pressure P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

		Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
			ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
													INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
H (HPI)		2006 to 2012	15	17,4	38	M6	12	20	17,4	38	M6	15	A	B	B	A	B	A
		2014 to 2030 2512 to 2522	15	17,4	38	M6	12	26	47,6	22,4	M6	12						
C (Square)		2006 to 2030	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
		2512 to 2522																
B (Italian)		2006 to 2012	15	30		M6	13	15	30		M6	13	A	B	B	A	B	A
		2014 to 2030 2512 to 2522	15	30		M6	13	23,5	40		M8	13						
F (Threaded)		2006 to 2012				3/8" BSP	12				3/4" BSP	16	A	B	B	A	B	A
		2014 to 2022 2512				1/2" BSP	14				1" BSP	18						
U (Threaded SAE J 475)		2006 to 2012				7/8" 14 UNF 2B	17				1" 1/16 12 UNF 2B	20	A	B	B	A	B	A
		2014 to 2022 2512				1" 5/16 12 UNF 2B	17				7/8" 14 UNF 2B	20						
		2026-2030 2515 to 2522				1" 1/16 12 UNF 2B	20				1" 5/16 12 UNF 2B	20						
Y (ISO 6162)		2006 to 2012	15	17,4	38	M8	14	20	17,4	38	M8	14	A	B	B	A	B	A
		2014 to 2022 2512	15	17,4	38	M8	14	26	47,6	22,4	M10	14						
		2026-2030 2515 to 2522	15	17,4	38	M10	14	26	52,4	26,2	M10	14						
X (without ports)		2006 to 2030 2512 to 2522	Only with rear body Type A															

PUBLISHING 01 / 2013

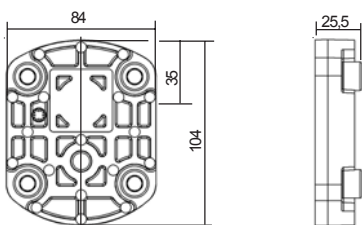
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1443 2/5

REAR BODIES for MOTORS M1 - M2

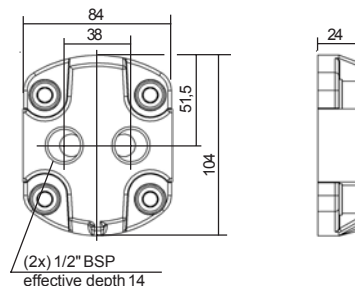
L

Standard



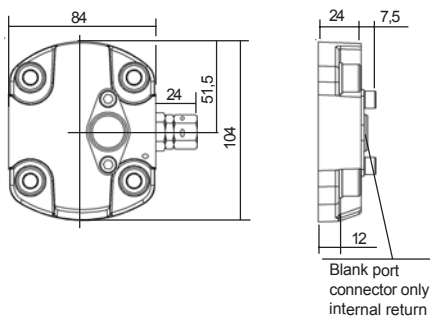
A

with ports



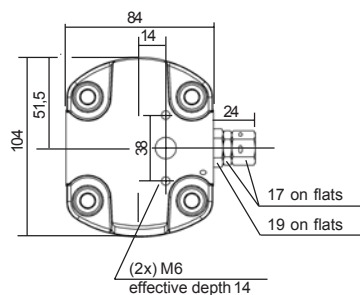
X

High pressure relief valve
(Adjustable) Internal return



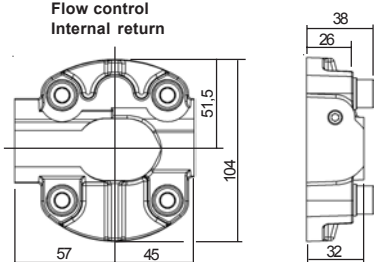
T

High pressure relief valve
(Adjustable) External return



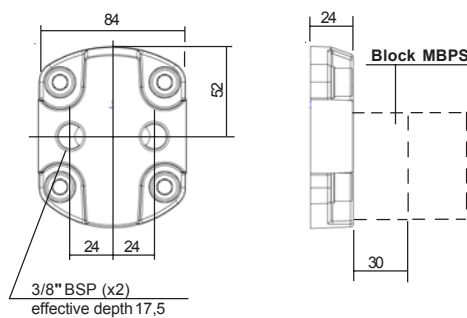
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1443 3/5



Consult us for availability

home

contents

previous

next

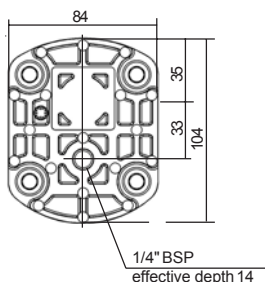
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

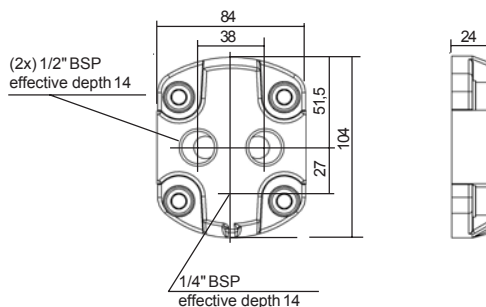
L

Standard



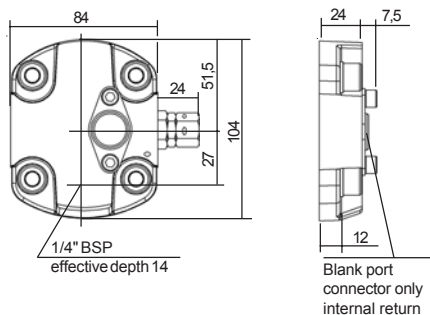
A

with ports



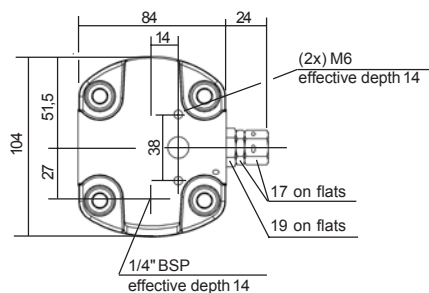
X

High pressure relief valve
(Adjustable) Internal return



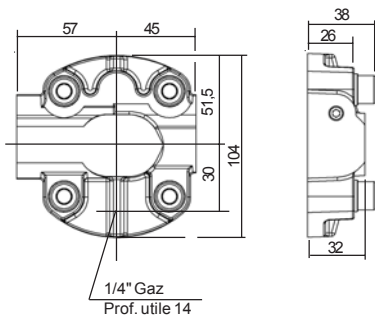
T

High pressure relief valve
(Adjustable) External return



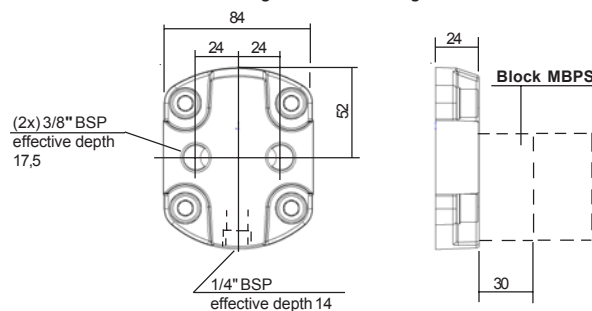
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

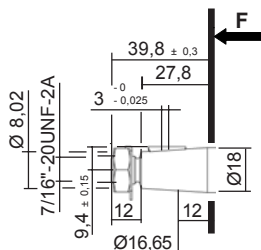
F.T 20 1443 4/5

DRIVING SHAFT

Tapered

10

B02 Cône 1 / 8

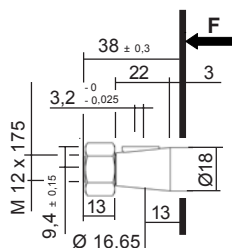


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

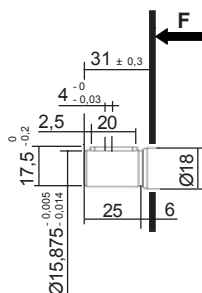
Maxi transmissible torque

220 N.m

Straight keyed

20

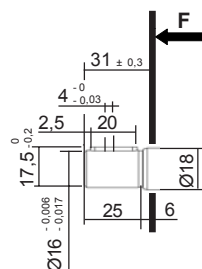
A01



Maxi transmissible torque

50 N.m

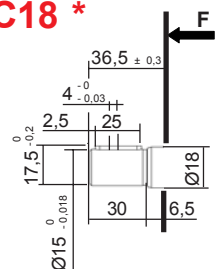
C02



Maxi transmissible torque

50 N.m

C18 *

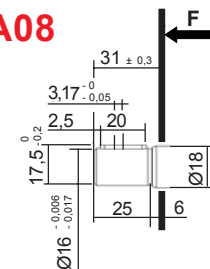


Maxi transmissible torque

40 N.m

*** ONLY 2006 to 2012**

A08



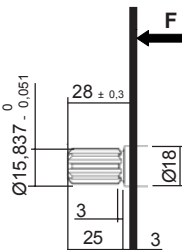
Maxi transmissible torque

50 N.m

Splined

30

A01

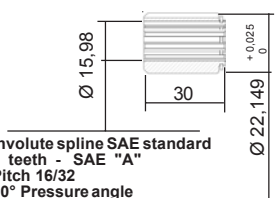


Involute spline SAE Standard
9 teeth - Pitch 16/32 - Flat root
30° Pressure angle

Maxi transmissible torque

100 N.m

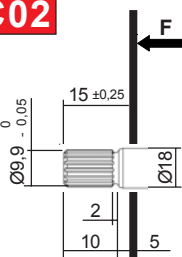
Sleeve coupling 9 teeth / 13 teeth
Ref.: **K.5041310**
Mounting with splinned shaft **30 A01**



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

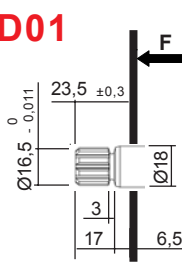


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

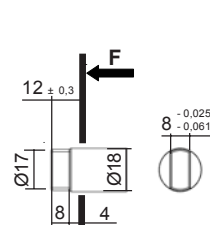
Maxi transmissible torque

100 N.m

Tang

40

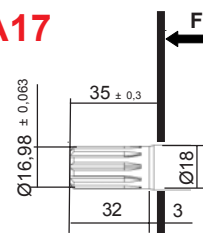
C03



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 1443 5/5

Consult us for availability

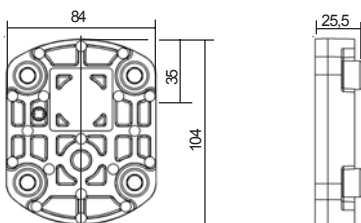
Port connector, see our Catalogue N° 70

F.T 20 1444 2/5

REAR BODIES for MOTORS M1 - M2

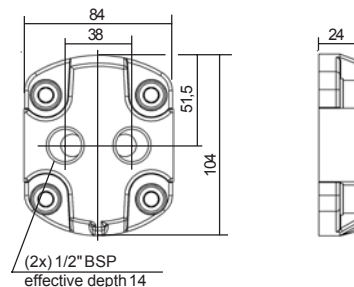
L

Standard



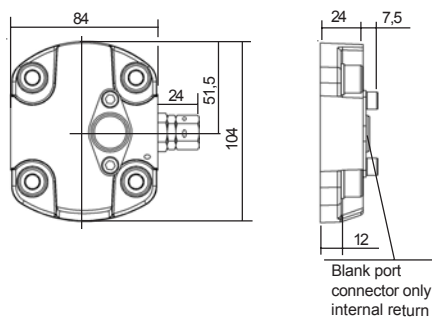
A

with ports



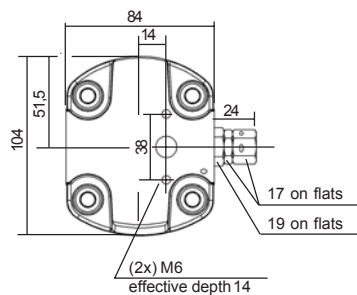
X

High pressure relief valve
(Adjustable) Internal return



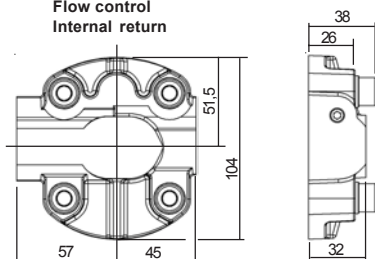
T

High pressure relief valve
(Adjustable) External return



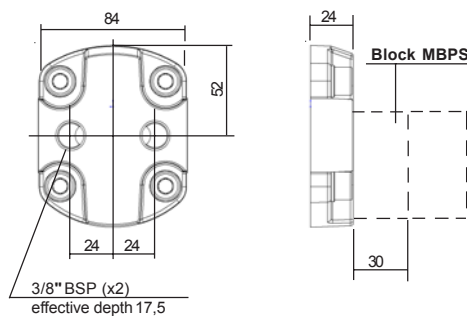
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1444 3/5

Consult us for availability

home

contents

previous

next

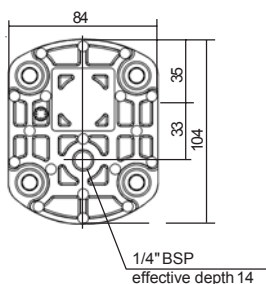
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

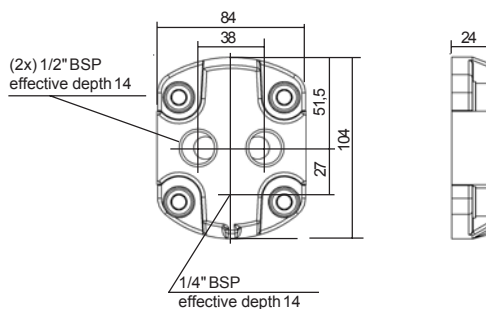
L

Standard



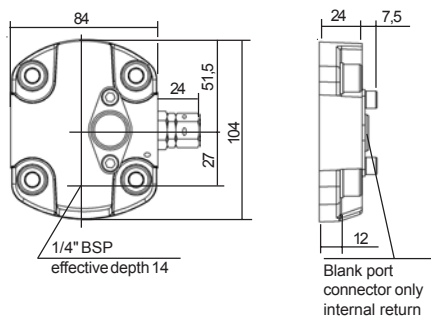
A

with ports



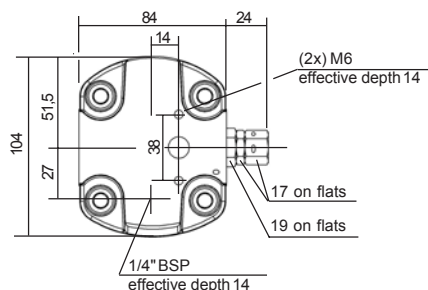
X

High pressure relief valve
(Adjustable) Internal return



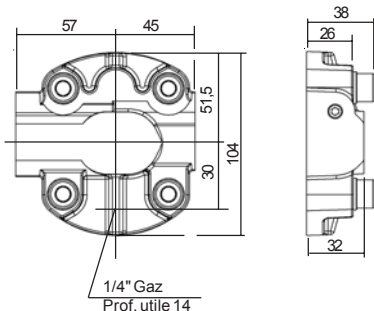
T

High pressure relief valve
(Adjustable) External return



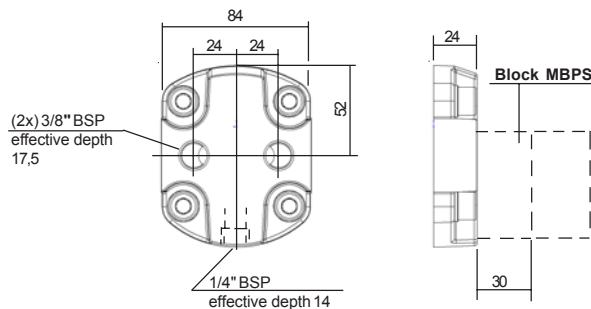
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

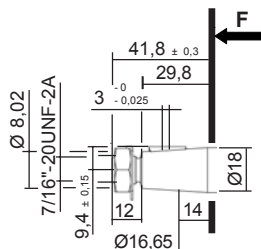
Consult us for availability

DRIVING SHAFTS

Tapered

10

B02 Cône 1 / 8

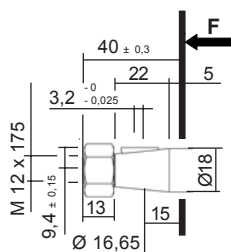


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

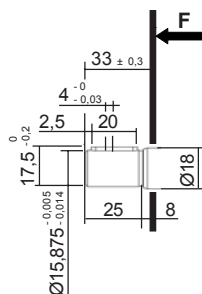
Maxi transmissible torque

220 N.m

Straight keyed

20

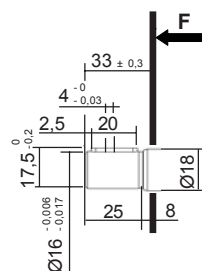
A01



Maxi transmissible torque

50 N.m

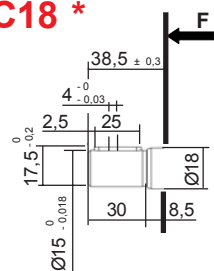
C02



Maxi transmissible torque

50 N.m

C18 *

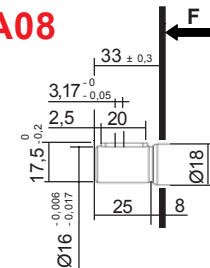


Maxi transmissible torque

40 N.m

*** ONLY 2006 to 2012**

A08



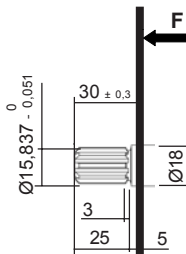
Maxi transmissible torque

50 N.m

Splined

30

A01

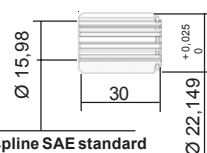


Involute spline SAE Standard
9 teeth - Pitch 16/32 - Flat root
30° Pressure angle

Maxi transmissible torque

100 N.m

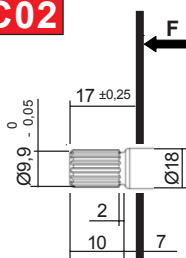
Sleeve coupling 9 teeth / 13 teeth
Ref.: **K.5041310**
Mounting with splined shaft **30 A01**



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

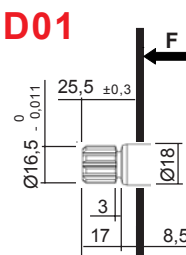


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

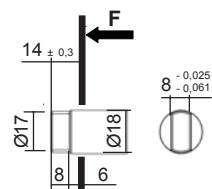
Maxi transmissible torque

100 N.m

Tang

40

C03



Maxi transmissible torque

70 N.m

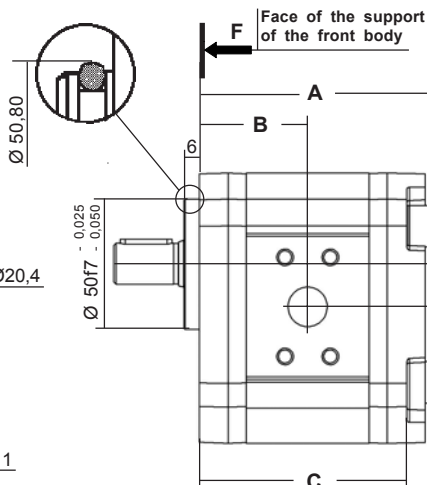
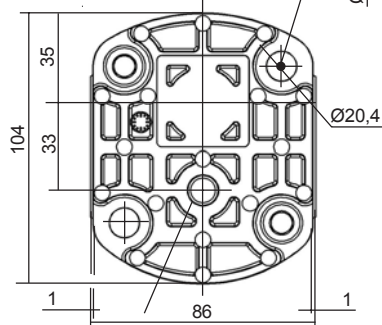
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1444 5/5

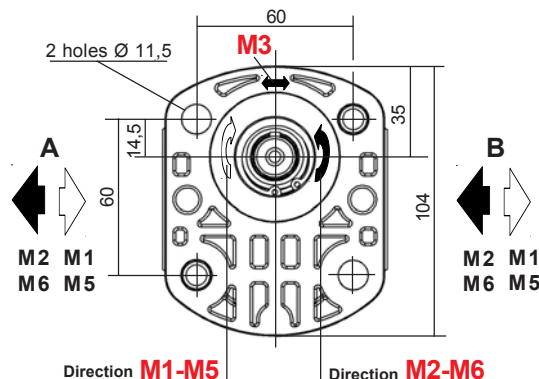
Consult us for availability



Tightening torque
50 ± 0,2 N.m



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



CHOICE of
the Capacity

Dimensions

	A	B	C
006 - 008 - 010 012	90,5	41,5	79,5
014 - 015 - 017 018 - 022	105	49	94
026 - 030	121	57	110

Seals kits:

M1 - M2
Nitrile: K5069890 + K101513
Viton: K5069820 + K101326
(For manufacture to since january 1984)
M3 - M5/M6
Nitrile: K5073287 + K101513
Viton: K5071068 + K101326
(For manufacture to since february 1986)

Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

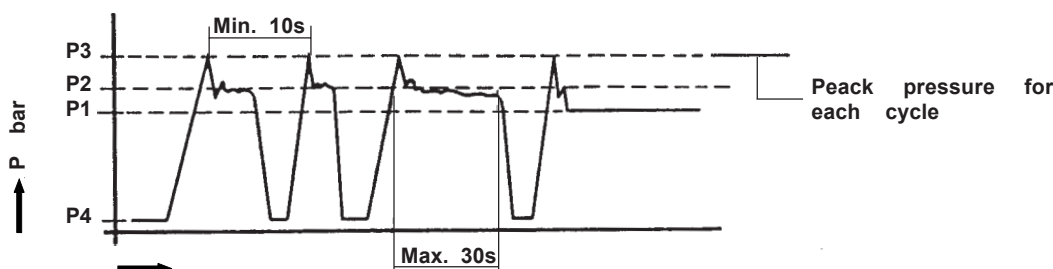
Max. tightening torque of the connexion
35 N.m

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	1,6
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	1,7
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ^{175 bar}		3500	2,2
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ^{150 bar}		3500	2,3
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ^{150 bar}		3500	2,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ^{150 bar}		3500	2,7

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

Port connector, see our Catalogue N° 70

1 way rotation without counter pressure		2 ways rotation with counter pressure	
M1	M2		
ENTREE	SORTIE	ENTREE	SORTIE

1 way rotation with counter pressure

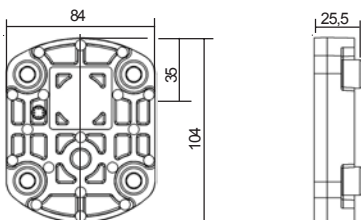
M3

136 / 00

REAR BODIES for MOTORS M1 - M2

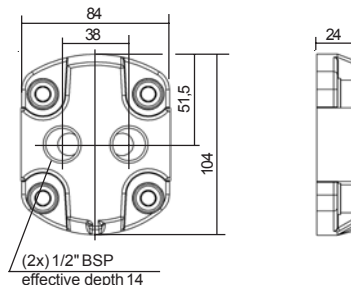
L

Standard



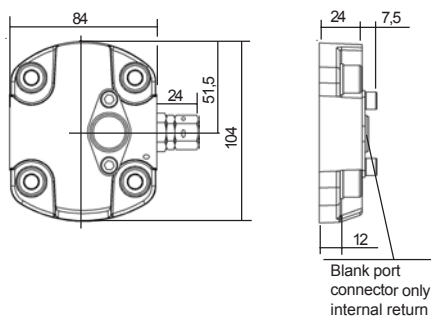
A

with ports



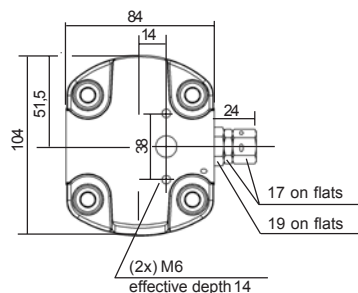
X

High pressure relief valve
(Adjustable) Internal return



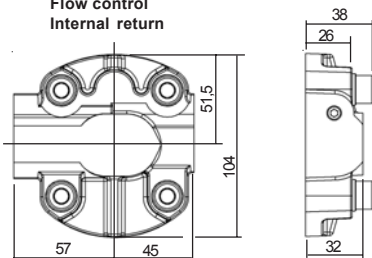
T

High pressure relief valve
(Adjustable) External return



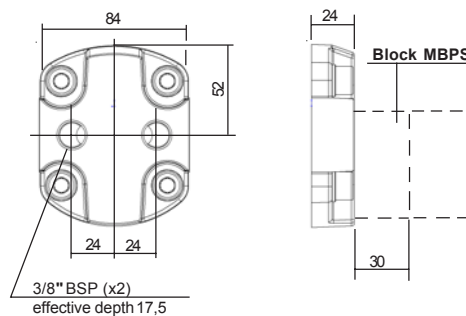
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1445 3/5

Consult us for availability

home

contents

previous

next

main dimensions

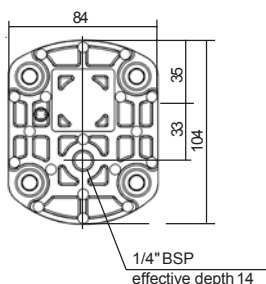
PUBLISHING 02 / 2012

137
/ 00

REAR BODIES for MOTORS M3 - M5 - M6

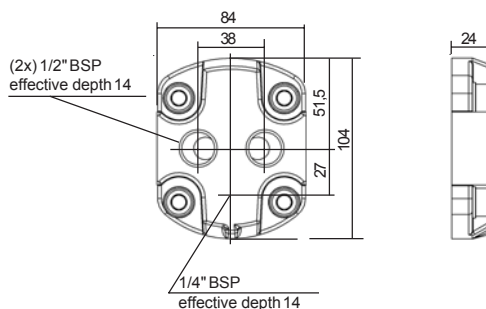
L

Standard



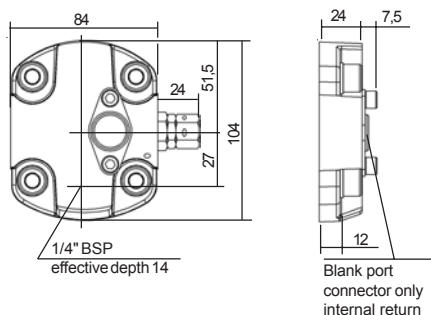
A

with ports



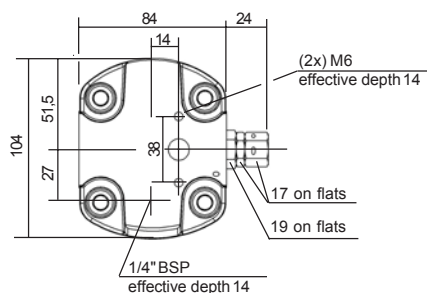
X

High pressure relief valve
(Adjustable) Internal return



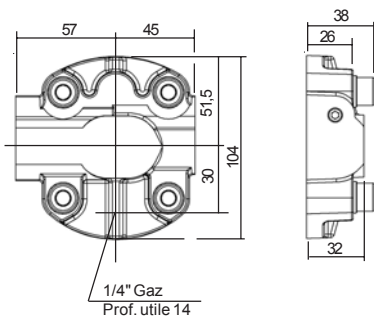
T

High pressure relief valve
(Adjustable) External return



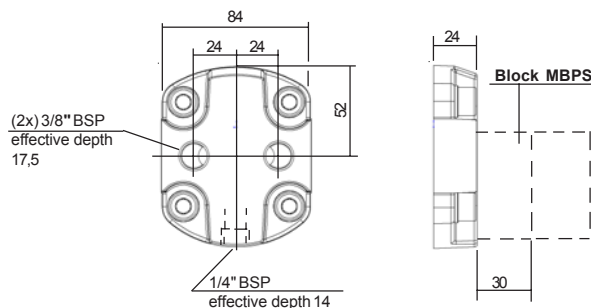
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1445 4/5



Consult us for availability

home

contents

previous

next

main dimensions

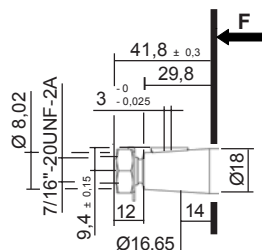
PUBLISHING 02 / 2012

DRIVING SHAFTS

Tapered

10

B02 Cône 1 / 8

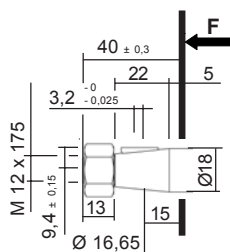


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

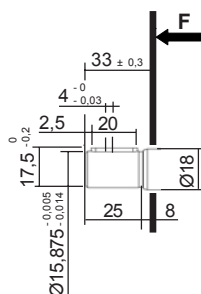
Maxi transmissible torque

220 N.m

Straight keyed

20

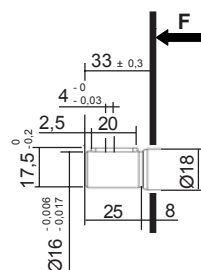
A01



Maxi transmissible torque

50 N.m

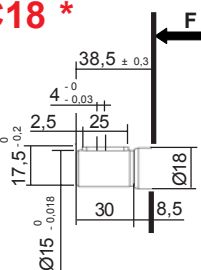
C02



Maxi transmissible torque

50 N.m

C18 *

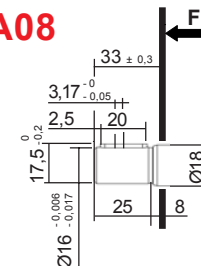


Maxi transmissible torque

40 N.m

*** ONLY 2006 to 2012**

A08



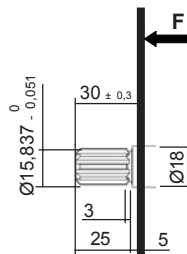
Maxi transmissible torque

50 N.m

Splined

30

A01



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

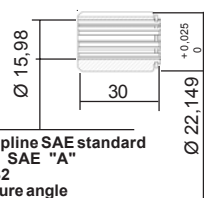
Maxi transmissible torque

100 N.m

Sleeve coupling 9 teeth / 13 teeth

Ref.: K.5041310

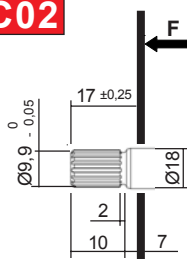
Mounting with splinned shaft 30 A01



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

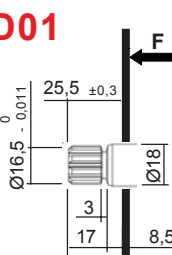


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

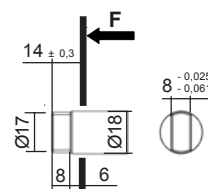
Maxi transmissible torque

100 N.m

Tang

40

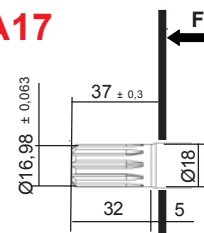
C03



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

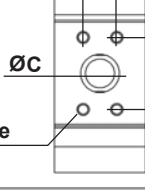
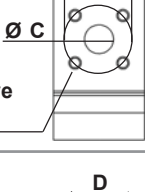
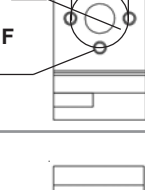
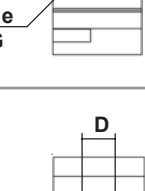
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1445 5/5

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

	Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
												INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
H (HPI)  Ø F effective depth G	2006 to 2012 2014 to 2030 2512 to 2522	15	17,4	38	M6	12	20	17,4	38	M6	15	A	B	B	A	B	A
C (Square)  Ø F effective depth G	2006 to 2030 2512 to 2522	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
B (Italian)  4 holes Ø F effective depth G	2006 to 2012 2014 to 2030 2512 to 2522	15	30		M6	13	15	30		M6	13	A	B	B	A	B	A
F (Threaded)  Ø F effective depth G	2006 to 2012 2014 to 2022 2512				3/8" BSP	12				3/4" BSP	16	A	B	B	A	B	A
U (Threaded SAE J 475)  Ø F effective depth G	2006 to 2012 2014 to 2022 2512 2026-2030 2515 to 2522				7/8" 14 UNF 2B	17				1" 1/16 12 UNF 2B	20	A	B	B	A	B	A
Y (ISO 6162)  Ø F effective depth G	2006 to 2012 2014 to 2022 2512 2026-2030 2515 to 2522	15	17,4	38	M8	14	20	17,4	38	M8	14	A	B	B	A	B	A
X (without ports) 	2006 to 2030 2512 to 2522	Only with rear body Type A										Consult us for availability					

PUBLISHING 01 / 2013

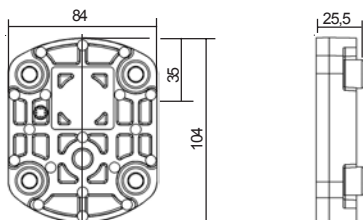
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1446 2/5

REAR BODIES for MOTORS M1 - M2

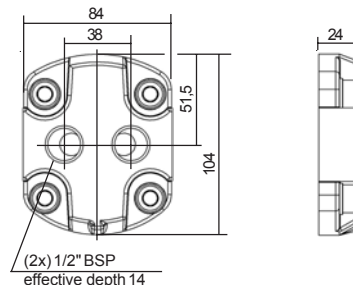
L

Standard



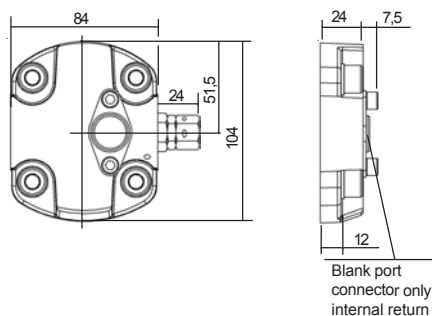
A

with ports



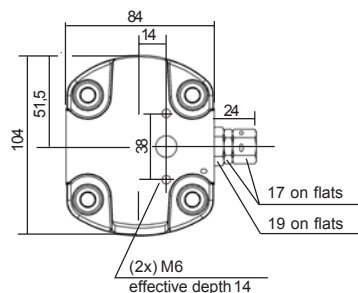
X

High pressure relief valve
(Adjustable) Internal return



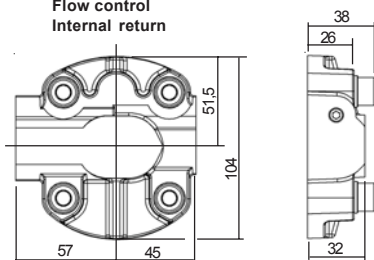
T

High pressure relief valve
(Adjustable) External return



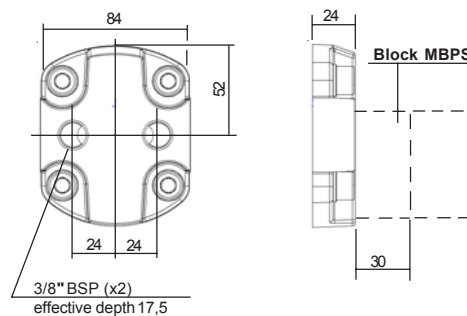
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1446 3/5

Consult us for availability

home

contents

previous

next

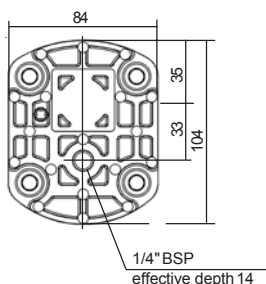
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

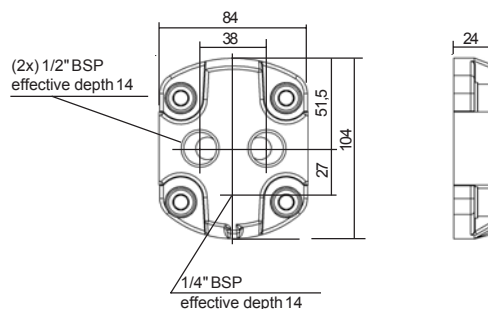
L

Standard



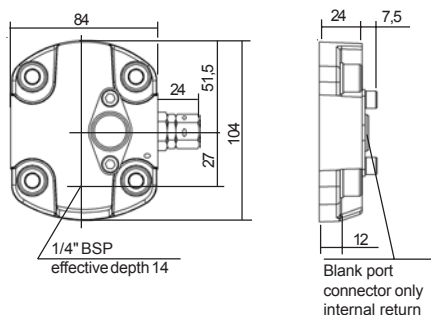
A

with ports



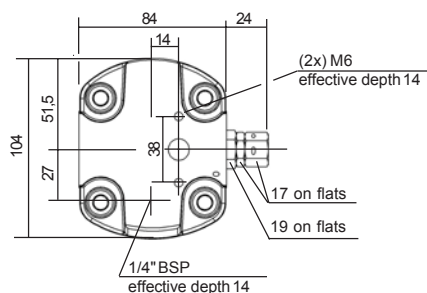
X

High pressure relief valve
(Adjustable) Internal return



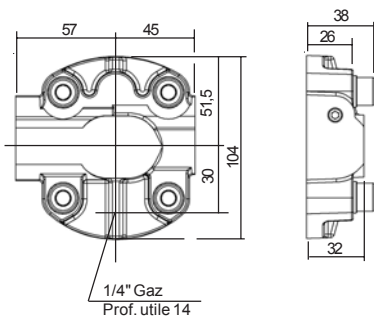
T

High pressure relief valve
(Adjustable) External return



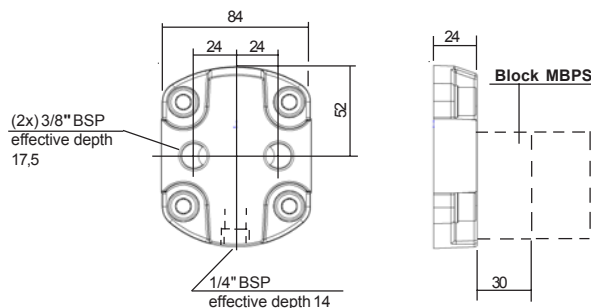
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1446 4/5



Consult us for availability

home

contents

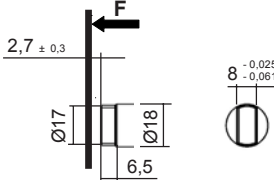
previous

next

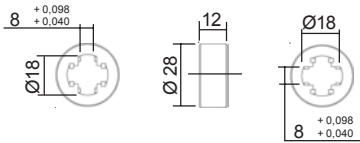
main dimensions

PUBLISHING 02 / 2012

DRIVING SHAFT (DUK)

Tapered	Straight keyed	Splined	Tang
10	20	30	40
			D02
			
			Max tightening torque 70 N.m

Coupling on request: Ref. K102947



Dimensions readings and approximative characteristics subject to modifications.

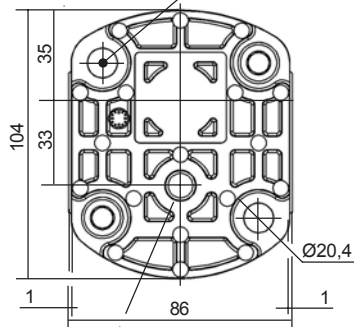
F.T 20 1446 5/5



Consult us for availability



Tightening torque
50 ± 0.2 N.m

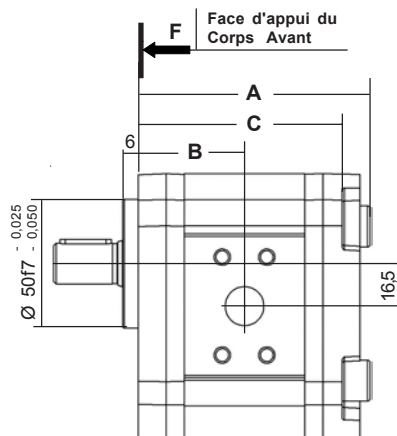


Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

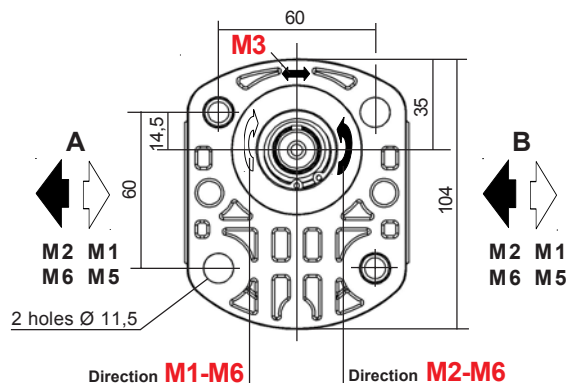
Max. tightening torque of the connexion
35 N.m



For CODIFICATION, see data sheet **F.T R 0243**



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



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

Seals kits:

M1 - M2

Nitrile: K5069890 Viton: K5069820

(For manufacture since January 1984)

M3 - M5/M6

Nitrile: K5073287 Viton: K5071068

(For manufacture since February 1986)

MODEL	Capacity	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
	cc / rev	bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	1,6
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	1,7
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	1,7
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ^{225 bar}	3500	2,1
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ^{175 bar}		3500	2,2
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ^{150 bar}		3500	2,3
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ^{150 bar}		3500	2,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ^{150 bar}		3500	2,7

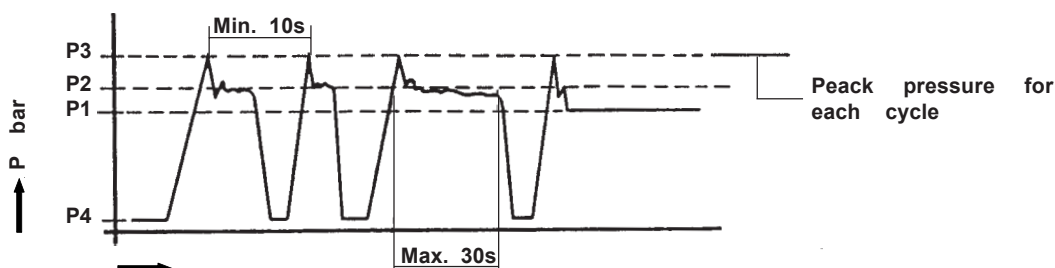
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P3 Max. Allowable peak pressure

P2 Maximum pressure in intermittent duty

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

		Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
			ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
													INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
H (HPI)		2006 to 2012	15	17,4	38	M6	12	20	17,4	38	M6	15	A	B	B	A	B	A
		2014 to 2030 2512 to 2522	15	17,4	38	M6	12	26	47,6	22,4	M6	12						
C (Square)		2006 to 2030	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
		2512 to 2522																
B (Italian)		2006 to 2012	15	30		M6	13	15	30		M6	13	A	B	B	A	B	A
		2014 to 2030 2512 to 2522	15	30		M6	13	23,5	40		M8	13						
F (Threaded)		2006 to 2012				3/8" BSP	12				3/4" BSP	16	A	B	B	A	B	A
		2014 to 2022 2512				1/2" BSP	14				1" BSP	18						
U (Threaded SAE J 475)		2006 to 2012				7/8" 14 UNF 2B	17				1" 1/16 12 UNF 2B	20	A	B	B	A	B	A
		2014 to 2022 2512				1" 5/16 12 UNF 2B	17				7/8" 14 UNF 2B	20						
		2026-2030 2515 to 2522				1" 1/16 12 UNF 2B	20				1" 5/16 12 UNF 2B	20						
Y (ISO 6162)		2006 to 2012	15	17,4	38	M8	14	20	17,4	38	M8	14	A	B	B	A	B	A
		2014 to 2022 2512	15	17,4	38	M8	14	26	47,6	22,4	M10	14						
		2026-2030 2515 to 2522	15	17,4	38	M10	14	26	52,4	26,2	M10	14						
X (without ports)		2006 to 2030 2512 to 2522	Only with rear body Type A															

PUBLISHING 01 / 2013

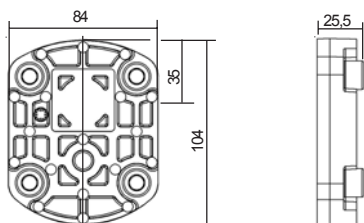
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1447 2/5

REAR BODIES for MOTORS M1 - M2

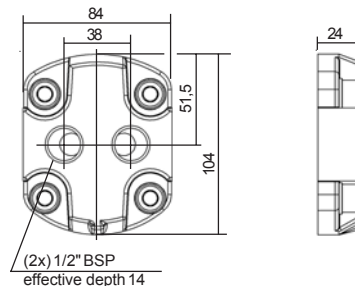
L

Standard



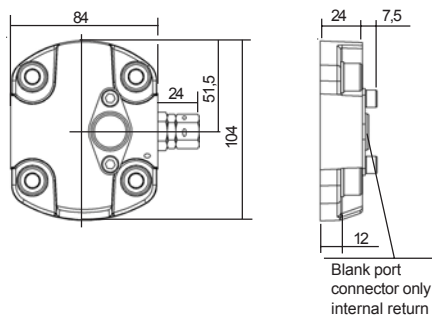
A

with ports



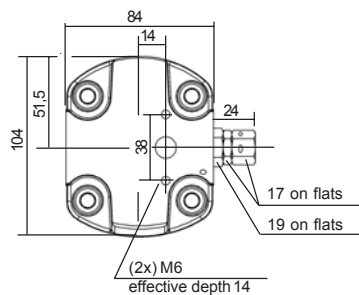
X

High pressure relief valve
(Adjustable) Internal return



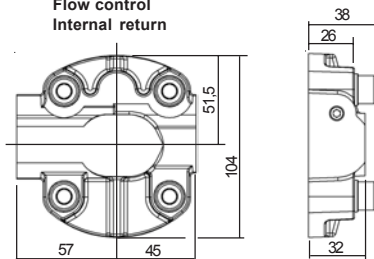
T

High pressure relief valve
(Adjustable) External return



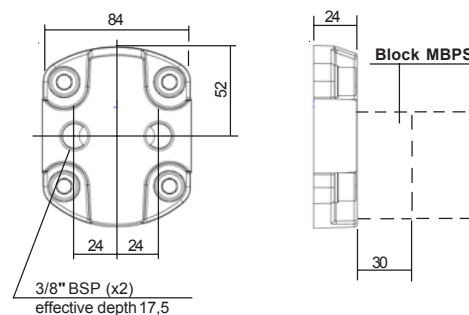
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1447 3/5

Consult us for availability

home

contents

previous

next

main dimensions

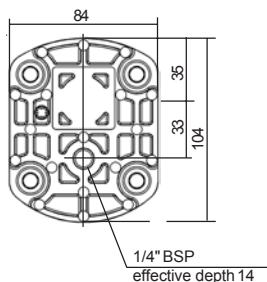
PUBLISHING 02 / 2012

147
/ 00

REAR BODIES for MOTORS M3 - M5 - M6

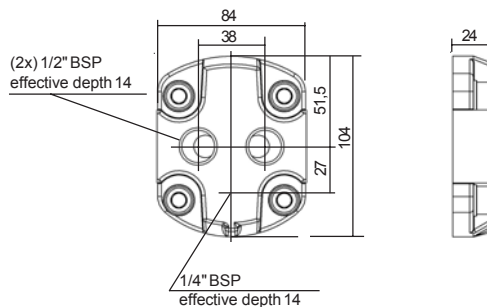
L

Standard



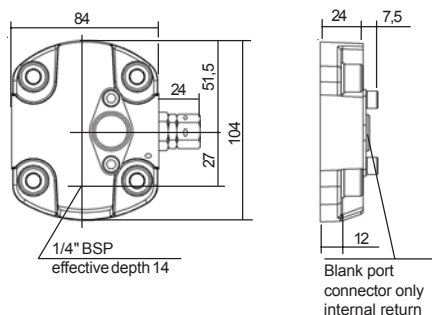
A

with ports



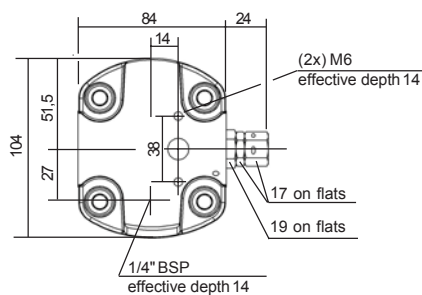
X

High pressure relief valve
(Adjustable) Internal return



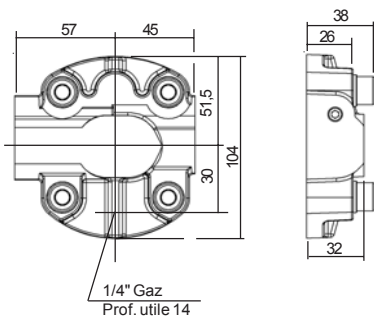
T

High pressure relief valve
(Adjustable) External return



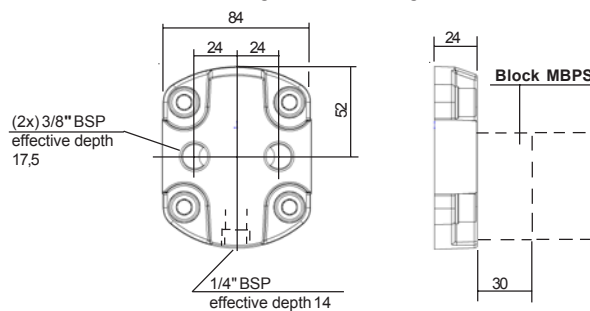
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured



Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1447 4/5

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
B02 Cône 1 / 8 Delivered with nut: K100841 <u>Maxi transmissible torque</u> 250 N.m	A01 <u>Maxi transmissible torque</u> 50 N.m	A01 Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle <u>Maxi transmissible torque</u> 100 N.m	C03 <u>Maxi transmissible torque</u> 70 N.m
C02 Cône 1 / 5 Delivered with nut: K106317 <u>Maxi transmissible torque</u> 220 N.m	C02 <u>Maxi transmissible torque</u> 50 N.m	C02 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 * <u>Maxi transmissible torque</u> 40 N.m * ONLY 2006 to 2012	C02 Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks <u>Maxi transmissible torque</u> 100 N.m	
	A08 <u>Maxi transmissible torque</u> 50 N.m	D01 Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks <u>Maxi transmissible torque</u> 100 N.m	A17 Involute spline SAE Standard 10 teeth - Pitch 16/32 - Flat root 20° Pressure angle <u>Maxi transmissible torque</u> 100 N.m

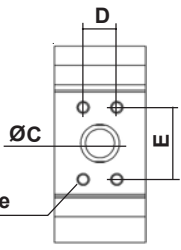
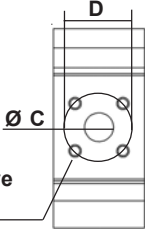
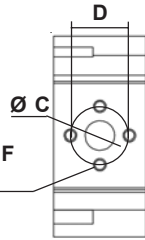
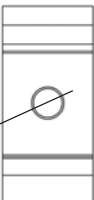
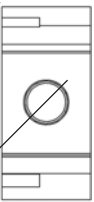
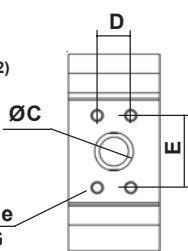
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1447 5/5

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

		Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
			ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
													INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
H (HPI)  Ø F effective depth G	2006 to 2012	15	17,4	38	M6	12	20	17,4	38	M6	15		A	B	B	A	B	A
	2014 to 2030 2512 to 2522	15	17,4	38	M6	12	26	47,6	22,4	M6	12							
C (Square)  Ø F effective depth G	2006 to 2030	15	35		M6	12	20	40		M6	12		A	B	B	A	B	A
	2512 to 2522																	
B (Italian)  4 holes Ø F effective depth G	2006 to 2012	15	30		M6	13	15	30		M6	13		A	B	B	A	B	A
	2014 to 2030 2512 to 2522	15	30		M6	13	23,5	40		M8	13							
F (Threaded)  Ø F effective depth G	2006 to 2012				3/8" BSP	12				3/4" BSP	16		A	B	B	A	B	A
	2014 to 2022 2512				1/2" BSP	14				1" BSP	18							
U (Threaded SAE J475)  Ø F effective depth G	2006 to 2012				7/8" 14 UNF 2B	17				1"1/16 12 UNF 2B	20		A	B	B	A	B	A
	2014 to 2022 2512				1"5/16 12 UNF 2B	17				7/8" 14 UNF 2B	20							
	2026-2030 2515 to 2522				1"1/16 12 UNF 2B	20				1"5/16 12 UNF 2B	20							
Y (ISO 6162)  ØF effective depth G	2006 to 2012	15	17,4	38	M8	14	20	17,4	38	M8	14		A	B	B	A	B	A
	2014 to 2022 2512	15	17,4	38	M8	14	26	47,6	22,4	M10	14							
	2026-2030 2515 to 2522	15	17,4	38	M10	14	26	52,4	26,2	M10	14							
X (without ports) 	2006 to 2030 2512 to 2522	Only with rear body Type A										 Consult us for availability						

PUBLISHING 01 / 2013

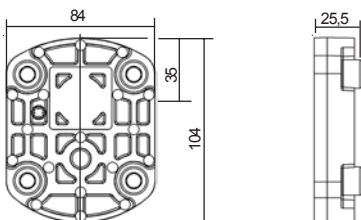
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1448 2/5

REAR BODIES for MOTORS M1 - M2

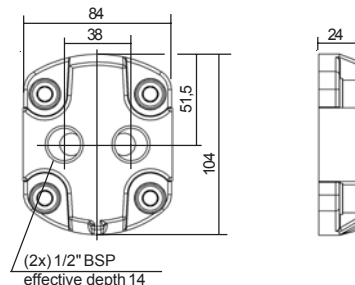
L

Standard



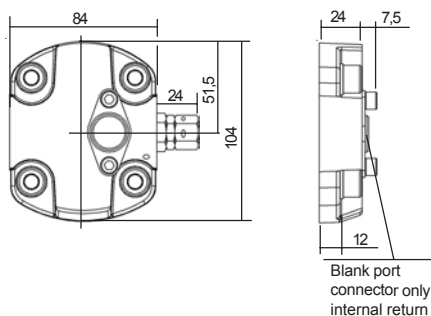
A

with ports



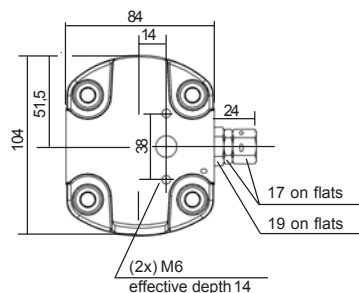
X

High pressure relief valve
(Adjustable) Internal return



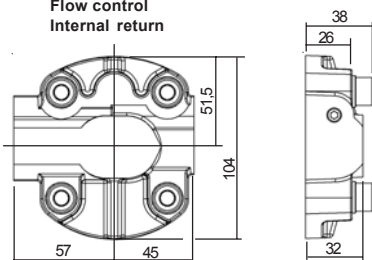
T

High pressure relief valve
(Adjustable) External return



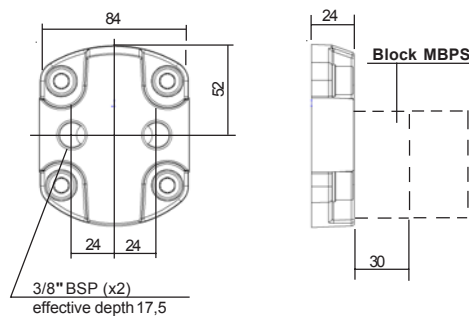
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1448 3/5

Consult us for availability

home

contents

previous

next

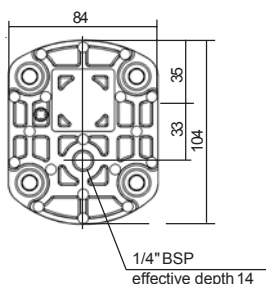
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

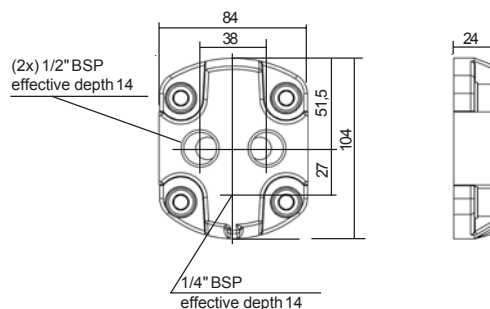
L

Standard



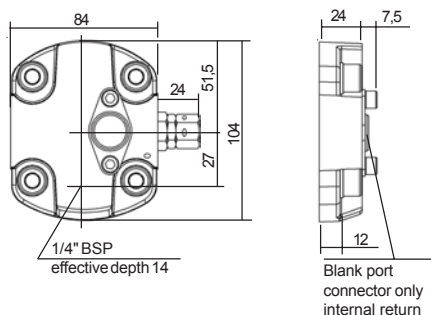
A

with ports



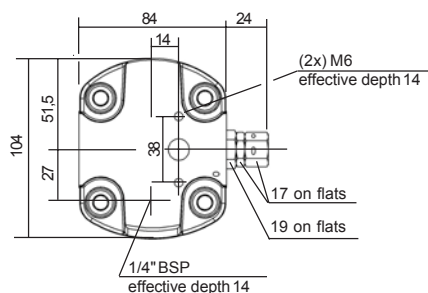
X

High pressure relief valve
(Adjustable) Internal return



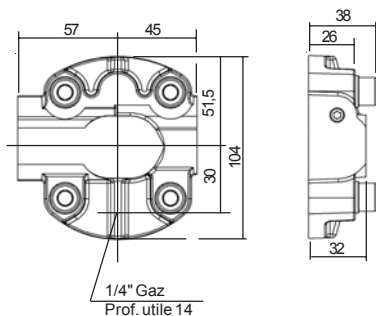
T

High pressure relief valve
(Adjustable) External return



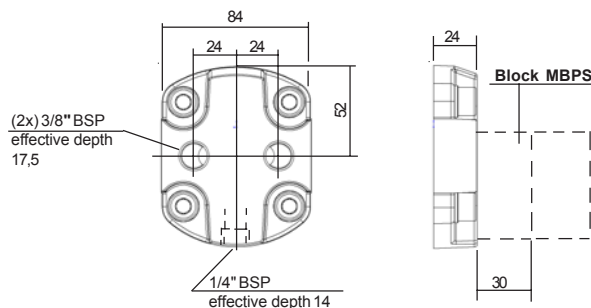
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			

 Versions not manufactured

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1448 4/5

Consult us for availability

home

contents

previous

next

main dimensions

PUBLISHING 02 / 2012

DRIVING SHAFT (DUK)

Tapered

10

Straight keyed

20

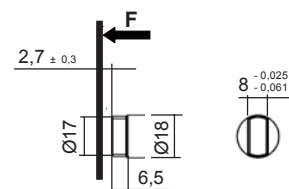
Splined

30

Tang

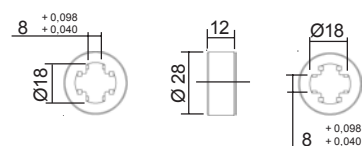
40

D02



Max tightening torque
70 N.m

Coupling on request: Ref. K102947



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1448 5/5

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

PUBLISHING 02 / 2012

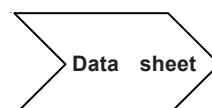


F.T 20 1433

MOTORS PRESENTATION SERIES 2 and 2,5

- THICK FRONT BODIES

MOTOR **AAP**



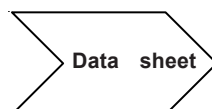
F.T 20 1449

MOTO R **AAR**



F.T 20 1450

MOTOR **ARP**



F.T 20 1451

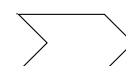
MOTOR **ARK**



F.T 20 1452

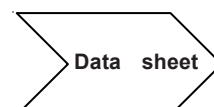


Consult us for availability



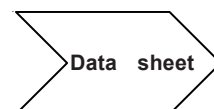
- THICK FRONT BODIES (rest)

MOTOR **AVP**



F.T 20 1453

MOTOR **DBP**

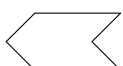


F.T 20 1454

MOTOR **DBR**



F.T 20 1455



Consult us for availability

home

contents

previous

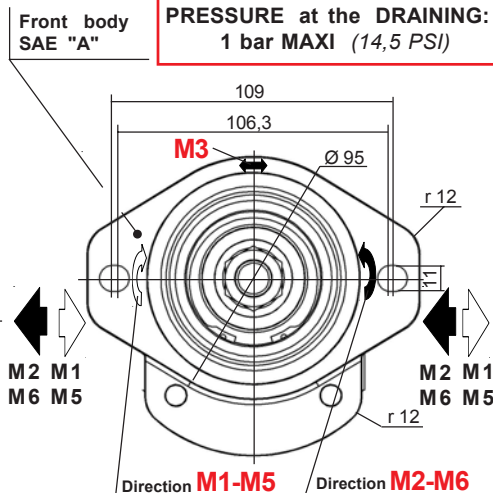
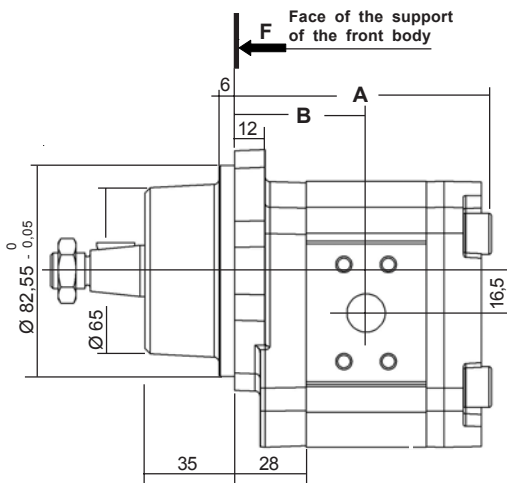
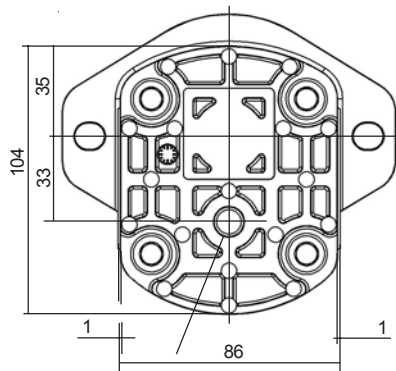
next

main dimensions



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

For CODIFICATION, see data sheet **F.T R 0243**



Dimensions readings and approximative characteristics subject to modifications.

Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity	Dimensions	
	A	B
006 - 008 - 010 012	100,5	51,5
014 - 015 - 017 018 - 022	115	58
026 - 030	131	67

Seals kits:

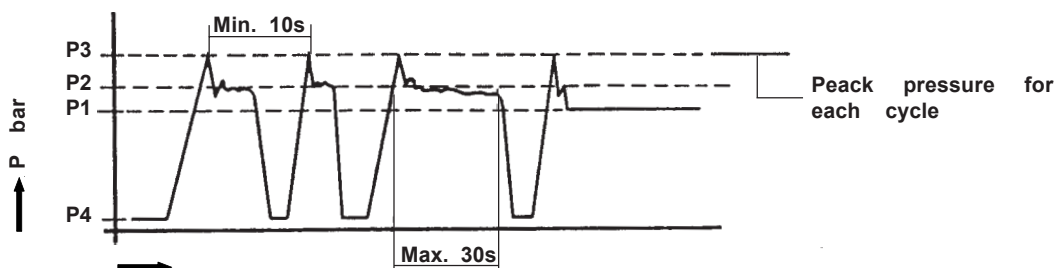
M1 - M2
Nitrile: **K5069870 + K5069830**
Viton: **K5069880 + K5069840**
(For manufacture to since january 1984)

M3 - M5/M6
Nitrile: **K5071067 + K5071069**
Viton: **K5071068 + K5071070**
(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	2,7
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	2,8
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	2,8
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	2,8
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	3
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	3,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ^{225 bar}	3500	3,2
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ^{175 bar}		3500	3,3
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ^{150 bar}		3500	3,4
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ^{150 bar}		3500	3,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ^{150 bar}		3500	3,9

On the hereunder indicated diagram, the maximum duty pressure are the following.

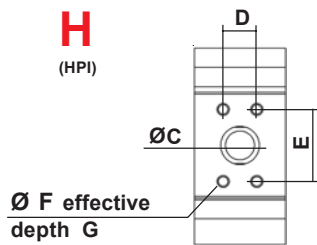
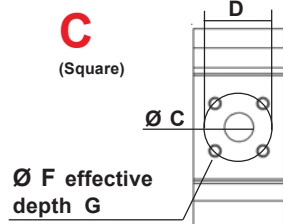
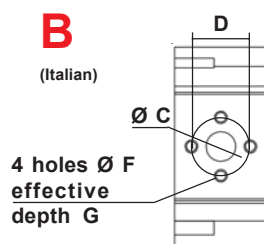
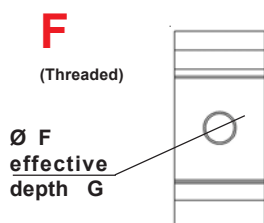
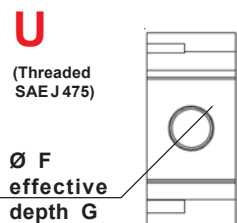
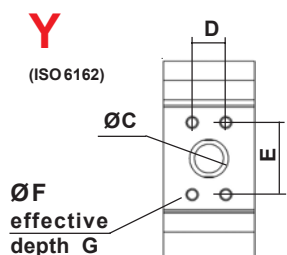
- P1** Maximum pressure in continuous duty **P2** Maximum pressure in intermittent duty
P3 Max. Allowable peak pressure **P4** Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

H
(HPI)

C
(Square)

B
(Italian)

F
(Threaded)

U
(Threaded SAE J 475)

Y
(ISO 6162)

X
(without ports)


Capacity	INLET										AFFECTATION					
	INLET					OUTLET					1 way rotation without counter pressure		2 ways rotation with counter pressure			
											1 way rotation with counter pressure					
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	M1 ENTREE	M2 SORTIE	M5 INLET	M6 OUTLET	M3 INLET	M3 OUTLET
2006 to 2012	15	17,4	38	M6	12	20	17,4	38	M6	15						
2014 to 2030																
2512 to 2522	15	17,4	38	M6	12	26	47,6	22,4	M6	12	A	B	B	A	B	A
2006 to 2030	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
2512 to 2522																
2006 to 2012	15	30		M6	13	15	30		M6	13						
2014 to 2030																
2512 to 2522	15	30		M6	13	23,5	40		M8	13	A	B	B	A	B	A
2006 to 2012				3/8" BSP	12				3/4" BSP	16						
2014 to 2022																
2512				1/2" BSP	14				1" BSP	18	A	B	B	A	B	A
2006 to 2012				7/8" 14 UNF 2B	17				1"1/16 12 UNF 2B	20						
2014 to 2022				1"5/16 12 UNF 2B	17				7/8" 14 UNF 2B	20	A	B	B	A	B	A
2512																
2026-2030				1"1/16 12 UNF 2B	20				1"5/16 12 UNF 2B	20						
2515 to 2522																
2006 to 2012	15	17,4	38	M8	14	20	17,4	38	M8	14						
2014 to 2022																
2512	15	17,4	38	M8	14	26	47,6	22,4	M10	14	A	B	B	A	B	A
2026-2030																
2515 to 2522	15	17,4	38	M10	14	26	52,4	26,2	M10	14						
2006 to 2030	Only with rear body Type A															
2512 to 2522																

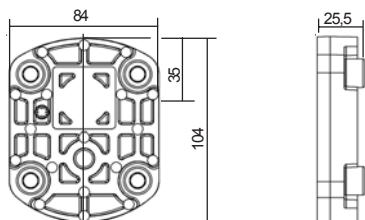
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1449 2/5

REAR BODIES for MOTORS M1 - M2

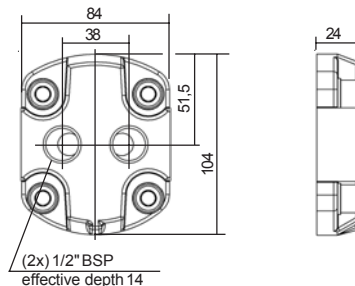
L

Standard



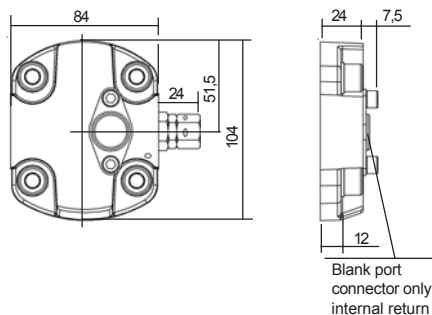
A

with ports



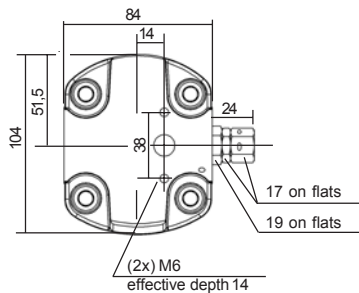
X

High pressure relief valve
(Adjustable) Internal return



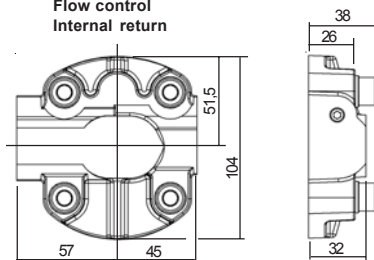
T

High pressure relief valve
(Adjustable) External return



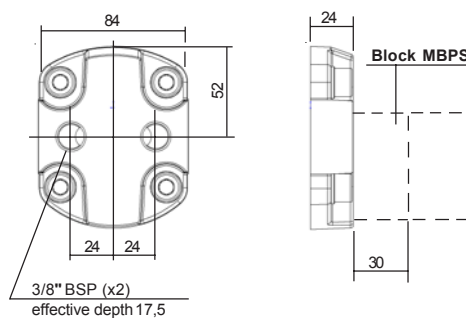
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1449 3/5



Consult us for availability

home

contents

previous

next

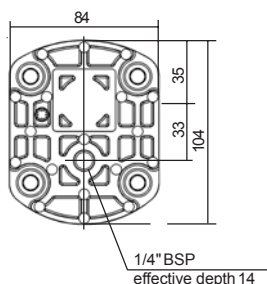
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

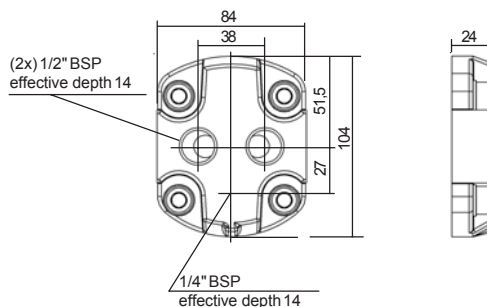
L

Standard



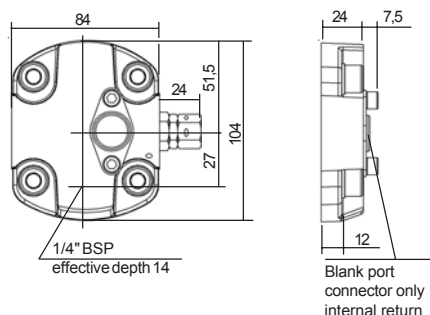
A

with ports



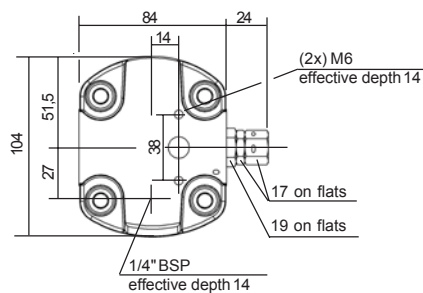
X

High pressure relief valve
(Adjustable) Internal return



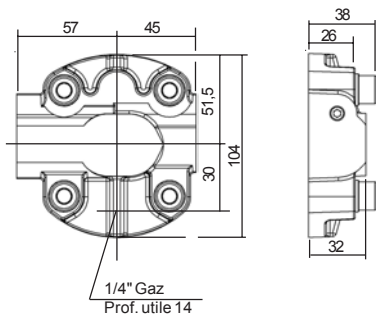
T

High pressure relief valve
(Adjustable) External return



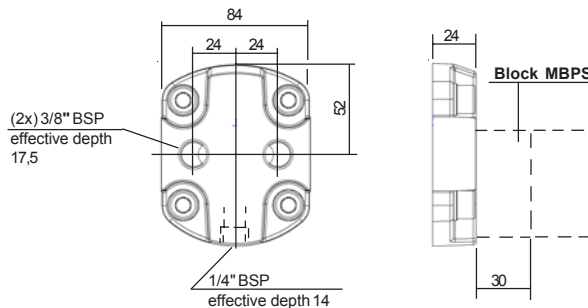
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1449 4/5



Consult us for availability

home

contents

previous

next

main dimensions

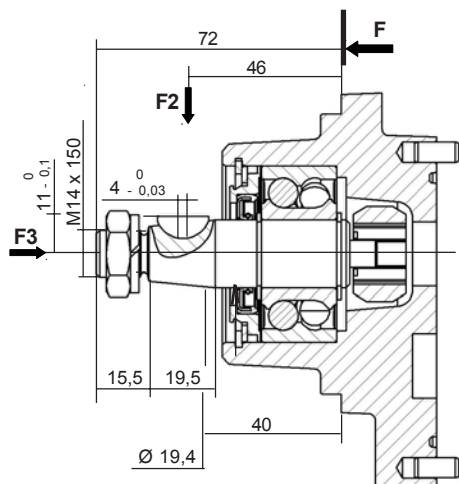
DRIVING SHAFTS

Tapered

10

C03

Taper 1/5



Delivered with nut: K102045

F2 Maxi: 120 daN

F3 Maxi: 50 daN

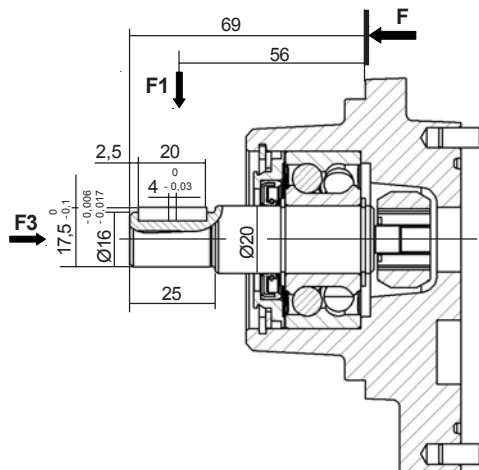
Maxi transmissible torque

70 N.m

Straight keyed

20

C03



F1 Maxi: 100 daN

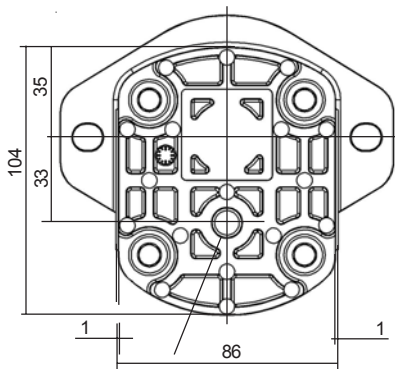
F3 Maxi: 50 daN

Maxi transmissible torque

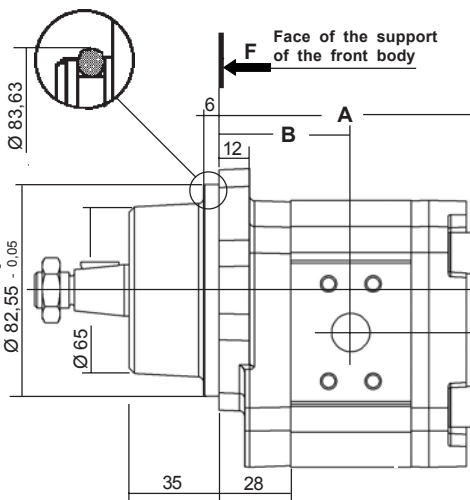
50 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1449 5/5

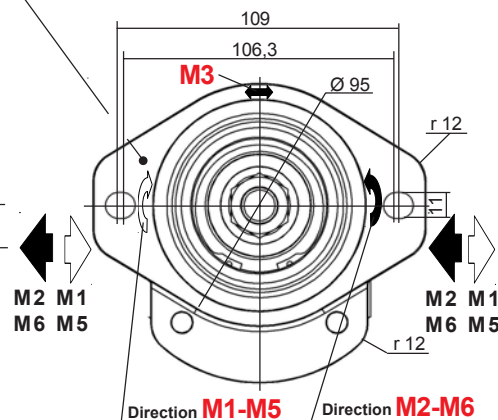


For CODIFICATION, see data sheet F.T R 0243



Front body
SAE "A"

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



CHOICE of the Capacity

Dimensions

	A	B
006 - 008 - 010 012	100,5	51,5
014 - 015 - 017 018 - 022	115	58
026 - 030	131	67

Seals kits:

M1 - M2

Nitrile: K5069870 + K5069830 + K102901
Viton: K5069880 + K5069840 + K104093
(For manufacturer to since january 1984)

M3 - M5/M6

Nitrile: K5071067 + K5071069 + K102902
Viton: K5071068 + K5071070 + K104093
(For manufacturer to since february 1986)

Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion

35 N.m

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1 bar	P1 PSI	P2 bar	P2 PSI	P3 bar	P3 PSI	P1 RPM	P2 RPM	100 bar 1450 PSI	210 bar 3045 PSI	300 bar 4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	2,7
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	2,8
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	2,8
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	2,8
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 225 bar	3500	3
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 225 bar	3500	3,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 225 bar	3500	3,2
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 175 bar	150 bar	3500	3,3
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 150 bar	150 bar	3500	3,4
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 150 bar	150 bar	3500	3,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 150 bar	150 bar	3500	3,9

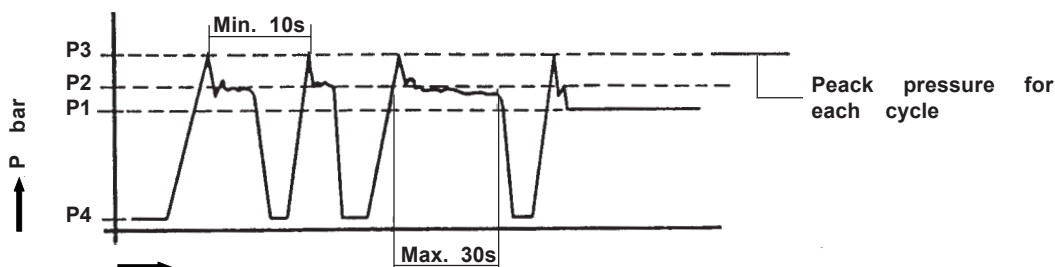
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

home

contents

previous

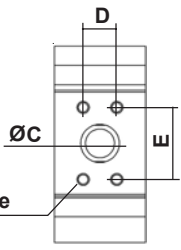
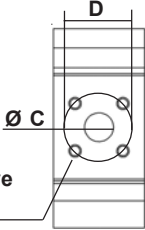
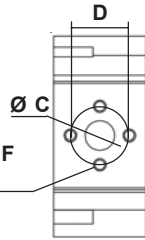
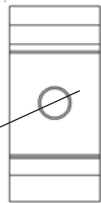
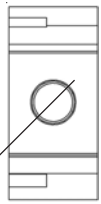
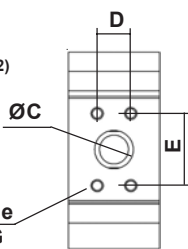
next

main dimensions

PUBLISHING 02 / 2012

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

		Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
			ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
													INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
H (HPI)  Ø F effective depth G	2006 to 2012	15	17,4	38	M6	12	20	17,4	38	M6	15		A	B	B	A	B	A
	2014 to 2030 2512 to 2522	15	17,4	38	M6	12	26	47,6	22,4	M6	12							
C (Square)  Ø F effective depth G	2006 to 2030	15	35		M6	12	20	40		M6	12		A	B	B	A	B	A
	2512 to 2522																	
B (Italian)  4 holes Ø F effective depth G	2006 to 2012	15	30		M6	13	15	30		M6	13		A	B	B	A	B	A
	2014 to 2030 2512 to 2522	15	30		M6	13	23,5	40		M8	13							
F (Threaded)  Ø F effective depth G	2006 to 2012				3/8" BSP	12				3/4" BSP	16		A	B	B	A	B	A
	2014 to 2022 2512				1/2" BSP	14				1" BSP	18							
U (Threaded SAE J 475)  Ø F effective depth G	2006 to 2012				7/8" 14 UNF 2B	17				1"1/16 12 UNF 2B	20		A	B	B	A	B	A
	2014 to 2022 2512				1"5/16 12 UNF 2B	17				7/8" 14 UNF 2B	20							
	2026-2030 2515 to 2522				1"1/16 12 UNF 2B	20				1"5/16 12 UNF 2B	20							
Y (ISO 6162)  ØF effective depth G	2006 to 2012	15	17,4	38	M8	14	20	17,4	38	M8	14		A	B	B	A	B	A
	2014 to 2022 2512	15	17,4	38	M8	14	26	47,6	22,4	M10	14							
	2026-2030 2515 to 2522	15	17,4	38	M10	14	26	52,4	26,2	M10	14							
X (without ports) 	2006 to 2030 2512 to 2522	Only with rear body Type A										 Consult us for availability						

PUBLISHING 01 / 2013

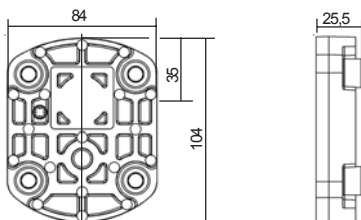
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1450 2/5

REAR BODIES for MOTORS M1 - M2

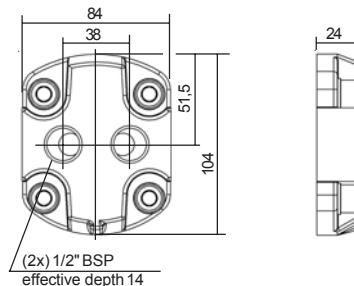
L

Standard



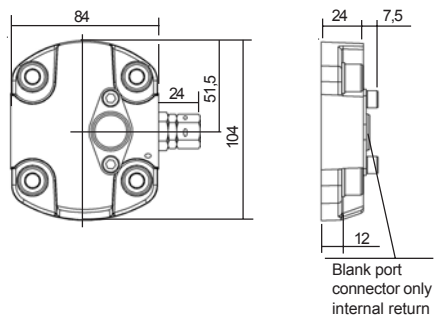
A

with ports



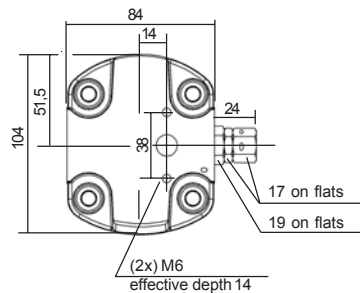
X

High pressure relief valve
(Adjustable) Internal return



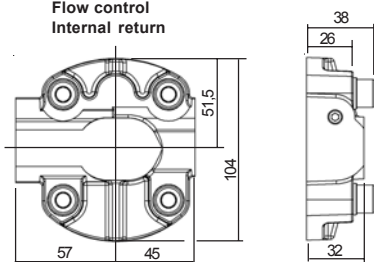
T

High pressure relief valve
(Adjustable) External return



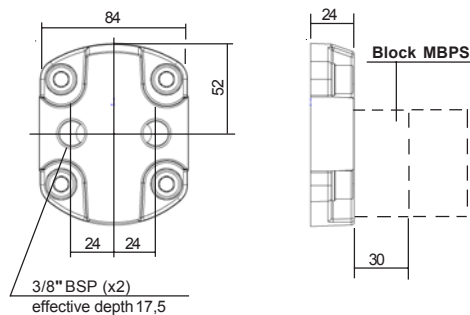
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1450 3/5



Consult us for availability

home

contents

previous

next

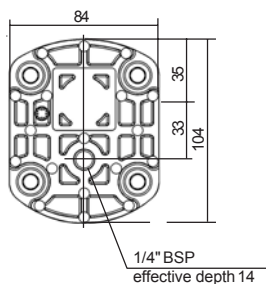
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

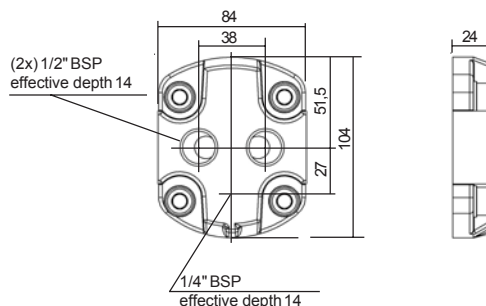
L

Standard



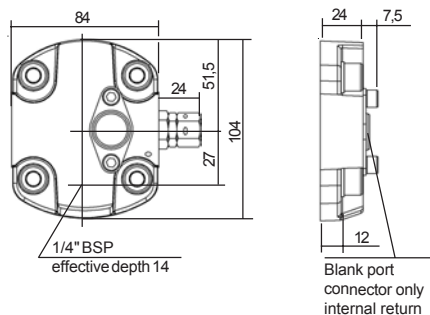
A

with ports



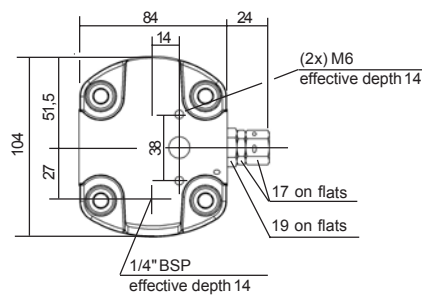
X

High pressure relief valve
(Adjustable) Internal return



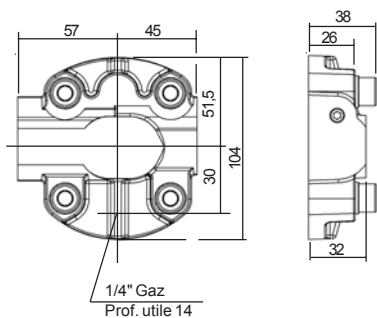
T

High pressure relief valve
(Adjustable) External return



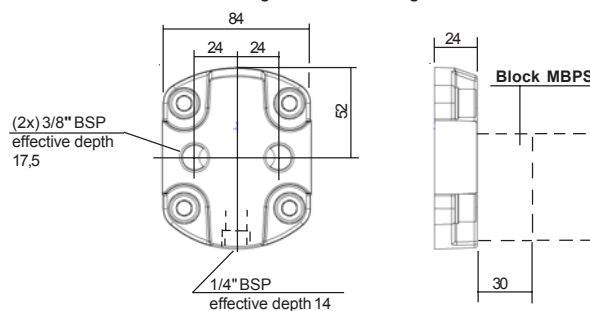
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1450 4/5

Consult us for availability

home

contents

previous

next

main dimensions

PUBLISHING 02 /2012

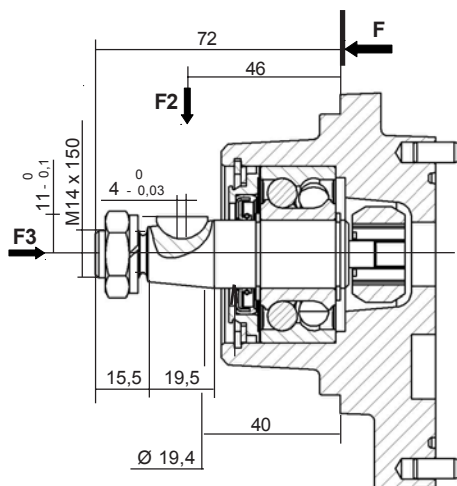
DRIVING SHAFTS

Tapered

10

C03

Taper 1/5



Delivered with nut: K102045

F2 Maxi: 120 daN

F3 Maxi: 50 daN

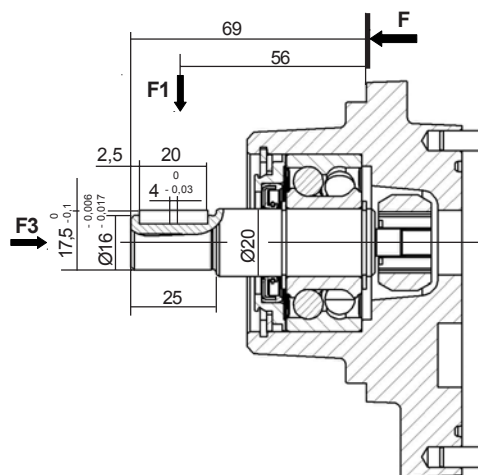
Maxi transmissible torque

70 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 1450 5/5

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

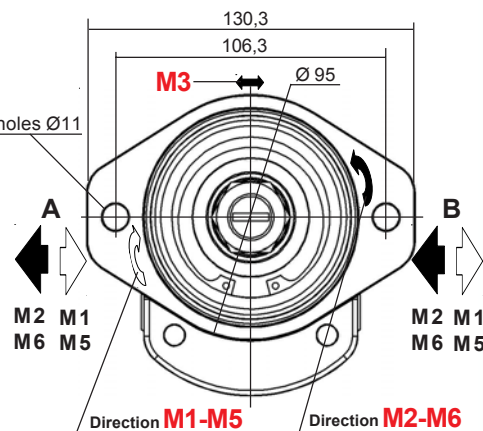
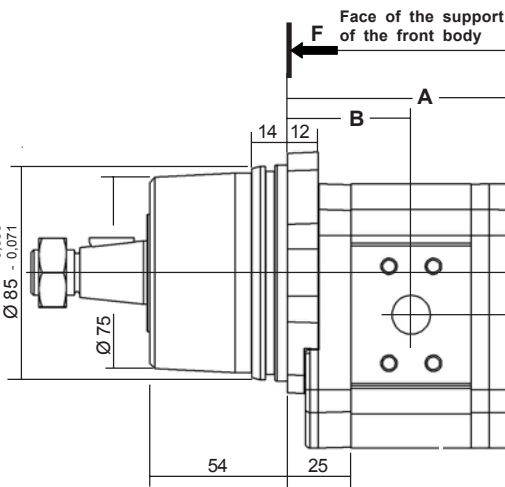
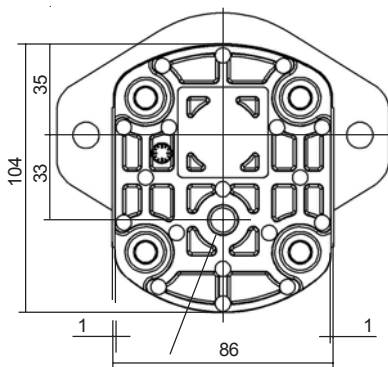
PUBLISHING 02 / 2012



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

For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



CHOICE of the Capacity	Dimensions	
	A	B
006 - 008 - 010 012	97,5	48,5
014 - 015 - 017 018 - 022	112	56
026 - 030	128	64

Seals kits:

M1 - M2

Nitrile: K5069830 + K5069870
Viton: K5069840 + K5069880
(For manufacturer to since january 1984)

M3 - M5/M6

Nitrile: K5071069 + K5069870
Viton: K5071070 + K5069880
(For manufacturer to since february 1986)

Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

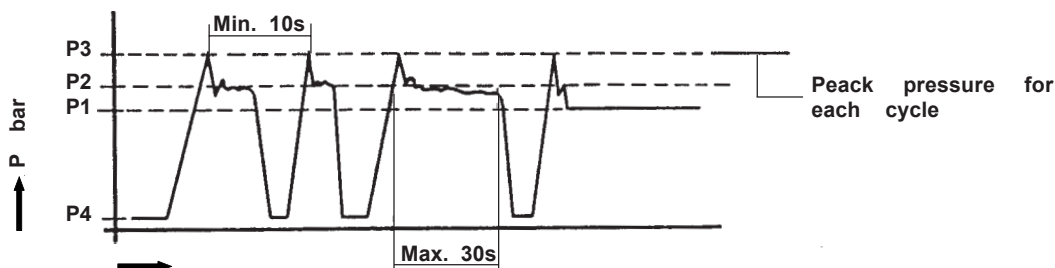
Max. tightening torque of the connexion
35 N.m

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	2,7
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	2,8
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	2,8
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	2,8
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	3
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	3,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ^{225 bar}	3500	3,2
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ^{175 bar}		3500	3,3
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ^{150 bar}		3500	3,4
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ^{150 bar}		3500	3,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ^{150 bar}		3500	3,9

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

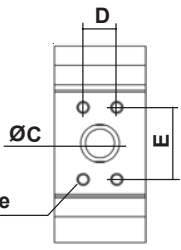
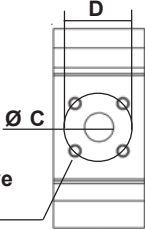
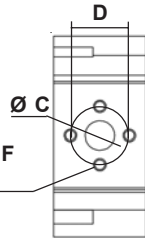
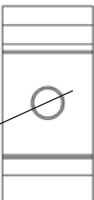
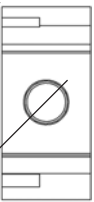
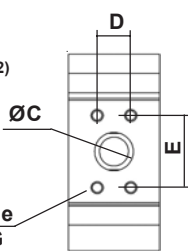
P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

		Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
			ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
													INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
H (HPI)  Ø F effective depth G	2006 to 2012	15	17,4	38	M6	12	20	17,4	38	M6	15		A	B	B	A	B	A
	2014 to 2030 2512 to 2522	15	17,4	38	M6	12	26	47,6	22,4	M6	12							
C (Square)  Ø F effective depth G	2006 to 2030	15	35		M6	12	20	40		M6	12		A	B	B	A	B	A
	2512 to 2522																	
B (Italian)  4 holes Ø F effective depth G	2006 to 2012	15	30		M6	13	15	30		M6	13		A	B	B	A	B	A
	2014 to 2030 2512 to 2522	15	30		M6	13	23,5	40		M8	13							
F (Threaded)  Ø F effective depth G	2006 to 2012				3/8" BSP	12				3/4" BSP	16		A	B	B	A	B	A
	2014 to 2022 2512				1/2" BSP	14				1" BSP	18							
U (Threaded SAE J475)  Ø F effective depth G	2006 to 2012				7/8" 14 UNF 2B	17				1"1/16 12 UNF 2B	20		A	B	B	A	B	A
	2014 to 2022 2512				1"5/16 12 UNF 2B	17				7/8" 14 UNF 2B	20							
	2026-2030 2515 to 2522				1"1/16 12 UNF 2B	20				1"5/16 12 UNF 2B	20							
Y (ISO 6162)  ØF effective depth G	2006 to 2012	15	17,4	38	M8	14	20	17,4	38	M8	14		A	B	B	A	B	A
	2014 to 2022 2512	15	17,4	38	M8	14	26	47,6	22,4	M10	14							
	2026-2030 2515 to 2522	15	17,4	38	M10	14	26	52,4	26,2	M10	14							
X (without ports) 	2006 to 2030 2512 to 2522	Only with rear body Type A										 Consult us for availability						

PUBLISHING 01 / 2013

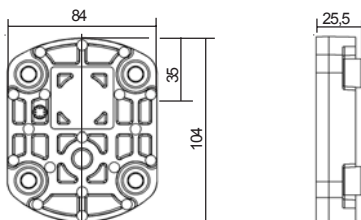
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1451 2/5

REAR BODIES for MOTORS M1 - M2

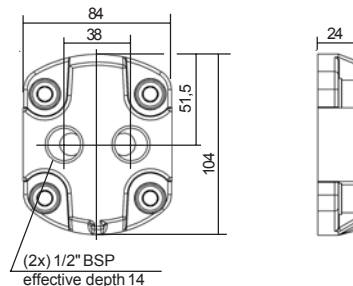
L

Standard



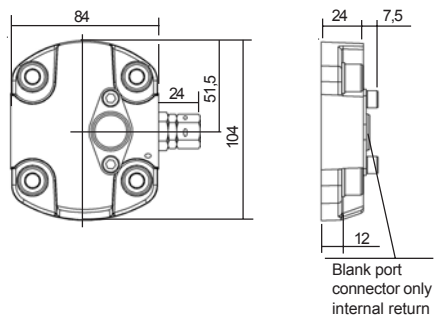
A

with ports



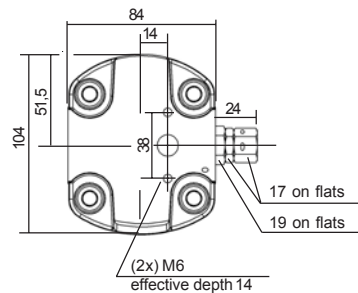
X

High pressure relief valve
(Adjustable) Internal return



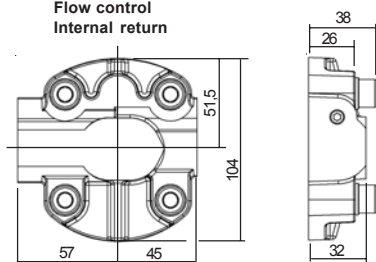
T

High pressure relief valve
(Adjustable) External return



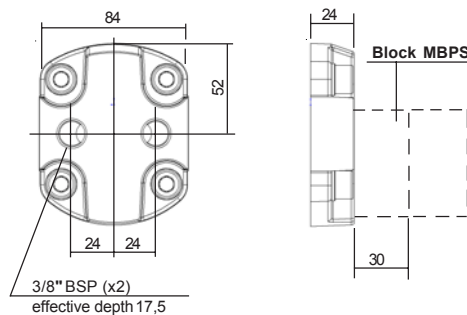
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1451 3/5

Consult us for availability

home

contents

previous

next

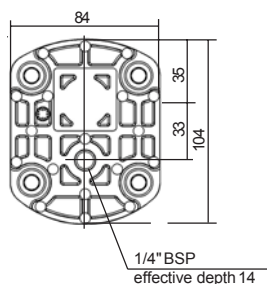
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

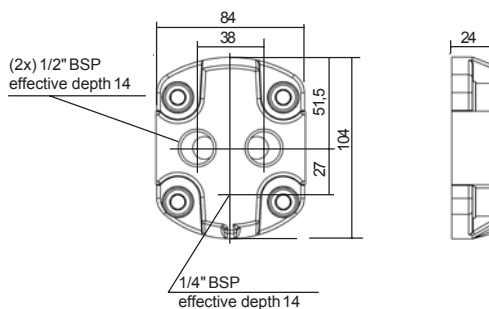
L

Standard



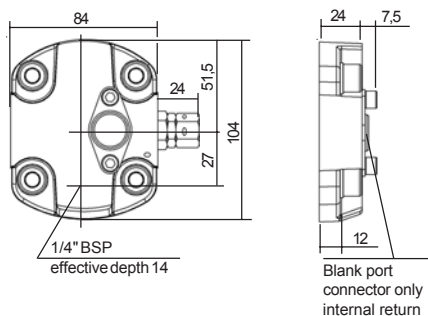
A

with ports



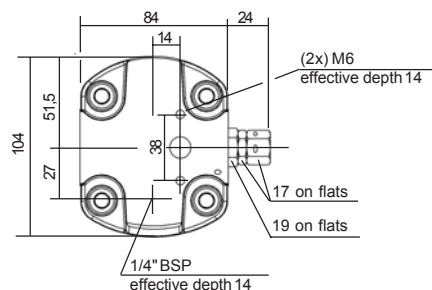
X

High pressure relief valve
(Adjustable) Internal return



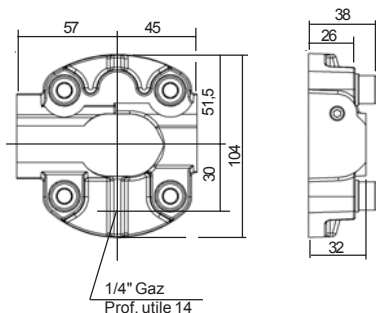
T

High pressure relief valve
(Adjustable) External return



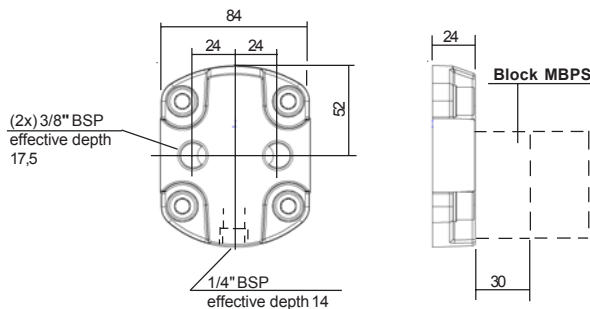
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1451 4/5

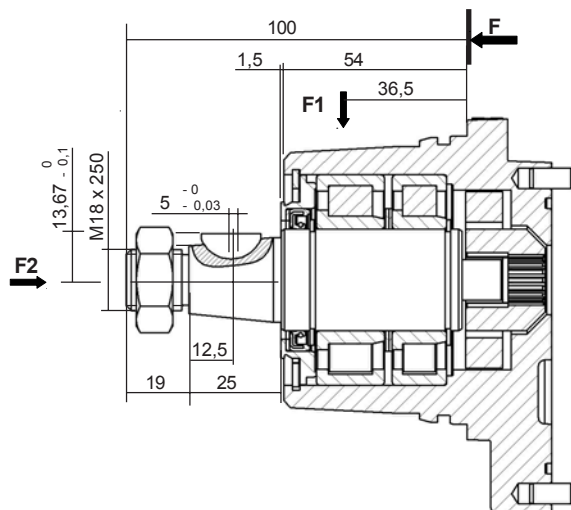
DRIVING SHAFTS

Tapered

10

C05

Taper 1/5



Delivered with nut: K106295

F1 Maxi: 350 daN

F2 Maxi: 50 daN

Maxi transmissible torque

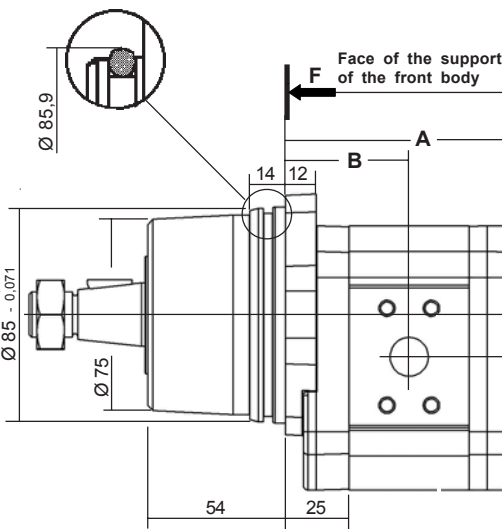
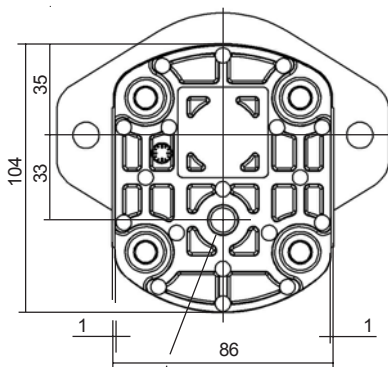
70 N.m

Dimensions readings and approximative characteristics subject to modifications.

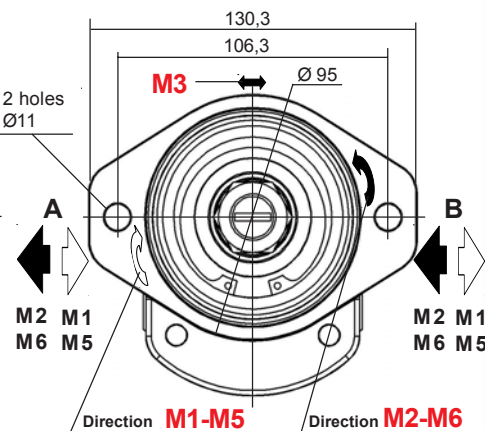
F.T 20 1451 5/5

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

For CODIFICATION, see data sheet F.T R 0243



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



CHOICE of
the Capacity

Dimensions

	A	B
006 - 008 - 010 012	97,5	48,5
014 - 015 - 017 018 - 022	112	56
026 - 030	128	64

Seals kits:

M1 - M2

Nitrile: K5069830 + K5069870 + K106139
Viton: K5069840 + K5069880 + K106139
(For manufacturer to since january 1984)

M3 - M5/M6

Nitrile: K5071069 + K5069870 + K106139
Viton: K5071070 + K5069880 + K106139
(For manufacturer to since february 1984)

Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion

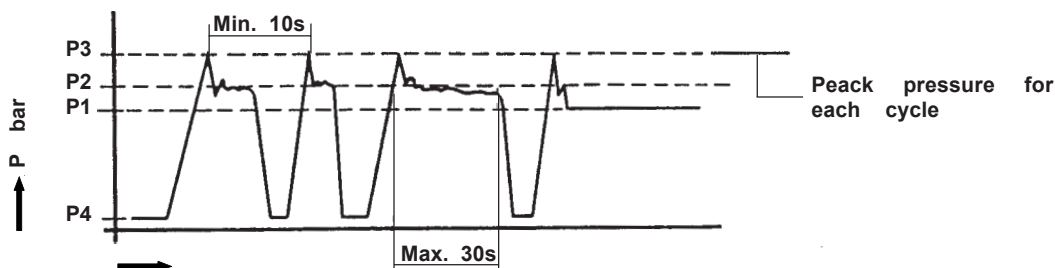
35 N.m

MODEL	Capacity	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
	cc / rev	bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	2,7
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	2,8
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	2,8
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	2,8
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ²²⁵ bar	3500	3
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ²²⁵ bar	3500	3,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ²²⁵ bar	3500	3,2
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ¹⁷⁵ bar		3500	3,3
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ¹⁵⁰ bar		3500	3,4
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ¹⁵⁰ bar		3500	3,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ¹⁵⁰ bar		3500	3,9

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

Port connector, see our Catalogue N° 70

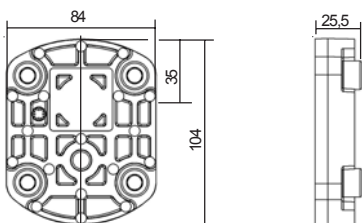
1 way rotation with counter pressure				pressure	
M5		M6		M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET

173 / 00

REAR BODIES for MOTORS M1 - M2

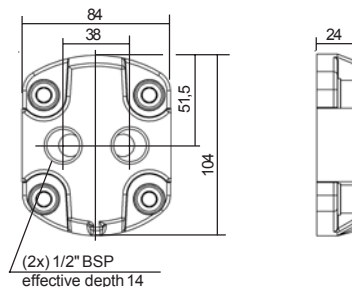
L

Standard



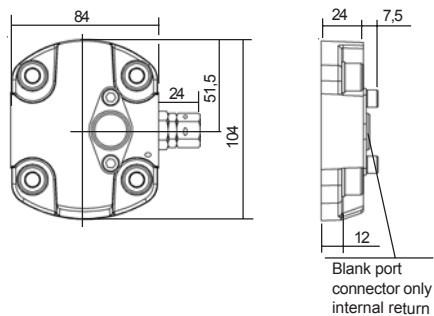
A

with ports



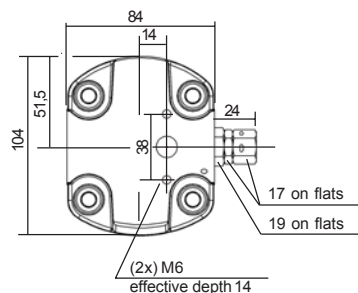
X

High pressure relief valve
(Adjustable) Internal return



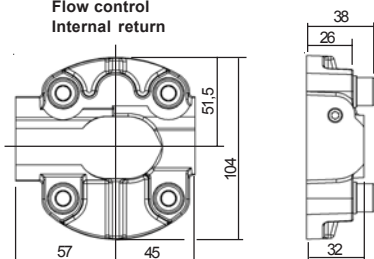
T

High pressure relief valve
(Adjustable) External return



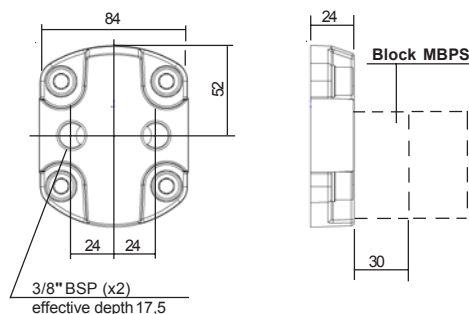
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1452 3/5



Consult us for availability

home

contents

previous

next

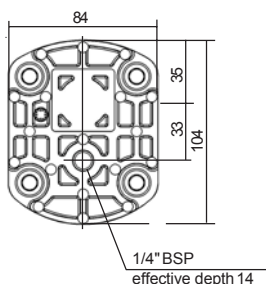
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

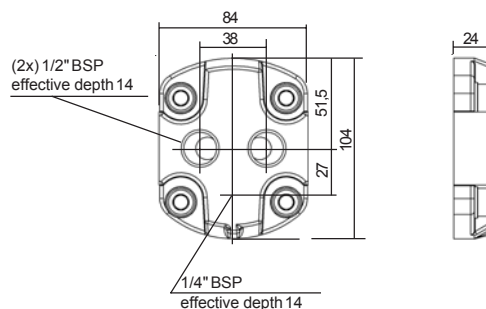
L

Standard



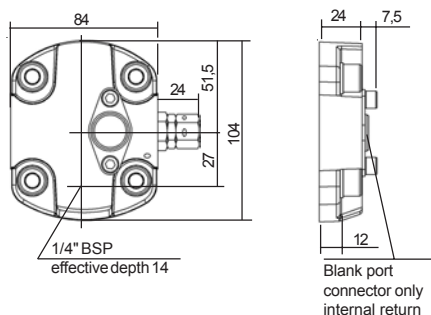
A

with ports



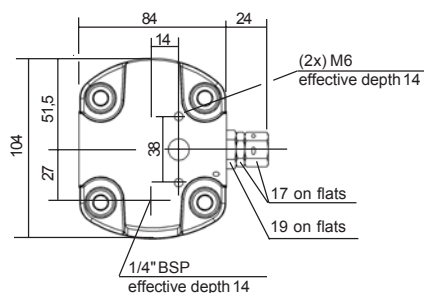
X

High pressure relief valve
(Adjustable) Internal return



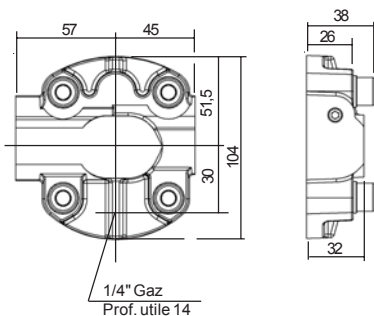
T

High pressure relief valve
(Adjustable) External return



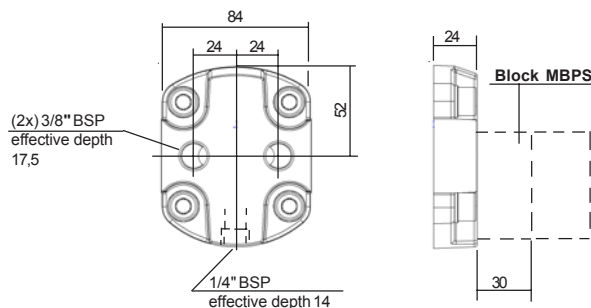
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1452 4/5



Consult us for availability

home

contents

previous

next

main dimensions

PUBLISHING 02 / 2012

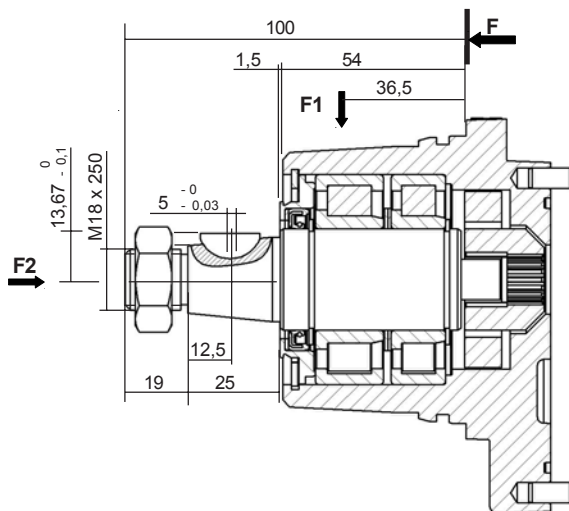
DRIVING SHAFTS

Tapered

10

C05

Taper 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 1452 5/5



Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

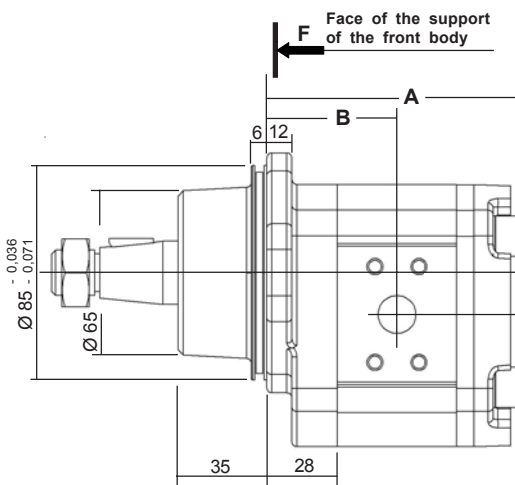
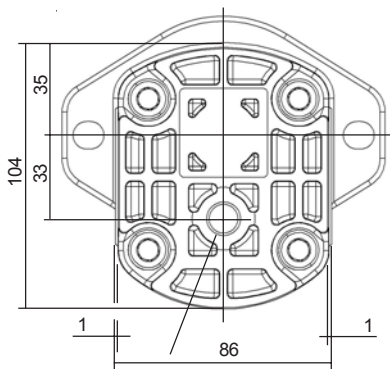
[main dimensions](#)

PUBLISHING 02 / 2012

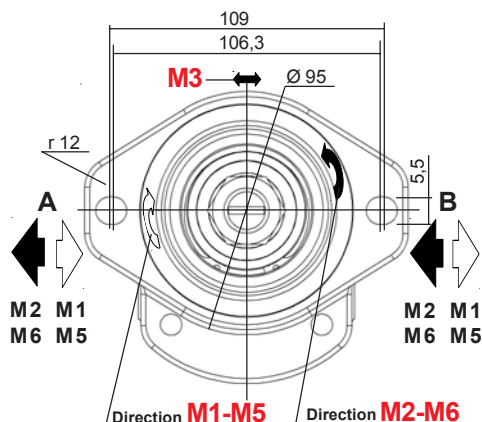


M II Sign **AV** **P** **2** VI Sign **H** **L** **1** **0** **C06** XII Sign

For CODIFICATION, see data sheet **F.T R 0243**



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Dimensions readings and approximative characteristics subject to modifications.

Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity	Dimensions	
	A	B
006 - 008 - 010 012	100,5	51,5
014 - 015 - 017 018 - 022	115	58
026 - 030	131	67

Seals kits:

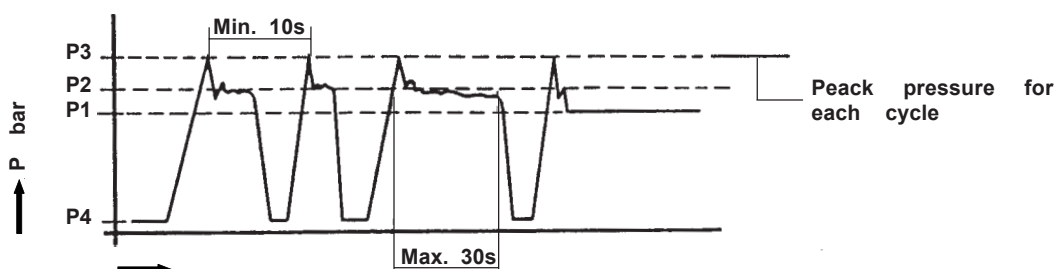
M1 - M2
Nitrile: **K102672 + K5069830**
Viton: **K106190 + K5069840**
(For manufacture to since january 1984)

M3 - M5/M6
Nitrile: **K102672 + K5071069**
Viton: **K106190 + K5071070**
(For manufacture to since february 1986)

MODEL	Capacity	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
	cc / rev	bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	2,7
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	2,8
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	2,8
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	2,8
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	3
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ^{225 bar}	3500	3,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ^{225 bar}	3500	3,2
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ^{175 bar}		3500	3,3
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ^{150 bar}		3500	3,4
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ^{150 bar}		3500	3,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ^{150 bar}		3500	3,9

On the hereunder indicated diagram, the maximum duty pressure are the following.

- P1** Maximum pressure in continuous duty **P2** Maximum pressure in intermittent duty
P3 Max. Allowable peak pressure **P4** Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

F.T 20 1453 1/5

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

		Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
			ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
													INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
H (HPI)		2006 to 2012	15	17,4	38	M6	12	20	17,4	38	M6	15	A	B	B	A	B	A
		2014 to 2030 2512 to 2522	15	17,4	38	M6	12	26	47,6	22,4	M6	12						
C (Square)		2006 to 2030	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
		2512 to 2522																
B (Italian)		2006 to 2012	15	30		M6	13	15	30		M6	13	A	B	B	A	B	A
		2014 to 2030 2512 to 2522	15	30		M6	13	23,5	40		M8	13						
F (Threaded)		2006 to 2012				3/8" BSP	12				3/4" BSP	16	A	B	B	A	B	A
		2014 to 2022 2512				1/2" BSP	14				1" BSP	18						
U (Threaded SAE J 475)		2006 to 2012				7/8" 14 UNF 2B	17				1" 1/16 12 UNF 2B	20	A	B	B	A	B	A
		2014 to 2022 2512				1" 5/16 12 UNF 2B	17				7/8" 14 UNF 2B	20						
		2026-2030 2515 to 2522				1" 1/16 12 UNF 2B	20				1" 5/16 12 UNF 2B	20						
Y (ISO 6162)		2006 to 2012	15	17,4	38	M8	14	20	17,4	38	M8	14	A	B	B	A	B	A
		2014 to 2022 2512	15	17,4	38	M8	14	26	47,6	22,4	M10	14						
		2026-2030 2515 to 2522	15	17,4	38	M10	14	26	52,4	26,2	M10	14						
X (without ports)		2006 to 2030 2512 to 2522	Only with rear body Type A															

PUBLISHING 01 / 2013

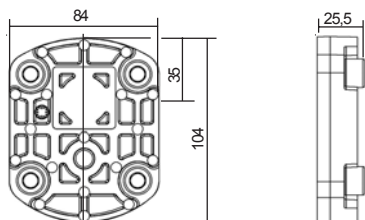
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1453 2/5

REAR BODIES for MOTORS M1 - M2

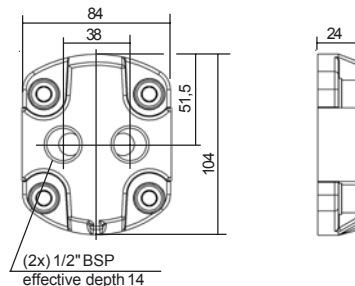
L

Standard



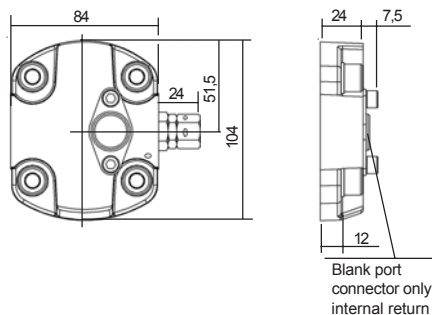
A

with ports



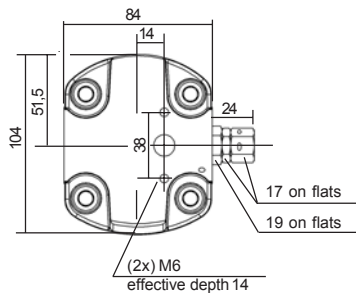
X

High pressure relief valve
(Adjustable) Internal return



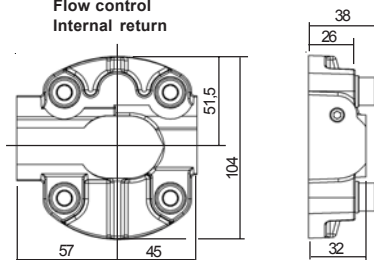
T

High pressure relief valve
(Adjustable) External return



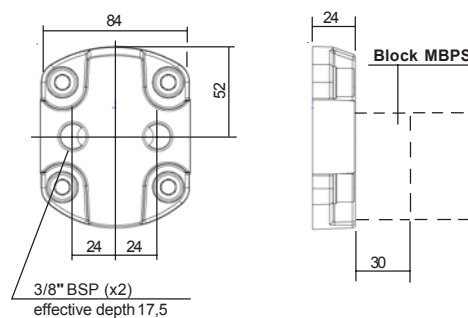
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1453 3/5



Consult us for availability

home

contents

previous

next

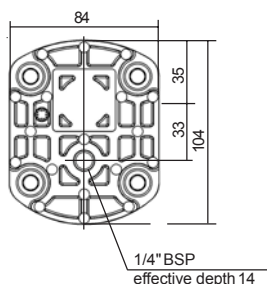
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

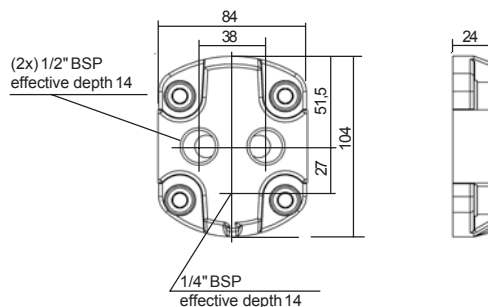
L

Standard



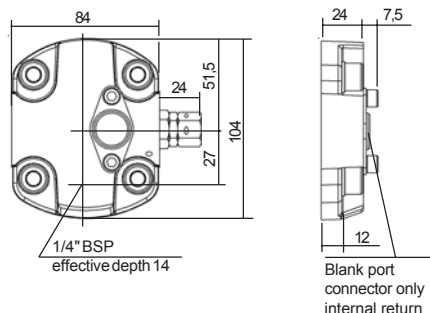
A

with ports



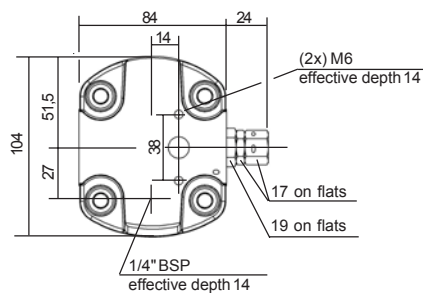
X

High pressure relief valve
(Adjustable) Internal return



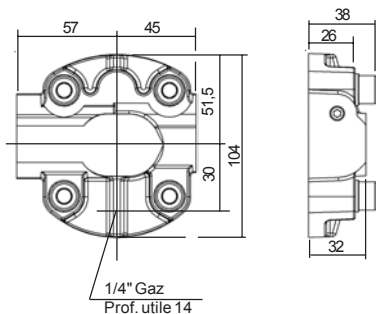
T

High pressure relief valve
(Adjustable) External return



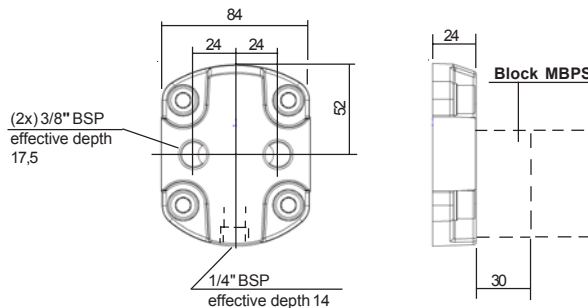
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured



Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

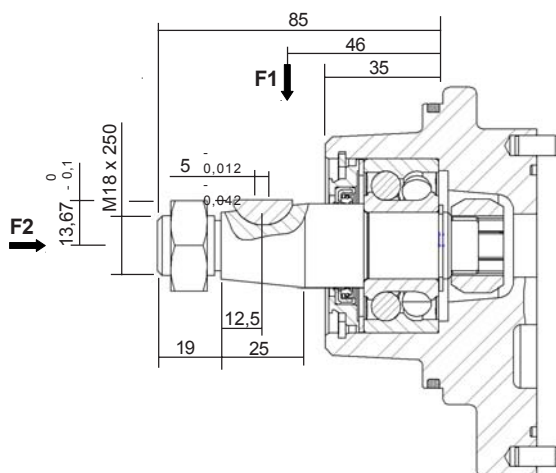
F.T 20 1453 4/5

DRIVING SHAFT

Tapered

10

C06 Taper 1 / 5



Delivered with nut: K106295

F1 Maxi: 350 daN

F2 Maxi: 50 daN

Maxi transmissible torque

70 m.daN

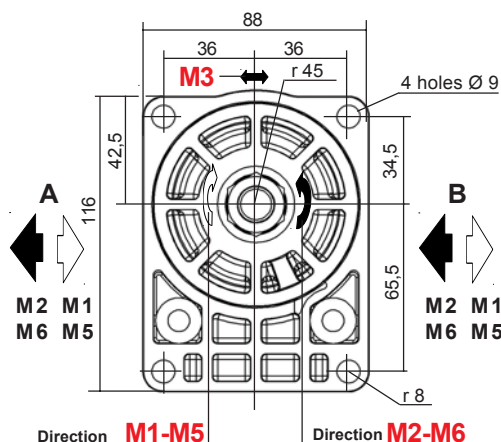
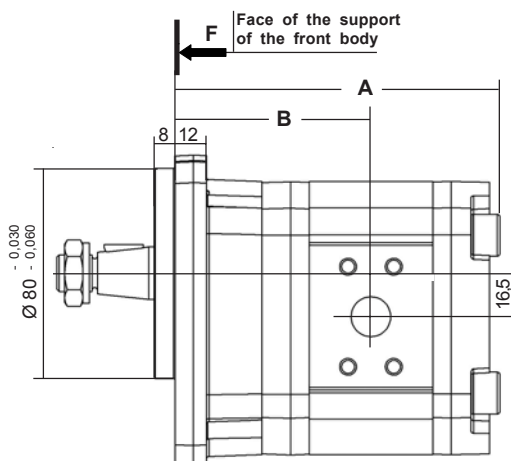
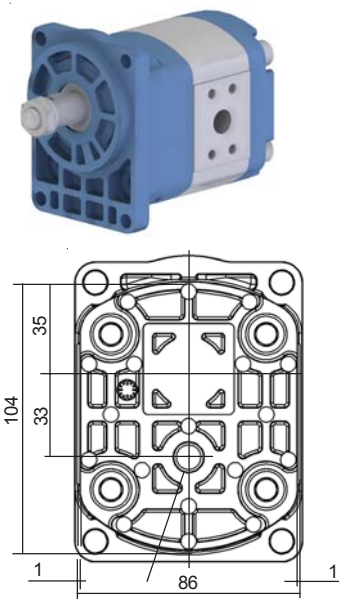
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1453 5/5

M II Sign **DBP** **2** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



CHOICE of the Capacity	Dimensions	
	A	B
006 - 008 - 010 012	123,5	74,5
014 - 015 - 017 018 - 022	138	82
026 - 030	154	90

Seals kits:
M1 - M2
Nitrile: K5069830 + K5069870
Viton: K5069840 + K5069880
(For manufacturer to since january 1984)
M3 - M5/M6
Nitrile: K5071069 + K5069870
Viton: K5071070 + K5069880
(For manufacturer to since february 1986)

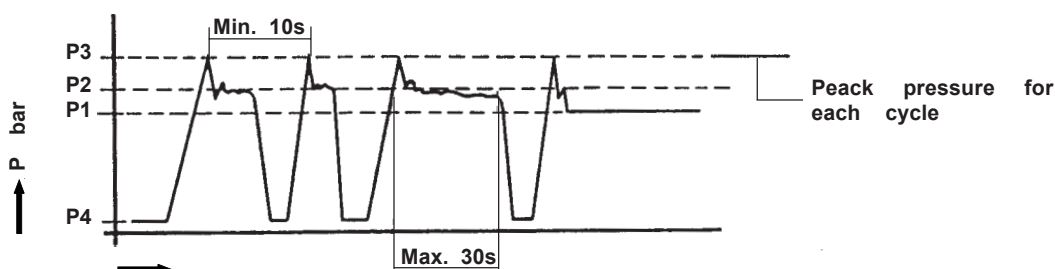
Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

MODEL	Capacity	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
	cc / rev	bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	2,7
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	2,8
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	2,8
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	2,8
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ²²⁵ bar	3500	3
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 ²²⁵ bar	3500	3,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 ²²⁵ bar	3500	3,2
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 ¹⁷⁵ bar		3500	3,3
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 ¹⁵⁰ bar		3500	3,4
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 ¹⁵⁰ bar		3500	3,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 ¹⁵⁰ bar		3500	3,9

On the hereunder indicated diagram, the maximum duty pressure are the following.

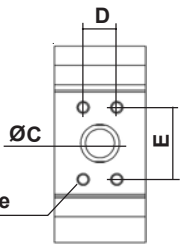
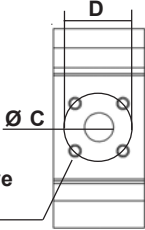
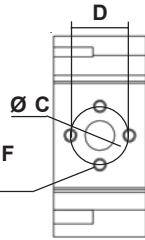
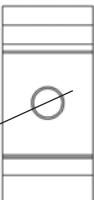
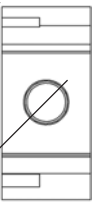
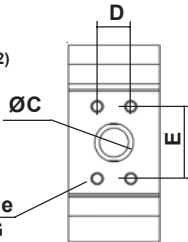
P1 Maximum pressure in continuous duty
P2 Maximum pressure in intermittent duty
P3 Max. Allowable peak pressure
P4 Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

	Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
												INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
H (HPI)  Ø F effective depth G	2006 to 2012 2014 to 2030 2512 to 2522	15	17,4	38	M6	12	20	17,4	38	M6	15	A	B	B	A	B	A
C (Square)  Ø F effective depth G	2006 to 2030 2512 to 2522	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
B (Italian)  4 holes Ø F effective depth G	2006 to 2012 2014 to 2030 2512 to 2522	15	30		M6	13	15	30		M6	13	A	B	B	A	B	A
F (Threaded)  Ø F effective depth G	2006 to 2012 2014 to 2022 2512				3/8" BSP	12				3/4" BSP	16	A	B	B	A	B	A
					1/2" BSP	14				1" BSP	18						
U (Threaded SAE J 475)  Ø F effective depth G	2006 to 2012 2014 to 2022 2512 2026-2030 2515 to 2522				7/8" 14 UNF 2B	17				1" 1/16 12 UNF 2B	20	A	B	B	A	B	A
					1" 5/16 12 UNF 2B	17				7/8" 14 UNF 2B	20						
					1" 1/16 12 UNF 2B	20				1" 5/16 12 UNF 2B	20						
Y (ISO 6162)  ØF effective depth G	2006 to 2012 2014 to 2022 2512 2026-2030 2515 to 2522	15	17,4	38	M8	14	20	17,4	38	M8	14	A	B	B	A	B	A
		15	17,4	38	M8	14	26	47,6	22,4	M10	14						
		15	17,4	38	M10	14	26	52,4	26,2	M10	14						
X (without ports) 	2006 to 2030 2512 to 2522	Only with rear body Type A															

PUBLISHING 01 / 2013

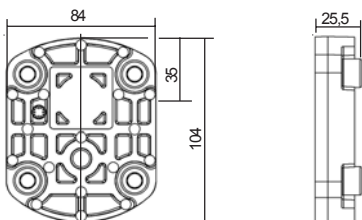
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1454 2/5

REAR BODIES for MOTORS M1 - M2

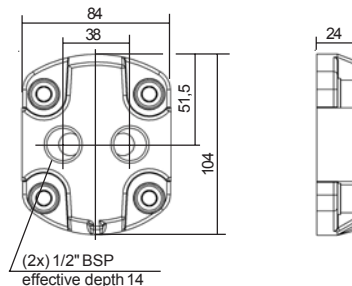
L

Standard



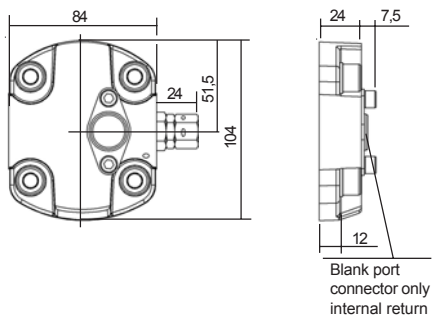
A

with ports



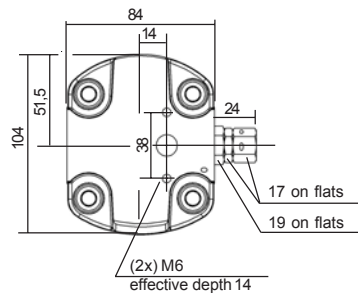
X

High pressure relief valve
(Adjustable) Internal return



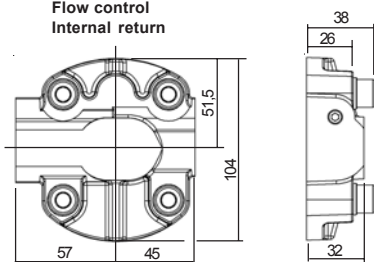
T

High pressure relief valve
(Adjustable) External return



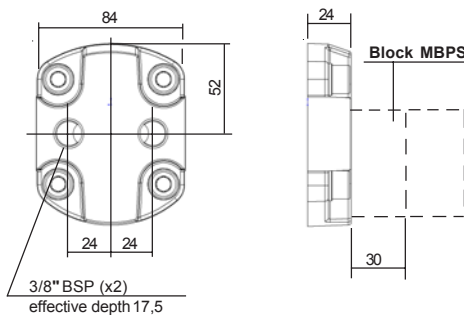
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1454 3/5

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

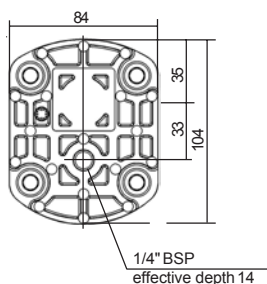
[main dimensions](#)

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

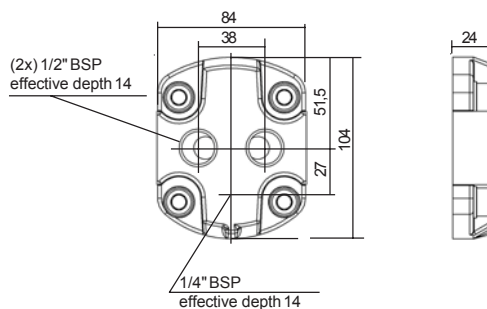
L

Standard



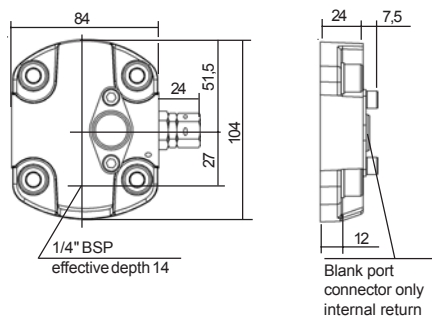
A

with ports



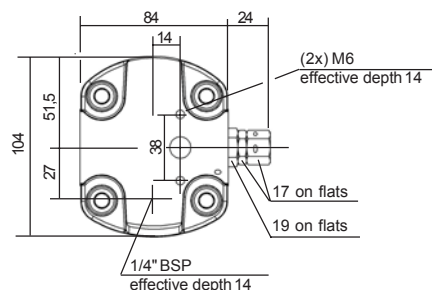
X

High pressure relief valve
(Adjustable) Internal return



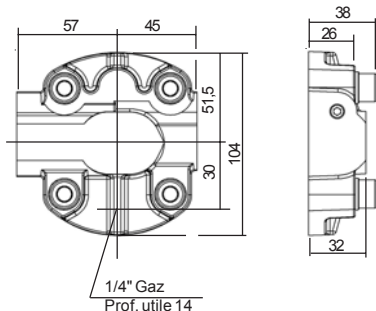
T

High pressure relief valve
(Adjustable) External return



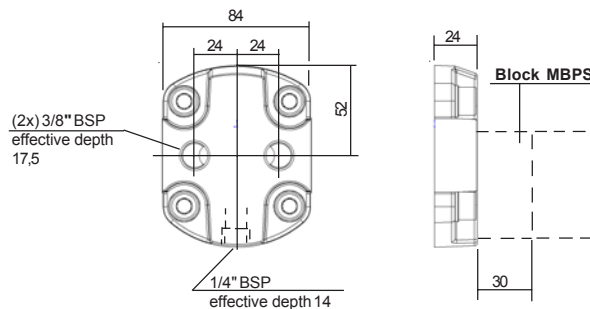
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Consult us for availability

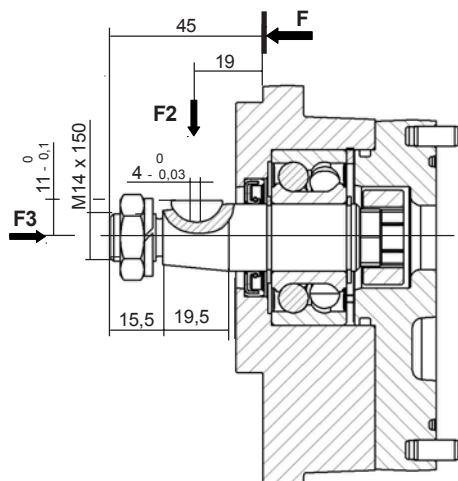
DRIVING SHAFTS

Tapered

10

C07

Taper 1 / 5



Delivered with Nut: K102045

F2 Maxi: 120 daN

F3 Maxi: 50 daN

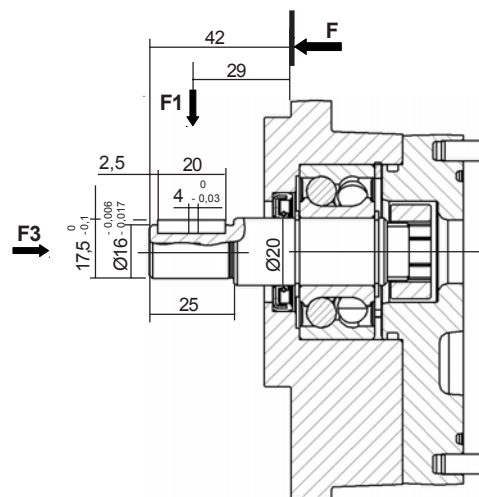
Maxi transmissible torque

50 N.m

Straight keyed

20

C15



F1 Maxi: 100 daN

F3 Maxi: 50 daN

Maxi transmissible torque

50 N.m

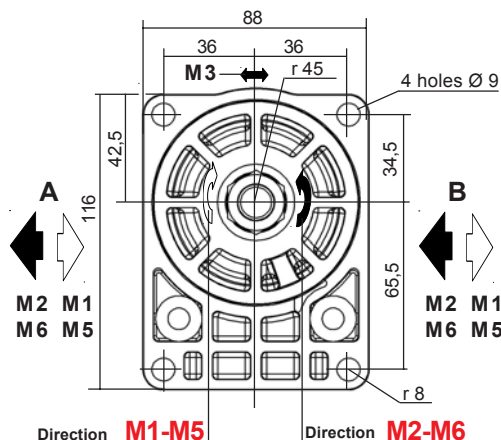
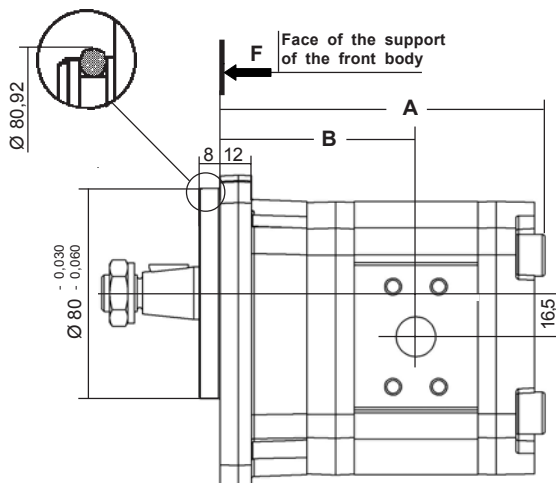
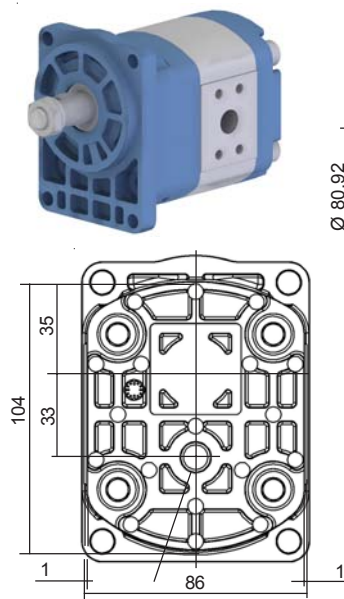
Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1454 5/5

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

For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



CHOICE of the Capacity	Dimensions	
	A	B
006 - 008 - 010 012	123,5	74,5
014 - 015 - 017 018 - 022	138	82
026 - 030	154	90

Seals kits:

M1 - M2
Nitrile: K5069830 + K5069870 + K101517
Viton: K5069840 + K5069880 + K104406
(For manufacturer to since january 1984)

M3 - M5/M6
Nitrile: K5071069 + K5069870 + K101517
Viton: K5071070 + K5069880 + K104406
(For manufacturer to since february 1986)

Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

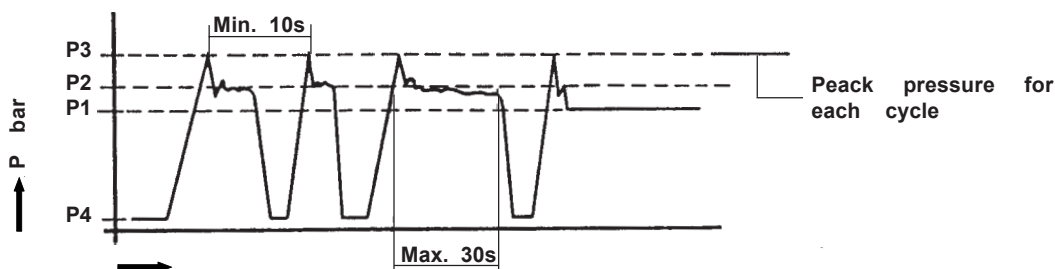
Max. tightening torque of the connexion
35 N.m

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2006	6,45	200	2900	230	3335	250	3625	3000	3200	500	1200	1400	4000	2,7
2008	8,25	200	2900	230	3335	250	3625	3000	3200	500	1000	1400	4000	2,8
2010	10,12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	2,8
2012	12	200	2900	230	3335	250	3625	3000	3200	500	1000	1200	4000	2,8
2014	13,8	185	2682	200	2900	225	3262	3000	3000	500	800	1000 225 bar	3500	3
2015	15,52	185	2682	200	2900	225	3262	3000	3000	500	800	1000 225 bar	3500	3,1
2017	17,3	150	2175	175	2537	200	2900	3000	3000	500	800	1000 225 bar	3500	3,2
2018	19,12	125	1812	150	2175	175	2537	3000	2800	500	800 175 bar	150 bar	3500	3,3
2022	22,87	100	1450	125	1812	150	2175	3000	2800	500	800 150 bar	150 bar	3500	3,4
2026	27,6	100	1450	125	1812	150	1450	3000	2600	500	800 150 bar	150 bar	3500	3,8
2030	31,2	100	1450	125	1812	150	1450	3000	2300	500	800 150 bar	150 bar	3500	3,9

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

Port connector, see our Catalogue N° 70

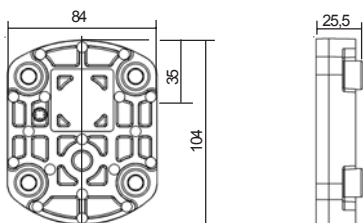
1 way rotation with counter pressure				pressure	
M5		M6		M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET

188 / 00

REAR BODIES for MOTORS M1 - M2

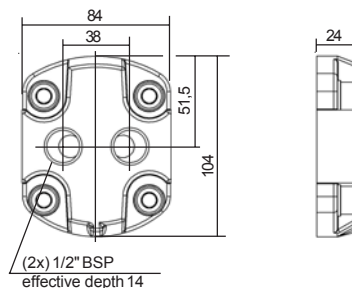
L

Standard



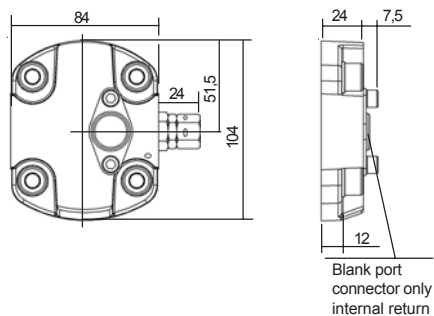
A

with ports



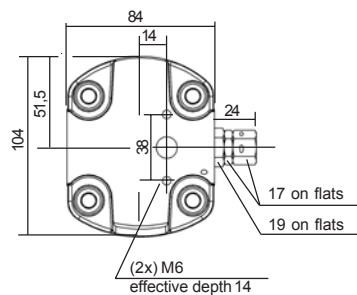
X

High pressure relief valve
(Adjustable) Internal return



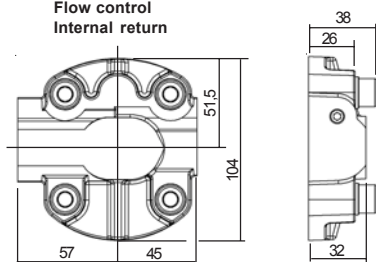
T

High pressure relief valve
(Adjustable) External return



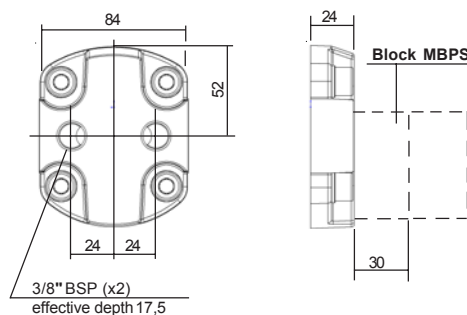
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 20 1455 3/5



Consult us for availability

home

contents

previous

next

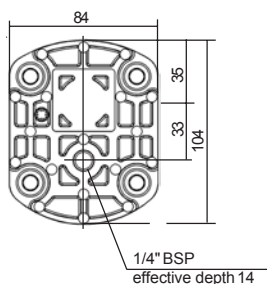
main dimensions

PUBLISHING 02/2012

REAR BODIES for MOTORS M3 - M5 - M6

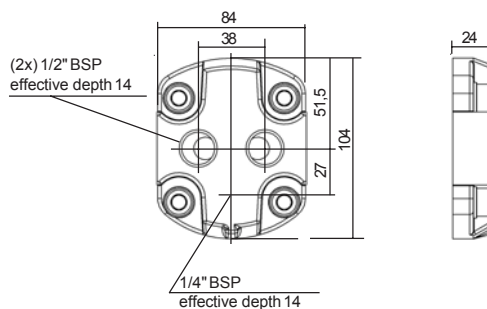
L

Standard



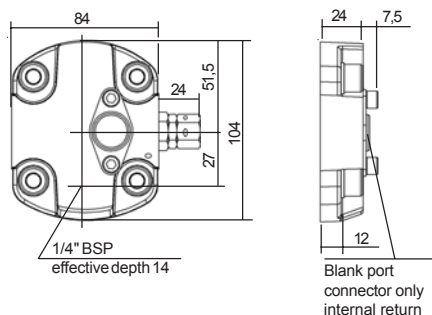
A

with ports



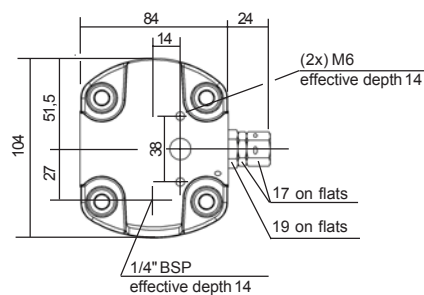
X

High pressure relief valve
(Adjustable) Internal return



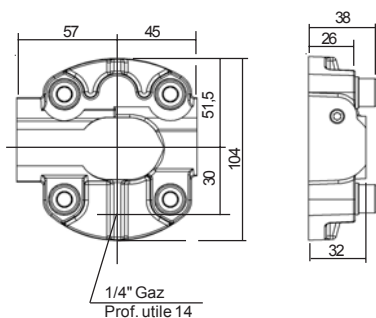
T

High pressure relief valve
(Adjustable) External return



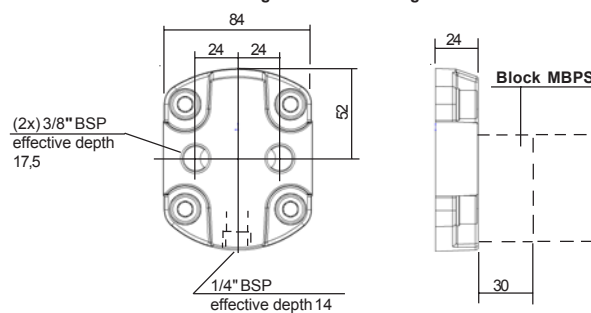
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Consult us for availability

DRIVING SHAFTS

Tapered

10

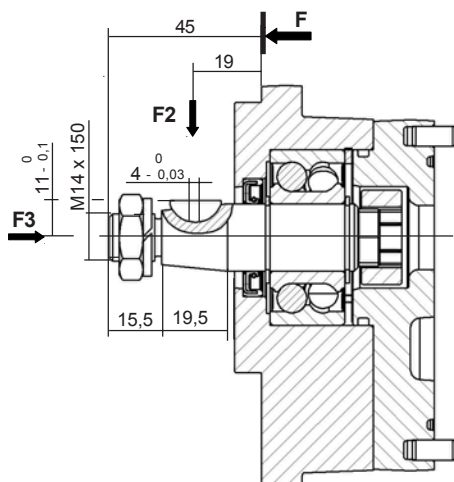
Straight keyed

20

C07

Taper 1 / 5

C15



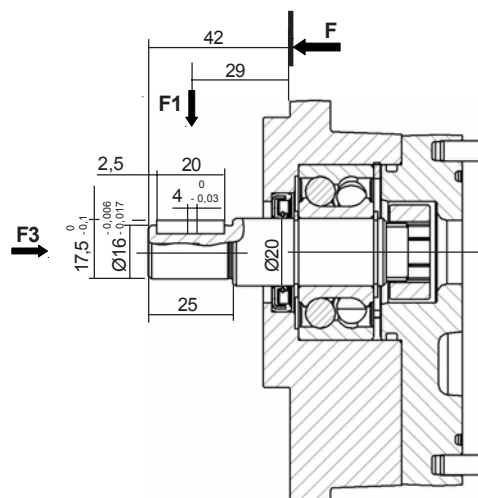
Delivered with Nut: K102045

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 20 1455 5/5

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

PUBLISHING 02 / 2012

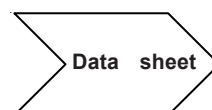


F.T 20 1433

MOTORS PRESENTATION SERIES 2 and 2,5

- FLAT FRONT BODIES

MOTOR **AAAN**



F.T 25 1456

MOTOR **AAK**



F.T 25 1457

MOTOR **AFN**



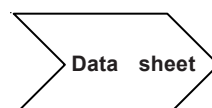
F.T 25 1458

MOTOR **APK**



F.T 25 1459

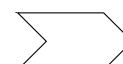
MOTOR **BAN**



F.T 25 1460



Consult us for availability



- FLAT FRONT BODIES (rest)

MOTOR

CAN



Data sheet

F.T 25 1461

MOTOR

CEN



Data sheet

F.T 25 1462

MOTOR

CEK



Data sheet

F.T 25 1463

MOTOR

DBN



Data sheet

F.T 25 1464

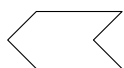
MOTOR

DBK

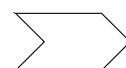


Data sheet

F.T 25 1465

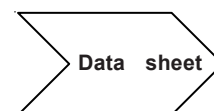


Consult us for availability



- FLAT FRONT BODIES (rest)

MOTOR **DCN**



F.T 25 1466

MOTOR **DCK**



F.T 25 1467

MOTOR **DUK**



F.T 25 1468

MOTOR **DWN**

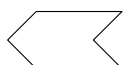


F.T 25 1469

MOTOR **DZK**



F.T 25 1470

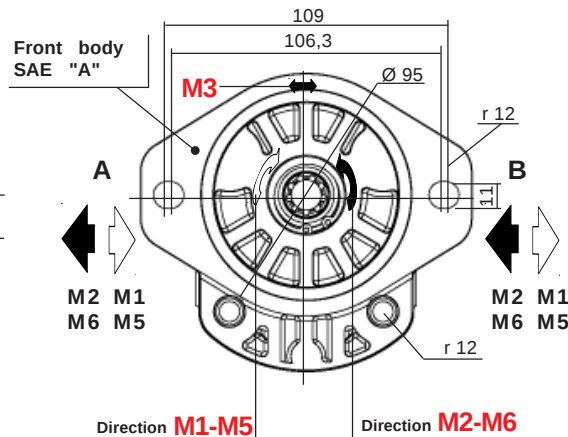
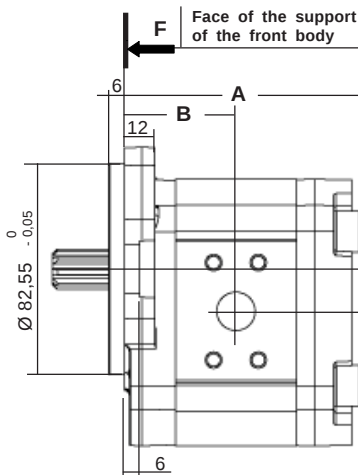
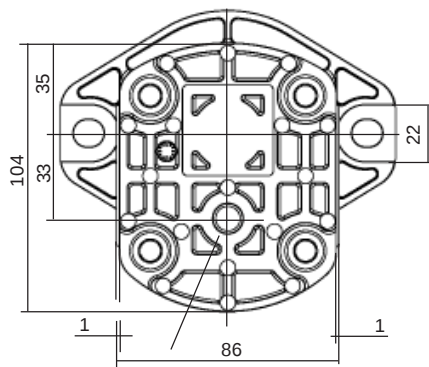


Consult us for availability



For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

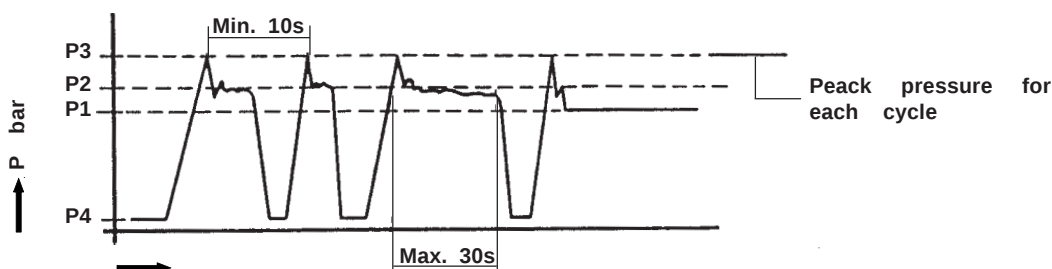
CHOICE of the Capacity	Dimensions	
	A	B
12	107	51
15 - 17 - 18 - 22	123	59

Seals kits:
M1 - M2
Nitrile: **K5069810** Viton: **K5069820**
(For manufacture to since january 1984)
M3 - M5/M6
Nitrile: **K5071067** Viton: **K5071068**
(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,3
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	2,6
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	2,7
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}		3500	2,7
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}		3500	2,8

On the hereunder indicated diagram, the maximum duty pressure are the following.

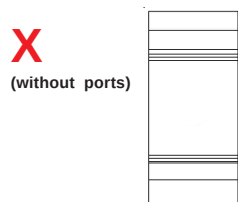
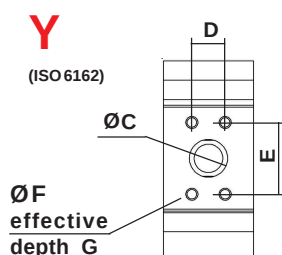
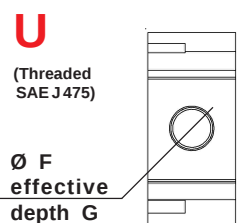
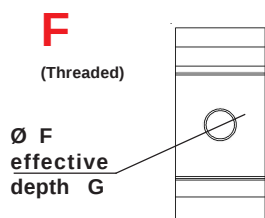
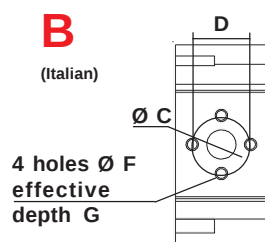
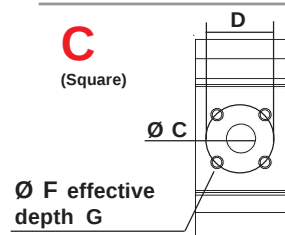
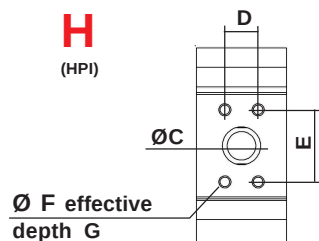
- P1 Maximum pressure in continuous duty
P2 Maximum pressure in intermittent duty
P3 Max. Allowable peak pressure
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
											INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
2512 to 2522	15	17,4	22,4	M6	12	26	47,6	22,4	M6	12	A	B	B	A	B	A
2512 to 2522	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
2512 to 2522	15	30		M6	13	23,5	40		M8	13	A	B	B	A	B	A
2512 to 2522				1/2" BSP	14				1" BSP	18	A	B	B	A	B	A
2512				7/8" 14 UNF 2B	17				1"5/16 12 UNF	20	A	B	B	A	B	A
2515 to 2522				1"1/16 12 UNF 2B	20				1"5/16 12 UNF 2B	20						
2512	15	17,4	38	M10	14	26	47,6	22,4	M8	14	A	B	B	A	B	A
2515 to 2522	15	17,4	38	M8	14	26	52,4	26,2	M10	14						
2512 to 2522	Only with rear body Type A															
PUBLISHING 01 / 2013																

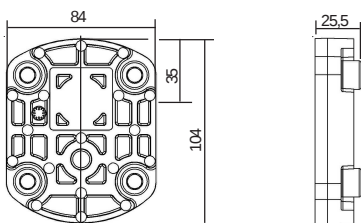
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1456 2/5

REAR BODIES for MOTORS M1 - M2

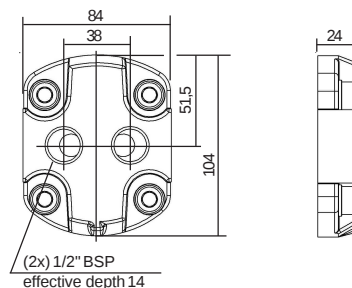
L

Standard



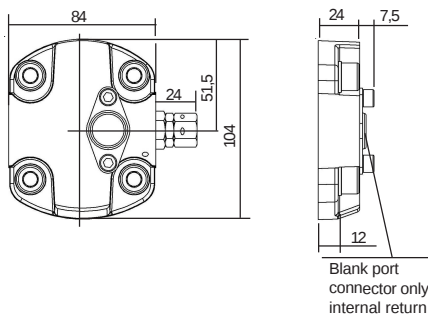
A

with ports



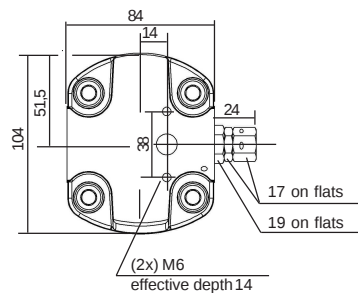
X

High pressure relief valve
(Adjustable) Internal return



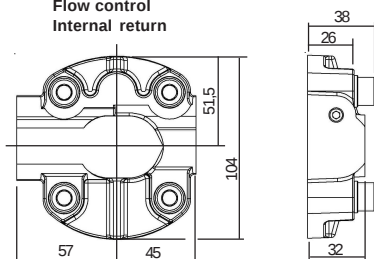
T

High pressure relief valve
(Adjustable) External return



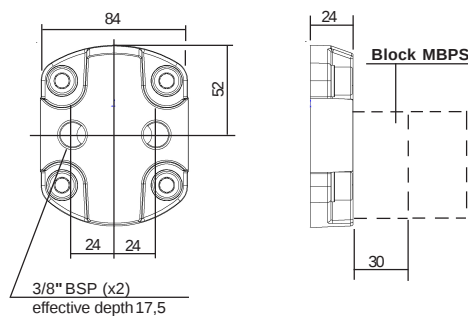
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1456 3/5

Consult us for availability

home

contents

previous

next

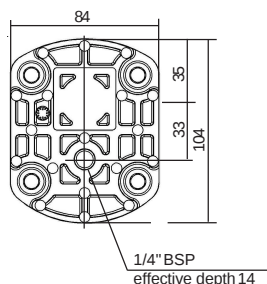
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

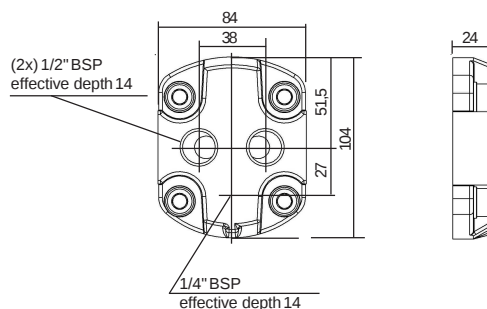
L

Standard



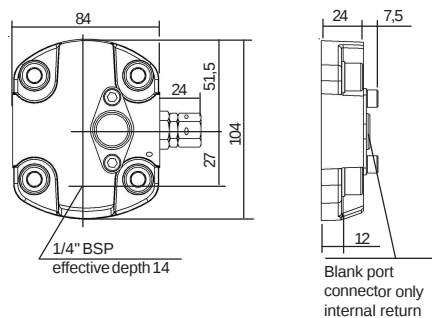
A

with ports



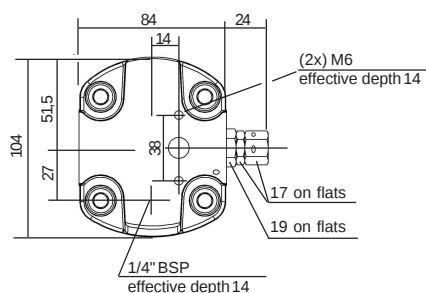
X

High pressure relief valve
(Adjustable) Internal return



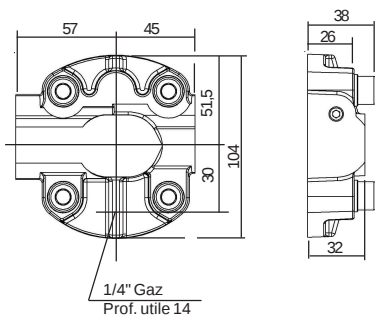
T

High pressure relief valve
(Adjustable) External return



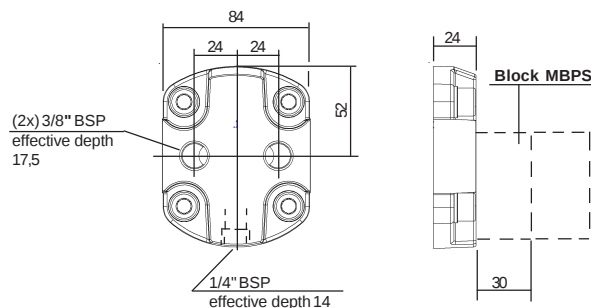
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured



Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

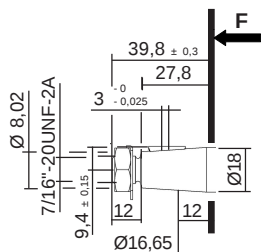
F.T 25 1456 4/5

DRIVING SHAFT

Tapered

10

B02 Cône 1 / 8

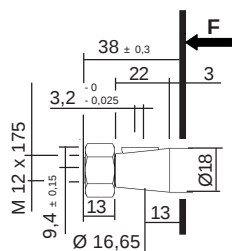


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

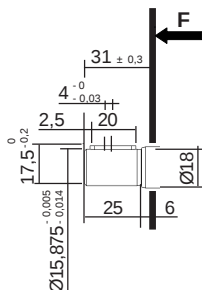
Maxi transmissible torque

220 N.m

Straight keyed

20

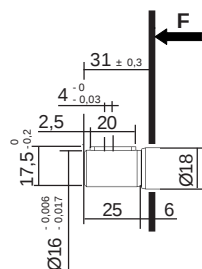
A01



Maxi transmissible torque

50 N.m

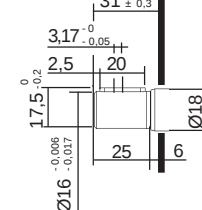
C02



Maxi transmissible torque

50 N.m

A08



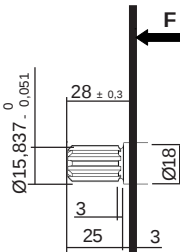
Maxi transmissible torque

50 N.m

Splined

30

A01

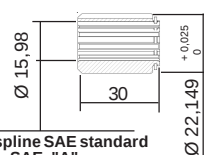


Involute spline SAE Standard
9 teeth - Pitch 16/32 - Flat root
30° Pressure angle

Maxi transmissible torque

100 N.m

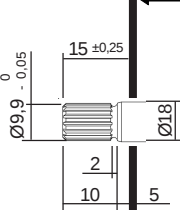
Sleeve coupling 9 teeth / 13 teeth
Ref.: K.5041310
Mounting with splinned shaft **30 A01**



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

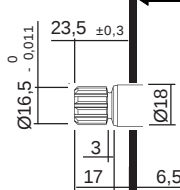


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

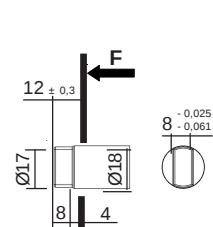
Maxi transmissible torque

100 N.m

Tang

40

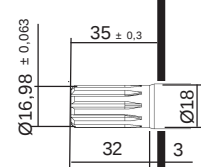
C03



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 1456 5/5

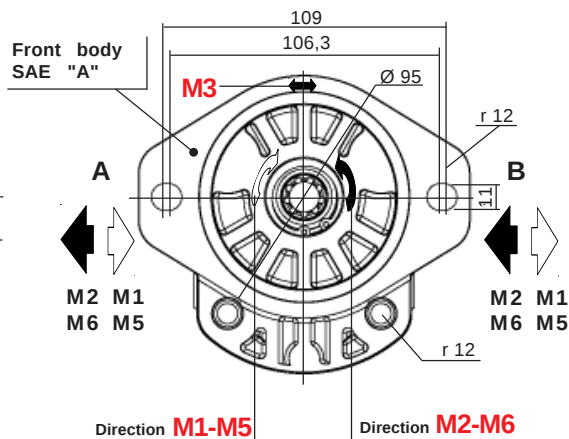
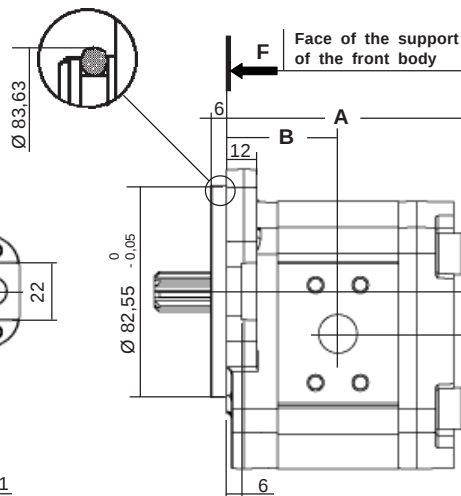
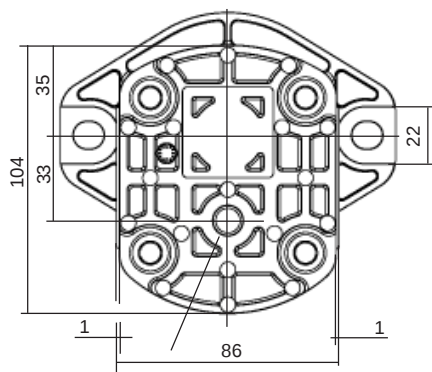


Consult us for availability

M II Sign **AA** **K** **25** VI Sign **H** **L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity

Dimensions

	A	B
12	107	51
15 - 17 - 18 - 22	123	59

Seals kits:

M1 - M2

Nitrile: **K5069810 + K102901**

Viton: **K5069820 + K104093**

(For manufacturer to since january 1984)

M3 - M5/M6

Nitrile: **K5071067 + K102901**

Viton: **K5071068 + K104093**

(For manufacturer to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,3
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	2,6
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	2,7
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}		3500	2,7
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}		3500	2,8

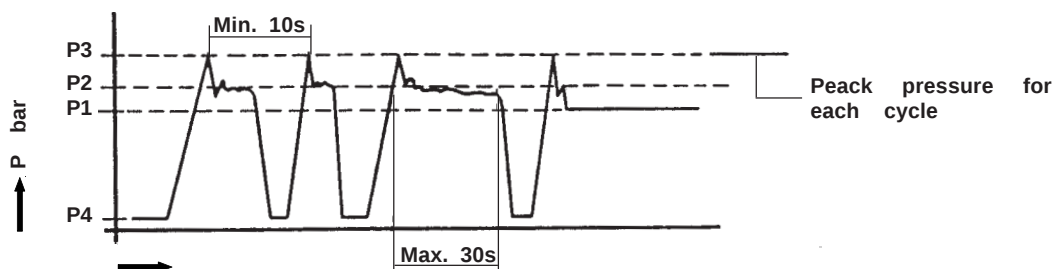
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

home

contents

previous

next

main dimensions

PUBLISHING 02 / 2012

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

AFFECTATION																								
1 way rotation without counter pressure M1								2 ways rotation with counter pressure M2																
ENTREE				SORTIE				ENTREE				SORTIE												
1 way rotation with counter pressure M5								M3																
INLET				OUTLET				INLET				OUTLET												
INLET				OUTLET				INLET				OUTLET												
2	A				B				B				A				B				A			
2	A				B				B				A				B				A			
3	A				B				B				A				B				A			
3	A				B				B				A				B				A			
0	A				B				B				A				B				A			
4	A				B				B				A				B				A			



Consult us for availability

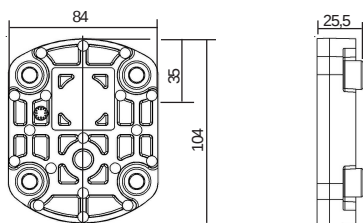
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1457 2/5

REAR BODIES for MOTORS M1 - M2

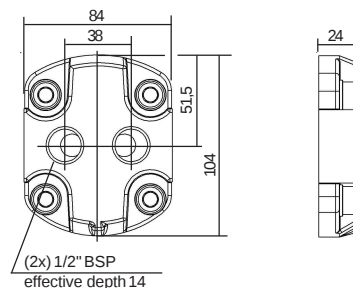
L

Standard



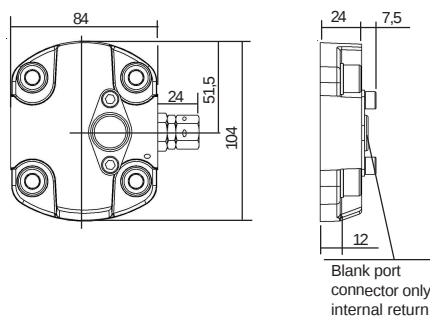
A

with ports



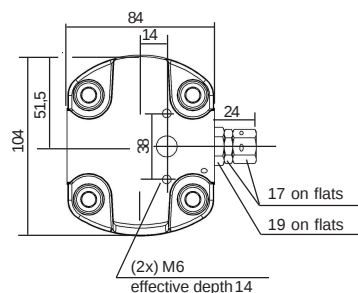
X

High pressure relief valve
(Adjustable) Internal return



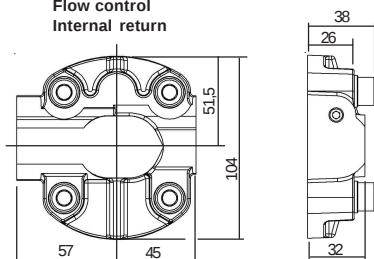
T

High pressure relief valve
(Adjustable) External return



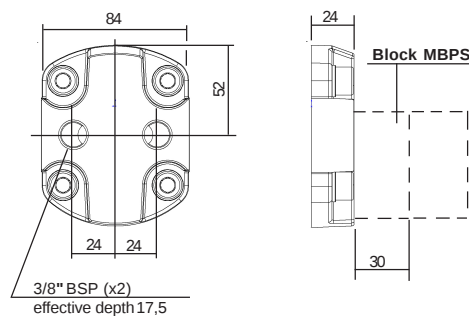
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1457 3/5

Consult us for availability

home

contents

previous

next

main dimensions

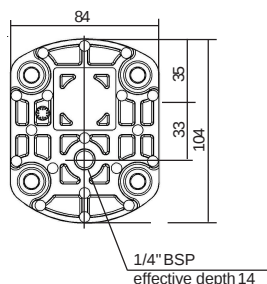
PUBLISHING 02 / 2012

202
/ 00

REAR BODIES for MOTORS M3 - M5 - M6

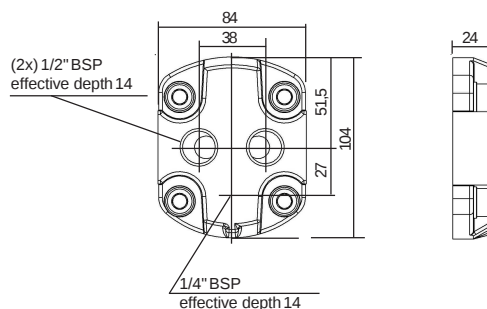
L

Standard



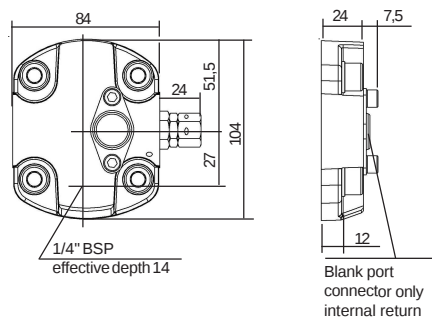
A

with ports



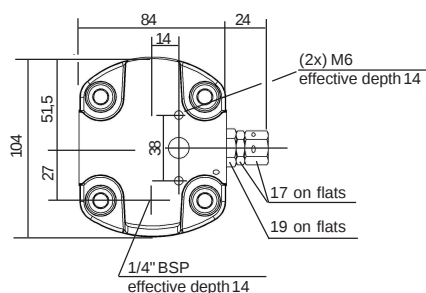
X

High pressure relief valve
(Adjustable) Internal return



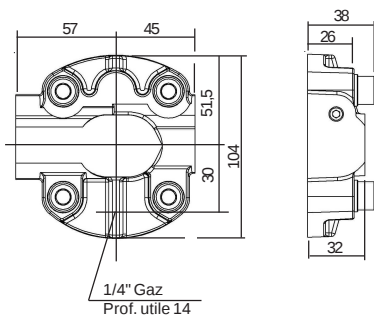
T

High pressure relief valve
(Adjustable) External return



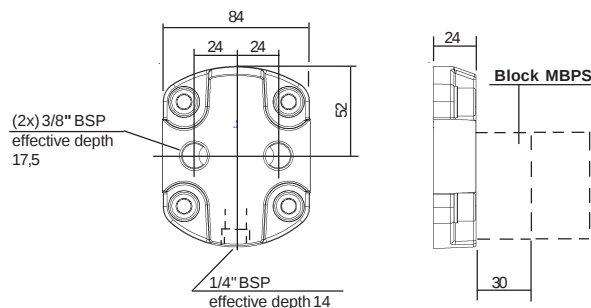
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1457 4/5

Consult us for availability

home

contents

previous

next

main dimensions

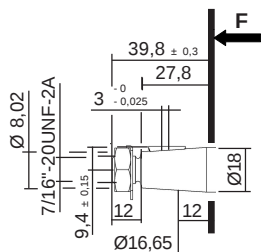
PUBLISHING 02 / 2012

DRIVING SHAFT

Tapered

10

B02 Cône 1 / 8

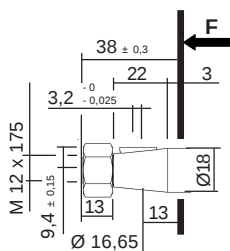


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

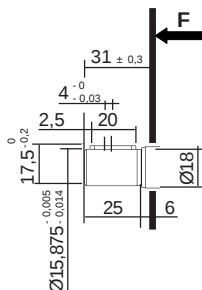
Maxi transmissible torque

220 N.m

Straight keyed

20

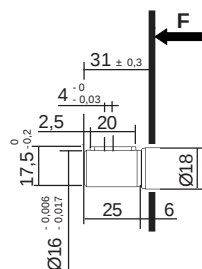
A01



Maxi transmissible torque

50 N.m

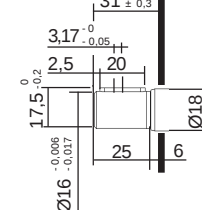
C02



Maxi transmissible torque

50 N.m

A08



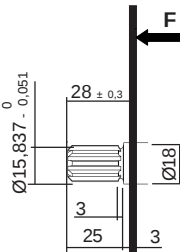
Maxi transmissible torque

50 N.m

Splined

30

A01

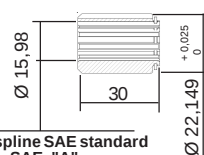


Involute spline SAE Standard
9 teeth - Pitch 16/32 - Flat root
30° Pressure angle

Maxi transmissible torque

100 N.m

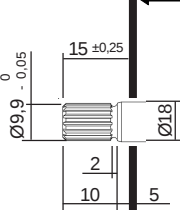
Sleeve coupling 9 teeth / 13 teeth
Ref.: K.5041310
Mounting with splinned shaft **30 A01**



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

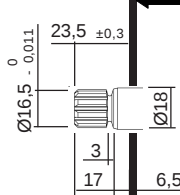


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

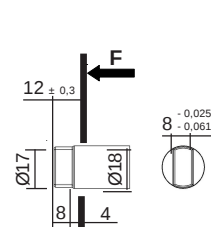
Maxi transmissible torque

100 N.m

Tang

40

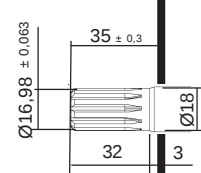
C03



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.

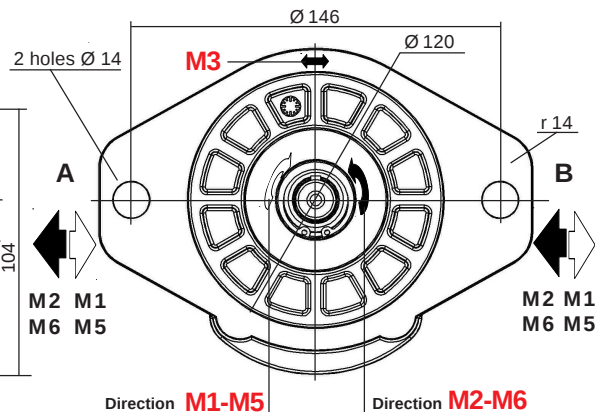
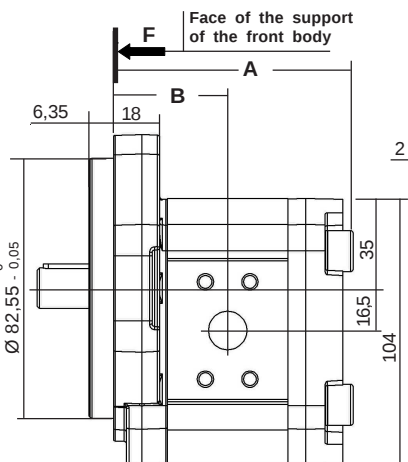
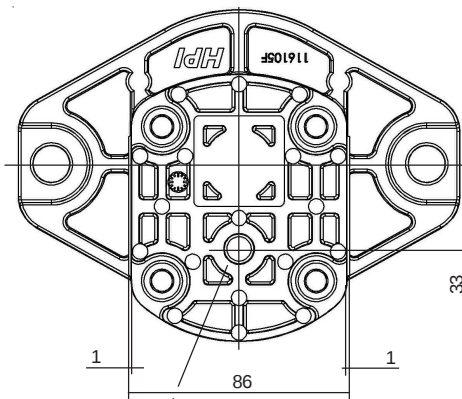
F.T 25 1457 5/5

Consult us for availability

M II Sign **AF N 25** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity

Dimensions

	A	B
12	108	52
15 - 17 - 18 - 22	124	60

Seals kits:

M1 - M2

Nitrile: **K5069810** Viton: **K5069820**

(For manufacture to since january 1984)

M3 - M5/M6

Nitrile: **K5071067** Viton: **K5071068**

(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,3
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ²²⁵ bar	3500	2,6
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ²²⁵ bar	3500	2,7
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ¹⁷⁵ bar	1500 ¹⁵⁰ bar	3500	2,7
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ¹⁵⁰ bar	1500 ¹⁵⁰ bar	3500	2,8

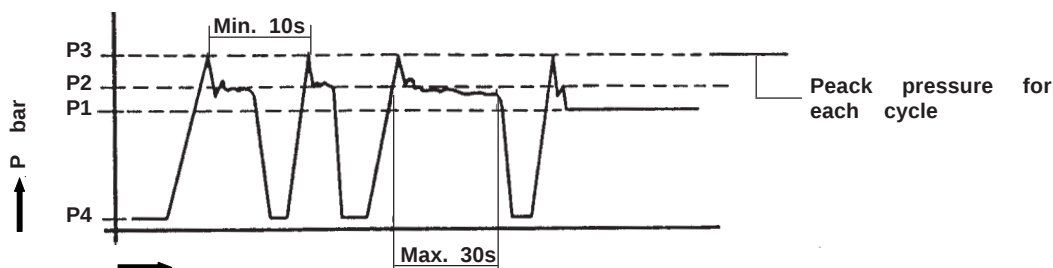
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



F.T 25 1458 1/5

Consult us for availability

home

contents

previous

next

main dimensions

PUBLISHING 02 / 2012

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

AFFECTATION													
1 way rotation without counter pressure								2 ways rotation with counter pressure					
M1				M2									
ENTREE		SORTIE		ENTREE		SORTIE							
1 way rotation with counter pressure								M3					
M5				M6									
INLET		OUTLET		INLET		OUTLET		INLET		OUTLET			
2		A		B		B		A		B		A	
2		A		B		B		A		B		A	
3		A		B		B		A		B		A	
3		A		B		B		A		B		A	
0		A		B		B		A		B		A	
4		A		B		B		A		B		A	
4		A		B		B		A		B		A	

Dimensions readings and approximative characteristics subject to modifications.

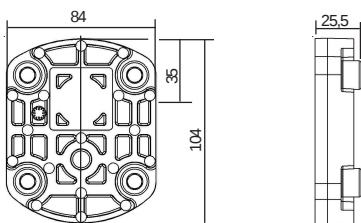
F.T 25 1458 2/5


Consult us for availability

REAR BODIES for MOTORS M1 - M2

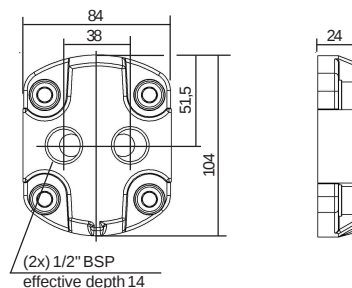
L

Standard



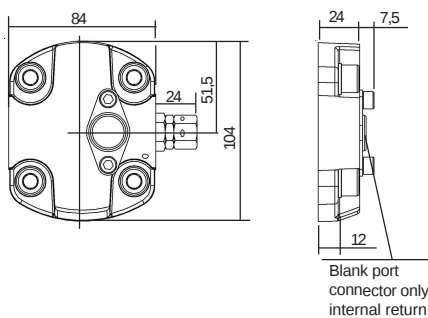
A

with ports



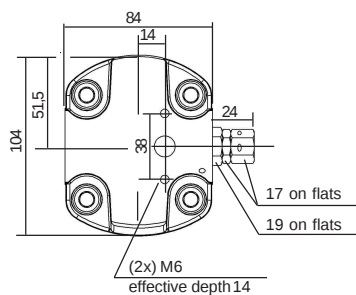
X

High pressure relief valve
(Adjustable) Internal return



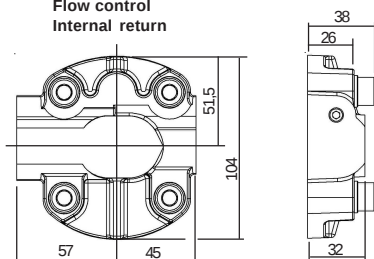
T

High pressure relief valve
(Adjustable) External return



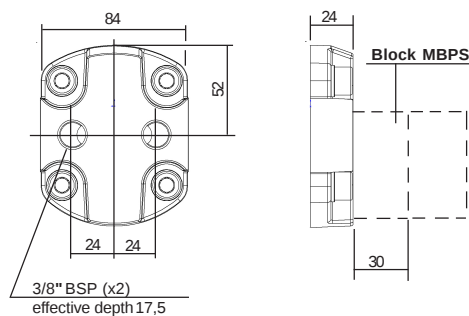
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1458 3/5



Consult us for availability

home

contents

previous

next

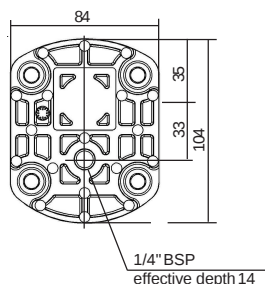
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

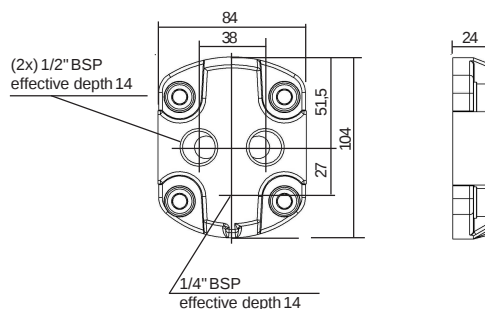
L

Standard



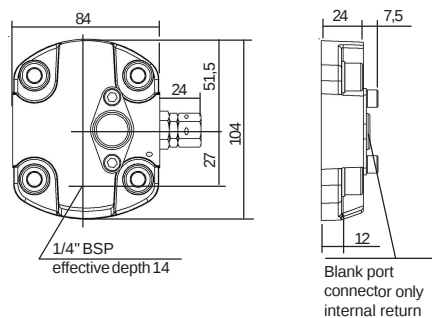
A

with ports



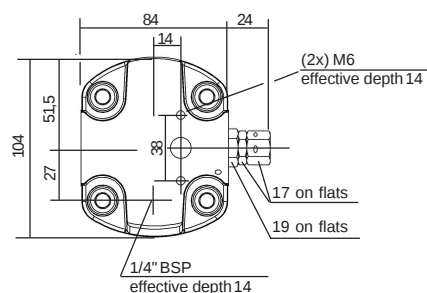
X

High pressure relief valve
(Adjustable) Internal return



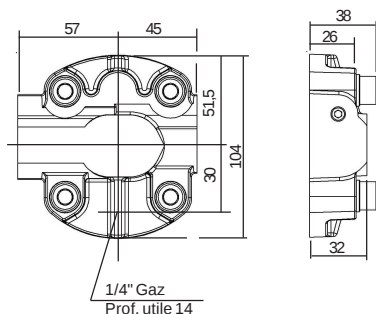
T

High pressure relief valve
(Adjustable) External return



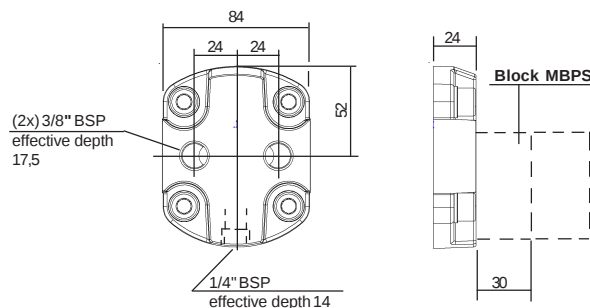
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1458 4/5



Consult us for availability

home

contents

previous

next

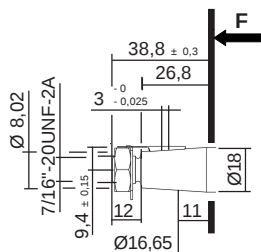
main dimensions

DRIVING SHAFT

Tapered

10

B02 Cône 1 / 8

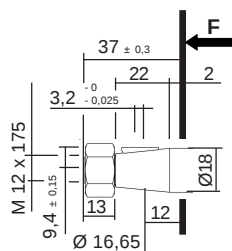


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

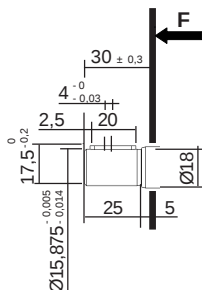
Maxi transmissible torque

220 N.m

Straight keyed

20

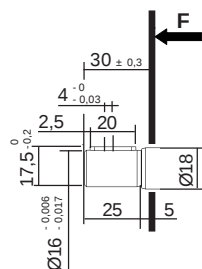
A01



Maxi transmissible torque

50 N.m

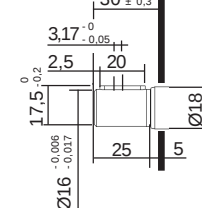
C02



Maxi transmissible torque

50 N.m

A08



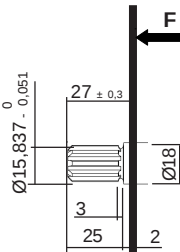
Maxi transmissible torque

50 N.m

Splined

30

A01



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

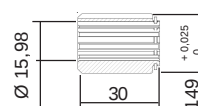
Maxi transmissible torque

100 N.m

Sleeve coupling 9 teeth / 13 teeth

Ref.: K.5041310

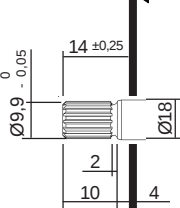
Mounting with splinned shaft **30 A01**



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

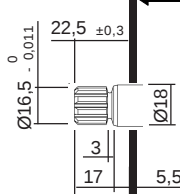


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

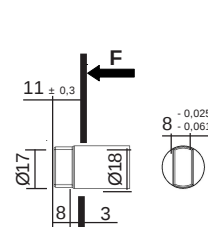
Maxi transmissible torque

100 N.m

Tang

40

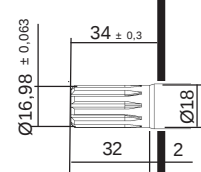
C03



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

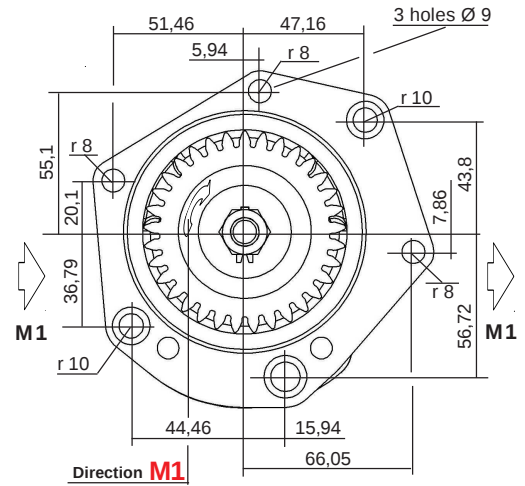
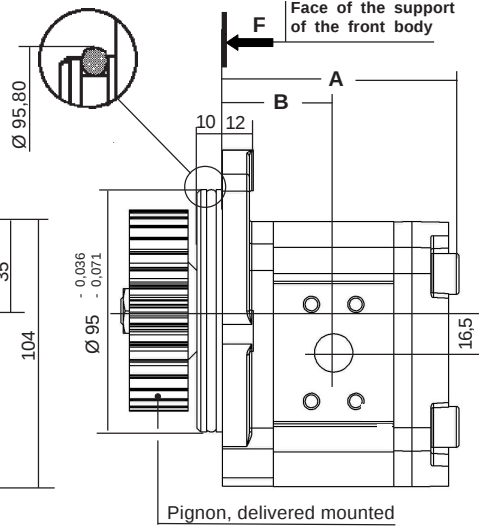
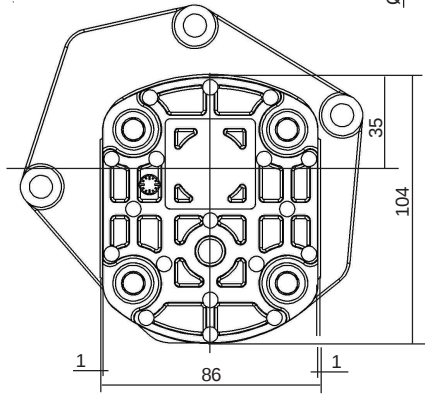
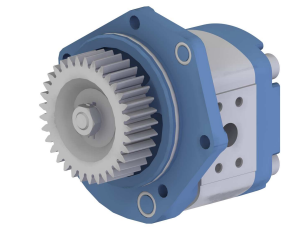
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1458 5/5

Consult us for availability

M 1 A P K 25 VI Sign **H L P P100 *** XI Sign

For CODIFICATION, see data sheet **F.T R 0243**



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

Seals kits:

M1

Nitrile: **K5069810 + X368928**

Viton: **K5069820**

(For manufacture to since january 1984)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,3
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	2,6
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	2,7
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}		3500	2,7
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}		3500	2,8

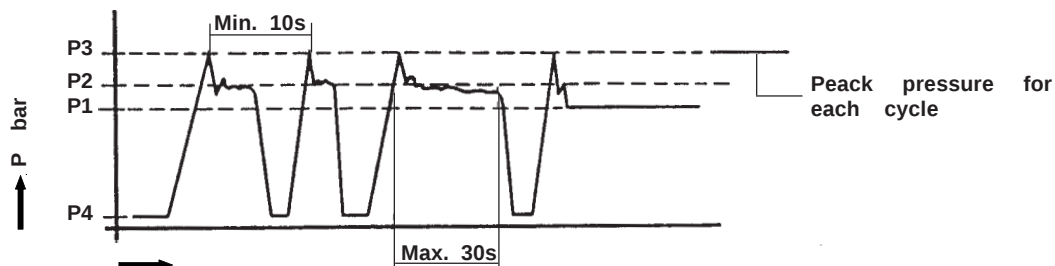
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

home

contents

previous

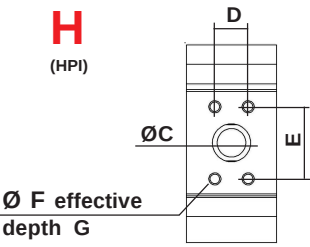
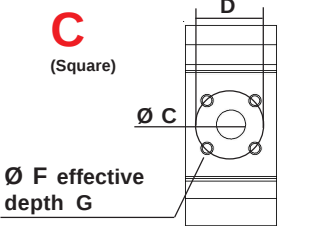
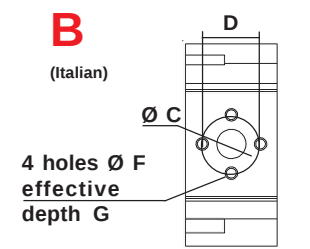
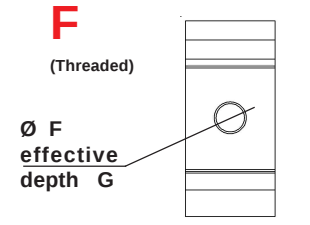
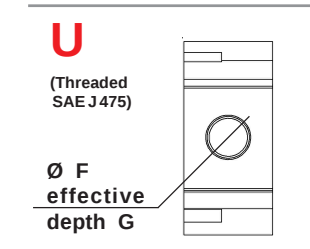
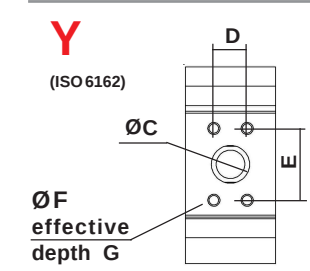
next

main dimensions

PUBLISHING 02 / 2012

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

	Capacity	INLET					OUTLET				
		ØC	D	E	ØF	G	ØC	D	E	ØF	G
H (HPI) 	2512 to 2522	15	17,4	38	M6	12	26	47,6	22,4	M6	12
C (Square) 	2512 to 2522	15	35		M6	12	20	40		M6	12
B (Italian) 	2512 to 2522	15	30		M6	13	23,5	40		M8	13
F (Threaded) 	2512 to 2522				1/2" BSP	14				1" BSP	18
U (Threaded SAE J475) 	2512				7/8" 14 UNF 2B	17				1"5/16 12 UNF 2B	20
	2515 to 2522				1"1/16 12 UNF 2B	20				1"5/16 12 UNF 2B	20
Y (ISO 6162) 	2512	15	17,4	38	M8	14	26	47,6	22,4	M10	14
	2515 to 2522	15	17,4	38	M8	14	15	52,4	26,2	M10	14

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1459 2/4


Consult us for availability

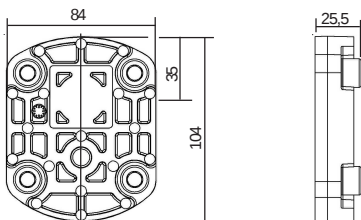
[home](#)
[contents](#)
[previous](#)
[next](#)
[main dimensions](#)

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M1 - M2

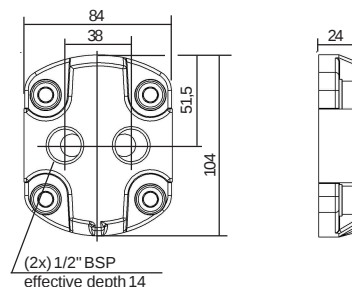
L

Standard



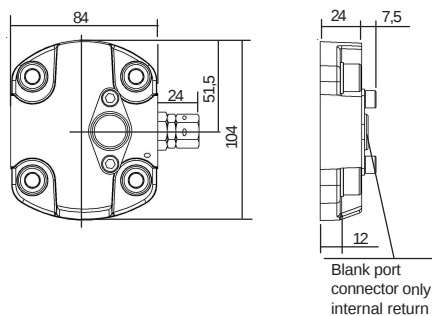
A

with ports



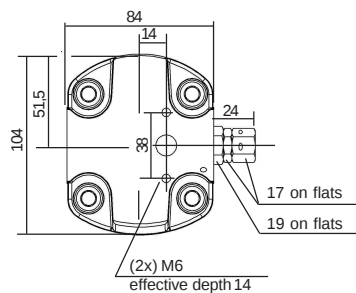
X

High pressure relief valve
(Adjustable) Internal return



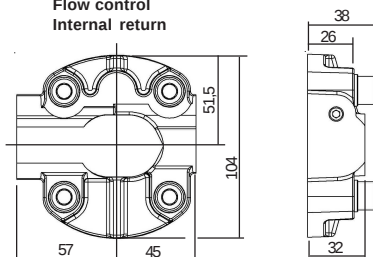
T

High pressure relief valve
(Adjustable) External return



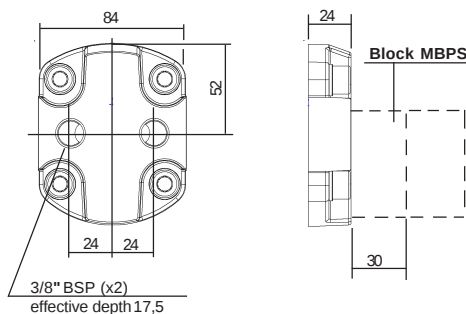
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1459 3/4



Consult us for availability

home

contents

previous

next

main dimensions

PUBLISHING 02 / 2012

DRIVING SHAFT

Tapered

10

Straight keyed

20

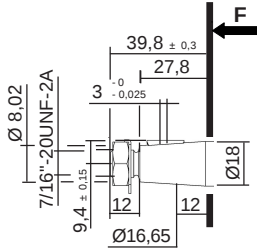
Splined

30

Tang

40

B02 Cône 1 / 8



Delivered with nut: K100841

Maxi transmissible torque

250 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1459 4/4



Consult us for availability

[home](#)

[contents](#)

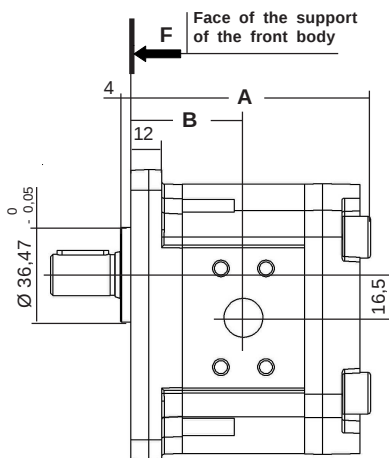
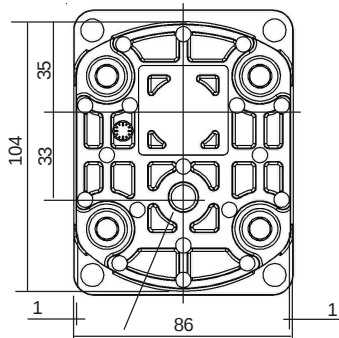
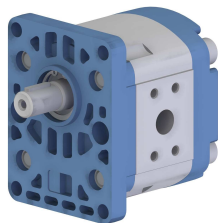
[previous](#)

[next](#)

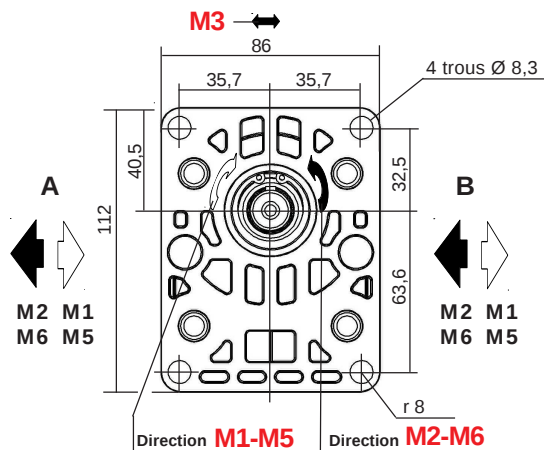
[main dimensions](#)

M II Sign **BA** **N** **25** VI Sign **H** **L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0243**



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity

Dimensions

	A	B
12	107	51
15 - 17 - 18 - 22	123	59

Seals kits:

M1 - M2

Nitrile: **K5069810** Viton: **K5069820**

(For manufacture to since january 1984)

M3 - M5/M6

Nitrile: **K5071067** Viton: **K5071068**

(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,3
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	2,6
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	2,7
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}		3500	2,7
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}		3500	2,8

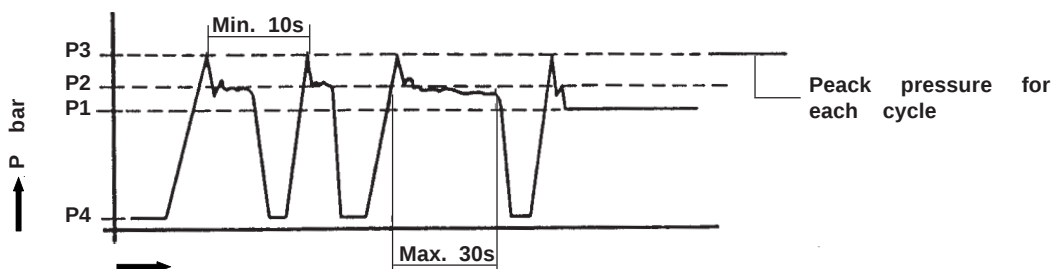
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

home

contents

previous

next

main dimensions

PUBLISHING 02 / 2012

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

AFFECTATION														
1 way rotation without counter pressure M1 ENTREE SORTIE								2 ways rotation with counter pressure M2 ENTREE SORTIE						
1 way rotation with counter pressure M5 INLET OUTLET								1 way rotation with pressure M6 INLET OUTLET				M3 INLET OUTLET		
5		Capacity 2512 to 2522	INLET					OUTLET					A	B
			ØC	D	E	ØF	G	ØC	D	E	ØF	G		
2		Capacity 2512 to 2522	A	B	B	A	B	A	B	A	B	A		
3		Capacity 2512 to 2522	A	B	B	A	B	A	B	A	B	A		
3		Capacity 2512 to 2522	A	B	B	A	B	A	B	A	B	A		
0		Capacity 2512 to 2522	A	B	B	A	B	A	B	A	B	A		
4		Capacity 2512 to 2522	A	B	B	A	B	A	B	A	B	A		
4		Capacity 2512 to 2522	A	B	B	A	B	A	B	A	B	A		

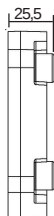
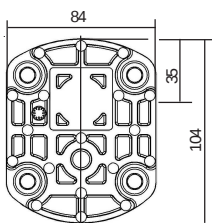
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1460 2/5

REAR BODIES for MOTORS M1 - M2

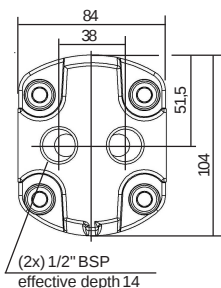
L

Standard



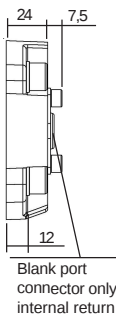
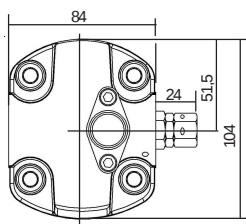
A

with ports



X

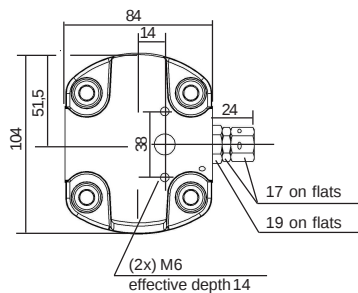
High pressure relief valve
(Adjustable) Internal return



Blank port
connector only
internal return

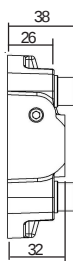
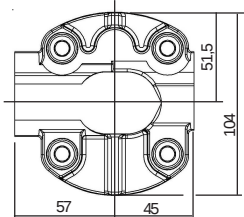
T

High pressure relief valve
(Adjustable) External return



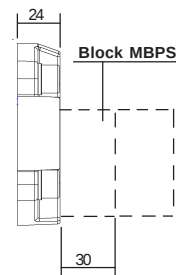
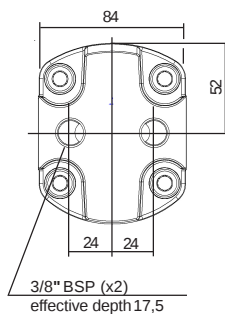
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1460 3/5

Consult us for availability

home

contents

previous

next

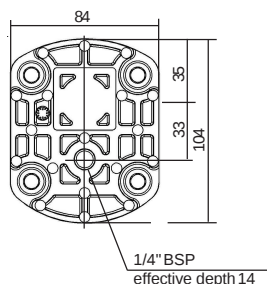
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

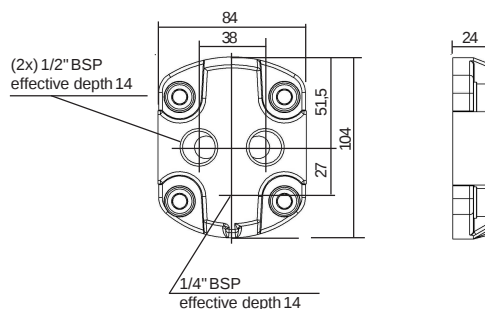
L

Standard



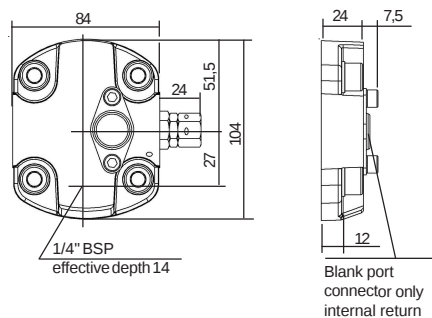
A

with ports



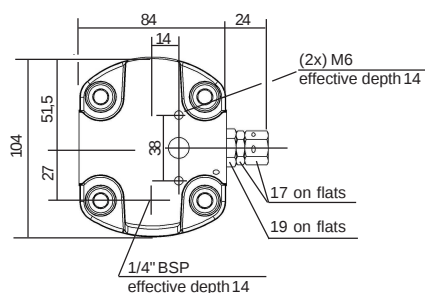
X

High pressure relief valve
(Adjustable) Internal return



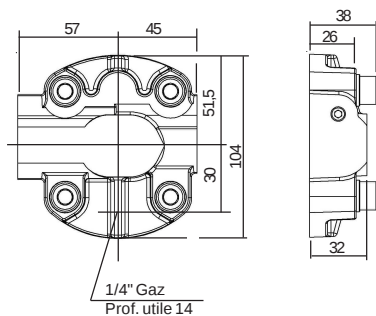
T

High pressure relief valve
(Adjustable) External return



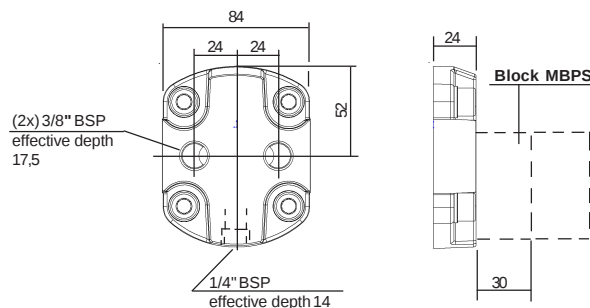
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

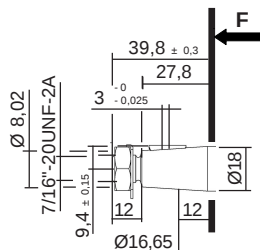
F.T 25 1460 4/5

DRIVING SHAFT

Tapered

10

B02 Cône 1 / 8

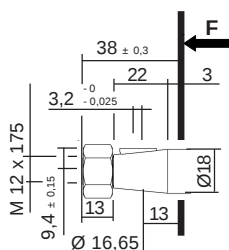


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

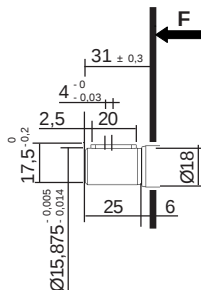
Maxi transmissible torque

220 N.m

Straight keyed

20

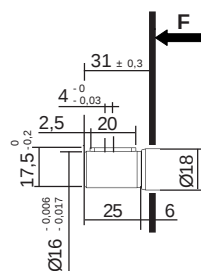
A01



Maxi transmissible torque

50 N.m

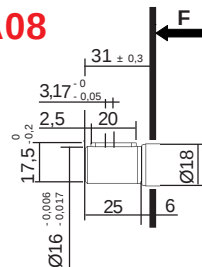
C02



Maxi transmissible torque

50 N.m

A08



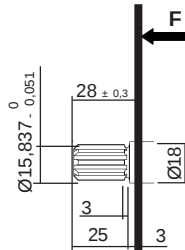
Maxi transmissible torque

50 N.m

Splined

30

A01



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

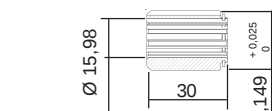
Maxi transmissible torque

100 N.m

Sleeve coupling 9 teeth / 13 teeth

Ref.: K.5041310

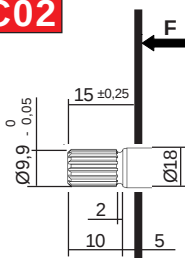
Mounting with splined shaft 30 A01



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

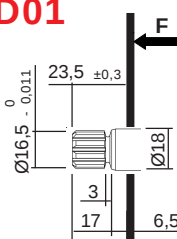


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

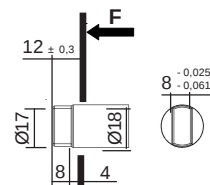
Maxi transmissible torque

100 N.m

Tang

40

C03



Maxi transmissible torque

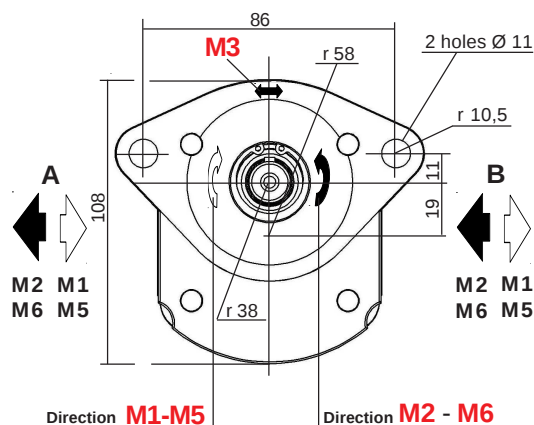
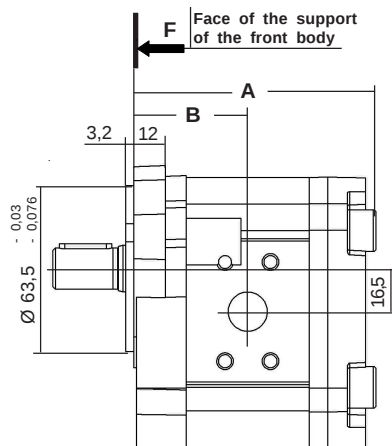
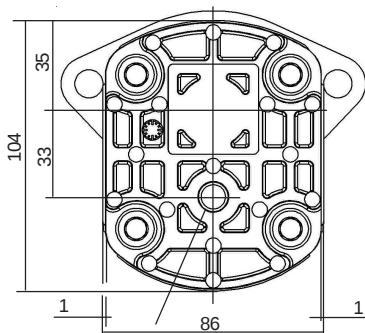
70 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1460 5/5



Consult us for availability



Dimensions readings and approximative characteristics subject to modifications.

Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity

Dimensions

 Δ

B

12

107

51

15 - 17 - 18 - 22

123

59

Seals kits:

M1 - M2

Nitrile: K5069810 Viton: K5069820

(For manufacture since January 1984)

M3 - M5/M6

Nitrile: K5071067 Viton: K5071068

(For manufacture since February 1986)

MODEL	Capacity	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
	cc / rev	bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,3
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	2,6
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	2,7
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}		3500	2,7
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}		3500	2,8

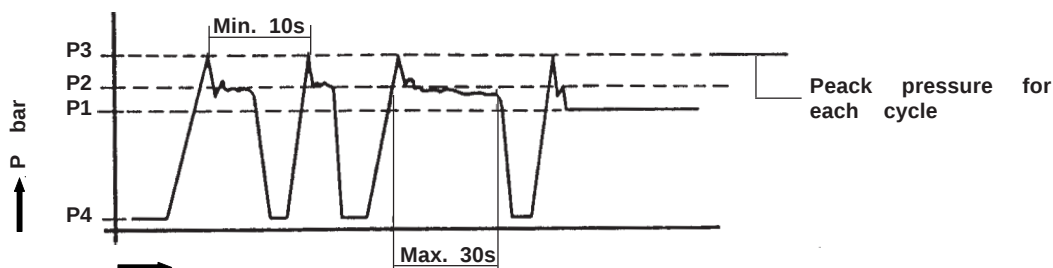
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P3 Max. Allowable peak pressure

P2 Maximum pressure in intermittent duty

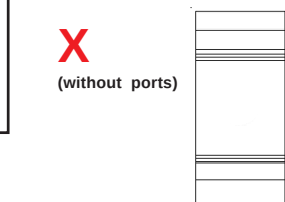
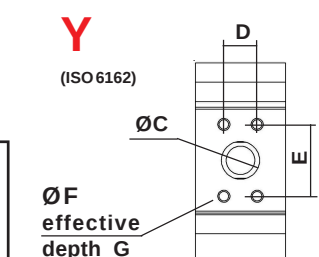
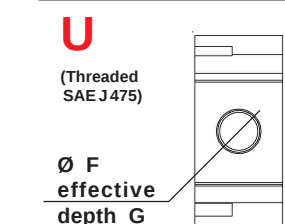
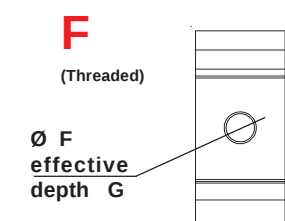
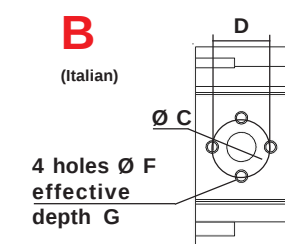
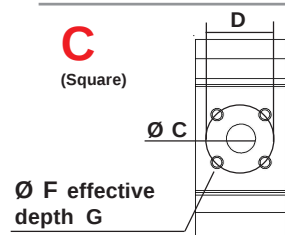
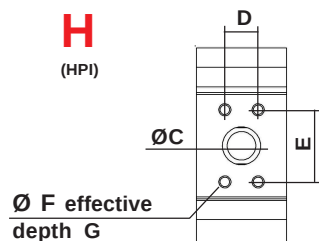
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET					OUTLET					AFFECTATION					
											1 way rotation without counter pressure M1 ENTREE SORTIE		pressure M2 ENTREE SORTIE		2 ways rotation with counter pressure M3	
											1 way rotation with counter pressure M5		pressure M6			
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
2512 to 2522	15	17,4	22,4	M6	12	26	47,6	22,4	M6	12	A	B	B	A	B	A
2512 to 2522	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
2512 to 2522	15	30		M6	13	23,5	40		M8	13	A	B	B	A	B	A
2512 to 2522				1/2" BSP	14				1" BSP	18	A	B	B	A	B	A
2512				7/8" 14 UNF 2B	17				1" 5/16 12 UNF	20	A	B	B	A	B	A
2515 to 2522				1" 1/16 12 UNF 2B	20				1" 5/16 12 UNF 2B	20						
2512	15	17,4	38	M10	14	26	47,6	22,4	M8	14	A	B	B	A	B	A
2515 to 2522	15	17,4	38	M8	14	26	52,4	26,2	M10	14						
2512 to 2522	Only with rear body Type A										Consult us for availability					

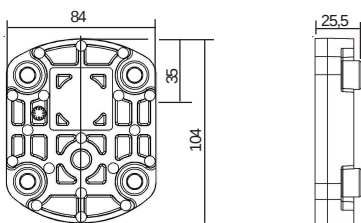
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1461 2/5

REAR BODIES for MOTORS M1 - M2

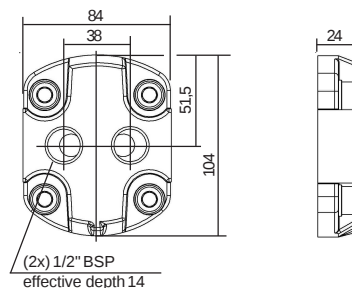
L

Standard



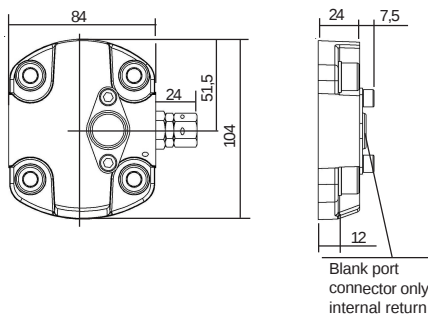
A

with ports



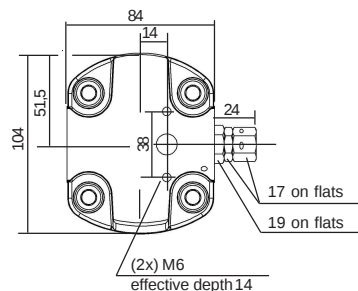
X

High pressure relief valve
(Adjustable) Internal return



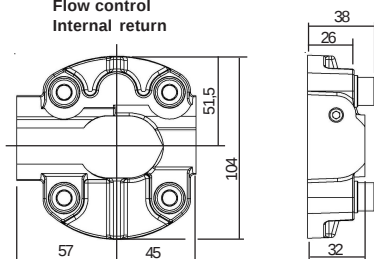
T

High pressure relief valve
(Adjustable) External return



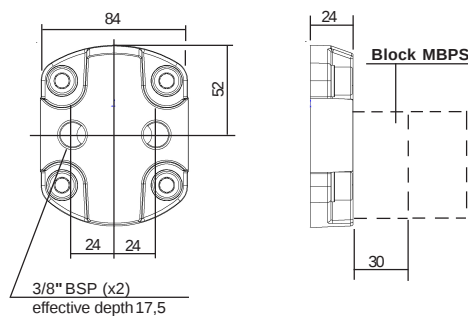
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1461 3/5

Consult us for availability

home

contents

previous

next

main dimensions

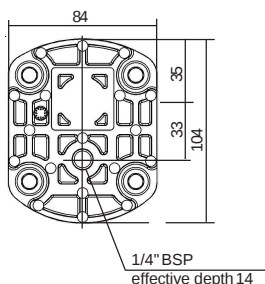
PUBLISHING 02 / 2012

221
/ 00

REAR BODIES for MOTORS M3 - M5 - M6

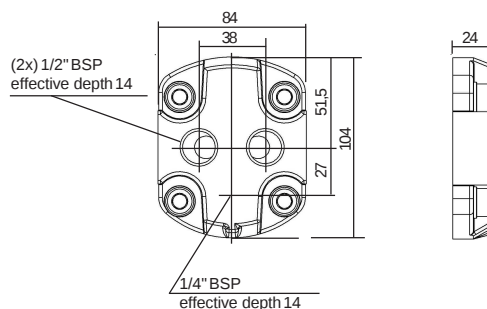
L

Standard



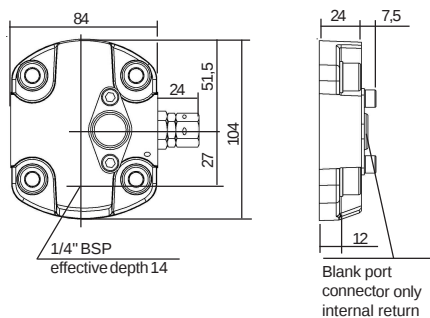
A

with ports



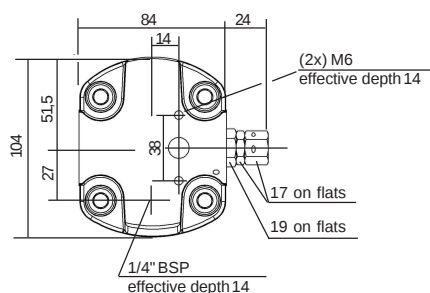
X

High pressure relief valve
(Adjustable) Internal return



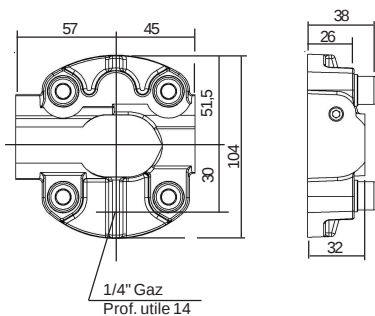
T

High pressure relief valve
(Adjustable) External return



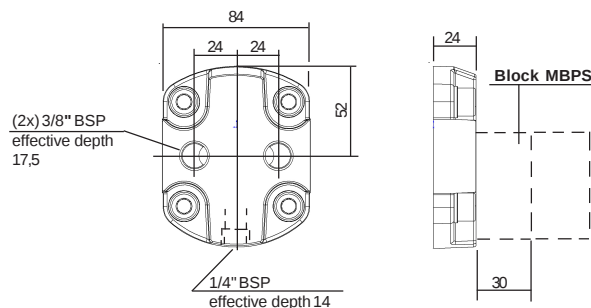
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

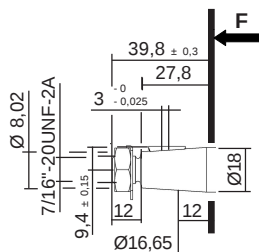
Consult us for availability

DRIVING SHAFT

Tapered

10

B02 Cône 1 / 8

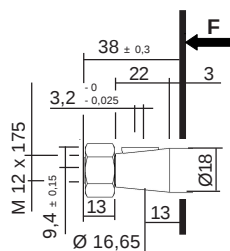


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

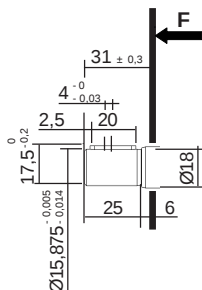
Maxi transmissible torque

220 N.m

Straight keyed

20

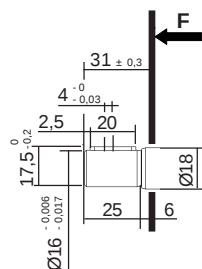
A01



Maxi transmissible torque

50 N.m

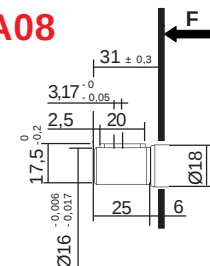
C02



Maxi transmissible torque

50 N.m

A08



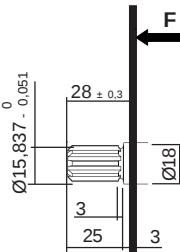
Maxi transmissible torque

50 N.m

Splined

30

A01



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

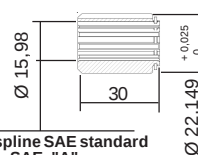
Maxi transmissible torque

100 N.m

Sleeve coupling 9 teeth / 13 teeth

Ref.: K.5041310

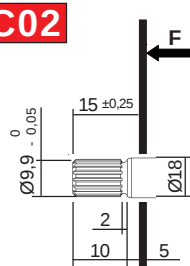
Mounting with splinned shaft **30 A01**



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

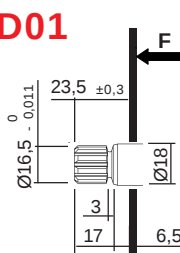


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

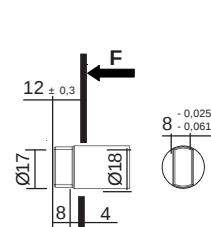
Maxi transmissible torque

100 N.m

Tang

40

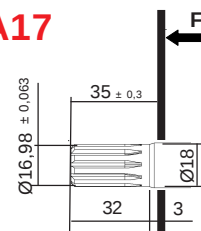
C03



Maxi transmissible torque

70 N.m

A17



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

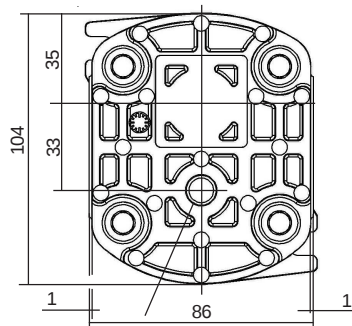
Maxi transmissible torque

100 N.m

Dimensions readings and approximative characteristics subject to modifications.

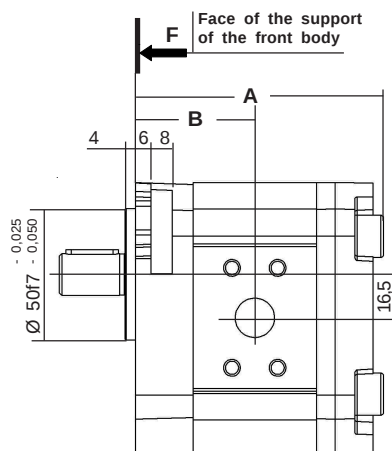
F.T 25 1461 5/5

Consult us for availability

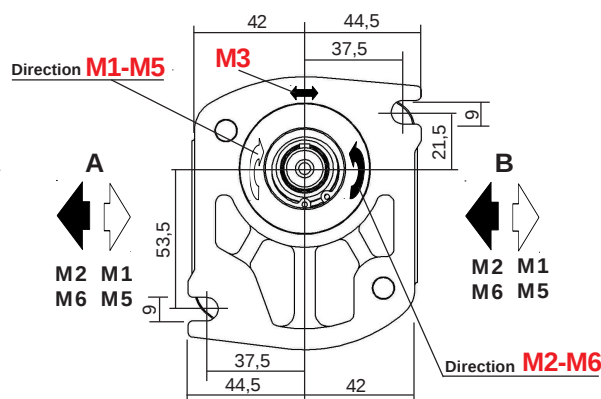


Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



CHOICE of the Capacity	Dimensions	
	A	B
12	109	53
15 - 17 - 18 - 22	125	61

Seals kits:

M1 - M2

Nitrile: K5069810 Viton: K5069820

(For manufacture since January 1984)

M3 - M5/M6

Nitrile: K5071067 Viton: K5071068

(For manufacture since February 1986)

MODEL	Capacity	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
	cc / rev	bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,3
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	2,6
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	2,7
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}		3500	2,7
2522	22.87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}		3500	2.8

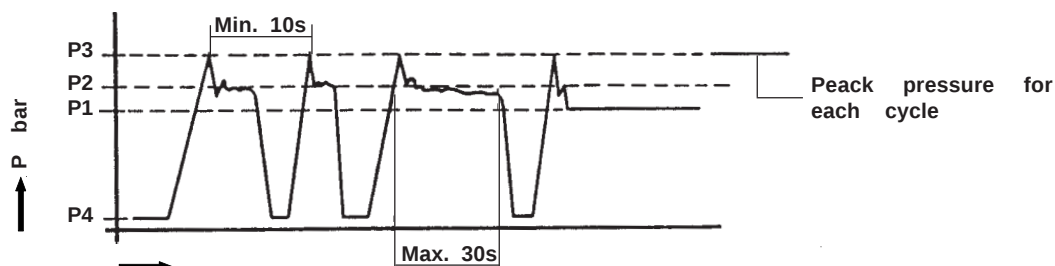
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P3 Max. Allowable peak pressure

P2 Maximum pressure in intermittent duty

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

AFFECTATION													
1 way rotation without counter pressure M1 ENTREE SORTIE								2 ways rotation with counter pressure M2 ENTREE SORTIE					
1 way rotation with counter pressure M5 INLET OUTLET								1 way rotation with pressure M6 INLET OUTLET				M3	
												INLET	OUTLET
2	A B B A								B A				
2	A B B A								B A				
3	A B B A								B A				
3	A B B A								B A				
0	A B B A								B A				
4	A B B A								B A				

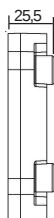
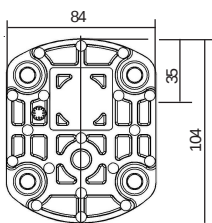
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1462 2/5

REAR BODIES for MOTORS M1 - M2

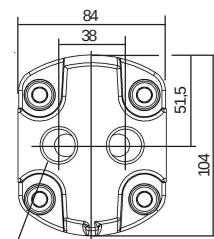
L

Standard



A

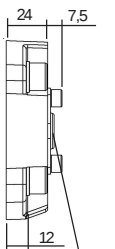
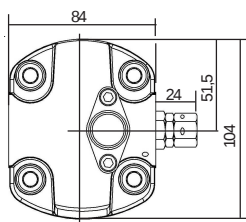
with ports



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

X

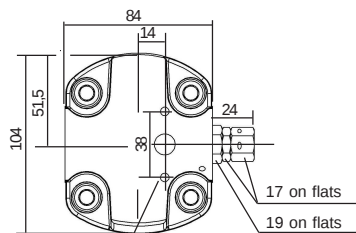
High pressure relief valve
(Adjustable) Internal return



Blank port
connector only
internal return

T

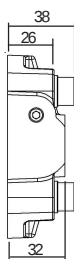
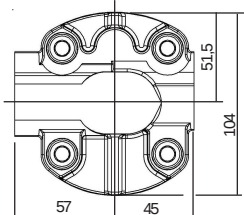
High pressure relief valve
(Adjustable) External return



(2x) M6
effective depth 14

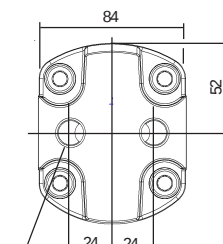
Q

Flow control
Internal return

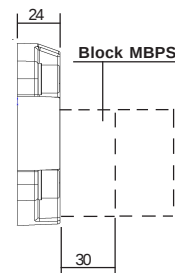


AR

Mounting with block configuration MBPS



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



Block MBPS

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1462 3/5

Consult us for availability

home

contents

previous

next

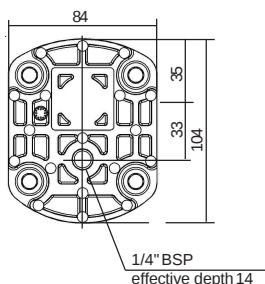
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

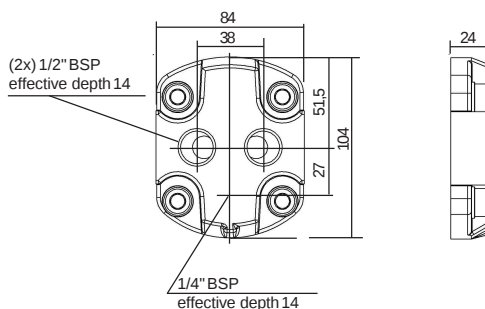
L

Standard



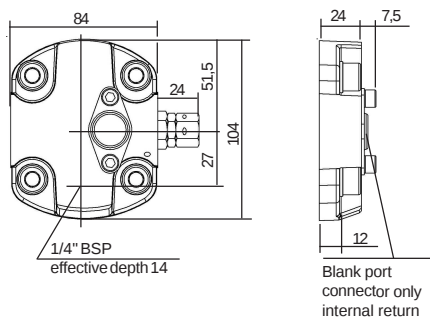
A

with ports



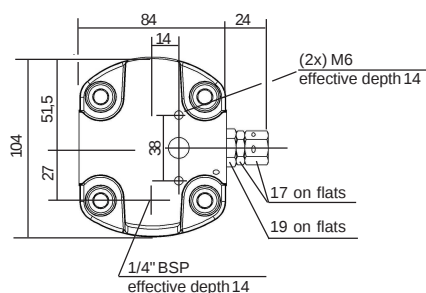
X

High pressure relief valve
(Adjustable) Internal return



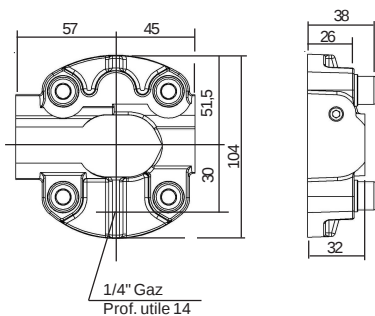
T

High pressure relief valve
(Adjustable) External return



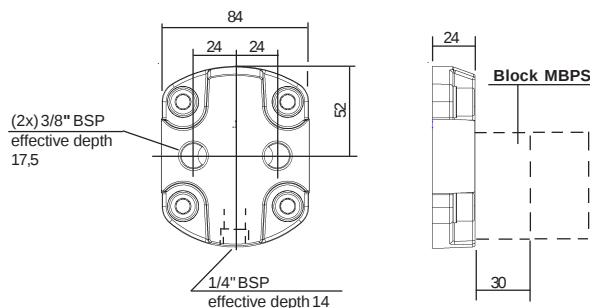
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured



Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

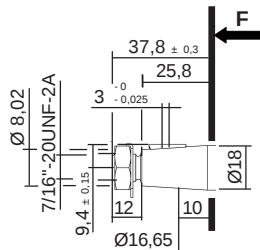
F.T 25 1462 4/5

DRIVING SHAFTS

Tapered

10

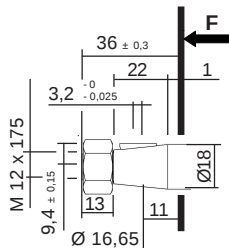
B02 Cône 1 / 8



Delivered with nut: K100841

Maxi transmissible torque
250 N.m

C02 Cône 1 / 5



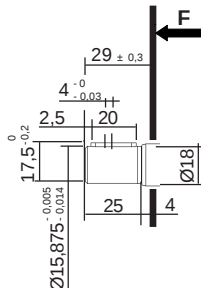
Delivered with nut: K106317

Maxi transmissible torque
220 N.m

Straight keyed

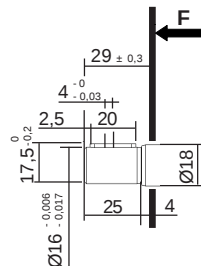
20

A01



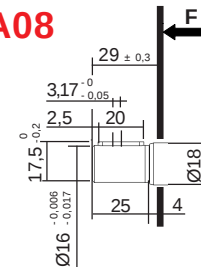
Maxi transmissible torque
50 N.m

C02



Maxi transmissible torque
50 N.m

A08

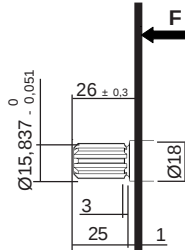


Maxi transmissible torque
50 N.m

Splined

30

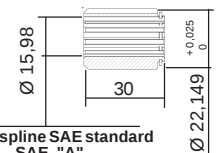
A01



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

Maxi transmissible torque
100 N.m

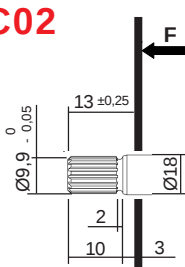
Sleeve coupling 9 teeth / 13 teeth
Ref.: K.5041310
Mounting with splined shaft **30 A01**



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

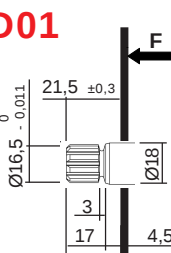
C02



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

Maxi transmissible torque
100 N.m

D01



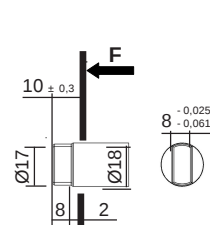
Involute spline shaft B 17 x 14
9 teeth - Standard DIN 5482 - Module 1,6
Spigot on free flanks

Maxi transmissible torque
100 N.m

Tang

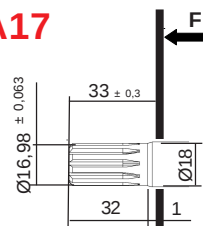
40

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.

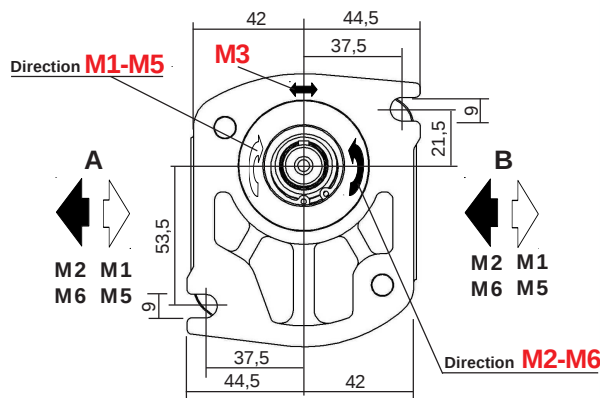
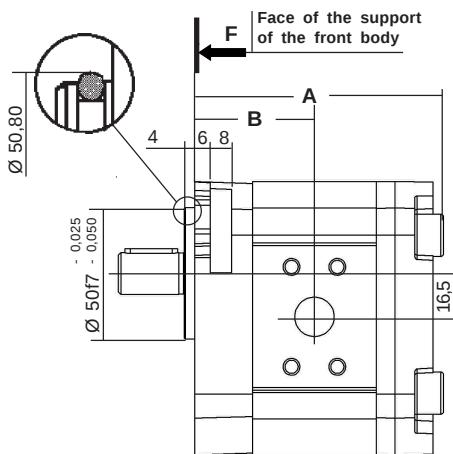
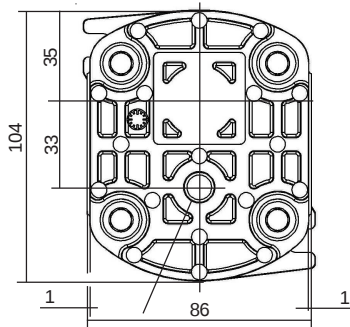
F.T 25 1462 5/5

Consult us for availability

M II Sign **CE K 25** VI Sign **H L** IX Sign **X** Sign **XI** Sign **XII** Sign

For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity	Dimensions	
	A	B
12	109	53
15 - 17 - 18 - 22	125	61

Seals kits:

M1 - M2
Nitrile: **K5069810 + K102238**
Viton: **K5069820**
(For manufacture to since january 1984)

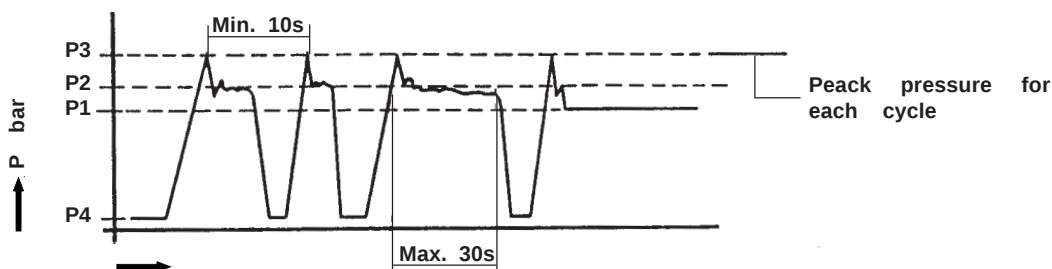
M3 - M5/M6
Nitrile: **K5071067 + K102238**
Viton: **K5071068**
(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,3
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	2,6
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	2,7
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}		3500	2,7
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}		3500	2,8

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

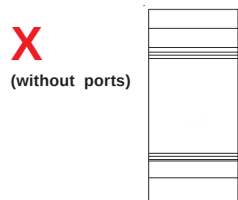
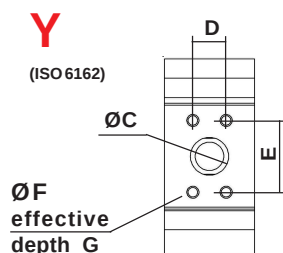
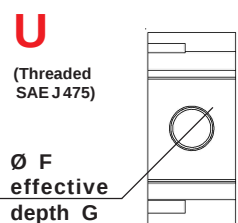
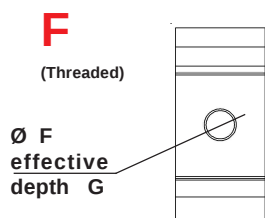
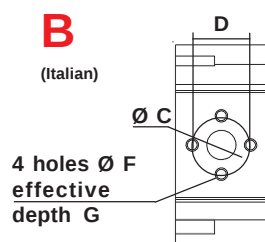
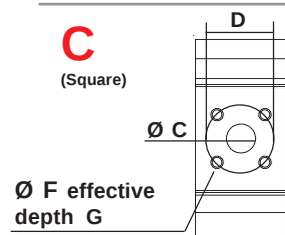
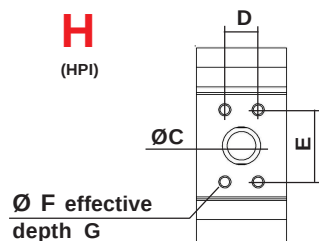
P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET					OUTLET					AFFECTATION					
											1 way rotation without counter pressure M1 ENTREE SORTIE		pressure M2 ENTREE SORTIE		2 ways rotation with counter pressure M3	
											1 way rotation with counter pressure M5		pressure M6			
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
2512 to 2522	15	17,4	22,4	M6	12	26	47,6	22,4	M6	12	A	B	B	A	B	A
2512 to 2522	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
2512 to 2522	15	30		M6	13	23,5	40		M8	13	A	B	B	A	B	A
2512 to 2522				1/2" BSP	14				1" BSP	18	A	B	B	A	B	A
2512				7/8" 14 UNF 2B	17				1" 5/16 12 UNF	20	A	B	B	A	B	A
2515 to 2522				1" 1/16 12 UNF 2B	20				1" 5/16 12 UNF 2B	20						
2512	15	17,4	38	M10	14	26	47,6	22,4	M8	14	A	B	B	A	B	A
2515 to 2522	15	17,4	38	M8	14	26	52,4	26,2	M10	14						
2512 to 2522	Only with rear body Type A										Consult us for availability					

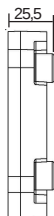
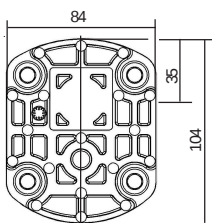
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1463 2/5

REAR BODIES for MOTORS M1 - M2

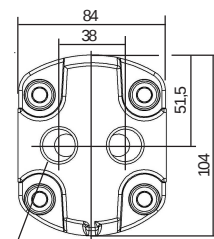
L

Standard



A

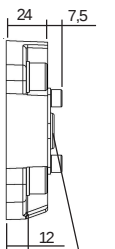
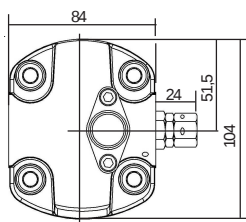
with ports



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

X

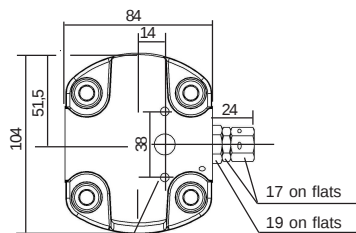
High pressure relief valve
(Adjustable) Internal return



Blank port
connector only
internal return

T

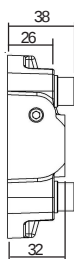
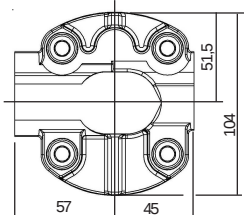
High pressure relief valve
(Adjustable) External return



(2x) M6
effective depth 14

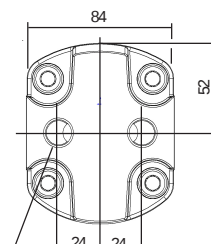
Q

Flow control
Internal return

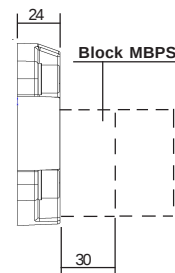


AR

Mounting with block configuration MBPS



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



Block MBPS

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1463 3/5



Consult us for availability

home

contents

previous

next

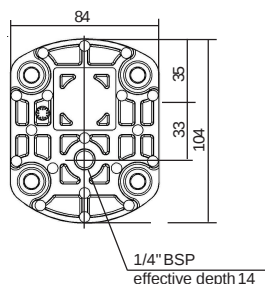
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

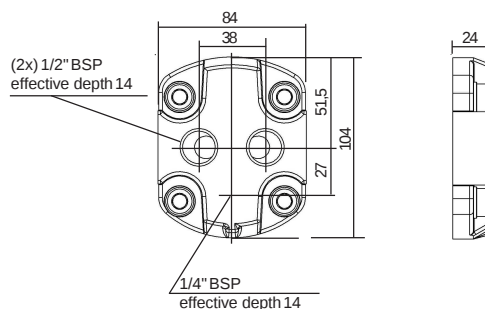
L

Standard



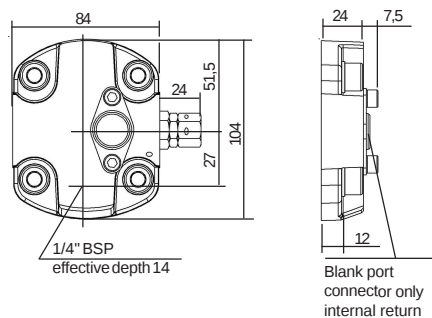
A

with ports



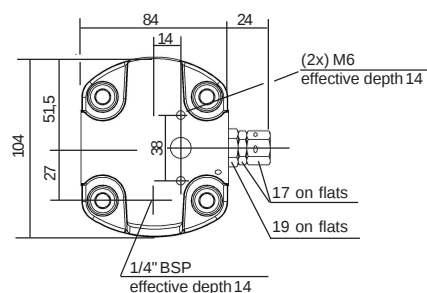
X

High pressure relief valve
(Adjustable) Internal return



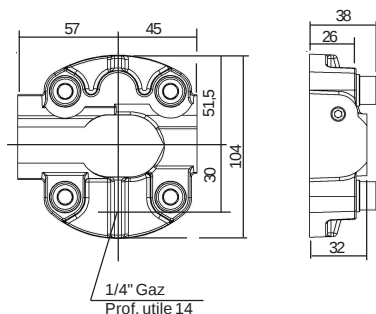
T

High pressure relief valve
(Adjustable) External return



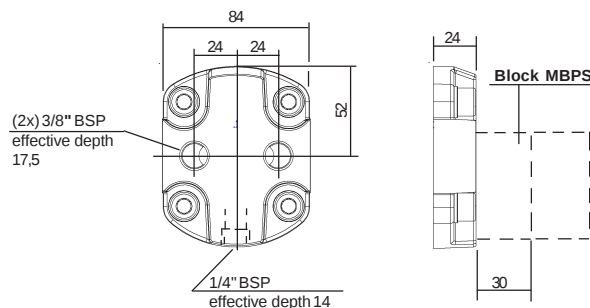
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1463 4/5



Consult us for availability

home

contents

previous

next

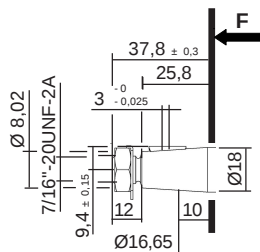
main dimensions

DRIVING SHAFTS

Tapered

10

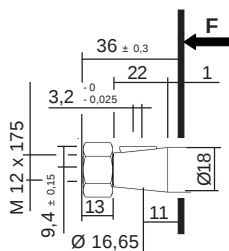
B02 Cône 1/8



Delivered with nut: K100841

Maxi transmissible torque
250 N.m

C02 Cône 1/5



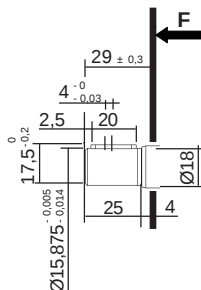
Delivered with nut: K106317

Maxi transmissible torque
220 N.m

Straight keyed

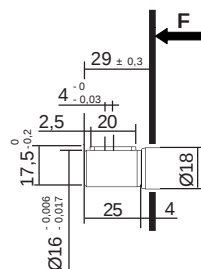
20

A01



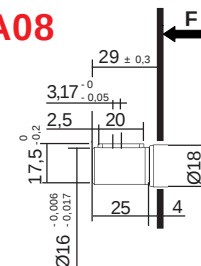
Maxi transmissible torque
50 N.m

C02



Maxi transmissible torque
50 N.m

A08

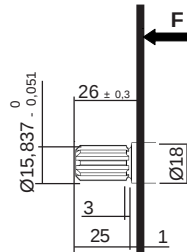


Maxi transmissible torque
50 N.m

Splined

30

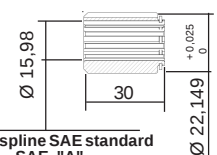
A01



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

Maxi transmissible torque
100 N.m

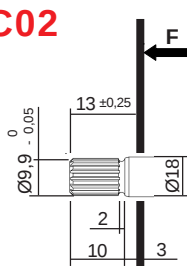
Sleeve coupling 9 teeth / 13 teeth
Ref.: K.5041310
Mounting with splined shaft 30 A01



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

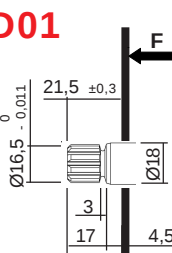
C02



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

Maxi transmissible torque
100 N.m

D01



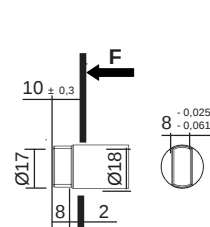
Involute spline shaft B 17 x 14
9 teeth - Standard DIN 5482 - Module 1,6
Spigot on free flanks

Maxi transmissible torque
100 N.m

Tang

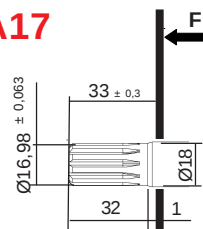
40

C03



Maxi transmissible torque
70 N.m

A17



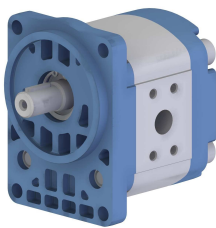
Involute spline SAE Standard
10 teeth - Pitch 16/32 - Flat root
20° Pressure angle

Maxi transmissible torque
100 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1463 5/5

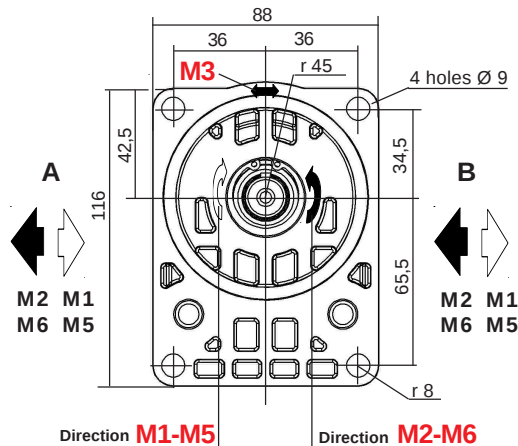
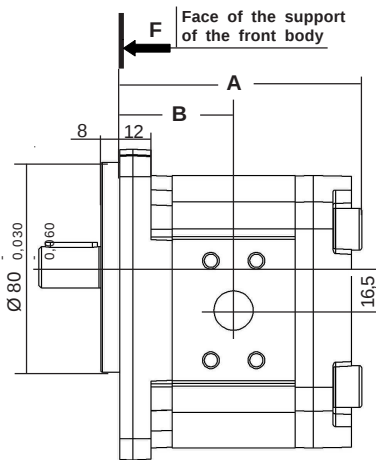
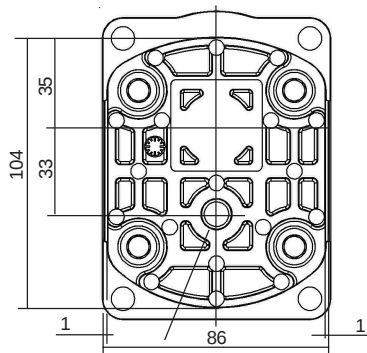
Consult us for availability



M II Sign **DB N 25** VI Sign **H L** IX Sign **X** Sign **XI** Sign **XII** Sign

For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

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

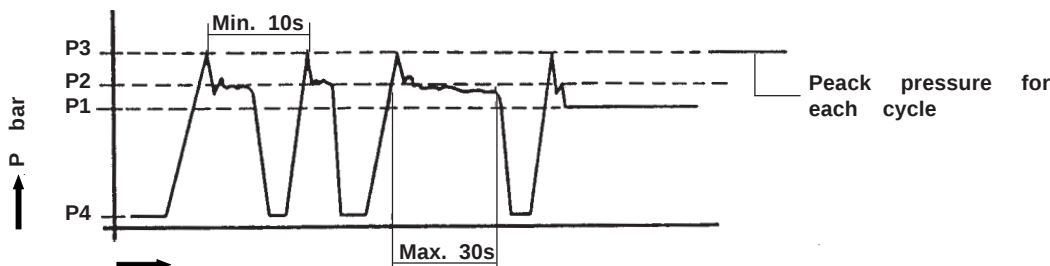
Seals kits:
M1 - M2
Nitrile: **K5069810** Viton: **K5069820**
(For manufacture to since january 1984)
M3 - M5/M6
Nitrile: **K5071067** Viton: **K5071068**
(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,3
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	2,6
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	2,7
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}		3500	2,7
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}		3500	2,8

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

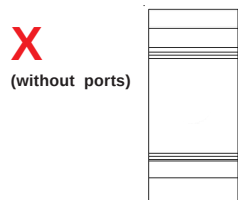
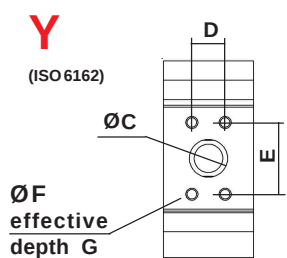
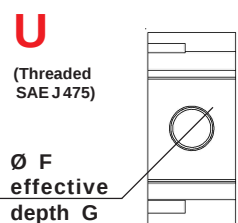
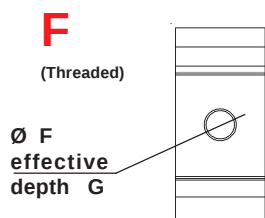
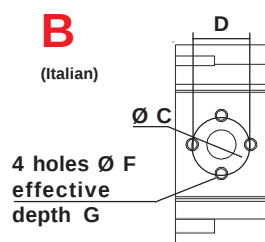
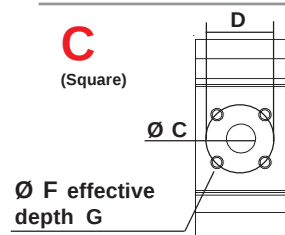
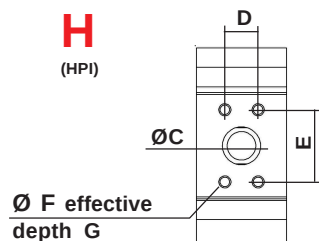
P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET					OUTLET					AFFECTATION					
											1 way rotation without counter pressure		2 ways rotation with counter pressure			
											1 way rotation with counter pressure					
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	M1 ENTREE SORTIE	M2 ENTREE SORTIE	M5 INLET OUTLET	M6 INLET OUTLET	M3 INLET OUTLET	
2512 to 2522	15	17,4	22,4	M6	12	26	47,6	22,4	M6	12	A B	B A	A B	B A	B A	
2512 to 2522	15	35		M6	12	20	40		M6	12	A B	B A	A B	B A	B A	
2512 to 2522	15	30		M6	13	23,5	40		M8	13	A B	B A	A B	B A	B A	
2512 to 2522				1/2" BSP	14				1" BSP	18	A B	B A	A B	B A	B A	
2512				7/8" 14 UNF 2B	17				1" 5/16 12 UNF	20	A B	B A	A B	B A	B A	
2515 to 2522				1" 1/16 12 UNF 2B	20				1" 5/16 12 UNF 2B	20						
2512	15	17,4	38	M10	14	26	47,6	22,4	M8	14	A B	B A	A B	B A	B A	
2515 to 2522	15	17,4	38	M8	14	26	52,4	26,2	M10	14						
2512 to 2522	Only with rear body Type A															

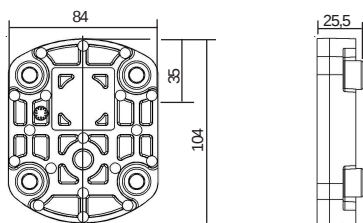
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1464 2/5

REAR BODIES for MOTORS M1 - M2

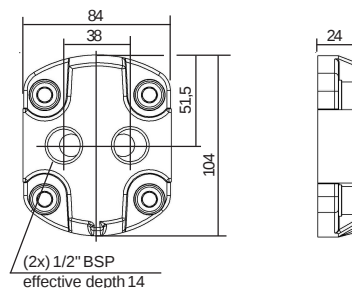
L

Standard



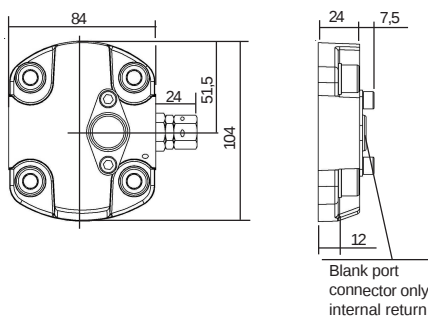
A

with ports



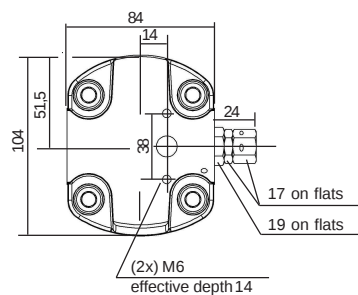
X

High pressure relief valve
(Adjustable) Internal return



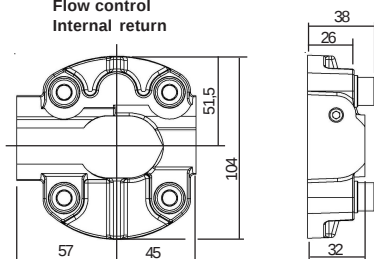
T

High pressure relief valve
(Adjustable) External return



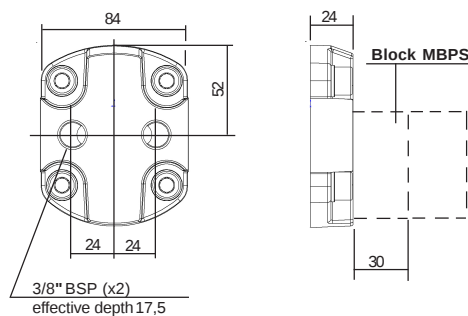
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1464 3/5

Consult us for availability

home

contents

previous

next

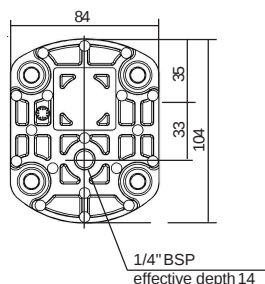
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

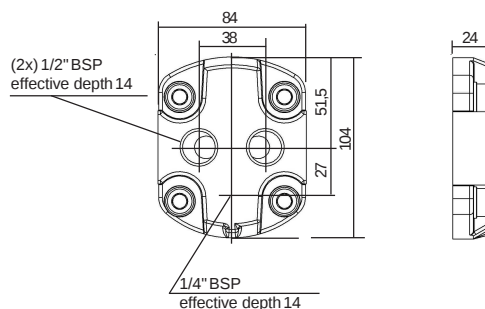
L

Standard



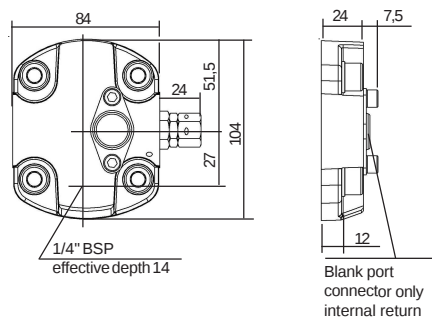
A

with ports



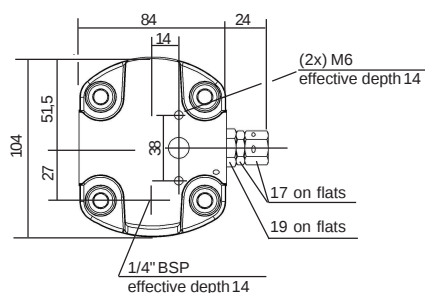
X

High pressure relief valve
(Adjustable) Internal return



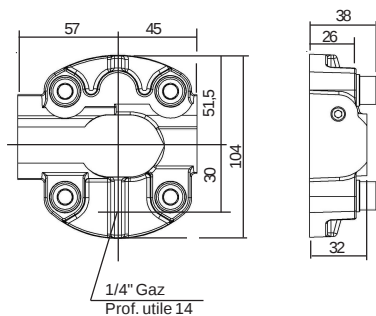
T

High pressure relief valve
(Adjustable) External return



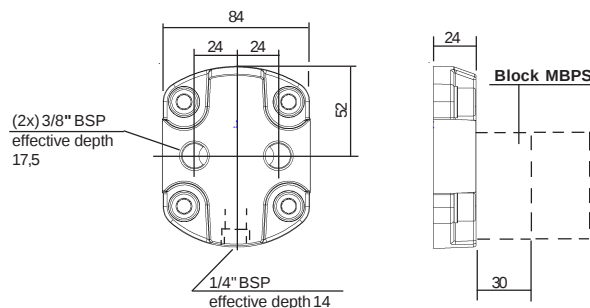
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured



Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

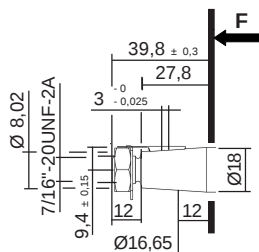
F.T 25 1464 4/5

DRIVING SHAFT

Tapered

10

B02 Cône 1 / 8

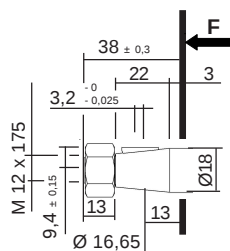


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

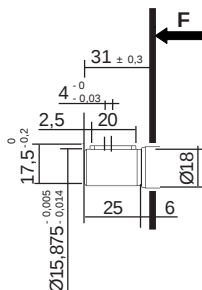
Maxi transmissible torque

220 N.m

Straight keyed

20

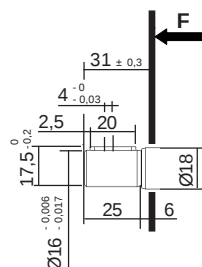
A01



Maxi transmissible torque

50 N.m

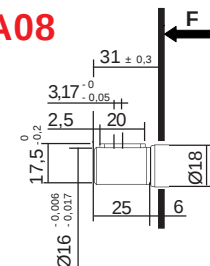
C02



Maxi transmissible torque

50 N.m

A08



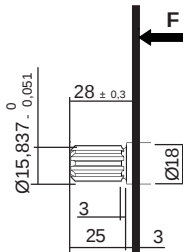
Maxi transmissible torque

50 N.m

Splined

30

A01

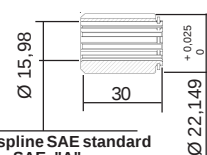


Involute spline SAE Standard
9 teeth - Pitch 16/32 - Flat root
30° Pressure angle

Maxi transmissible torque

100 N.m

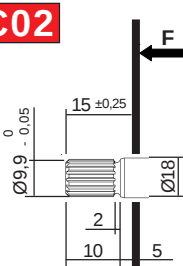
Sleeve coupling 9 teeth / 13 teeth
Ref.: K.5041310
Mounting with splinned shaft **30 A01**



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

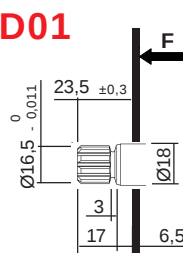


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

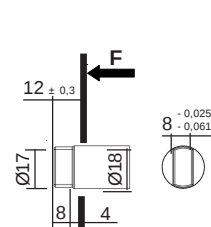
Maxi transmissible torque

100 N.m

Tang

40

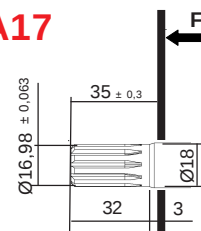
C03



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.

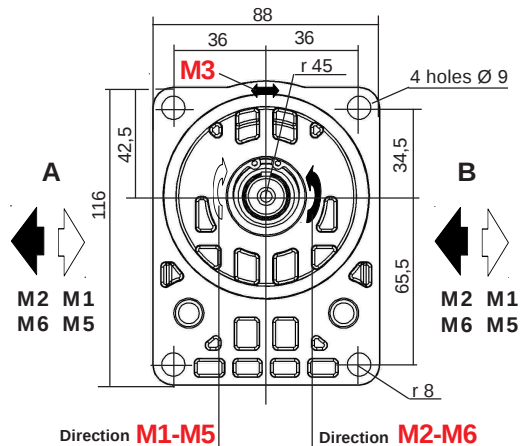
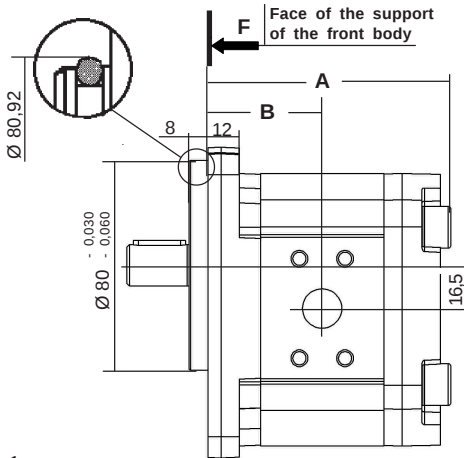
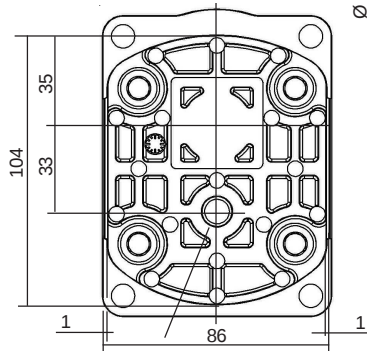
F.T 25 1464 5/5

Consult us for availability

M II Sign **DB** **K** **25** VI Sign **H** **L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity

Dimensions

	A	B
12	107	51
15 - 17 - 18 - 22	123	59

Seals kits:

M1 - M2

Nitrile: **K5069810 + K101517**

Viton: **K5069820 + K104406**

(For manufacture to since january 1984)

M3 - M5/M6

Nitrile: **K5071067 + K101517**

Viton: **K5071068 + K104406**

(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,3
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	2,6
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	2,7
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}		3500	2,7
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}		3500	2,8

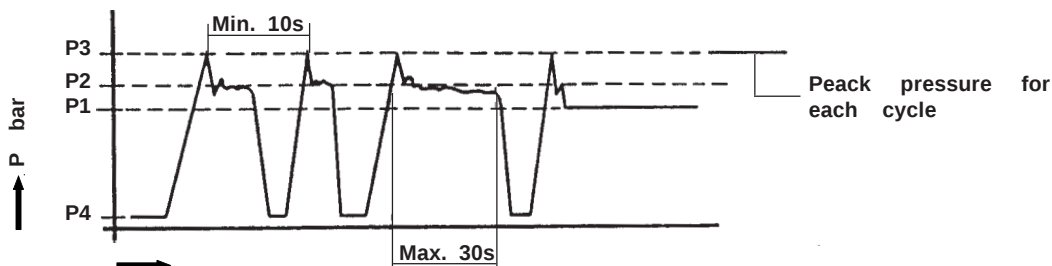
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

home

contents

previous

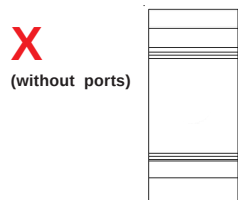
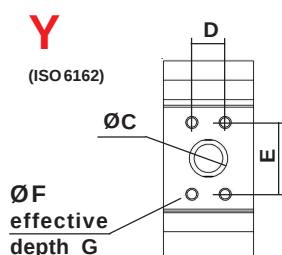
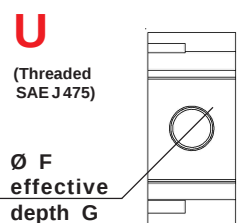
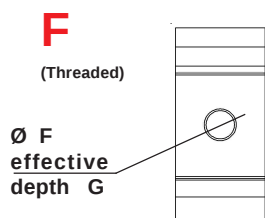
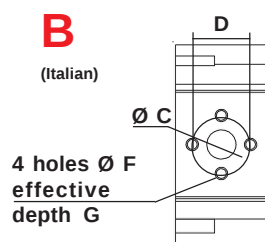
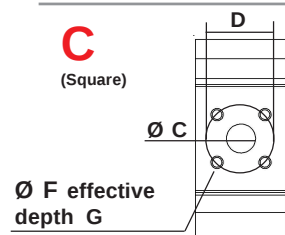
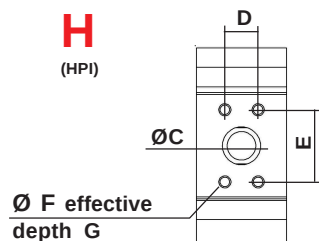
next

main dimensions

PUBLISHING 02 / 2012

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
											INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
2512 to 2522	15	17,4	22,4	M6	12	26	47,6	22,4	M6	12	A	B	B	A	B	A
2512 to 2522	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
2512 to 2522	15	30		M6	13	23,5	40		M8	13	A	B	B	A	B	A
2512 to 2522				1/2" BSP	14				1" BSP	18	A	B	B	A	B	A
2512				7/8" 14 UNF 2B	17				1"5/16 12 UNF	20	A	B	B	A	B	A
2515 to 2522				1"1/16 12 UNF 2B	20				1"5/16 12 UNF 2B	20						
2512	15	17,4	38	M10	14	26	47,6	22,4	M8	14	A	B	B	A	B	A
2515 to 2522	15	17,4	38	M8	14	26	52,4	26,2	M10	14						
2512 to 2522	Only with rear body Type A															
PUBLISHING 01 / 2013																

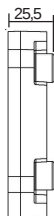
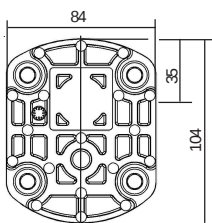
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1465 2/5

REAR BODIES for MOTORS M1 - M2

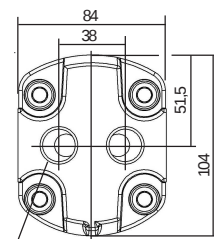
L

Standard



A

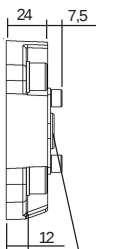
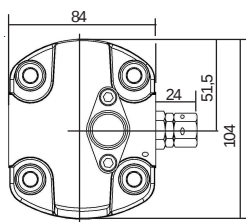
with ports



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

X

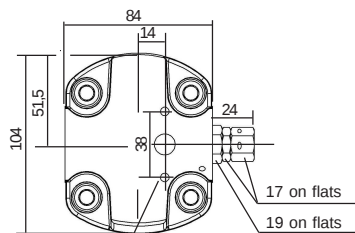
High pressure relief valve
(Adjustable) Internal return



Blank port
connector only
internal return

T

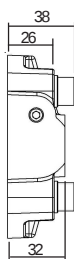
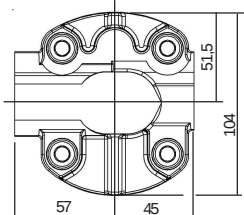
High pressure relief valve
(Adjustable) External return



(2x) M6
effective depth 14

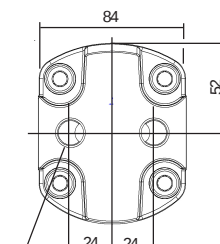
Q

Flow control
Internal return

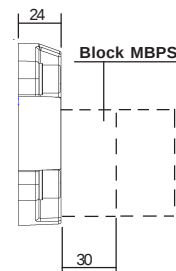


AR

Mounting with block configuration MBPS



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



Block MBPS

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1465 3/5

Consult us for availability

home

contents

previous

next

main dimensions

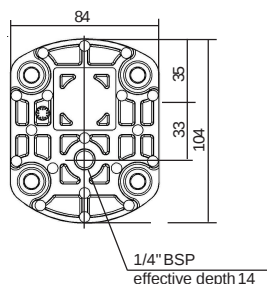
PUBLISHING 02 / 2012

241
/ 00

REAR BODIES for MOTORS M3 - M5 - M6

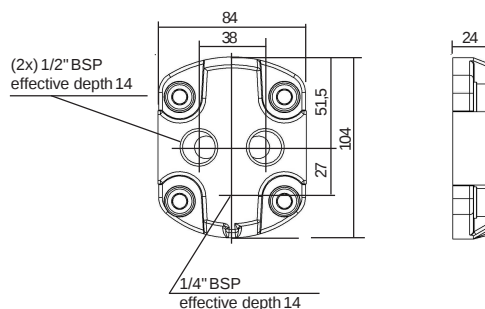
L

Standard



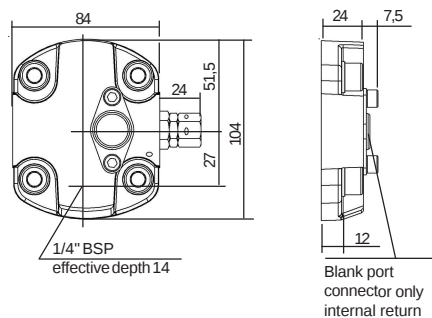
A

with ports



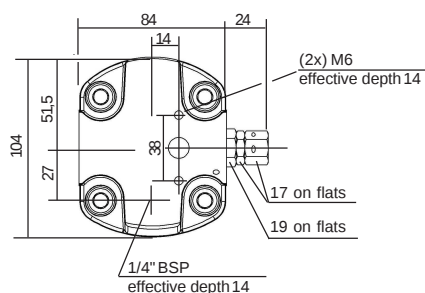
X

High pressure relief valve
(Adjustable) Internal return



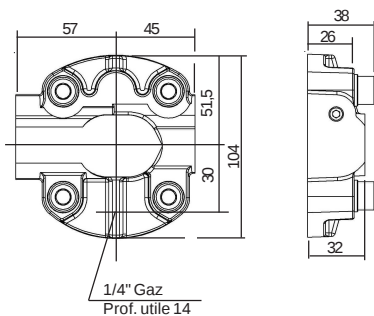
T

High pressure relief valve
(Adjustable) External return



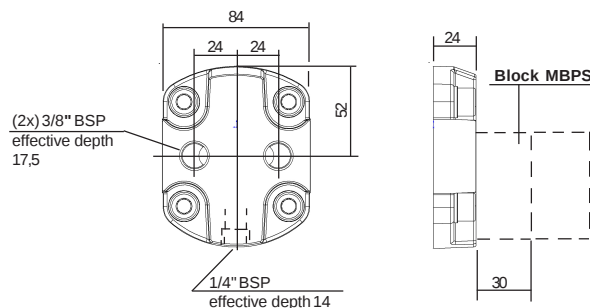
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1465 4/5



Consult us for availability

home

contents

previous

next

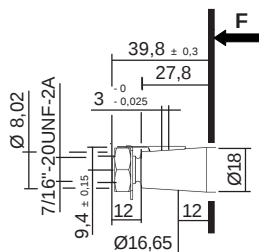
main dimensions

DRIVING SHAFT

Tapered

10

B02 Cône 1 / 8

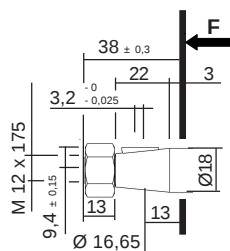


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

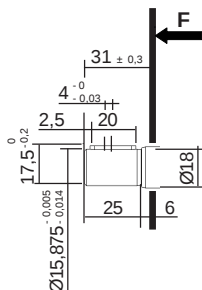
Maxi transmissible torque

220 N.m

Straight keyed

20

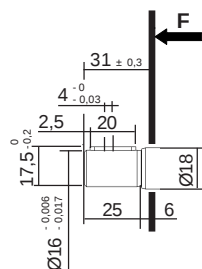
A01



Maxi transmissible torque

50 N.m

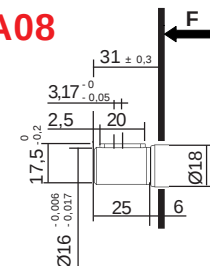
C02



Maxi transmissible torque

50 N.m

A08



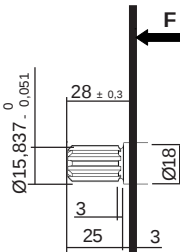
Maxi transmissible torque

50 N.m

Splined

30

A01



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

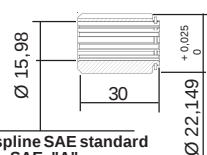
Maxi transmissible torque

100 N.m

Sleeve coupling 9 teeth / 13 teeth

Ref.: K.5041310

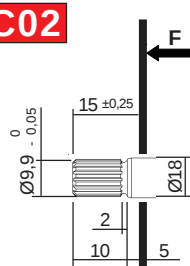
Mounting with splinned shaft **30 A01**



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

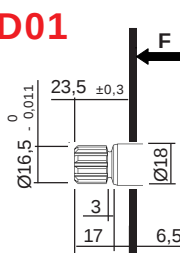


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

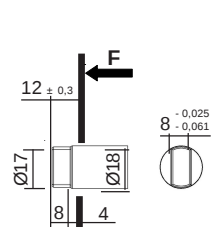
Maxi transmissible torque

100 N.m

Tang

40

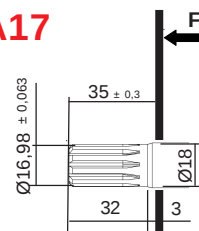
C03



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.

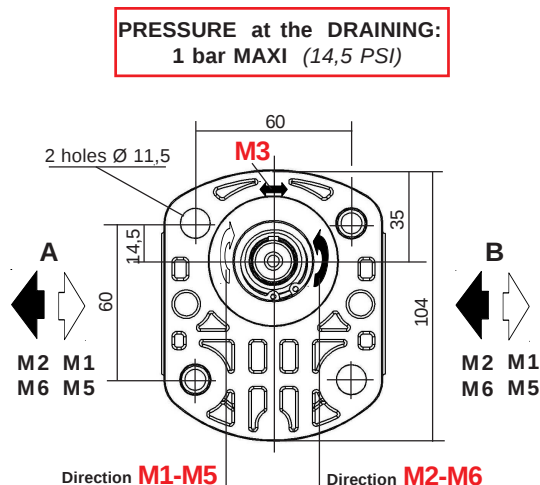
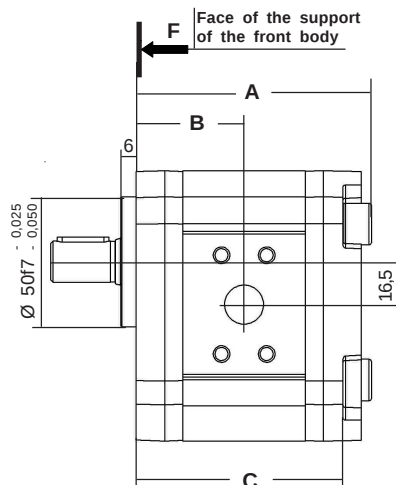
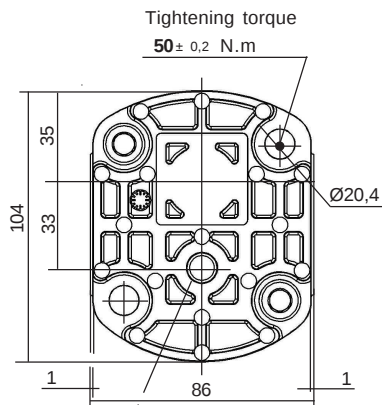
F.T 25 1465 5/5



Consult us for availability



For CODIFICATION, see data sheet **F.T R 0243**



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)

Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity	Dimensions		
	A	B	C
12	105	49	94
15 - 17 - 18 - 22	120	57	110

Seals kits:

M1 - M2
Nitrile: K5069890 + K101513
Viton: K5069820 + K101326
(For manufacture to since january 1984)

M3 - M5/M6
Nitrile: K5073287 + K101513
Viton: K5071068 + K101326
(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,3
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	2,6
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	2,7
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}		3500	2,7
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}		3500	2,8

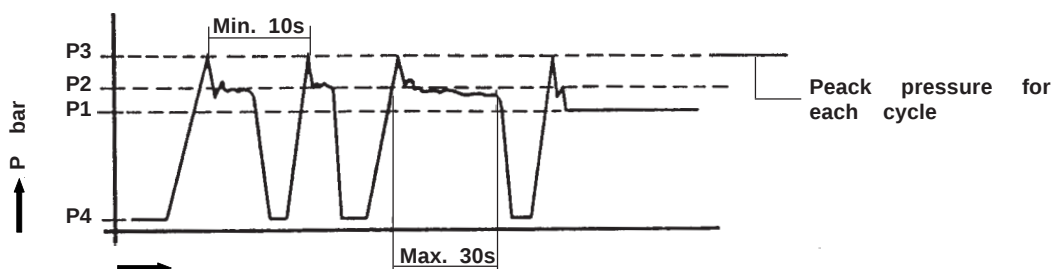
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

AFFECTATION											
1 way rotation without counter pressure				2 ways rotation with counter pressure							
M1		M2									
ENTREE	SORTIE	ENTREE	SORTIE								
1 way rotation with counter pressure				M3							
M5		M6									
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET				
2	A	B	B	A	B	A	B				
2	A	B	B	A	B	A	B				
3	A	B	B	A	B	A	B				
3	A	B	B	A	B	A	B				
0	A	B	B	A	B	A	B				
0	A	B	B	A	B	A	B				
4	A	B	B	A	B	A	B				
4	A	B	B	A	B	A	B				

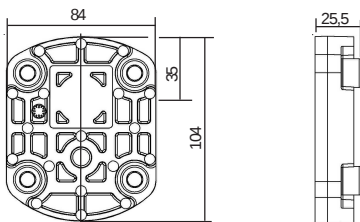
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1466 2/5

REAR BODIES for MOTORS M1 - M2

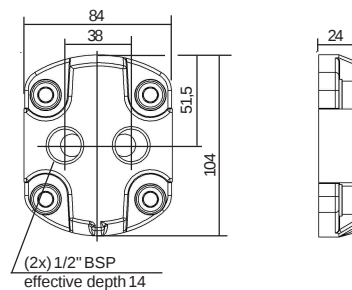
L

Standard



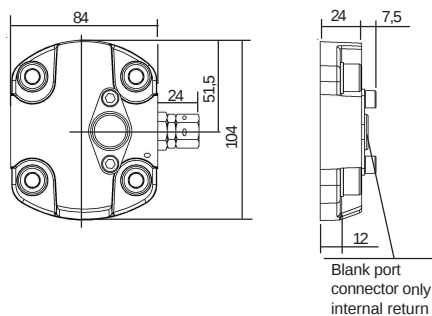
A

with ports



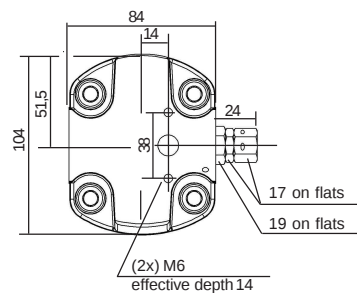
X

High pressure relief valve
(Adjustable) Internal return



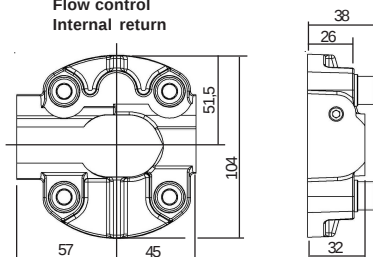
T

High pressure relief valve
(Adjustable) External return



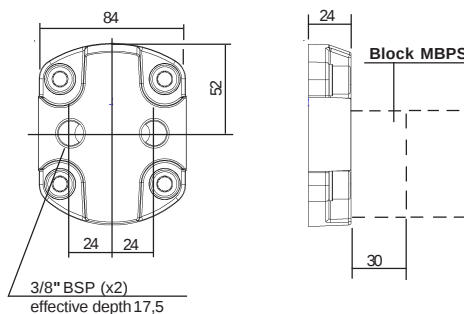
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1466 3/5



Consult us for availability

home

contents

previous

next

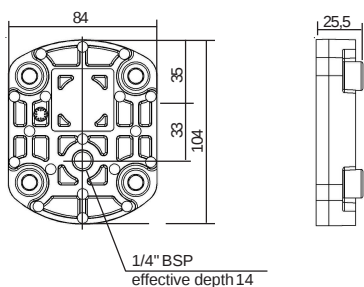
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

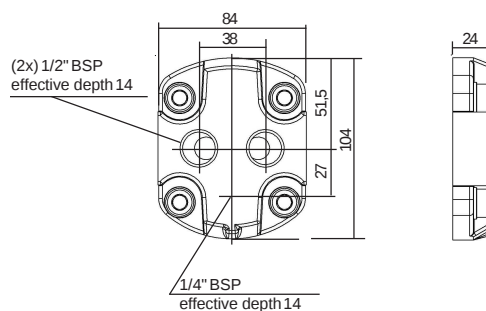
L

Standard



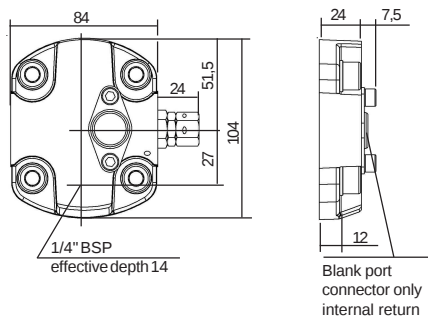
A

with ports



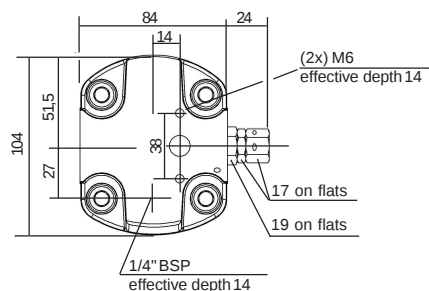
X

High pressure relief valve
(Adjustable) Internal return



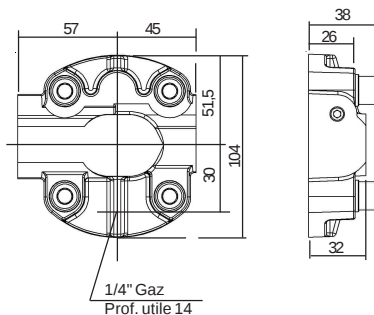
T

High pressure relief valve
(Adjustable) External return



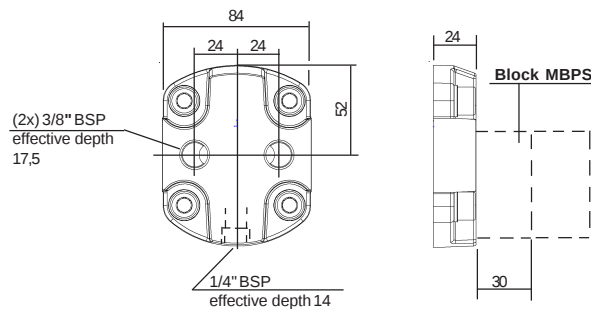
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

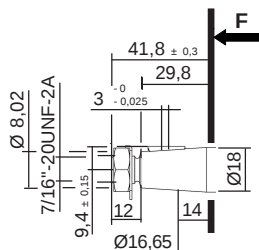
Consult us for availability

DRIVING SHAFTS

Tapered

10

B02 Cône 1/8

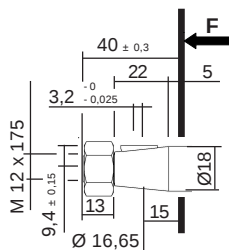


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1/5



Delivered with nut: K106317

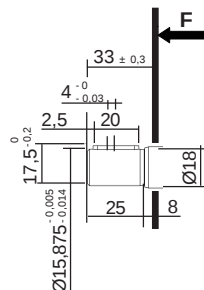
Maxi transmissible torque

220 N.m

Straight keyed

20

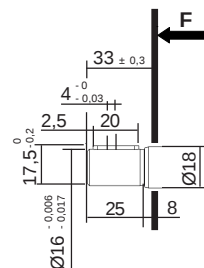
A01



Maxi transmissible torque

50 N.m

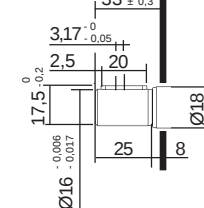
C02



Maxi transmissible torque

50 N.m

A08



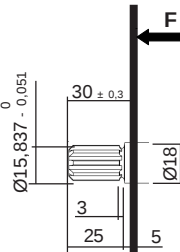
Maxi transmissible torque

50 N.m

Splined

30

A01



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

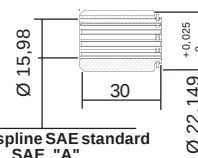
Maxi transmissible torque

100 N.m

Sleeve coupling 9 teeth / 13 teeth

Ref.: K.5041310

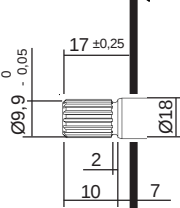
Mounting with splined shaft 30 A01



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

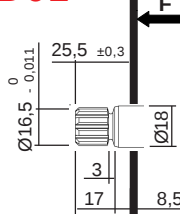


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

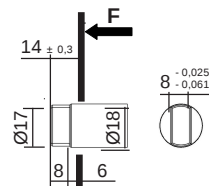
Maxi transmissible torque

100 N.m

Tang

40

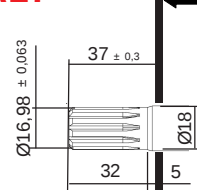
C03



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.

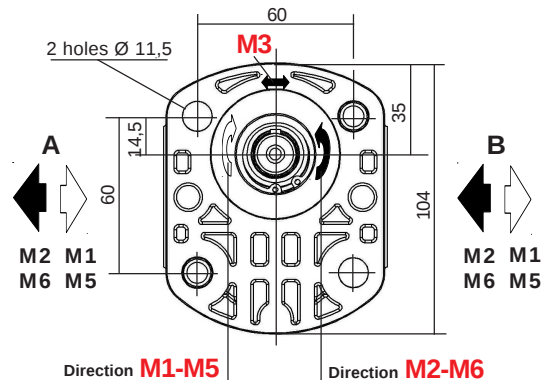
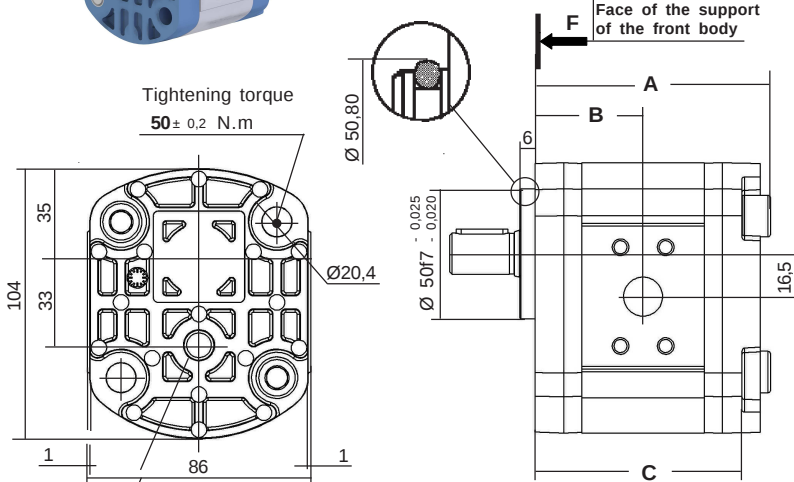
F.T 25 1466 5/5

Consult us for availability



For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity	Dimensions		
	A	B	C
12	105	49	94
15 - 17 - 18 - 22	120	57	110

Seals kits:

M1 - M2
Nitrile: **K5069890 + K101513**
Viton: **K5069820 + K101326**
(For manufacture to since january 1984)

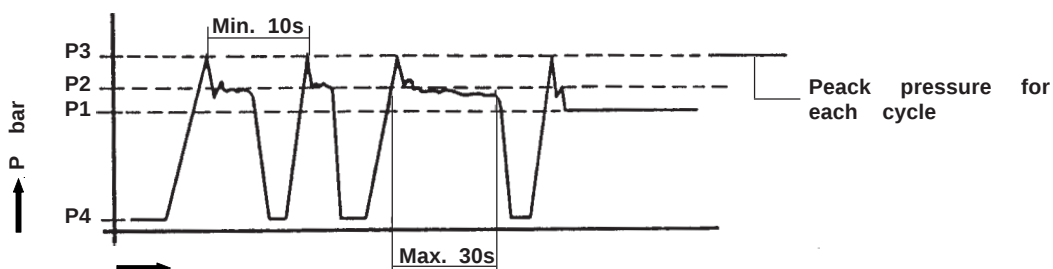
M3 - M5/M6
Nitrile: **K5073287 + K101513**
Viton: **K5071068 + K101326**
(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,3
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	2,6
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	2,7
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}	1000 ^{225 bar}	3500	2,7
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}	1000 ^{225 bar}	3500	2,8

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

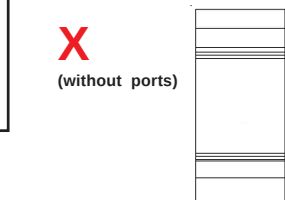
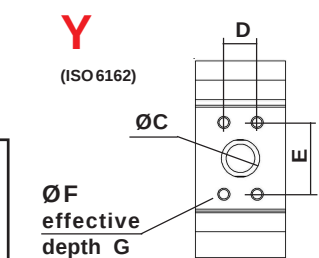
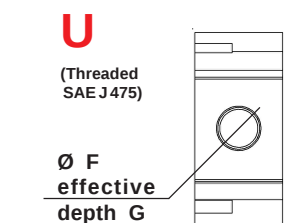
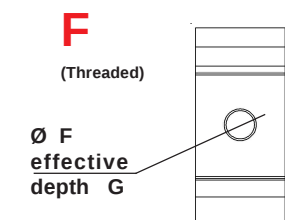
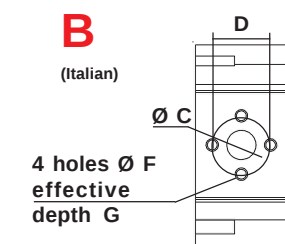
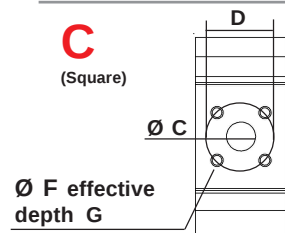
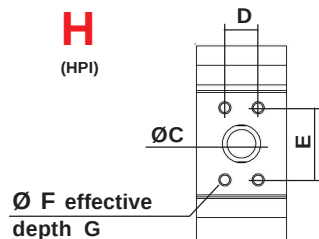
P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
											INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
2512 to 2522	15	17,4	22,4	M6	12	26	47,6	22,4	M6	12	A	B	B	A	B	A
2512 to 2522	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
2512 to 2522	15	30		M6	13	23,5	40		M8	13	A	B	B	A	B	A
2512 to 2522				1/2" BSP	14				1" BSP	18	A	B	B	A	B	A
2512				7/8" 14 UNF 2B	17				1"5/16 12 UNF	20	A	B	B	A	B	A
2515 to 2522				1"1/16 12 UNF 2B	20				1"5/16 12 UNF 2B	20						
2512	15	17,4	38	M10	14	26	47,6	22,4	M8	14	A	B	B	A	B	A
2515 to 2522	15	17,4	38	M8	14	26	52,4	26,2	M10	14						
2512 to 2522	Only with rear body Type A										Consult us for availability					
PUBLISHING 01 / 2013																

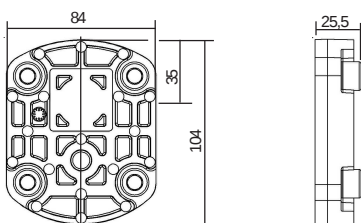
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1467 2/5

REAR BODIES for MOTORS M1 - M2

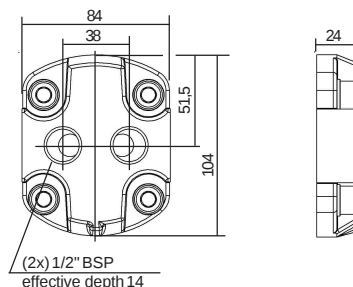
L

Standard



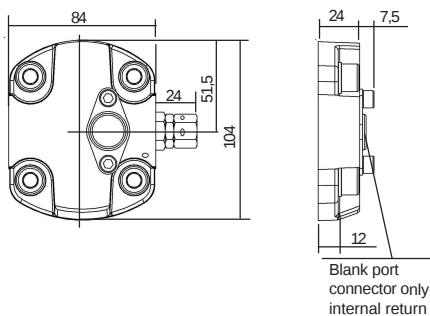
A

with ports



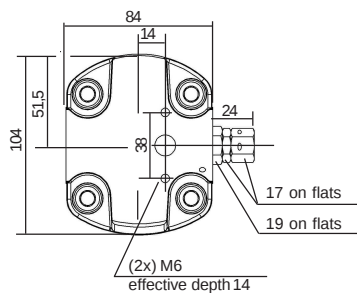
X

High pressure relief valve
(Adjustable) Internal return



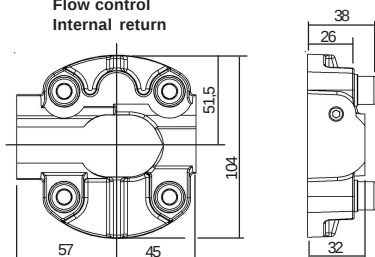
T

High pressure relief valve
(Adjustable) External return



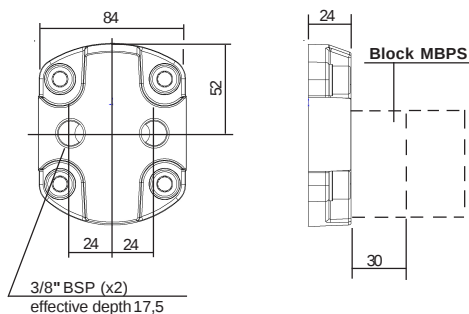
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1467 3/5



Consult us for availability

home

contents

previous

next

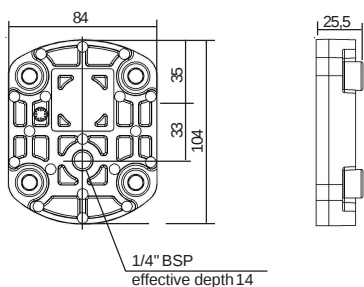
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

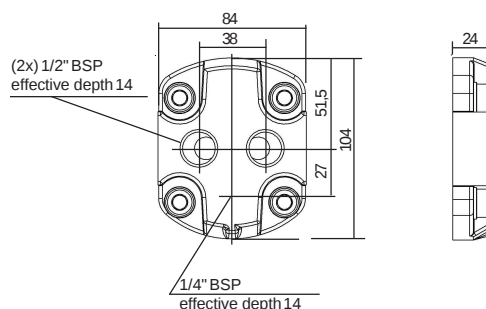
L

Standard



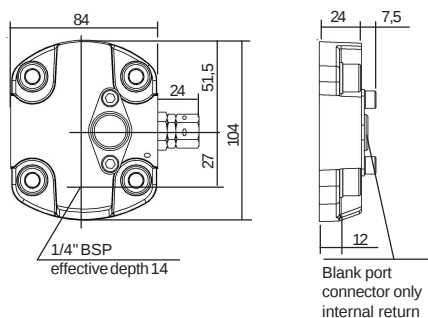
A

with ports



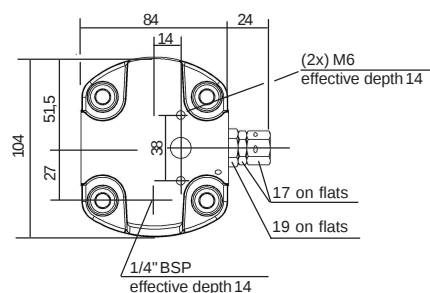
X

High pressure relief valve
(Adjustable) Internal return



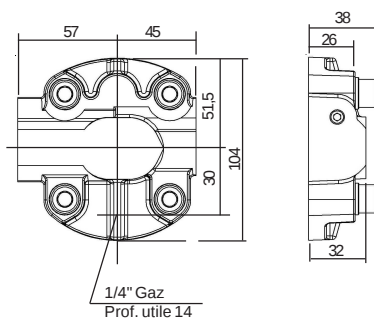
T

High pressure relief valve
(Adjustable) External return



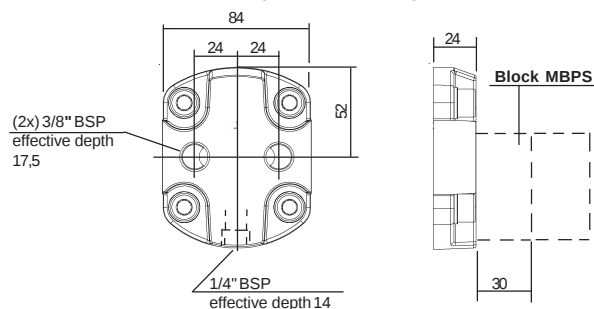
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			

 Versions not manufactured

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1467 4/5

Consult us for availability

home

contents

previous

next

main dimensions

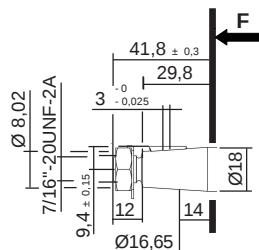
PUBLISHING 02 / 2012

DRIVING SHAFTS

Tapered

10

B02 Cône 1 / 8

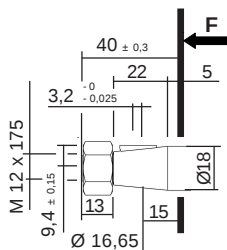


Delivered with nut: K100841

Maxi transmissible torque

250 N.m

C02 Cône 1 / 5



Delivered with nut: K106317

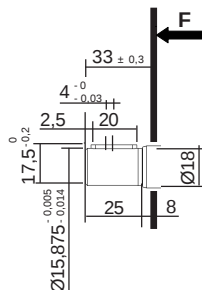
Maxi transmissible torque

220 N.m

Straight keyed

20

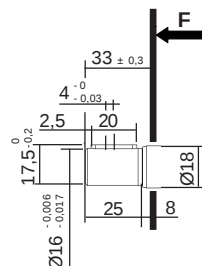
A01



Maxi transmissible torque

50 N.m

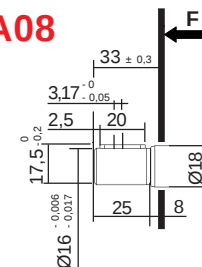
C02



Maxi transmissible torque

50 N.m

A08



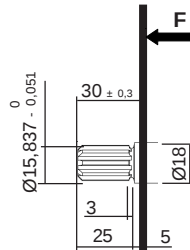
Maxi transmissible torque

50 N.m

Splined

30

A01

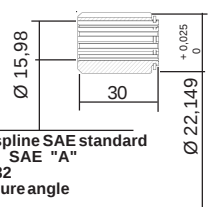


Involute spline SAE Standard
9 teeth - Pitch 16/32 - Flat root
30° Pressure angle

Maxi transmissible torque

100 N.m

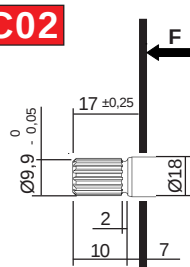
Sleeve coupling 9 teeth / 13 teeth
Ref.: K.5041310
Mounting with splinned shaft 30 A01



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

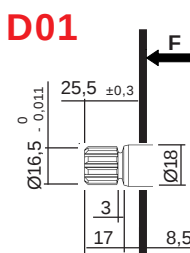


Involute spline shaft 17x15x1
Standard NF E 22 141 - BNA 455
Spigot on free flanks

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

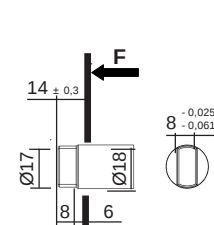
Maxi transmissible torque

100 N.m

Tang

40

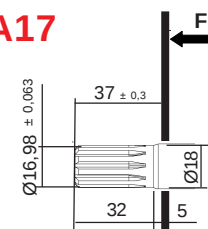
C03



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 1467 5/5

Consult us for availability

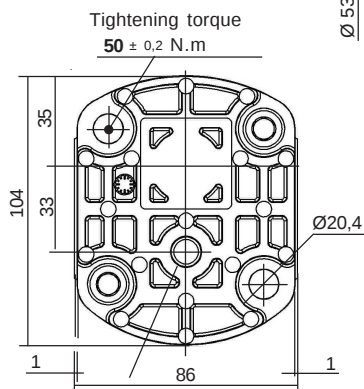


M **II** **DUK** **25** **VI** **HL** **40** **D02** **XII**
Sign Sign Sign Sign Sign Sign Sign Sign

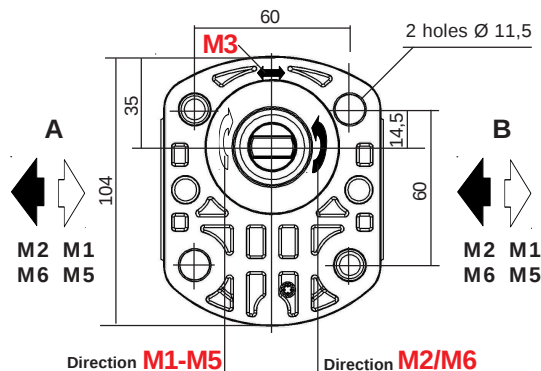
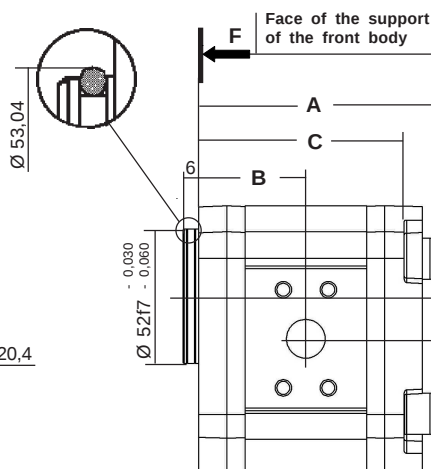
For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)

ATTENTION:
Mounting without tightness seal



Tightening torque
50 ± 0,2 N.m



Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity

Dimensions

	A	B	C
12	105	49	94
15 - 17 - 18 - 22	120	57	110

Seals kits:

M1 - M2

Nitrile: **K5069890 + K102539**

Viton: **K5069820 + K107013**

(For manufacture to since january 1984)

M3 - M5/M6

Nitrile: **K5073287 + K102539**

Viton: **K5071068 + K107013**

(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,3
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	2,6
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	2,7
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}		3500	2,7
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}		3500	2,8

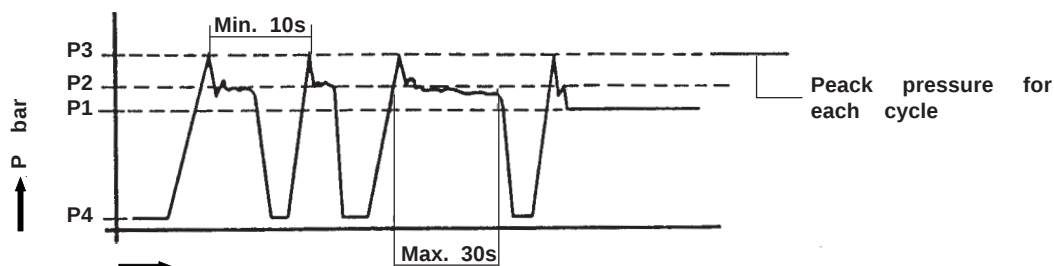
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

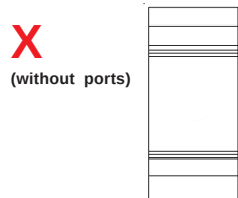
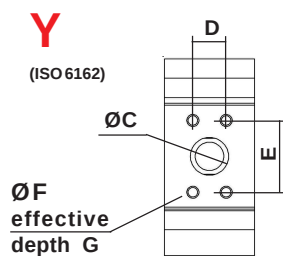
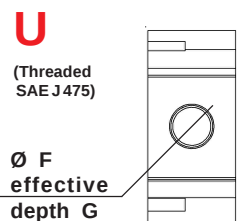
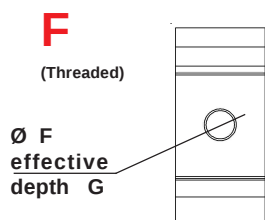
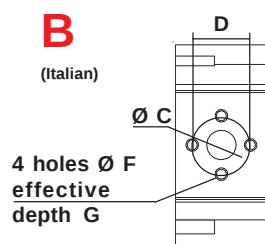
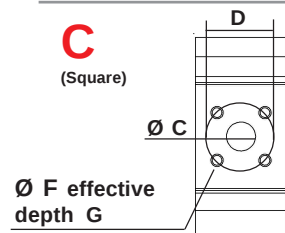
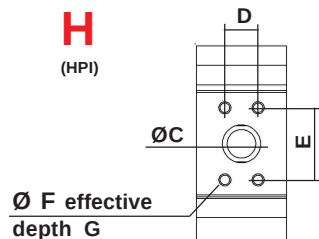
P4 Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
											INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
2512 to 2522	15	17,4	22,4	M6	12	26	47,6	22,4	M6	12	A	B	B	A	B	A
2512 to 2522	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
2512 to 2522	15	30		M6	13	23,5	40		M8	13	A	B	B	A	B	A
2512 to 2522				1/2" BSP	14				1" BSP	18	A	B	B	A	B	A
2512				7/8" 14 UNF 2B	17				1"5/16 12 UNF	20	A	B	B	A	B	A
2515 to 2522				1"1/16 12 UNF 2B	20				1"5/16 12 UNF 2B	20						
2512	15	17,4	38	M10	14	26	47,6	22,4	M8	14	A	B	B	A	B	A
2515 to 2522	15	17,4	38	M8	14	26	52,4	26,2	M10	14						
2512 to 2522	Only with rear body Type A										Consult us for availability					
PUBLISHING 01 / 2013																

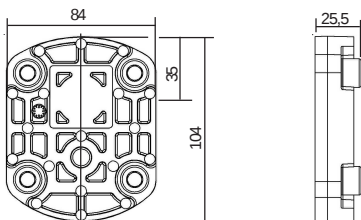
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1468 2/5

REAR BODIES for MOTORS M1 - M2

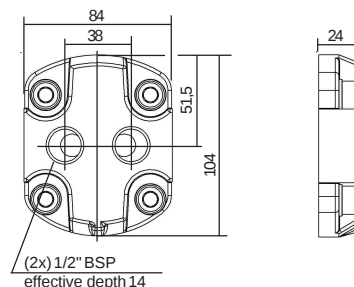
L

Standard



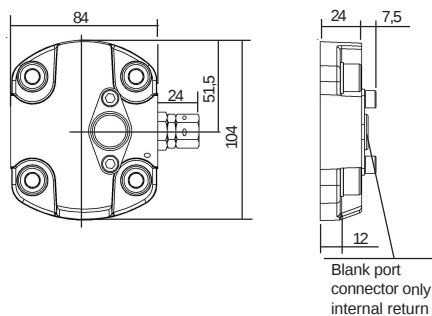
A

with ports



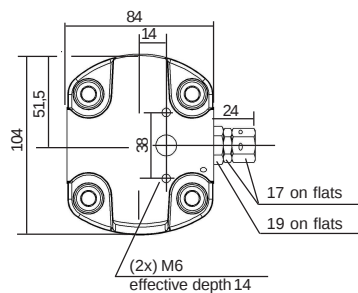
X

High pressure relief valve
(Adjustable) Internal return



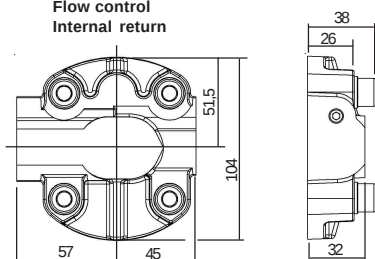
T

High pressure relief valve
(Adjustable) External return



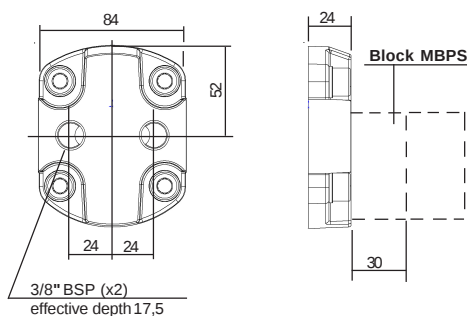
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1468 3/5

Consult us for availability

home

contents

previous

next

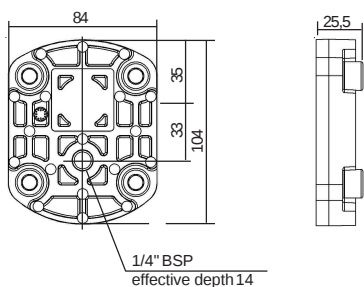
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

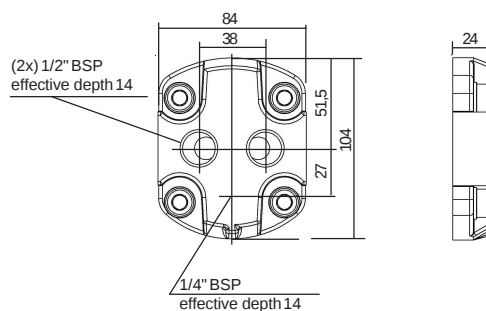
L

Standard



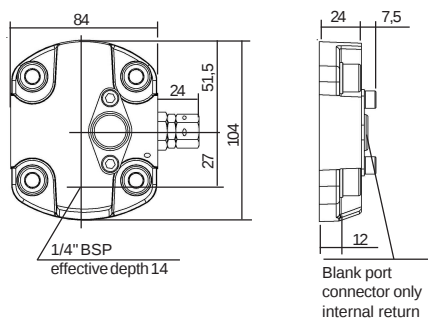
A

with ports



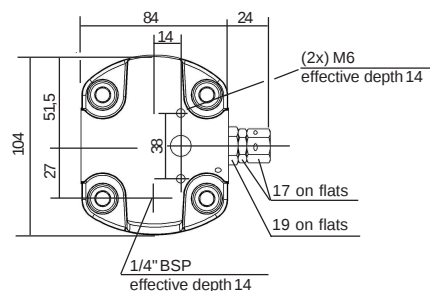
X

High pressure relief valve
(Adjustable) Internal return



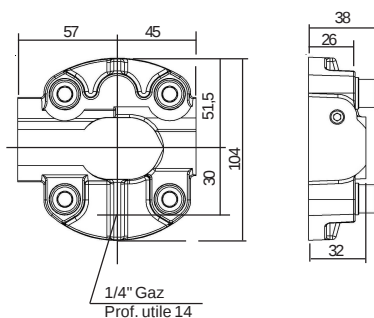
T

High pressure relief valve
(Adjustable) External return



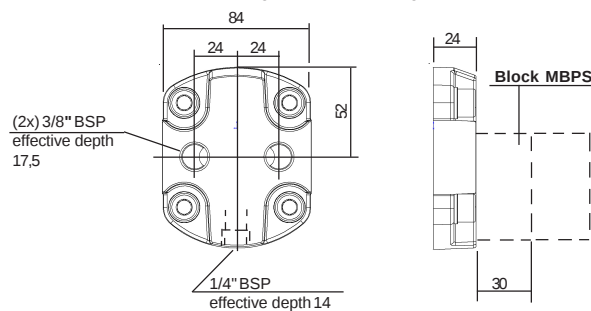
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			

 Versions not manufactured

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1468 4/5



Consult us for availability

home

contents

previous

next

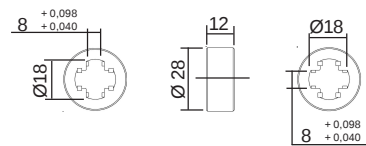
main dimensions

PUBLISHING 02 / 2012

DRIVING SHAFT (DUK)

Tapered	Straight keyed	Splined	Tang
10	20	30	40
			D02 Max tightening torque 70 N.m

Coupling on request: Ref. K102947



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1468 5/5

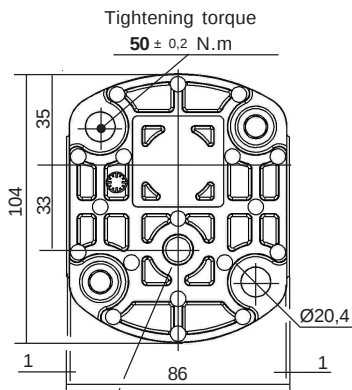
Consult us for availability



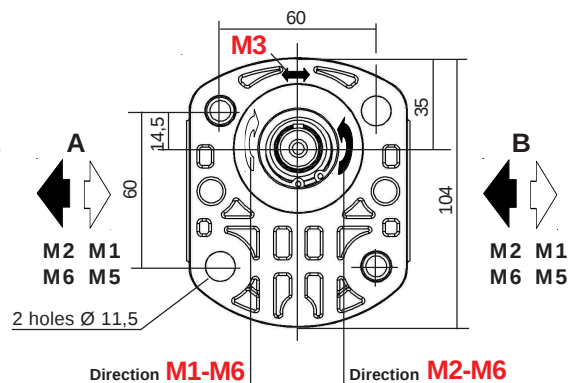
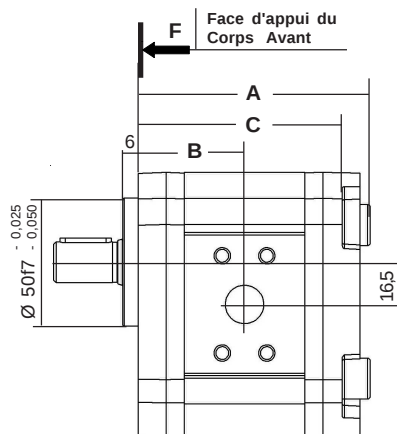
M **II** **DW** **N** **25** **VI** **H** **L** **IX** **X** **XI** **XII**
Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign

For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Tightening torque
50 ± 0.2 N.m



Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity	Dimensions		
	A	B	C
12	105	49	94
15 - 17 - 18 - 22	120	57	110

Seals kits:

M1 - M2
Nitrile: **K5069890**
Viton: **K5069820**
(For manufacture to since january 1984)

M3 - M5/M6
Nitrile: **K5073287**
Viton: **K5071068**
(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,3
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	2,6
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	2,7
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}		3500	2,7
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}		3500	2,8

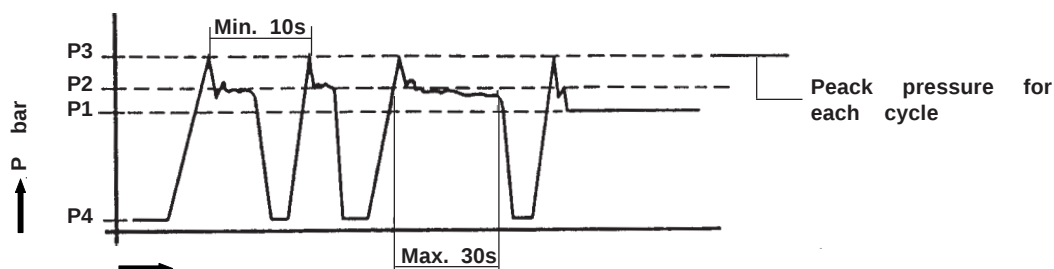
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet ≤ P (Only in M3)



CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

AFFECTATION																
1 way rotation without counter pressure M1								2 ways rotation with counter pressure M2								
ENTREE				SORTIE				ENTREE				SORTIE				
1 way rotation with counter pressure M5								M3								
INLET				OUTLET				INLET				OUTLET				
INLET				OUTLET				INLET				OUTLET				
2	A				B				B				A			
	B				A				A				B			
2	A				B				B				A			
	B				A				A				B			
3	A				B				B				A			
	B				A				A				B			
3	A				B				B				A			
	B				A				A				B			
0	A				B				B				A			
	B				A				A				B			
4	A				B				B				A			
	B				A				A				B			
4	A				B				B				A			
	B				A				A				B			

Dimensions readings and approximative characteristics subject to modifications.

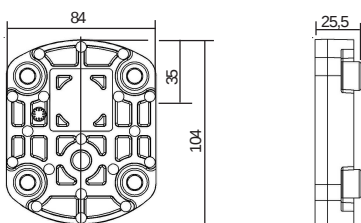
F.T 25 1469 2/5


Consult us for availability

REAR BODIES for MOTORS M1 - M2

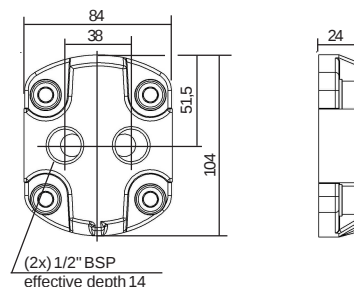
L

Standard



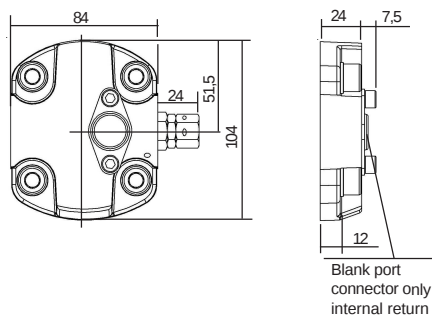
A

with ports



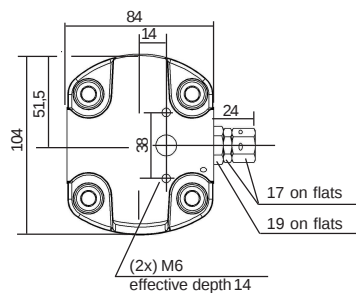
X

High pressure relief valve
(Adjustable) Internal return



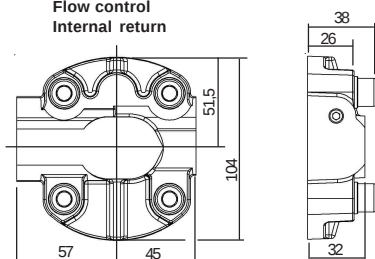
T

High pressure relief valve
(Adjustable) External return



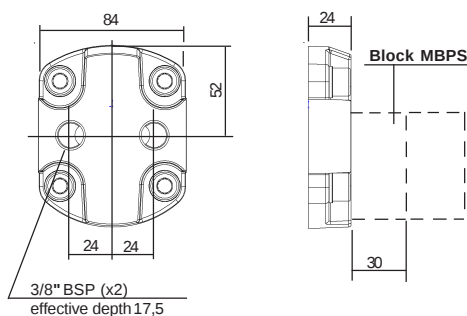
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1469 3/5



Consult us for availability

home

contents

previous

next

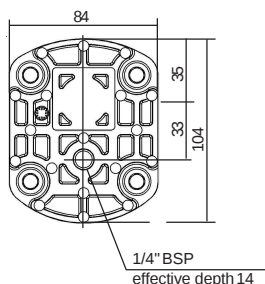
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

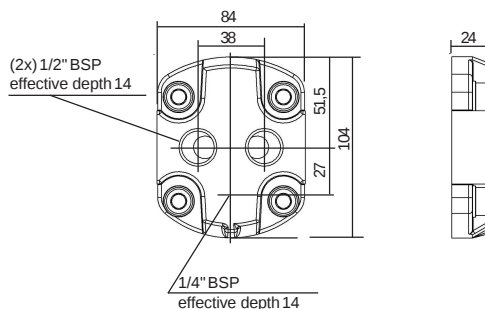
L

Standard



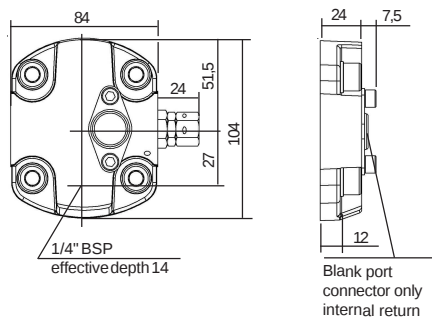
A

with ports



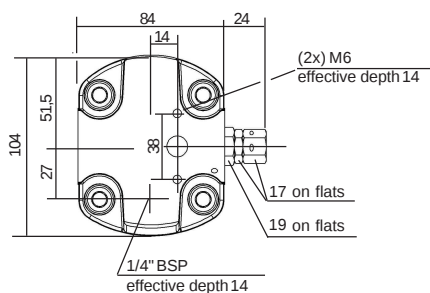
X

High pressure relief valve
(Adjustable) Internal return



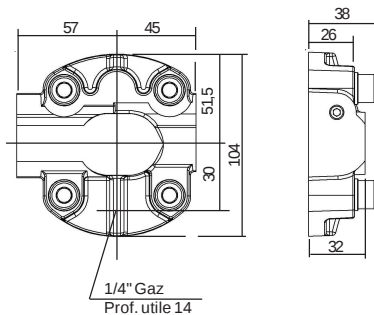
T

High pressure relief valve
(Adjustable) External return



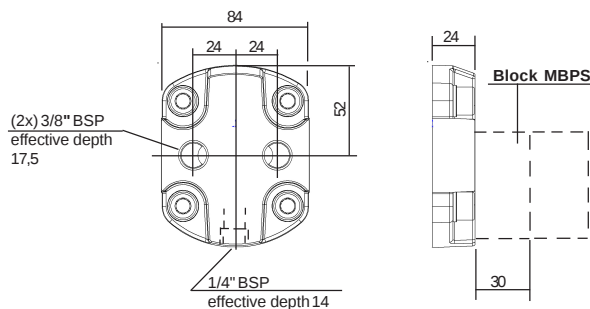
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

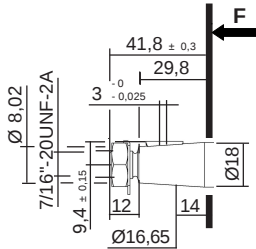
Consult us for availability

DRIVING SHAFTS

Tapered

10

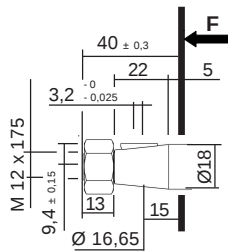
B02 Cône 1 / 8



Delivered with nut: K100841

Maxi transmissible torque
250 N.m

C02 Cône 1 / 5



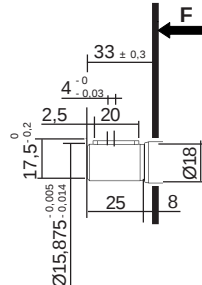
Delivered with nut: K106317

Maxi transmissible torque
220 N.m

Straight keyed

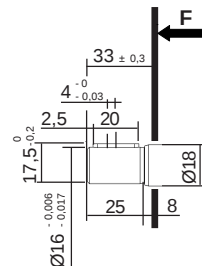
20

A01



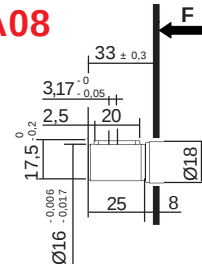
Maxi transmissible torque
50 N.m

C02



Maxi transmissible torque
50 N.m

A08

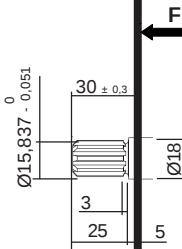


Maxi transmissible torque
50 N.m

Splined

30

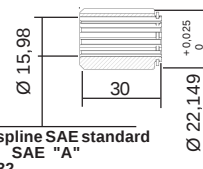
A01



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

Maxi transmissible torque
100 N.m

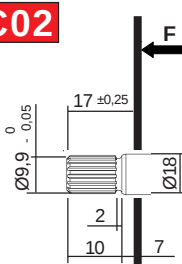
Sleeve coupling 9 teeth / 13 teeth
Ref.: K.5041310
Mounting with splined shaft 30 A01



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

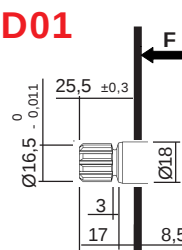
C02



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

Maxi transmissible torque
100 N.m

D01



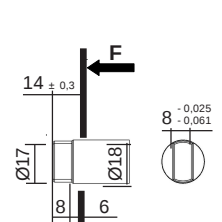
Involute spline shaft B 17 x 14
9 teeth - Standard DIN 5482 - Module 1,6
Spigot on free flanks

Maxi transmissible torque
100 N.m

Tang

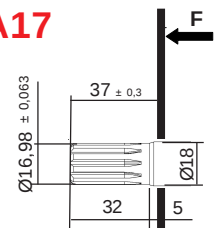
40

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 1469 5/5

Consult us for availability

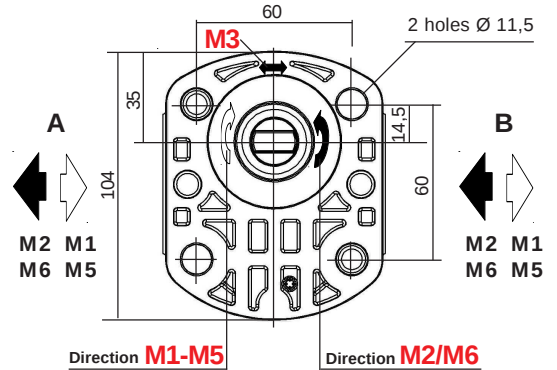
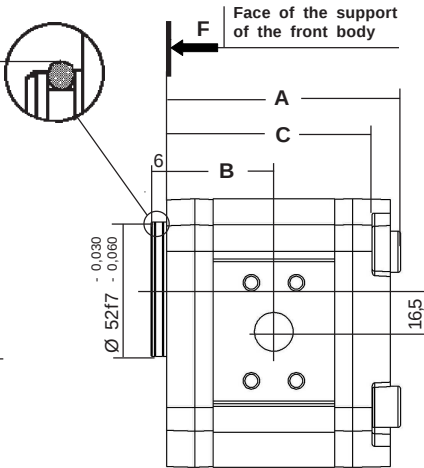
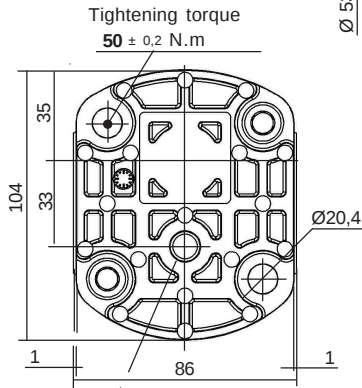


M **II** **DZ** **K** **25** **VI** **H** **L** **4** **0** **D02** **XII**
Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign

For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)

ATTENTION:
Mounting without tightness seal



Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity	Dimensions		
	A	B	C
12	105	49	94
15 - 17 - 18 - 22	120	57	110

Seals kits:

M1 - M2
Nitrile: **K5069890 + K102539**
Viton: **K5069820 + K107013**
(For manufacture to since january 1984)

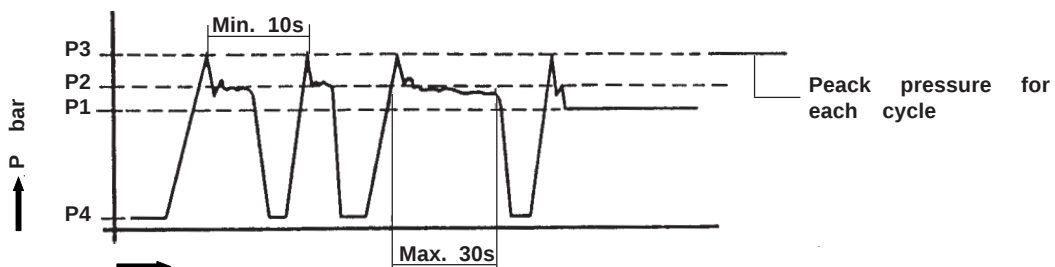
M3 - M5/M6
Nitrile: **K5073287 + K102539**
Viton: **K5071068 + K107013**
(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,3
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	2,6
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	2,7
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}	1000 ^{225 bar}	3500	2,7
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}	1000 ^{225 bar}	3500	2,8

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

		AFFECTATION									
		1 way rotation without counter pressure					2 ways rotation with counter pressure				
		M1		M2		M5		M6		M3	
		ENTREE	SORTIE	ENTREE	SORTIE	ENTREE	SORTIE	ENTREE	SORTIE	ENTREE	SORTIE
		1 way rotation with counter pressure		1 way rotation with counter pressure		1 way rotation with counter pressure		1 way rotation with counter pressure		1 way rotation with counter pressure	
		M5		M6		M5		M6		M5	
		INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
H (HPI)	2512 to 2522	A	B	B	A	B	A	B	A	B	A
C (Square)	2512 to 2522	A	B	B	A	B	A	B	A	B	A
B (Italian)	2512 to 2522	A	B	B	A	B	A	B	A	B	A
F (Threaded)	2512 to 2522	A	B	B	A	B	A	B	A	B	A
U (Threaded SAE J 475)	2512	A	B	B	A	B	A	B	A	B	A
	2515 to 2522	A	B	B	A	B	A	B	A	B	A
Y (ISO 6162)	2512	A	B	B	A	B	A	B	A	B	A
	2515 to 2522	A	B	B	A	B	A	B	A	B	A
X (without ports)	2512 to 2522										



Consult us for availability

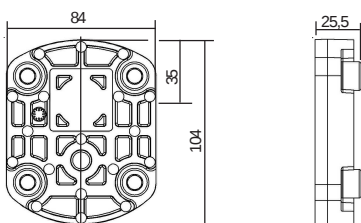
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1470 2/5

REAR BODIES for MOTORS M1 - M2

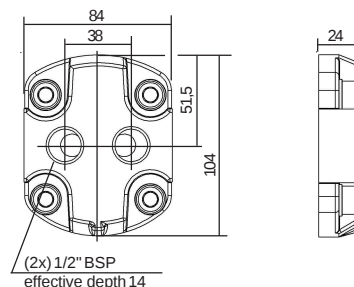
L

Standard



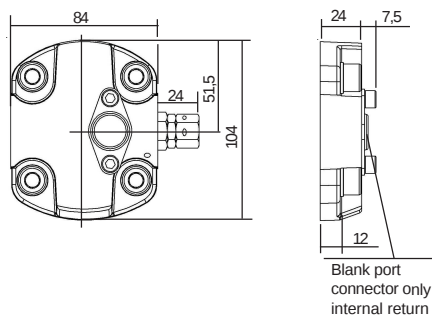
A

with ports



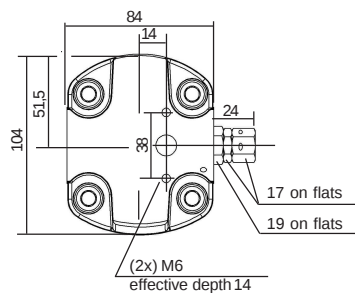
X

High pressure relief valve
(Adjustable) Internal return



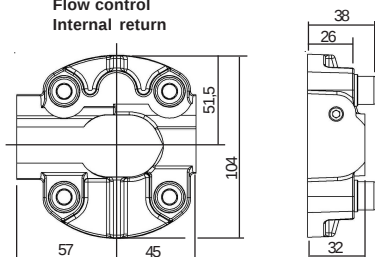
T

High pressure relief valve
(Adjustable) External return



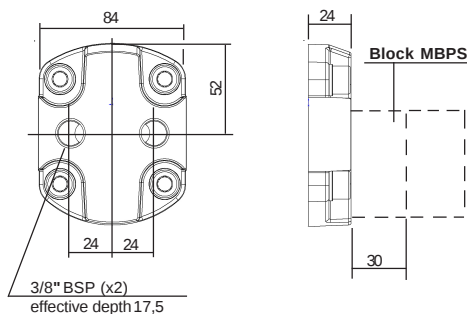
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1470 3/5



Consult us for availability

home

contents

previous

next

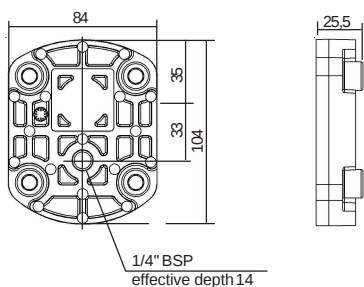
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

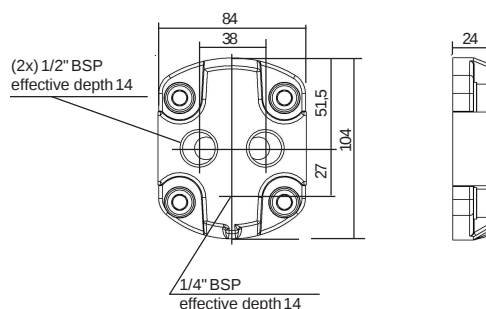
L

Standard



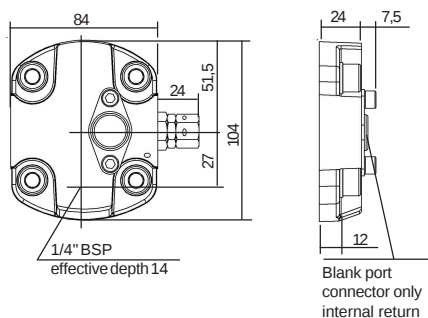
A

with ports



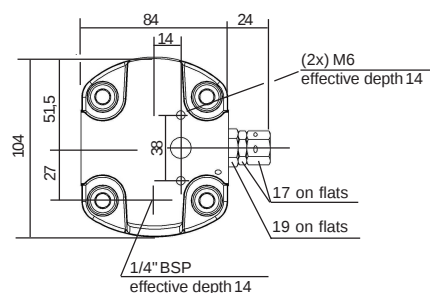
X

High pressure relief valve
(Adjustable) Internal return



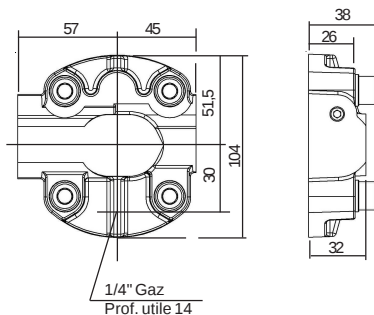
T

High pressure relief valve
(Adjustable) External return



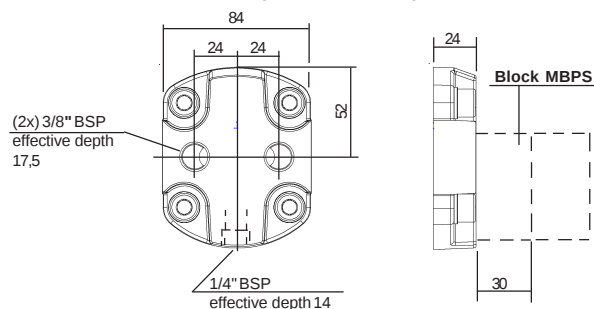
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			

 Versions not manufactured



Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1470 4/5

DRIVING SHAFT (DUK)

Tapered	Straight keyed	Splined	Tang
10	20	30	40

D02

Max tightening torque
70 N.m

Coupling on request: Ref. K102947

Dimensions readings and approximative characteristics subject to modifications.

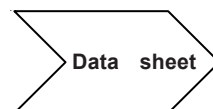


F.T 20 1433

MOTORS PRESENTATION SERIES 2 and 2,5

- THICK FRONT BODIES

MOTOR **AAP**



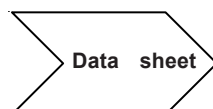
F.T 25 1471

MOTO R **AAR**



F.T 25 1472

MOTOR **ARP**



F.T 25 1473

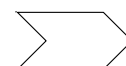
MOTOR **ARK**



F.T 25 1474

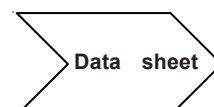


Consult us for availability



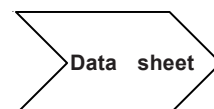
- THICK FRONT BODIES (rest)

MOTOR **AVP**



F.T 25 1475

MOTOR **DBP**

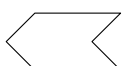


F.T 25 1476

MOTOR **DBR**



F.T 25 1477



Consult us for availability

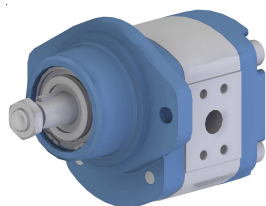
[home](#)

[contents](#)

[previous](#)

[next](#)

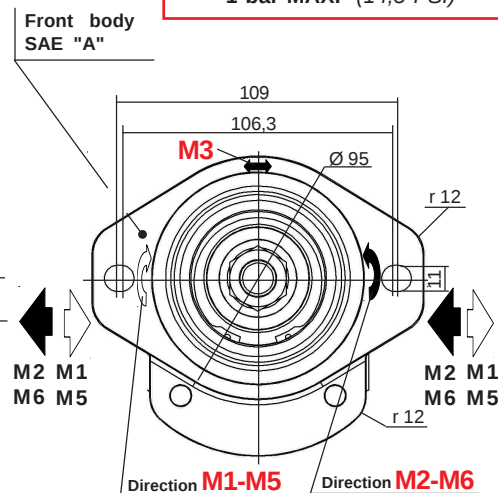
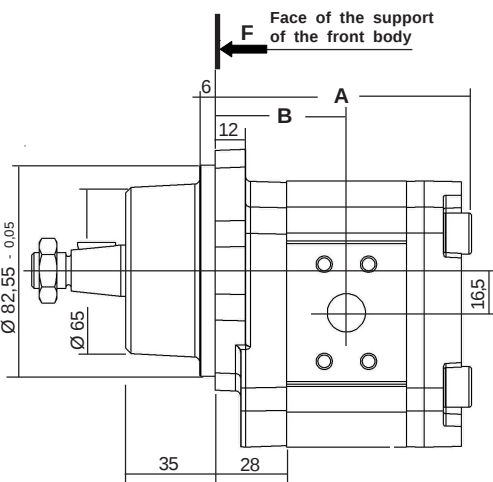
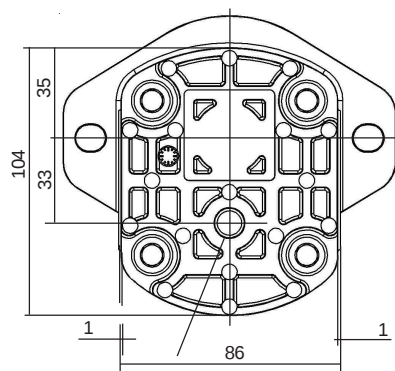
[main dimensions](#)



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

For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 14 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity

Dimensions

	A	B
12	115	58
15 - 17 - 18 - 22	131	67

Seals kits:

M1 - M2
Nitrile: **K5069870 + K5069830**
Viton: **K5069880 + K5069840**
(For manufacture to since january 1984)

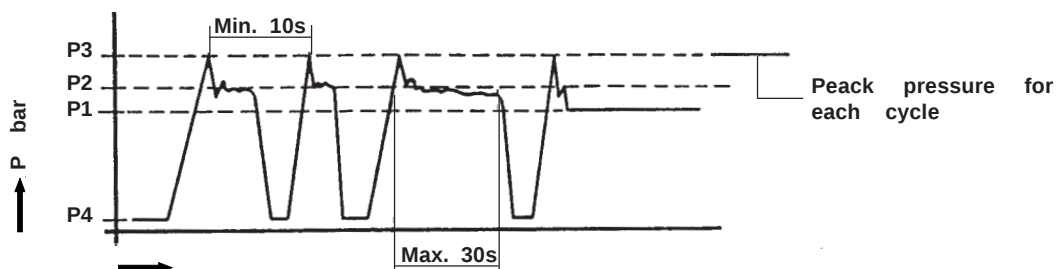
M3 - M5/M6
Nitrile: **K5071067 + K5071069**
Viton: **K5071068 + K5071070**
(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,8
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	3,1
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	3,2
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}		3500	3,3
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}		3500	3,4

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



F.T 25 1471 1/5

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

AFFECTATION																								
1 way rotation without counter pressure								2 ways rotation with counter pressure																
M1				M2																				
ENTREE				SORTIE				ENTREE				SORTIE												
1 way rotation with counter pressure								M3																
M5				M6																				
INLET				OUTLET				INLET				OUTLET												
INLET				OUTLET				INLET				OUTLET												
2	A				B				B				A				B				A			
2	A				B				B				A				B				A			
3	A				B				B				A				B				A			
3	A				B				B				A				B				A			
0	A				B				B				A				B				A			
4	A				B				B				A				B				A			
4	A				B				B				A				B				A			

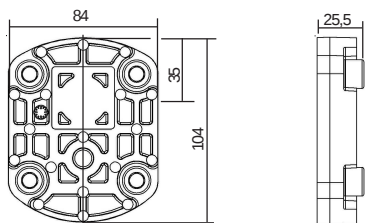
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1471 2/5

REAR BODIES for MOTORS M1 - M2

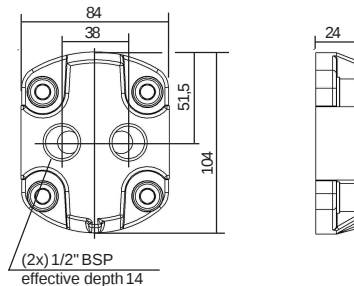
L

Standard



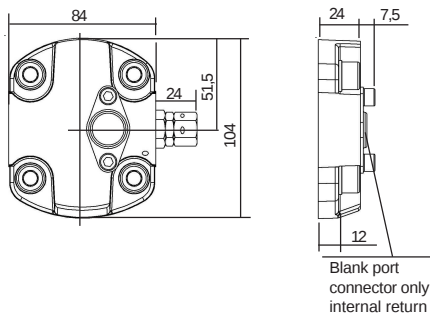
A

with ports



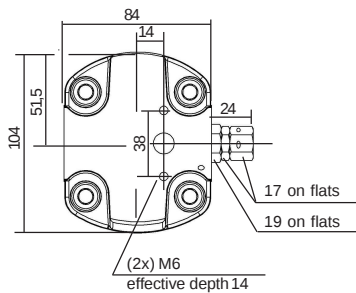
X

High pressure relief valve
(Adjustable) Internal return



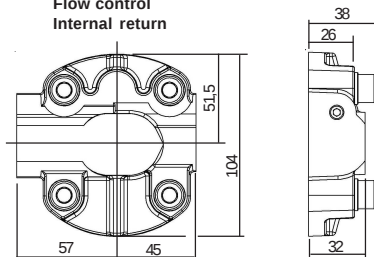
T

High pressure relief valve
(Adjustable) External return



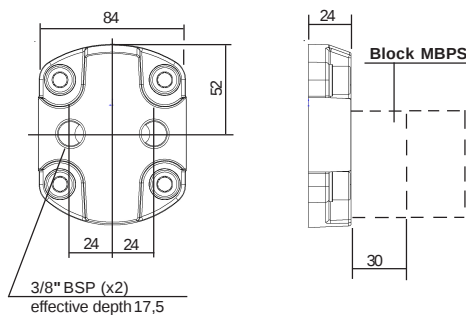
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1471 3/5



Consult us for availability

home

contents

previous

next

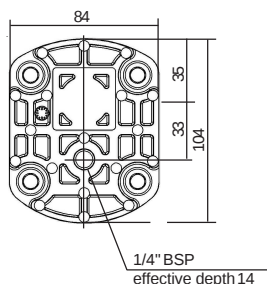
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

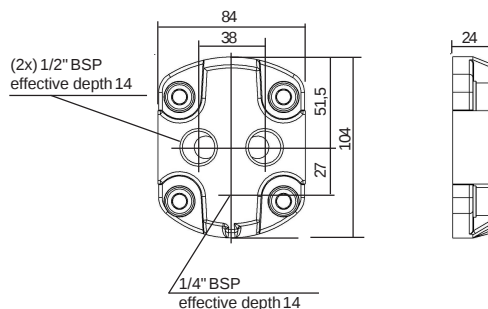
L

Standard



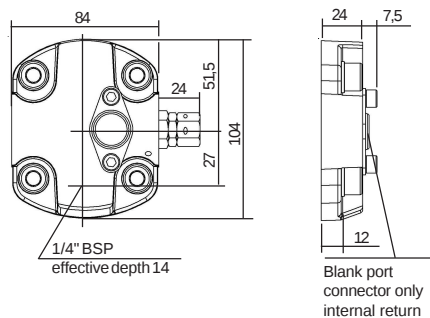
A

with ports



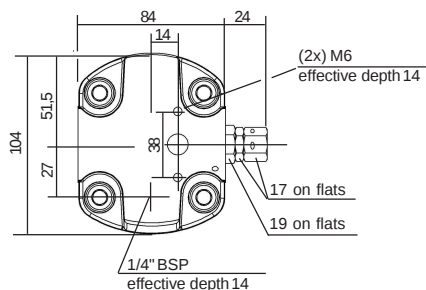
X

High pressure relief valve
(Adjustable) Internal return



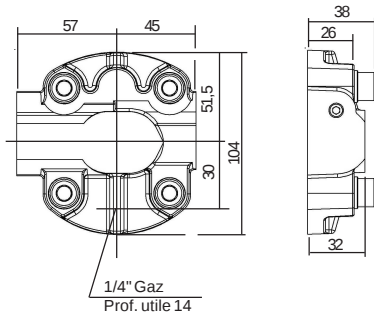
T

High pressure relief valve
(Adjustable) External return



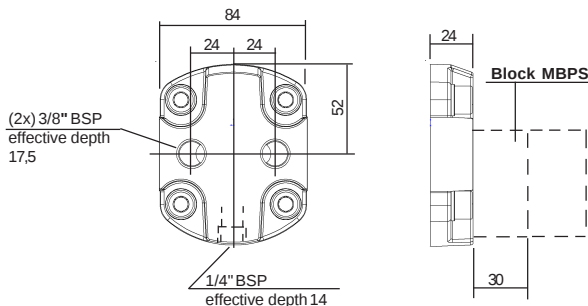
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1471 4/5

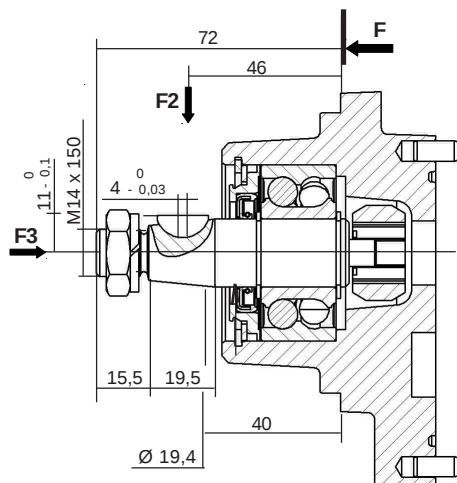
DRIVING SHAFTS

Tapered

10

C03

Taper 1/5



Delivered with nut: K102045

F2 Maxi: 120 daN

F3 Maxi: 50 daN

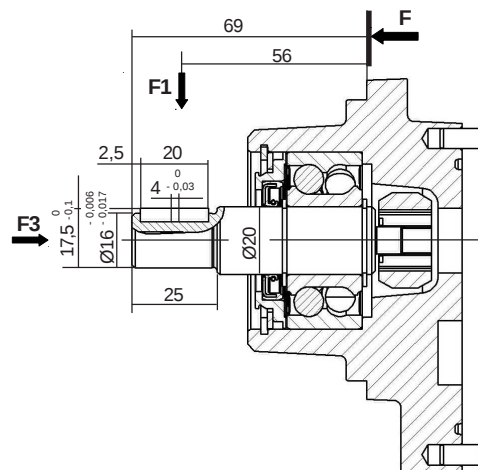
Maxi transmissible torque

70 N.m

Straight keyed

20

C03



F1 Maxi: 100 daN

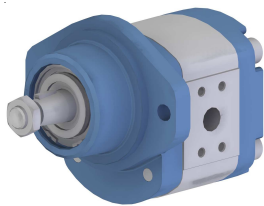
F3 Maxi: 50 daN

Maxi transmissible torque

50 N.m

Dimensions readings and approximative characteristics subject to modifications.

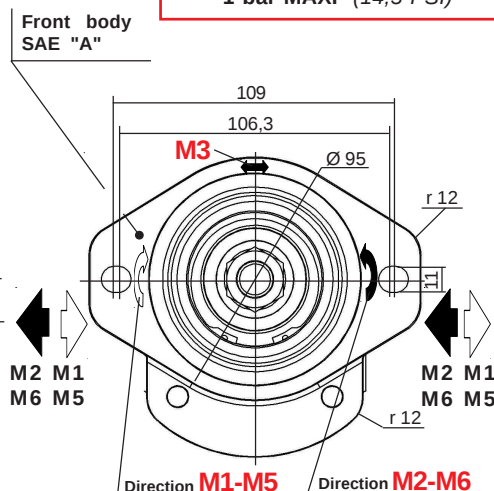
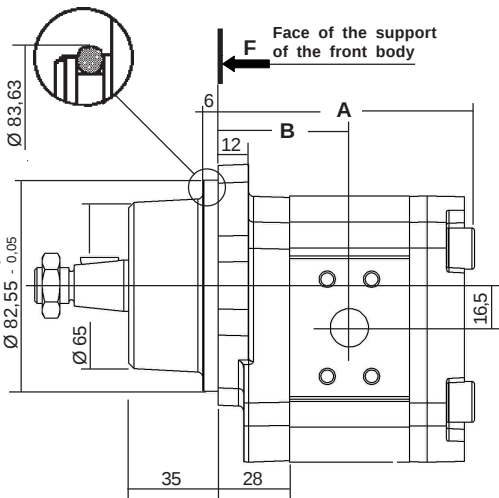
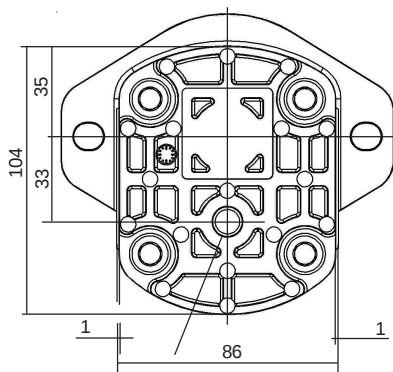
F.T 25 1471 5/5



M II Sign **AA** **R** **25** VI Sign **H** **L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity

Dimensions

	A	B
12	115	58
15 - 17 - 18 - 22	131	67

Seals kits:

M1 - M2

Nitrile: **K5069870 + K5069830 + K102901**

Viton: **K5069880 + K5069840 + K104093**

(For manufacture to since january 1984)

M3 - M5/M6

Nitrile: **K5071067 + K5071069 + K102902**

Viton: **K5071068 + K5071070 + K104093**

(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,8
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000	3500	3,1
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000	3500	3,2
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800	175 bar	3500	3,3
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800	150 bar	3500	3,4

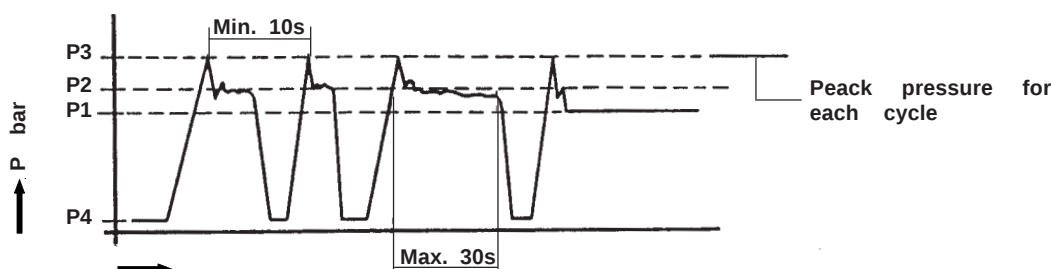
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

home

contents

previous

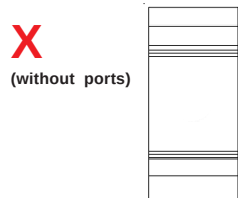
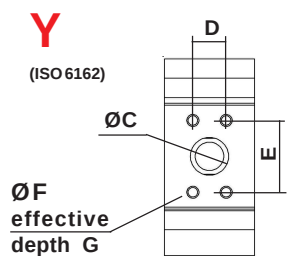
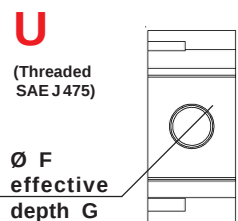
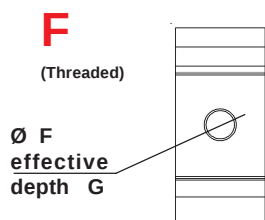
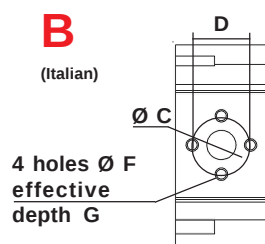
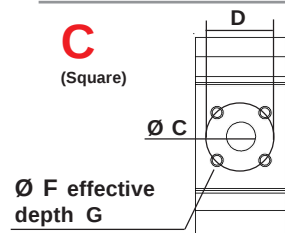
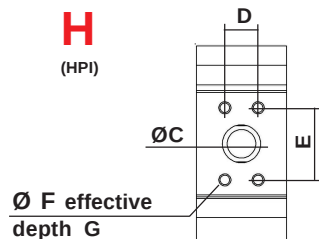
next

main dimensions

PUBLISHING 02 / 2012

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
											INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
2512 to 2522	15	17,4	22,4	M6	12	26	47,6	22,4	M6	12	A	B	B	A	B	A
2512 to 2522	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
2512 to 2522	15	30		M6	13	23,5	40		M8	13	A	B	B	A	B	A
2512 to 2522				1/2" BSP	14				1" BSP	18	A	B	B	A	B	A
2512				7/8" 14 UNF 2B	17				1"5/16 12 UNF	20	A	B	B	A	B	A
2515 to 2522				1"1/16 12 UNF 2B	20				1"5/16 12 UNF 2B	20						
2512	15	17,4	38	M10	14	26	47,6	22,4	M8	14	A	B	B	A	B	A
2515 to 2522	15	17,4	38	M8	14	26	52,4	26,2	M10	14						
2512 to 2522	Only with rear body Type A										Consult us for availability					
PUBLISHING 01 / 2013																

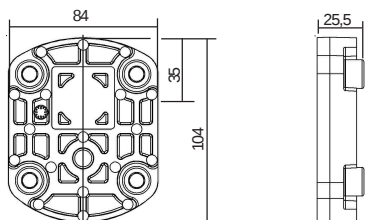
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1472 2/5

REAR BODIES for MOTORS M1 - M2

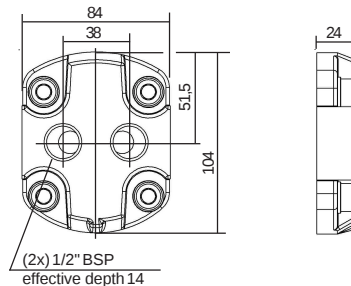
L

Standard



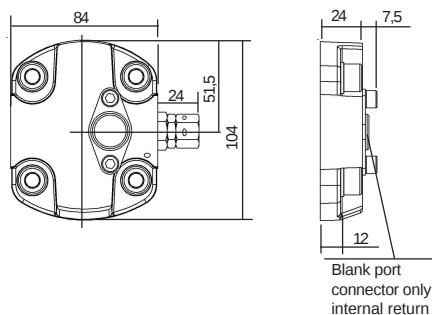
A

with ports



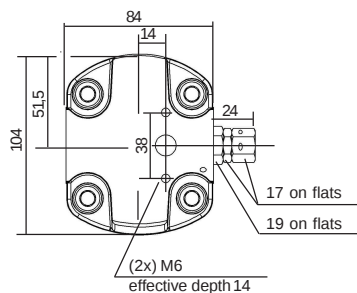
X

High pressure relief valve
(Adjustable) Internal return



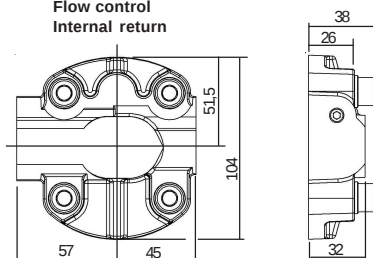
T

High pressure relief valve
(Adjustable) External return



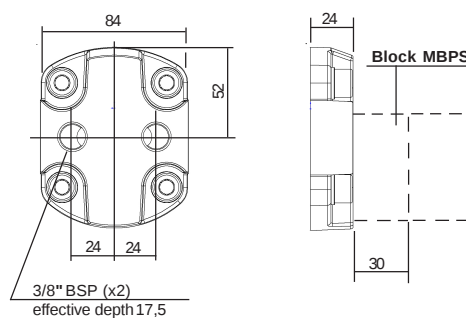
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1472 3/5



Consult us for availability

home

contents

previous

next

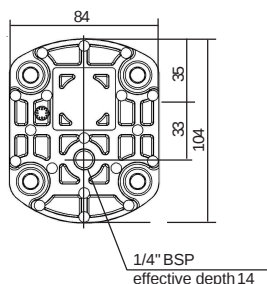
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

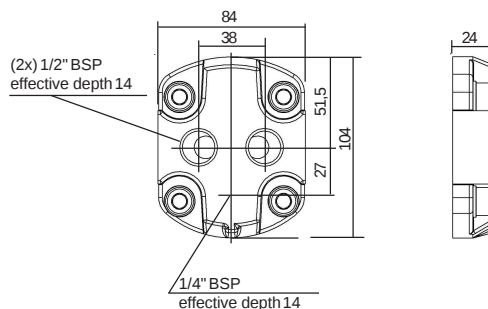
L

Standard



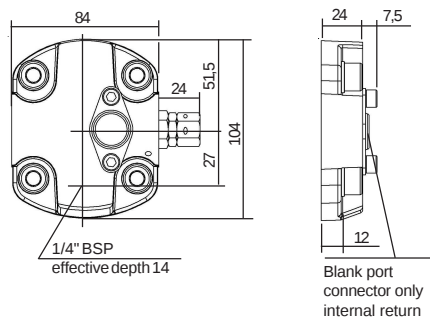
A

with ports



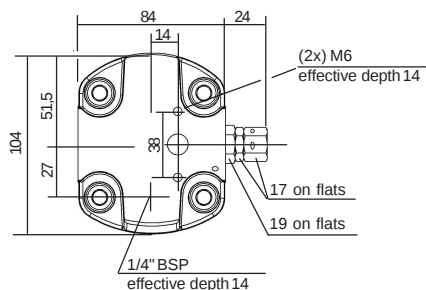
X

High pressure relief valve
(Adjustable) Internal return



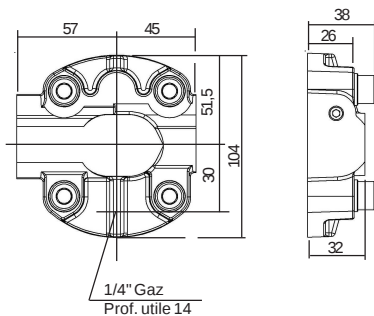
T

High pressure relief valve
(Adjustable) External return



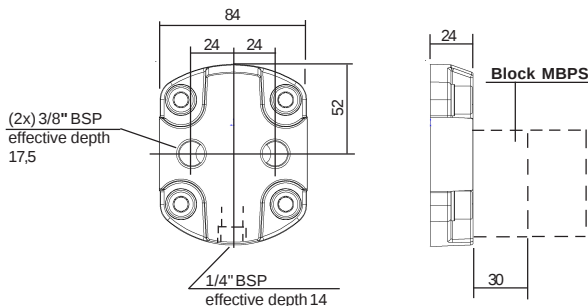
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1472 4/5

Consult us for availability

home

contents

previous

next

main dimensions

PUBLISHING 02 / 2012

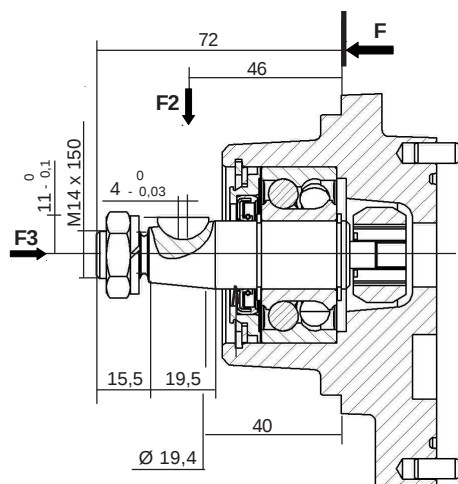
DRIVING SHAFTS

Tapered

10

C03

Taper 1/5



Delivered with nut: K102045

F2 Maxi: 120 daN

F3 Maxi: 50 daN

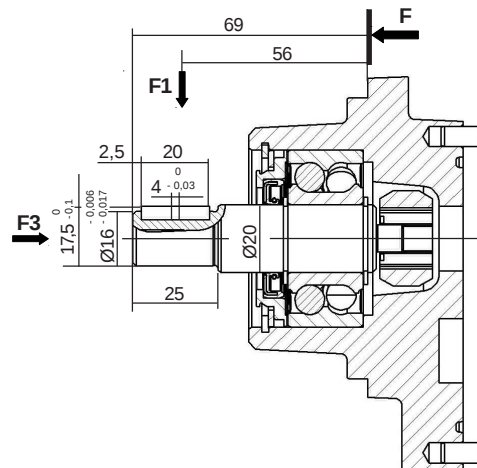
Maxi transmissible torque

70 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 1472 5/5

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

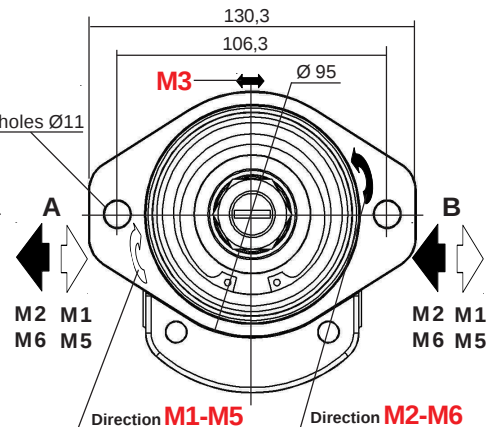
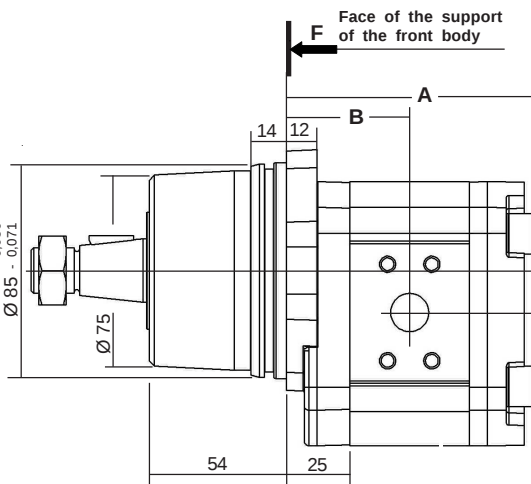
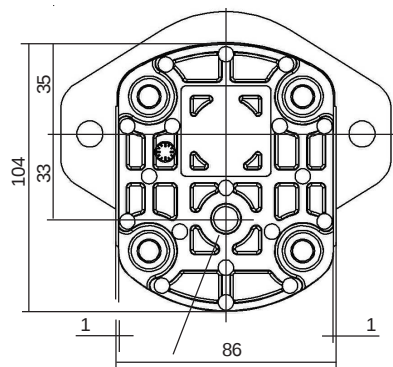
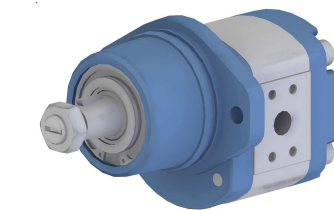
PUBLISHING 02 / 2012

280
/ 00

M II Sign AR P 2 5 VI Sign H L 1 0 C05 XII Sign

For CODIFICATION, see data sheet F.T.R 0243

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity

Dimensions
A B

12	112	56
15 - 17 - 18 - 22	128	64

Seals kits:

M1 - M2
Nitrile: K5069830 + K5069870
Viton: K5069840 + K5069880
(For manufacture to since january 1984)

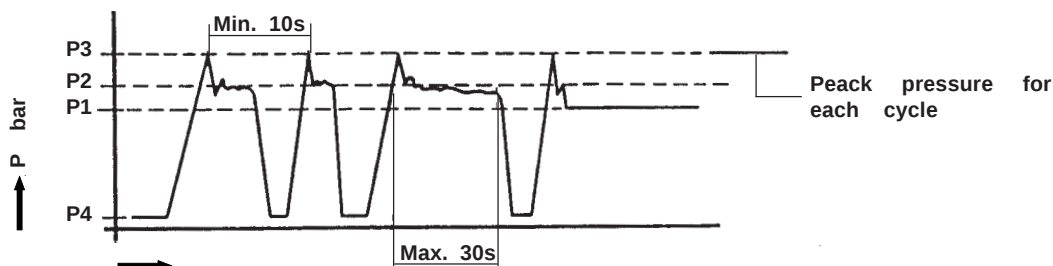
M3 - M5/M6
Nitrile: K5071069 + K5069870
Viton: K5071070 + K5069880
(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,8
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ²²⁵ bar	3500	3,1
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ²²⁵ bar	3500	3,2
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ¹⁷⁵ bar		3500	3,3
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ¹⁵⁰ bar		3500	3,4

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

AFFECTATION											
1 way rotation without counter pressure								2 ways rotation with counter pressure			
M1				M2				M3			
ENTREE		SORTIE		ENTREE		SORTIE					
1 way rotation with counter pressure											
M5				M6							
INLET		OUTLET		INLET		OUTLET		INLET		OUTLET	
2	A	B		B	A			B	A		
2	A	B		B	A			B	A		
3	A	B		B	A			B	A		
3	A	B		B	A			B	A		
0	A	B		B	A			B	A		
4	A	B		B	A			B	A		
4	A	B		B	A			B	A		

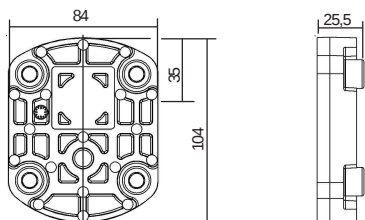
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1473 2/5

REAR BODIES for MOTORS M1 - M2

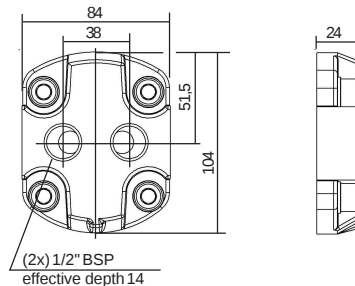
L

Standard



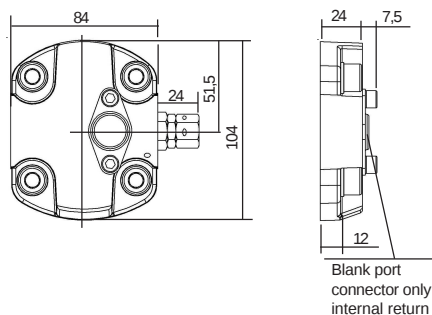
A

with ports



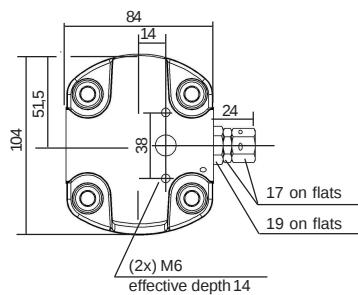
X

High pressure relief valve
(Adjustable) Internal return



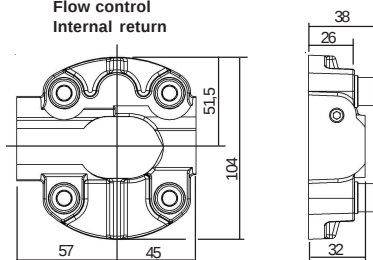
T

High pressure relief valve
(Adjustable) External return



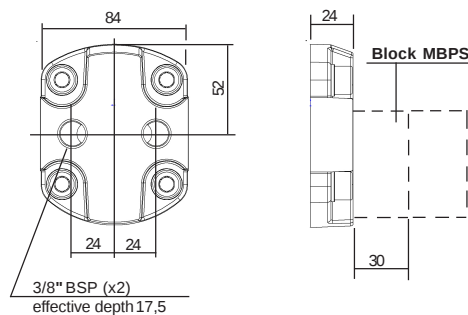
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1473 3/5

Consult us for availability

home

contents

previous

next

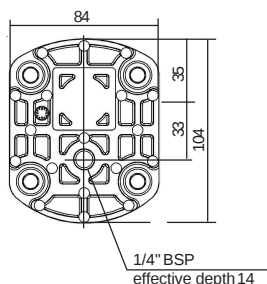
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

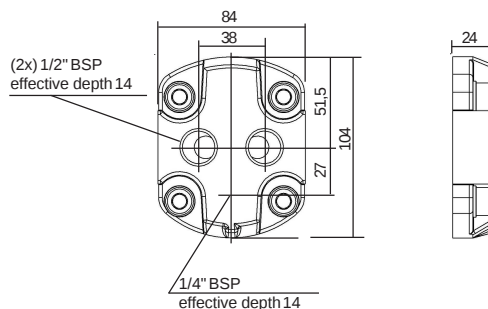
L

Standard



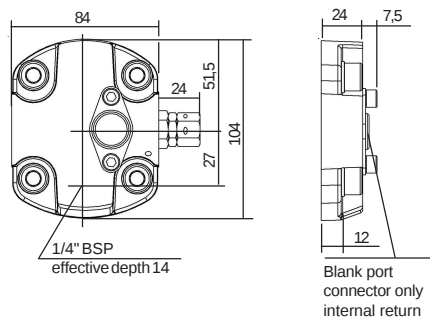
A

with ports



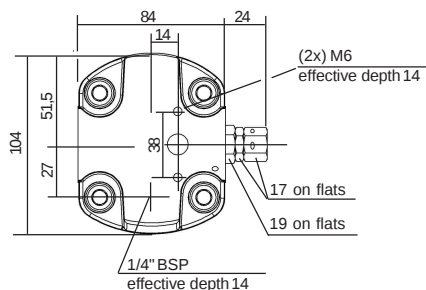
X

High pressure relief valve
(Adjustable) Internal return



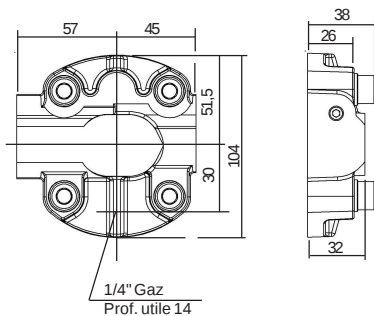
T

High pressure relief valve
(Adjustable) External return



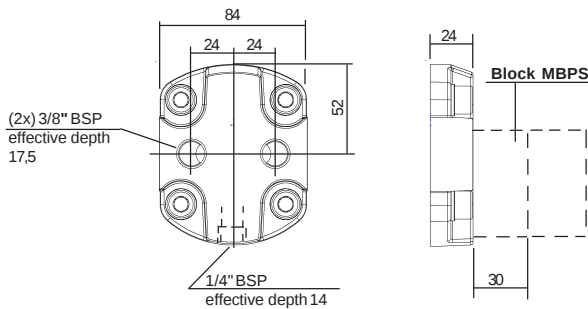
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1473 4/5

Consult us for availability

home

contents

previous

next

main dimensions

PUBLISHING 02 / 2012

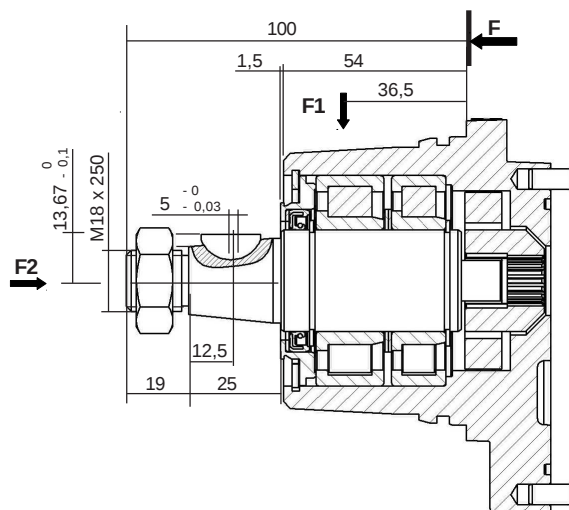
DRIVING SHAFTS

Tapered

10

C05

Taper 1/5



Delivered with nut: K106295

F1 Maxi: 350 daN

F2 Maxi: 50 daN

Maxi transmissible torque

70 N.m

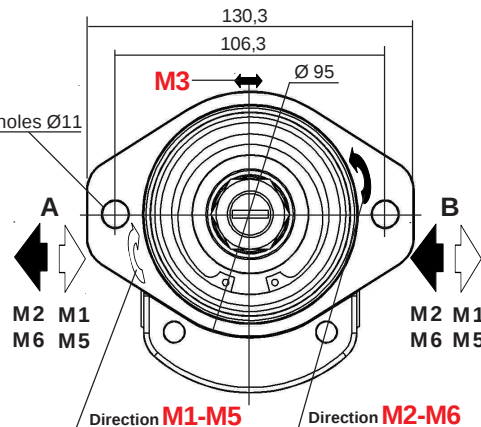
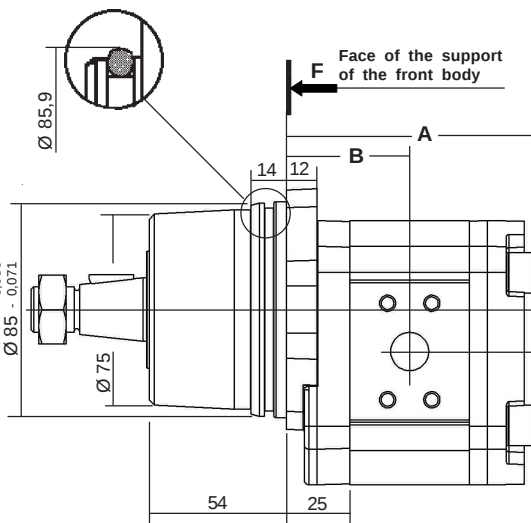
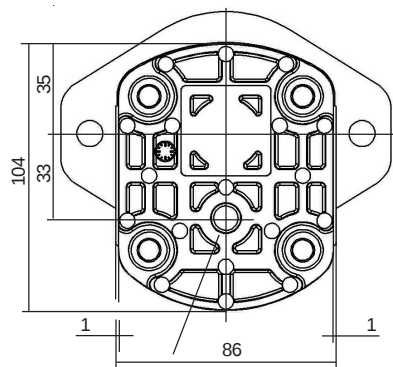
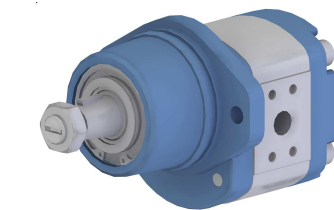
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1473 5/5

M II Sign AR K 2 5 VI Sign H L 1 0 C05 XII Sign

For CODIFICATION, see data sheet F.T R 0243

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of
the Capacity

Dimensions

	A	B
12	112	56
15 - 17 - 18 - 22	128	64

Seals kits:

M1 - M2

Nitrile: K5069830 + K5069870 + K106139
Viton: K5069840 + K5069880 + K106139
(For manufacture to since january 1984)

M3 - M5/M6

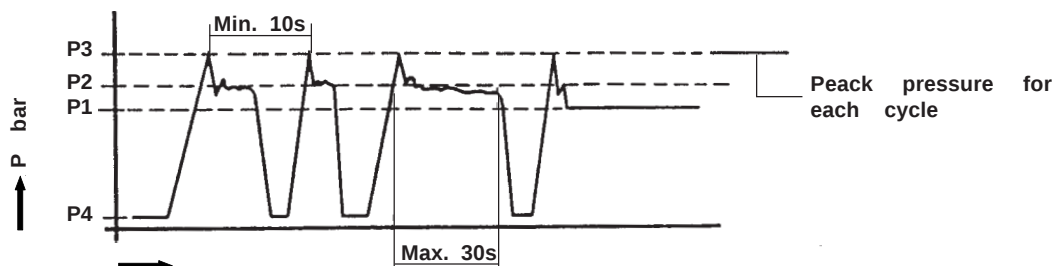
Nitrile: K5071069 + K5069870 + K106139
Viton: K5071070 + K5069880 + K106139
(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,8
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	3,1
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	3,2
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}		3500	3,3
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}		3500	3,4

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

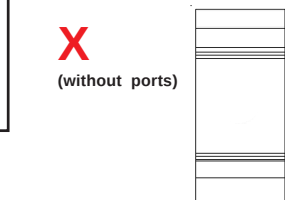
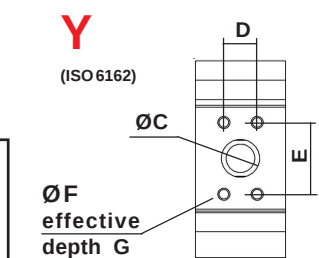
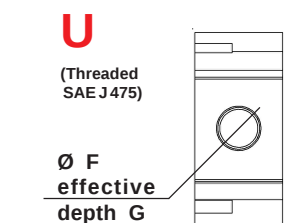
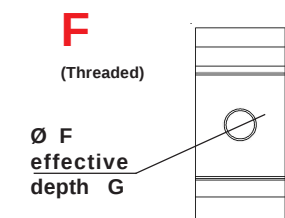
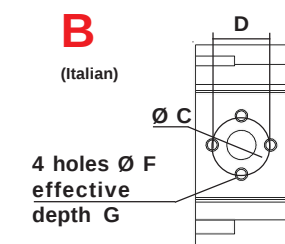
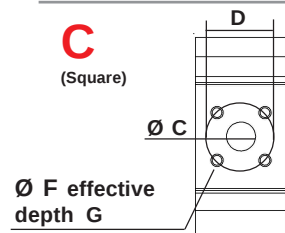
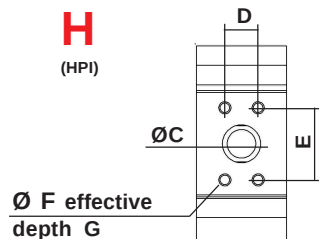
P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET										AFFECTATION					
	INLET					OUTLET					1 way rotation without counter pressure		1 way rotation with counter pressure		2 ways rotation with counter pressure	
											M1		M2		M3	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	ENTREE	SORTIE	ENTREE	SORTIE	INLET	OUTLET
2512 to 2522	15	17,4	22,4	M6	12	26	47,6	22,4	M6	12	A	B	B	A	B	A
2512 to 2522	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
2512 to 2522	15	30		M6	13	23,5	40		M8	13	A	B	B	A	B	A
2512 to 2522				1/2" BSP	14				1" BSP	18	A	B	B	A	B	A
2512				7/8" 14 UNF 2B	17				1" 5/16 12 UNF	20	A	B	B	A	B	A
2515 to 2522				1" 1/16 12 UNF 2B	20				1" 5/16 12 UNF 2B	20						
2512	15	17,4	38	M10	14	26	47,6	22,4	M8	14	A	B	B	A	B	A
2515 to 2522	15	17,4	38	M8	14	26	52,4	26,2	M10	14						
2512 to 2522	Only with rear body Type A										Consult us for availability					

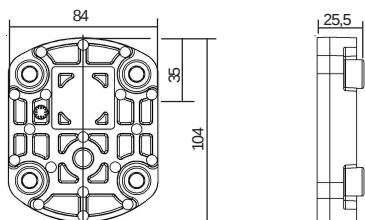
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1474 2/5

REAR BODIES for MOTORS M1 - M2

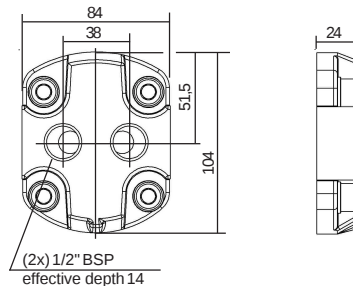
L

Standard



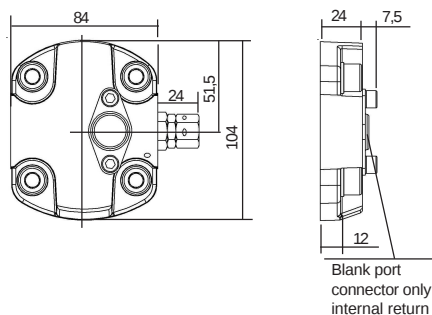
A

with ports



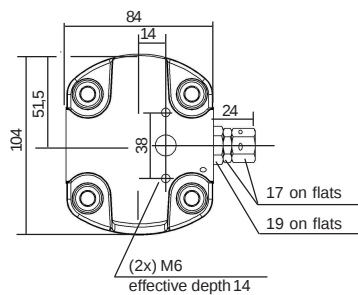
X

High pressure relief valve
(Adjustable) Internal return



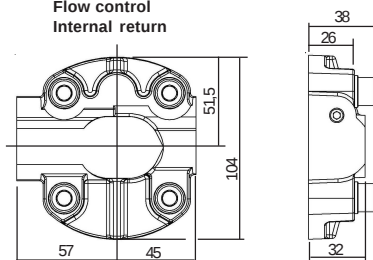
T

High pressure relief valve
(Adjustable) External return



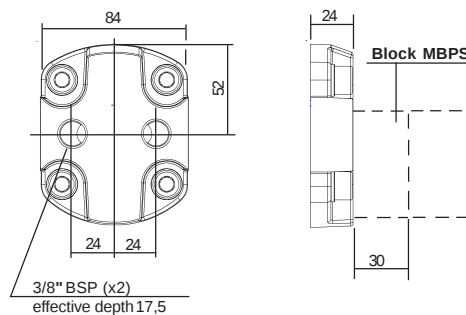
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1474 3/5

Consult us for availability

home

contents

previous

next

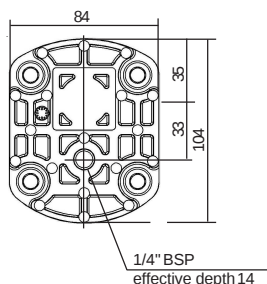
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

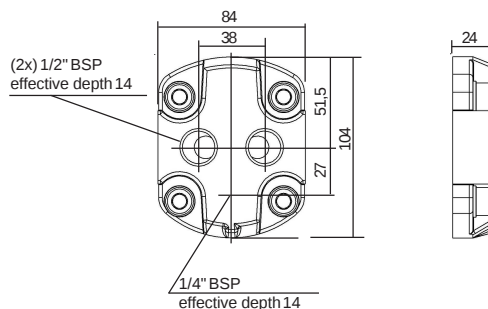
L

Standard



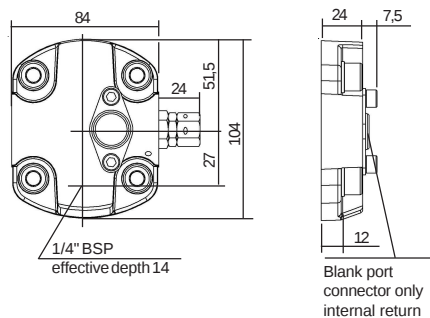
A

with ports



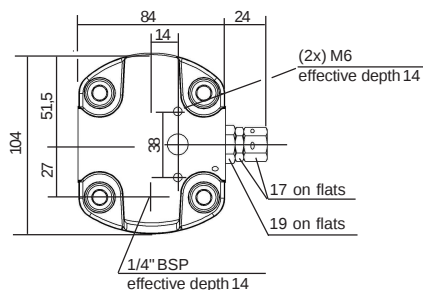
X

High pressure relief valve
(Adjustable) Internal return



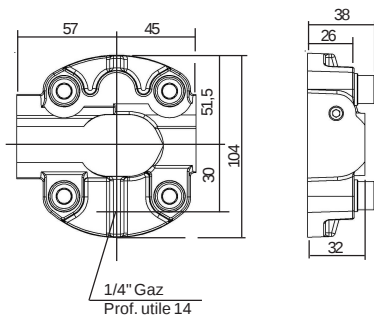
T

High pressure relief valve
(Adjustable) External return



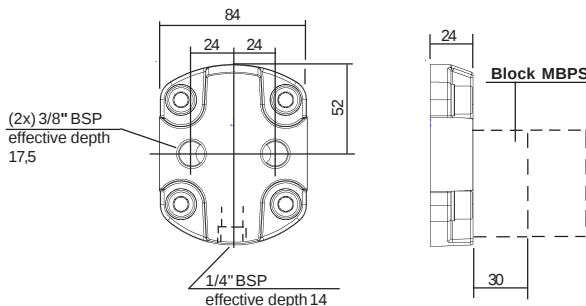
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			

 Versions not manufactured



Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1473 4/5

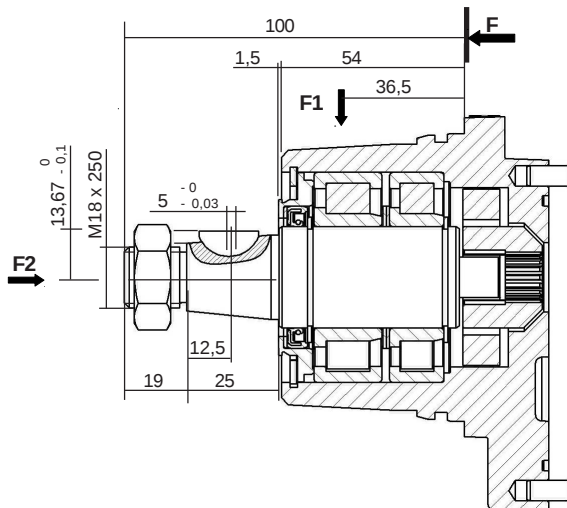
DRIVING SHAFTS

Tapered

10

C05

Taper 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 25 1474 5/5



Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

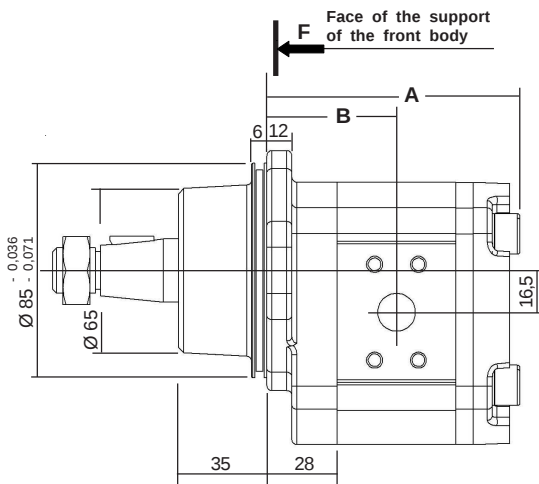
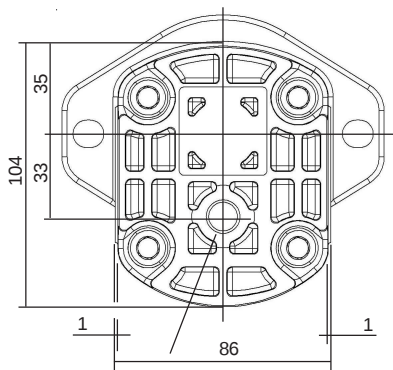
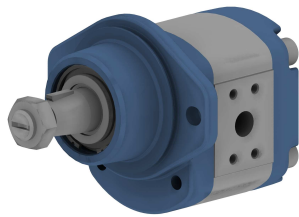
[main dimensions](#)

PUBLISHING 02 / 2012

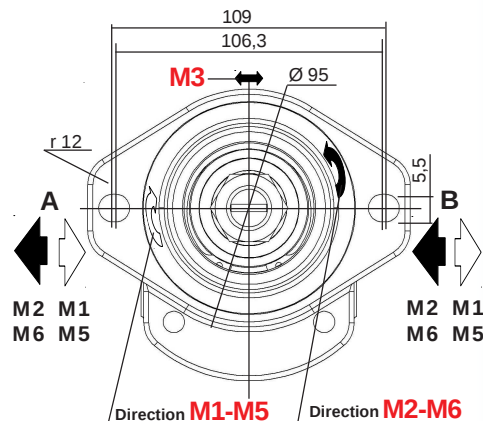
290
/ 00

M II Sign AV P 25 VI Sign H L 1 0 C06 XII Sign

For CODIFICATION, see data sheet F.T.R 0243



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of
the Capacity

Dimensions

	A	B
12	115	58
15 - 17 - 18 - 22	131	67

Seals kits:

M1 - M2

Nitrile: K102672 + K5069830

Viton: K106190 + K5069840

(For manufacture to since january 1984)

M3 - M5/M6

Nitrile: K102672 + K5071069

Viton: K106190 + K5071070

(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		

2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,8
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ²²⁵ bar	3500	3,1
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ²²⁵ bar	3500	3,2
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ¹⁷⁵ bar	1000 ²²⁵ bar	3500	3,3
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ¹⁵⁰ bar	1000 ²²⁵ bar	3500	3,4

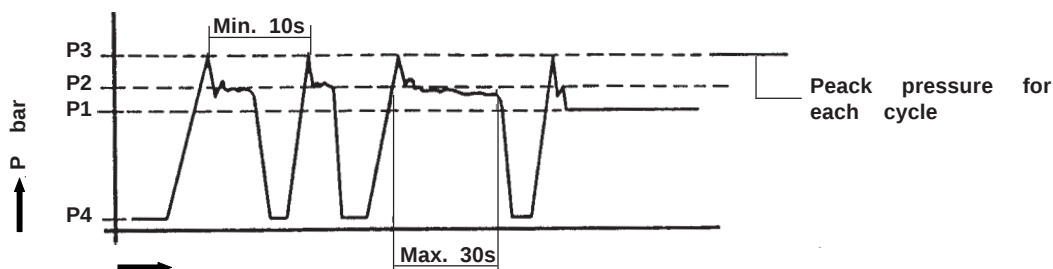
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



F.T 25 1475 1/5

Consult us for availability

home

contents

previous

next

main dimensions

PUBLISHING 02 / 2012

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70

AFFECTATION											
1 way rotation without counter pressure								2 ways rotation with counter pressure			
M1				M2							
ENTREE		SORTIE		ENTREE		SORTIE					
1 way rotation with counter pressure								M3			
M5		M6									
INLET		OUTLET		INLET		OUTLET		INLET		OUTLET	
2	A	B	B	A	B	A					
	A	B	B	A	B	A					
3	A	B	B	A	B	A					
	A	B	B	A	B	A					
0	A	B	B	A	B	A					
	A	B	B	A	B	A					
4	A	B	B	A	B	A					
	A	B	B	A	B	A					

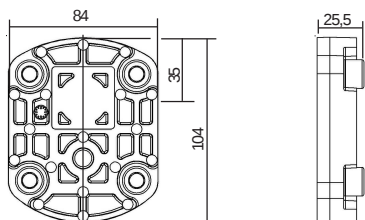
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1475 2/5

REAR BODIES for MOTORS M1 - M2

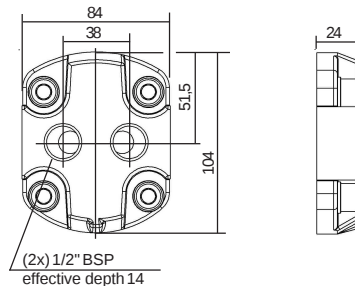
L

Standard



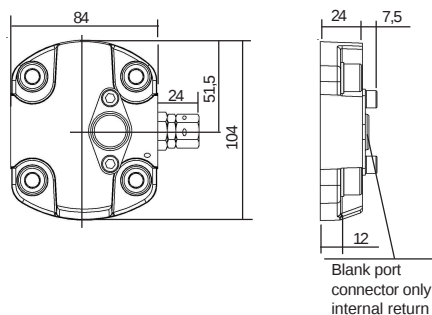
A

with ports



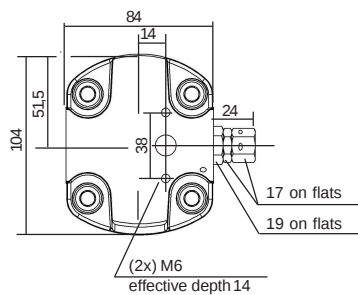
X

High pressure relief valve
(Adjustable) Internal return



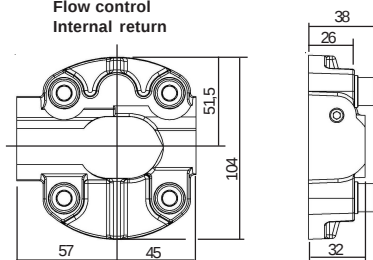
T

High pressure relief valve
(Adjustable) External return



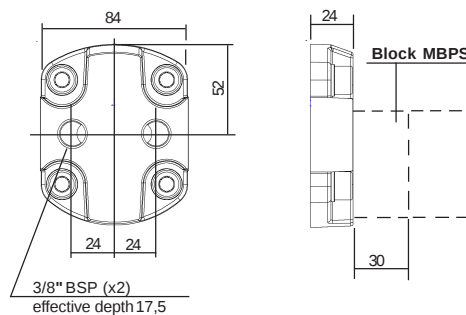
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1475 3/5

Consult us for availability

home

contents

previous

next

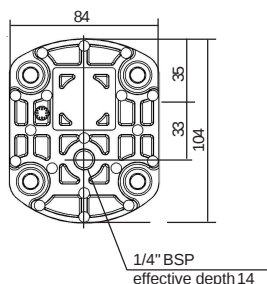
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

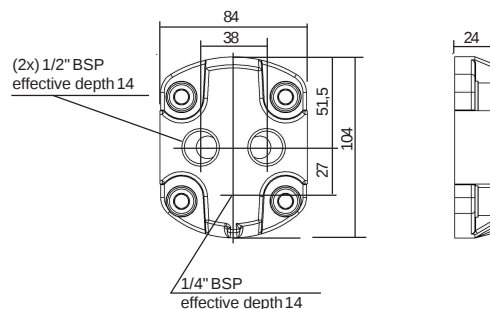
L

Standard



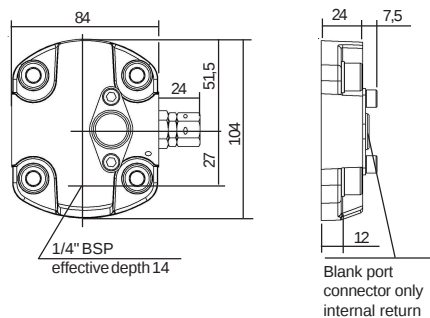
A

with ports



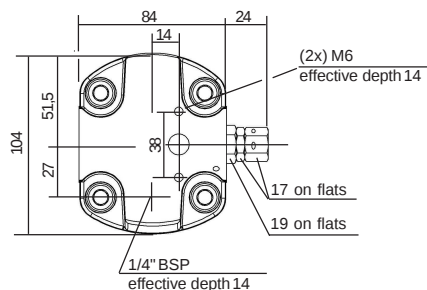
X

High pressure relief valve
(Adjustable) Internal return



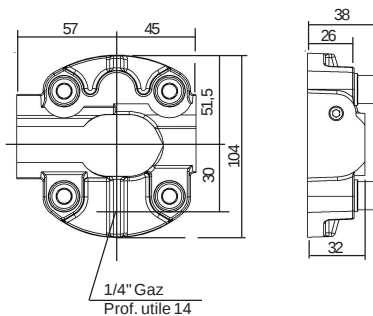
T

High pressure relief valve
(Adjustable) External return



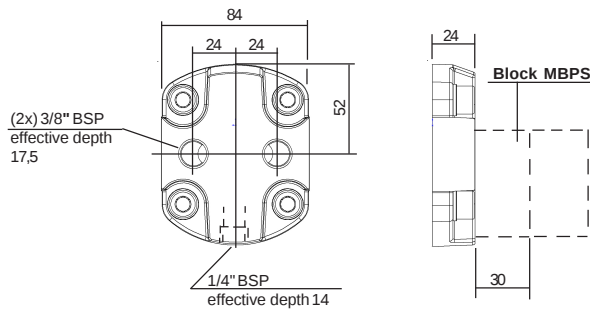
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

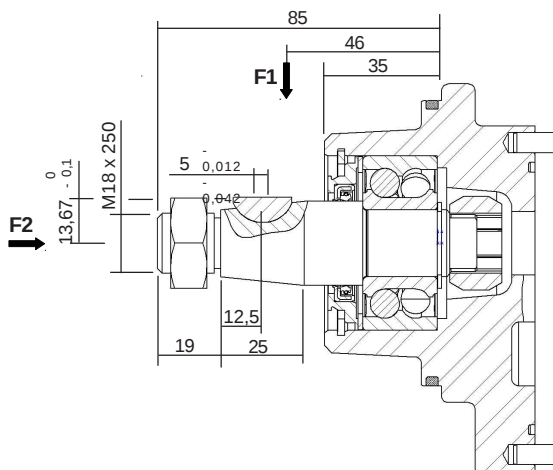
F.T 25 1475 4/5

DRIVING SHAFT

Tapered

10

C06 Taper 1 / 5



Delivered with nut: K106295

F1 Maxi: 350 daN

F2 Maxi: 50 daN

Maxi transmissible torque

70 m.daN

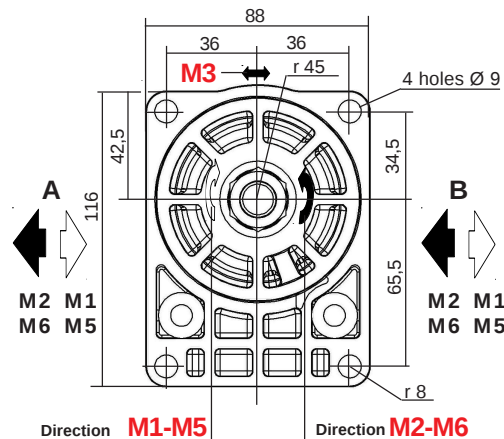
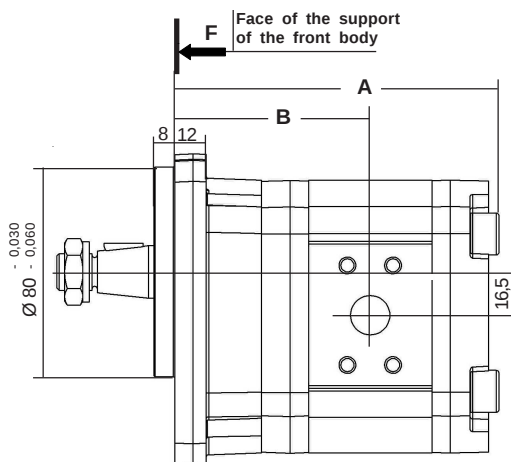
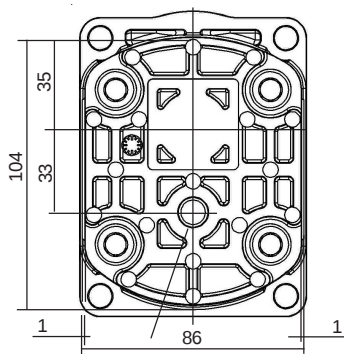
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1475 5/5



For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity

Dimensions

	A	B
12	138	82
15 - 17 - 18 - 22	154	90

Seals kits:

M1 - M2

Nitrile: **K5069870 + K5069830**

Viton: **K5069880 + K5069840**

(For manufacture to since january 1984)

M3 - M5/M6

Nitrile: **K5071067 + K5071069**

Viton: **K5071068 + K5071070**

(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,8
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ^{225 bar}	3500	3,1
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ^{225 bar}	3500	3,2
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ^{175 bar}	1000 ^{225 bar}	3500	3,3
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ^{150 bar}	1000 ^{225 bar}	3500	3,4

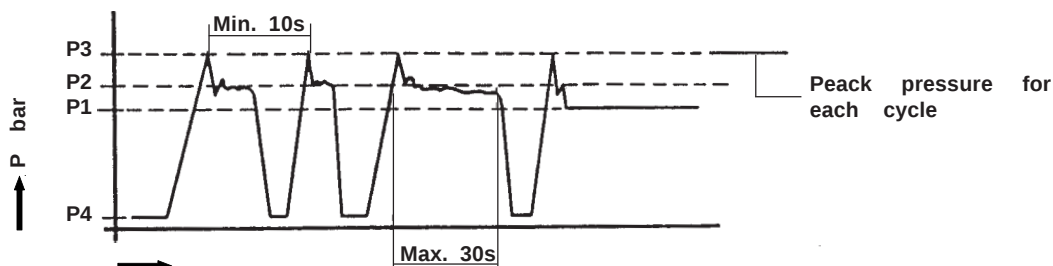
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

home

contents

previous

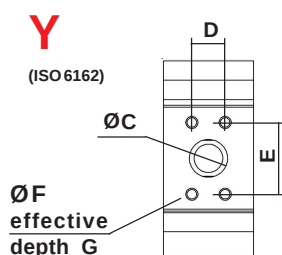
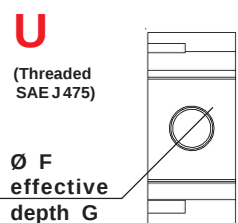
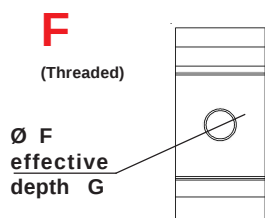
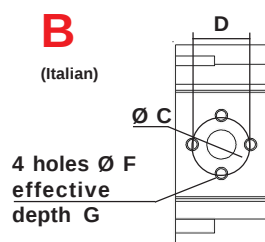
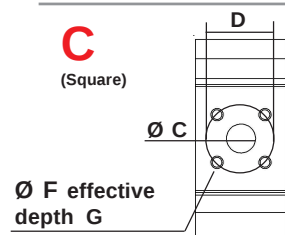
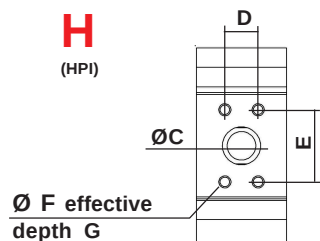
next

main dimensions

PUBLISHING 02 / 2012

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET					OUTLET					1 way rotation with counter pressure				pressure	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	M5		M6		M3	
											INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
2512 to 2522	15	17,4	22,4	M6	12	26	47,6	22,4	M6	12	A	B	B	A	B	A
2512 to 2522	15	35		M6	12	20	40		M6	12	A	B	B	A	B	A
2512 to 2522	15	30		M6	13	23,5	40		M8	13	A	B	B	A	B	A
2512 to 2522				1/2" BSP	14				1" BSP	18	A	B	B	A	B	A
2512				7/8" 14 UNF 2B	17				1"5/16 12 UNF	20	A	B	B	A	B	A
2515 to 2522				1"1/16 12 UNF 2B	20				1"5/16 12 UNF 2B	20						
2512	15	17,4	38	M10	14	26	47,6	22,4	M8	14	A	B	B	A	B	A
2515 to 2522	15	17,4	38	M8	14	26	52,4	26,2	M10	14						
2512 to 2522	Only with rear body Type A															
PUBLISHING 01 / 2013																

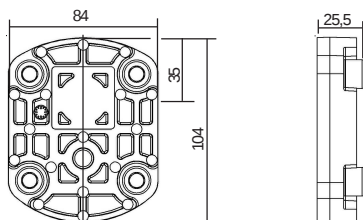
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1476 2/5

REAR BODIES for MOTORS M1 - M2

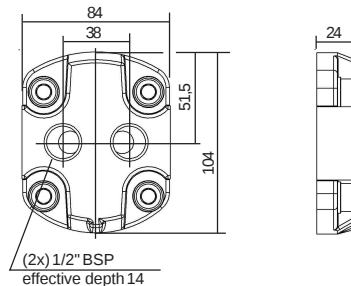
L

Standard



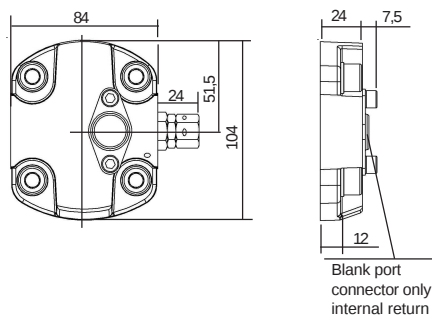
A

with ports



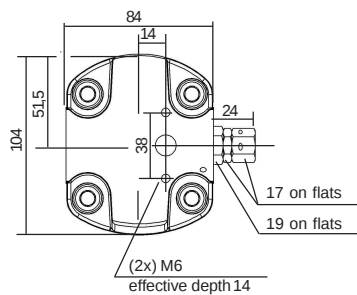
X

High pressure relief valve
(Adjustable) Internal return



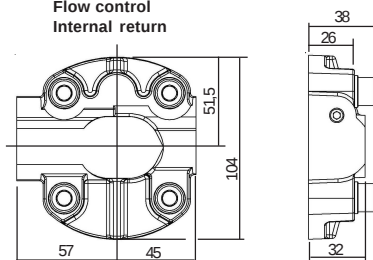
T

High pressure relief valve
(Adjustable) External return



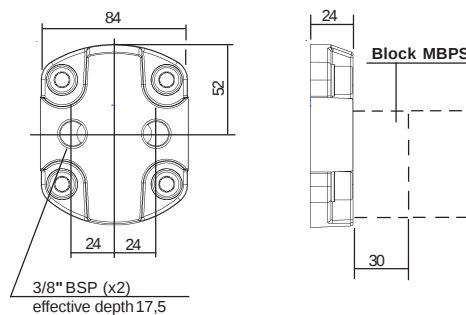
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1476 3/5

Consult us for availability

home

contents

previous

next

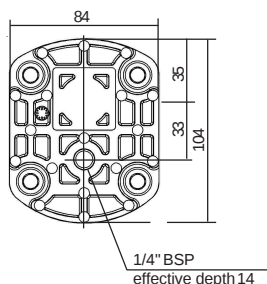
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

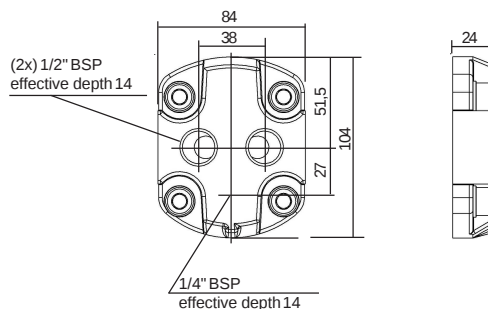
L

Standard



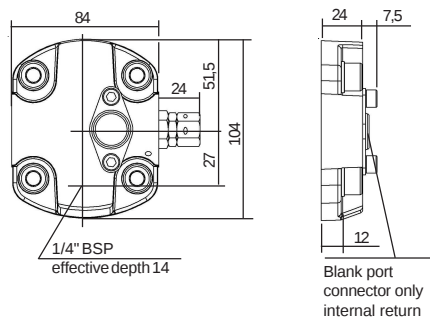
A

with ports



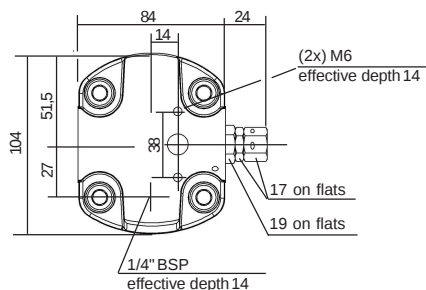
X

High pressure relief valve
(Adjustable) Internal return



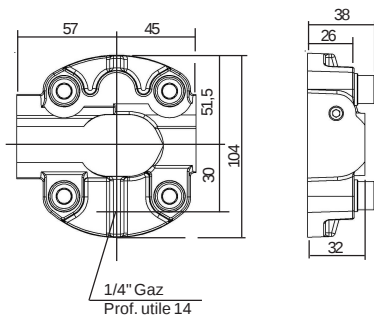
T

High pressure relief valve
(Adjustable) External return



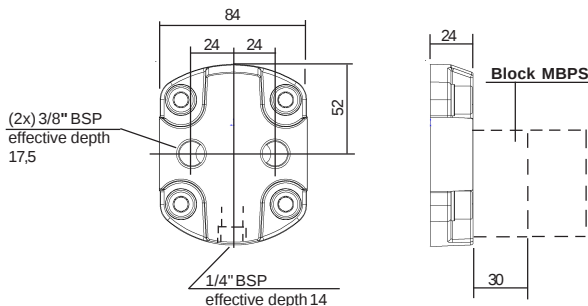
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			



Versions not manufactured

Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1476 4/5

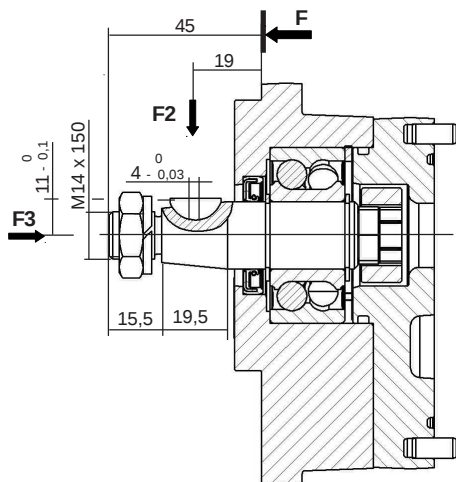
DRIVING SHAFTS

Tapered

10

C07

Taper 1 / 5



Delivered with Nut: K102045

F2 Maxi: 120 daN

F3 Maxi: 50 daN

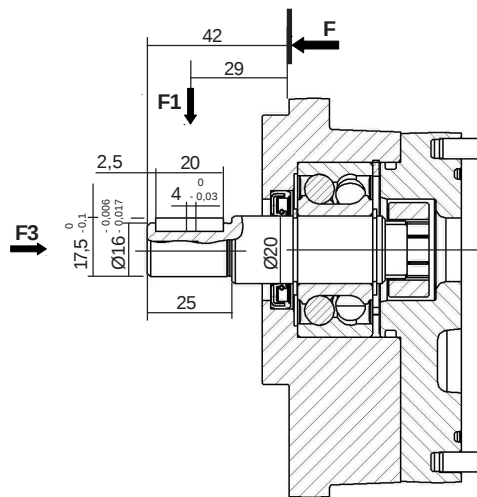
Maxi transmissible torque

50 N.m

Straight keyed

20

C15



F1 Maxi: 100 daN

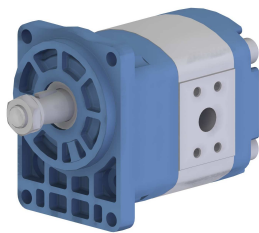
F3 Maxi: 50 daN

Maxi transmissible torque

50 N.m

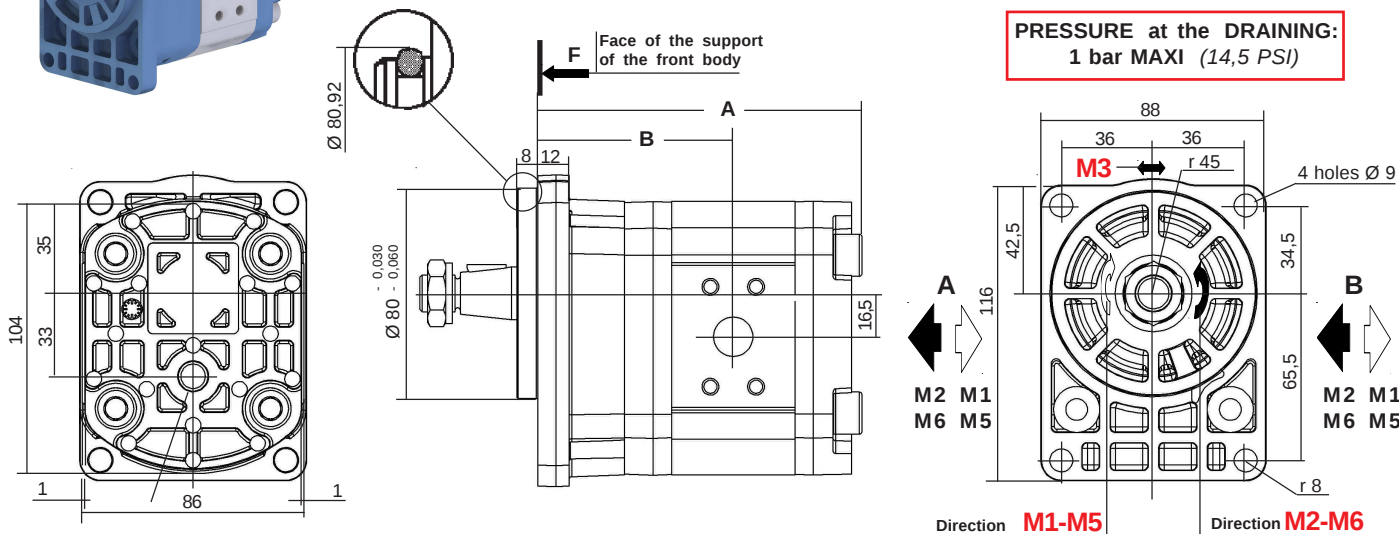
Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1476 5/5



M II Sign **DB R 2 5** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0243**



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)

Drain port 1/4" BSP effective depth 14 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
35 N.m

CHOICE of the Capacity

Dimensions

	A	B
12	138	82
15 - 17 - 18 - 22	154	90

Seals kits:

M1 - M2

Nitrile: K5069830 + K5069870 + K101517
Viton: K5069840 + K5069880 + K104406
(For manufacture to since january 1984)

M3 - M5/M6

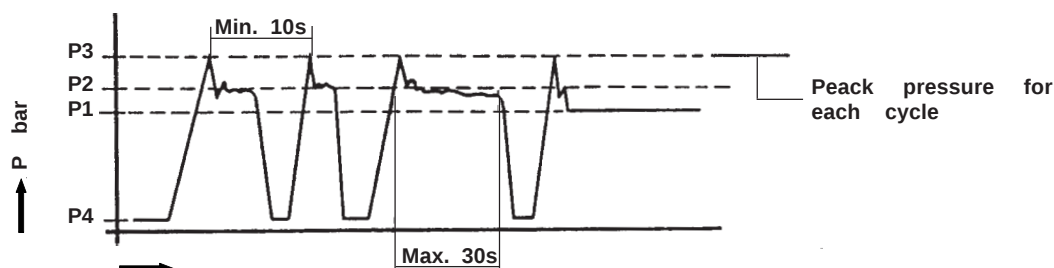
Nitrile: K5071069 + K5069870 + K101517
Viton: K5071070 + K5069880 + K104406
(For manufacture to since february 1986)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
2512	12	250	3625	260	3770	280	4060	3000	3200	500	1000	1200	4000	2,8
2515	15,52	240	3480	250	3625	280	4060	3000	3000	500	800	1000 ²²⁵ bar	3500	3,1
2517	17,3	225	3262	240	3480	250	3625	3000	3000	500	800	1000 ²²⁵ bar	3500	3,2
2518	19,12	215	3115	225	3262	250	3625	3000	2800	500	800 ¹⁷⁵ bar	1000 ²²⁵ bar	3500	3,3
2522	22,87	190	2755	205	2972	225	3262	3000	2800	500	800 ¹⁵⁰ bar	1000 ²²⁵ bar	3500	3,4

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

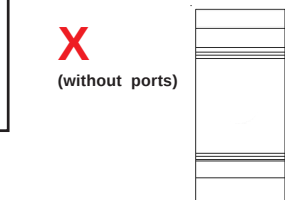
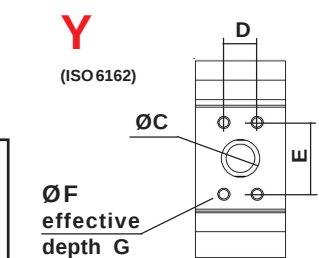
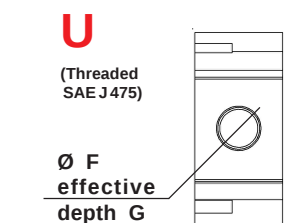
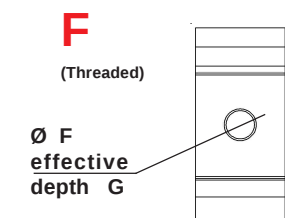
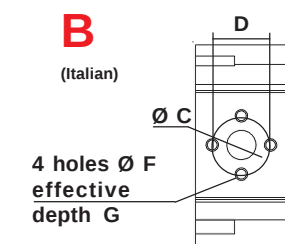
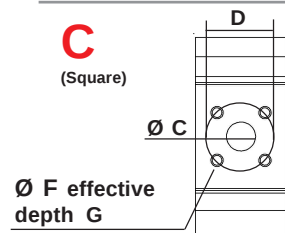
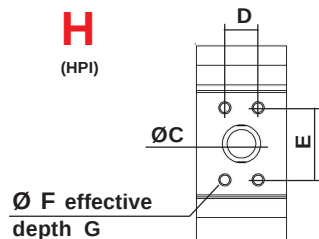
P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET					OUTLET				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
	15	17,4	22,4	M6	12	26	47,6	22,4	M6	12
2512 to 2522	15	17,4	22,4	M6	12	26	47,6	22,4	M6	12
2512 to 2522	15	35		M6	12	20	40		M6	12
2512 to 2522	15	30		M6	13	23,5	40		M8	13
2512 to 2522				1/2" BSP	14				1" BSP	18
2512				7/8" 14 UNF 2B	17				1" 5/16 12 UNF	20
2515 to 2522				1" 1/16 12 UNF 2B	20				1" 5/16 12 UNF 2B	20
2512	15	17,4	38	M10	14	26	47,6	22,4	M8	14
2515 to 2522	15	17,4	38	M8	14	26	52,4	26,2	M10	14
2512 to 2522	Only with rear body Type A									

AFFECTATION					
1 way rotation without counter pressure			2 ways rotation with counter pressure		
M1		M2	M5		M3
ENTREE	SORTIE	ENTREE	SORTIE	ENTREE	SORTIE
1 way rotation with counter pressure			M6		
M5		M6	M6		M3
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
A	B	B	A	B	A
A	B	B	A	B	A
A	B	B	A	B	A
A	B	B	A	B	A
A	B	B	A	B	A
A	B	B	A	B	A
A	B	B	A	B	A
A	B	B	A	B	A
A	B	B	A	B	A

Dimensions readings and approximative characteristics subject to modifications.

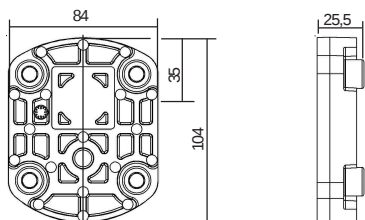
F.T 25 1477 2/5


Consult us for availability

REAR BODIES for MOTORS M1 - M2

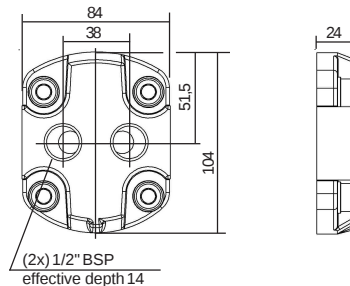
L

Standard



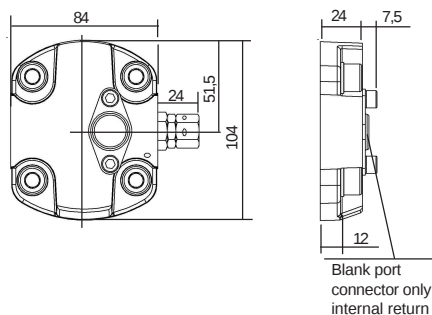
A

with ports



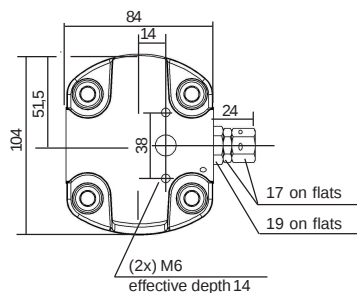
X

High pressure relief valve
(Adjustable) Internal return



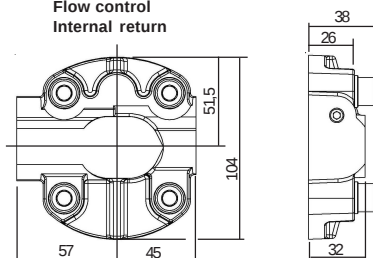
T

High pressure relief valve
(Adjustable) External return



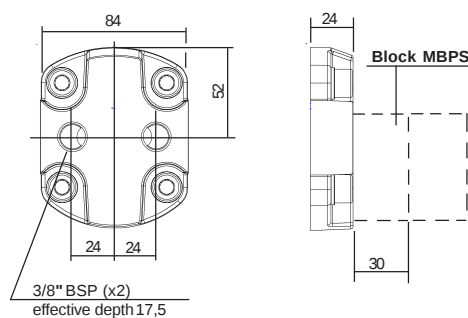
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1477 3/5

Consult us for availability

home

contents

previous

next

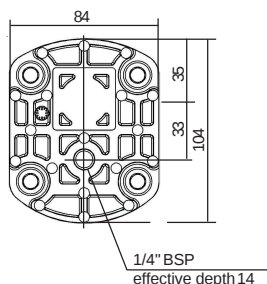
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M3 - M5 - M6

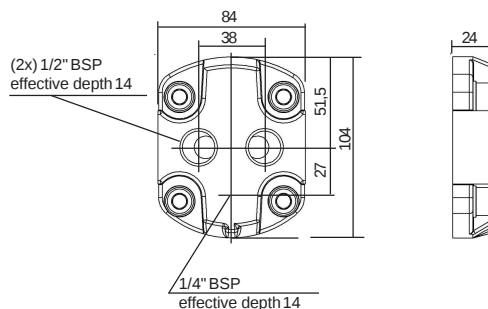
L

Standard



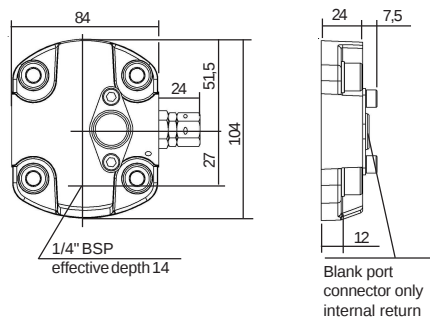
A

with ports



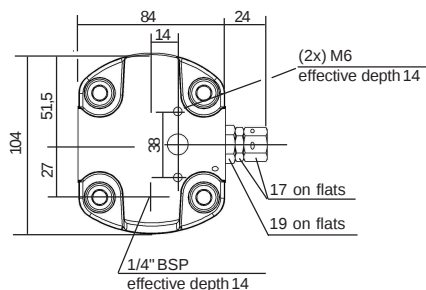
X

High pressure relief valve
(Adjustable) Internal return



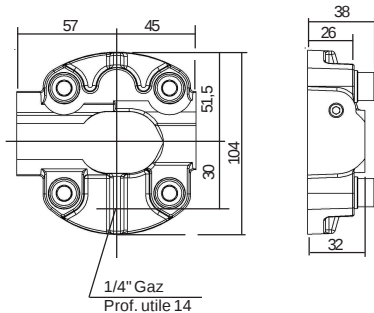
T

High pressure relief valve
(Adjustable) External return



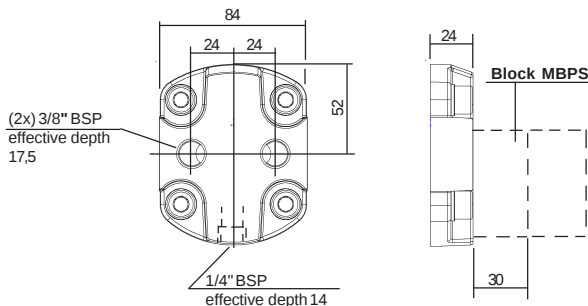
Q

Flow control
Internal return



AR

Mounting with block configuration MBPS



Code	Versions		
	M3	M5	M6
L			
A			
X			
T			
Q			
AR			

 Versions not manufactured



Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

F.T 25 1477 4/5

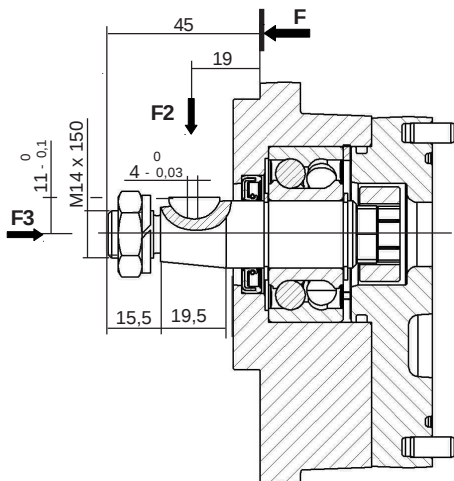
DRIVING SHAFTS

Tapered

10

C07

Taper 1 / 5



Delivered with Nut: K102045

F2 Maxi: 120 daN

F3 Maxi: 50 daN

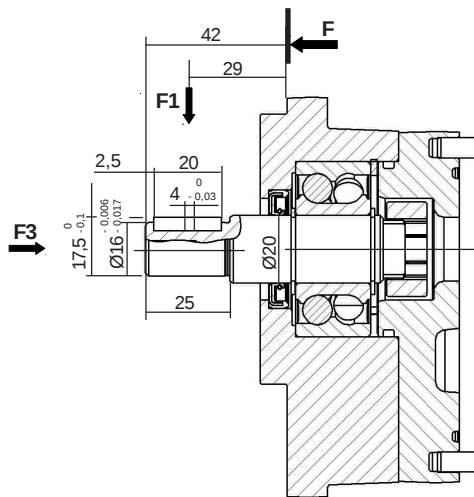
Maxi transmissible torque

50 N.m

Straight keyed

20

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 1477 5/5

Consult us for availability

home

contents

previous

next

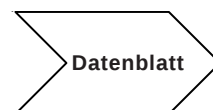
main dimensions

PUBLISHING 02 / 2012

305 / 00

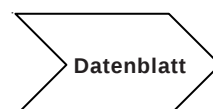
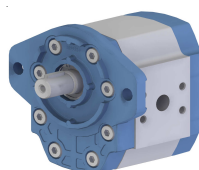
VORSTELLUNG MOTOREN REIHE 3

- FLACHER VORDERKÖRPER



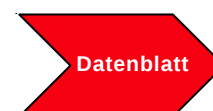
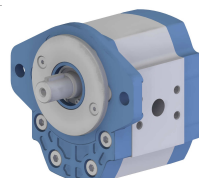
F.T 30 1478

MOTOR **AAN**



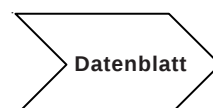
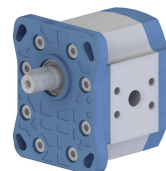
F.T 30 1479

MOTOR **AAK**



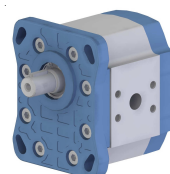
F.T 30 1480

MOTOR **BAN**



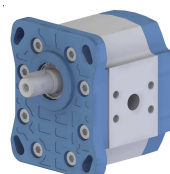
F.T 30 1481

MOTOR **CBN**



F.T 30 1482

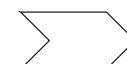
MOTOR **CBK**



F.T 30 1483

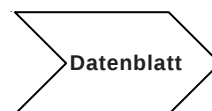
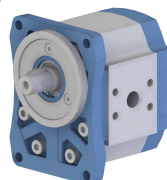


Auf Anfrage verfügbar



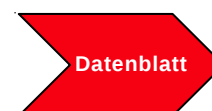
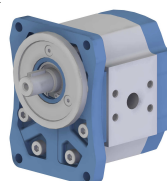
- FLACHER VORDERKÖRPER (Folge)

MOTOR **DBN**



F.T 30 1484

MOTOR **DBK**



F.T 30 1485



Auf Anfrage verfügbar

Aufnahme

Katalog

Übersicht

Vorherige

Nächste

AUSGABE 02 / 2012

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at ΔP ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
3025	25	200	2900	225	3260	250	3625	2500	2800	800	1000	1300	3500	5,6
3031	31	180	2610	210	3045	225	3625	2300	2600	500	1000	1000 ^{225 bar}	3000	5,6
3040	40	180	2610	210	3045	225	3625	2300	2600	500	800	1000 ^{225 bar}	3000	5,7
3050	50	175	2537	205	2972	225	3625	2200	2500	500	800	1000 ^{225 bar}	3000	6,9
3060	60	160	2320	185	2682	225	3262	2000	2300	500	800	1000 ^{200 bar}	3000	7
3071	71	150	2175	175	2537	225	3262	2000	2300	500	800		2500	7,5
3080	80	120	1740	150	2175	200	2900	1700	2000	500	800 ^{175 bar}		2500	7,6
3090	90	100	1450	130	2175	175	2537	1500	1800	400	800 ^{175 bar}		2000	7,8
3100	100	100	1450	125	1812	175	2175	1500	1800	400	800 ^{150 bar}		2000	8

The working cycles mentioned above are possible with hydraulic mineral oil for between 12 and 150Cst - 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 temperatures : - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C / 284 °F with Viton shaft seal).

Full flow filtration from 10 to 15 micron at the motor inlet or the return circuit.

MAXIMUM PRESSURE:

For the motors with one direction of rotation (M1/M2), the outlet pressure must not exceed 1 bar.

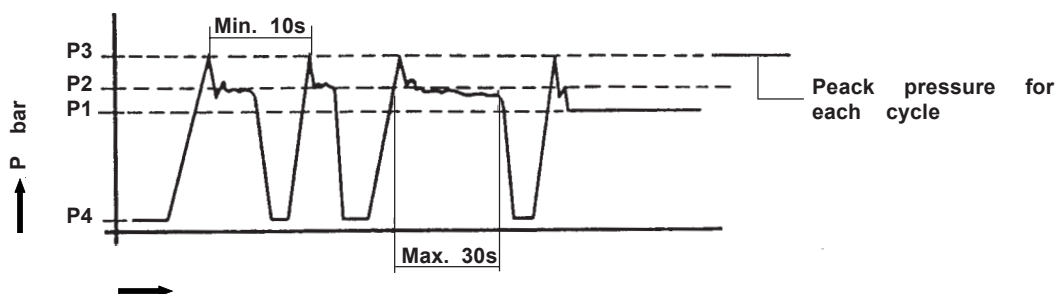
For the motors with two directions of rotation (M5/M6), the pressure in the drain line must not exceed 1 bar.

For the motors with two directions of rotation (M3), the pressure in the drain line must not exceed 1 bar.

For the working conditions exceeding the above mentioned cycles or in case of torque transmission by driving belt, chain or toothed wheel, please contact our sales department.

(The tests are effected with the oil SHELL Tellus T 46)

The above technical data are valid for motor transmitting the torque by an elastic coupling, perfectly aligned, without any outside radial and axial forces.



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1478 1/10

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

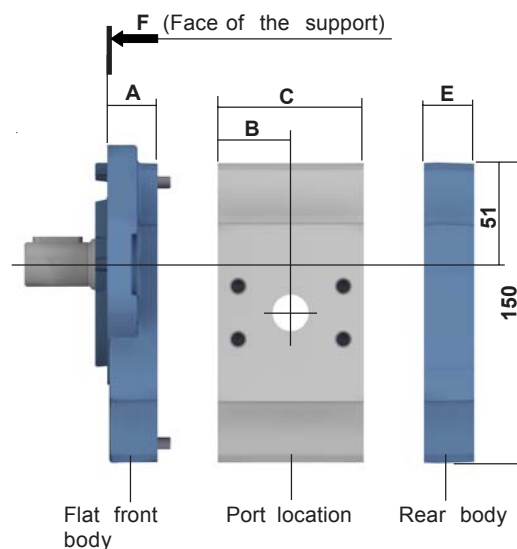
PUBLISHING 02 / 2012

CORPS AVANT PLAT

Flat front bodies:	A
AAN / AAK - BAN	25
CBN / CBK - DBN / DBK	

Port location (capacity):	B	C
3020 - 3025 - 3031 - 3040	36,3	72,7
3050 - 3060	49,5	99,2
3071 - 3080 - 3090 - 3100	59,2	119,2

Rear bodies:	E
L	25
A - V	33

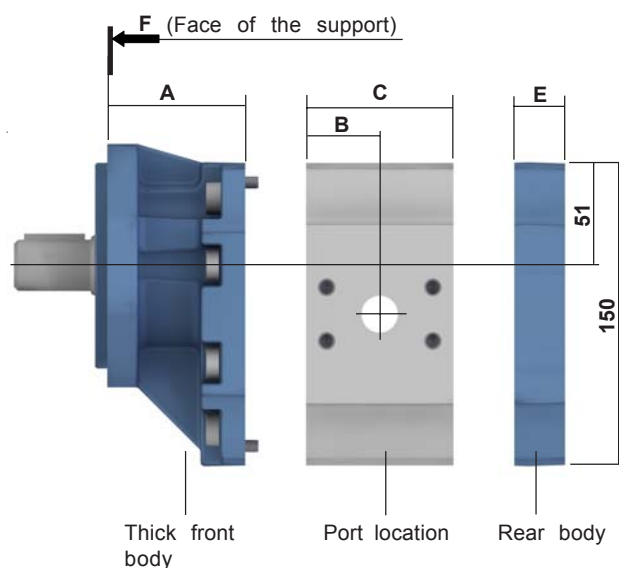


THICK FRONT BODIES

Thick front bodies:	A
AAP - ABP / ABR	68
ADP / ADR	
ADF	120

Port location (capacity):	B	C
3020 - 3025 - 3031 - 3040	36,3	72,7
3050 - 3060	49,5	99,2
3071 - 3080 - 3090 - 3100	59,2	119,2

Rear bodies:	E
L	25
A - V	33



Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1478 2/10



Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

PUBLISHING 02 / 2012

M	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 0243**

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 SHAFTS (IX, X and XI Sign)			
M1	M2	M3	M5	M6				H	B	X	L	A	V*	TAPERED 10	STRAIGHT KEYED 20	SPLINNED 30	TANG 40
X	X	X	X	X		AAN / AAK  	3025 3031 3040 3050 3060 3071 3080 3090 3100										
X	X	X	X	X		BAN  					  			 10 B04 10C04	 20 A02 20 C04	 30 A02 30 C03 30 C07	 40 C04
X	X	X	X	X		CBN / CBK  											
X	X	X	X	X		DBN / DBK  											

* only for Motors **M1 / M2**
(without counter pressure)

LEGENDES

DIRECTION of ROTATION

- M1** = Clockwise
without counter pressure
M2 = Anti clockwise
without counter pressure
M3 = Bi directional
with counter pressure
M5 = Clockwise
with counter pressure
M6 = Anti clockwise
with counter pressure

FRONT BODIES

- A**** = Fixing SAE and ISO
BAN = Fixing english and Italian
CB* = Fixing French
DB* = Fixing German
A** = Fixation SAE et ISO
BAN = Fixation Anglaise et Italienne
CB* = Fixation Française
DB* = Fixation Allemande

PORT LOCATION

- H** = HPI Location
B = Italian location
X = without port

REAR BODIES

- L** = Standard
A = with ports
X = low pressure relief valve
Internal return

M

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 0243**

DIRECTION OF ROTATION (II Sign)					THICK FRONT BODIES (III and IV Sign)	CAPACITY (V and VI Sign)	PORT LOCATION (VII Sign)			REAR BODIES (VIII Sign)			DRIVING SHAFTS (IX , X and XI Sign)			
M 1	M 2	M 3	M 5	M 6			H	B	X	L	A	V*	TAPERED 10	STRAIGHT KEYED 20	SPLINNED 30	TANG 40
X	X	X	X	X	AAP 	3025 3031 3040 3050 3060 3071 3080 3090 3100										
X	X	X	X	X	ABP / ABR 									 20 A04 20 A05 20 A07	 30 A04 30 A19 30 A20	
X	X	X	X	X	ADP / ADR 											
X	X	X	X	X	ADF 									 20 A05		

* only for Motors **M1 / M2**
(without counter pressure)

LEGENDES

DIRECTION of ROTATION

- M1 = Clockwise
without counter pressure

M2 = Anti clockwise
without counter pressure

M3 = Bi directional
with counter pressure

M5 = Clockwise
with counter pressure

M6 = Anti clockwise
with counter pressure

FRONT BODIES

A** = Fixing SAE and ISO

PORT LOCATION

- H = HPI Location

B = Italian location

X = without port

REAR BODIES

- L = Standard

A = with ports

X = low pressure relief valve
Internal return

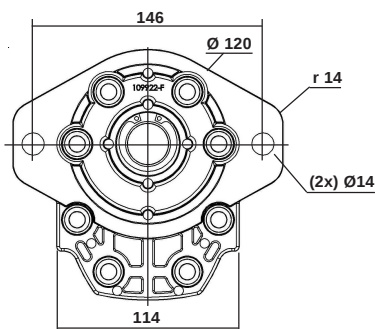
Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1478 4/10

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CORPS AVANT PLAT

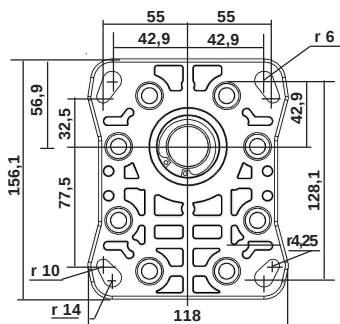
AAN / AAK



Centering: $\varnothing 101,6^{+0}_{-0,05}$
Thickness: 6,35 (AAN) 8,1 (AAK)

AAN : F.T 30 1479
AAK : F.T 30 1480

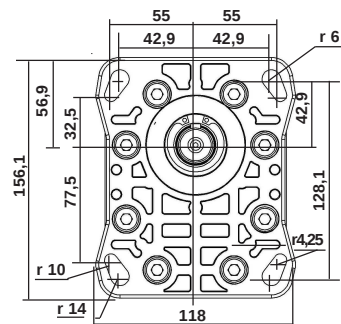
BAN



Centering: $\varnothing 50,78^{+0}_{-0,05}$
Thickness: 5

BAN : F.T 30 1481

CBN / CBK

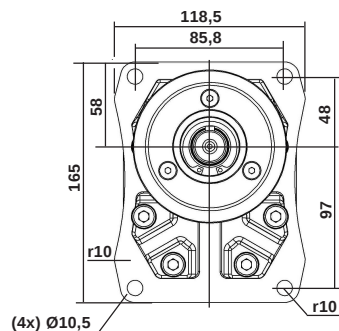


Centering: $\varnothing 65^{+0,03}_{-0,06}$
Thickness: 5

CBN : F.T 30 1482
CBK : F.T 30 1483

Centering: $\varnothing 22$
Thickness: 4

DBN / DBK



Centering: $\varnothing 105^{+0,036}_{-0,071}$
Thickness: 8

DBN : F.T 30 1484
DBK : F.T 30 1485

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1478 5/10



Consult us for availability

[home](#)

[contents](#)

[previous](#)

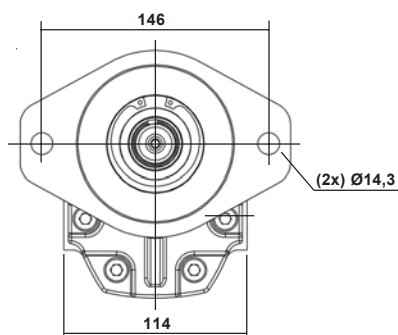
[next](#)

[main dimensions](#)

PUBLISHING 04 / 11 / 2013

CORPS AVANT EPAIS

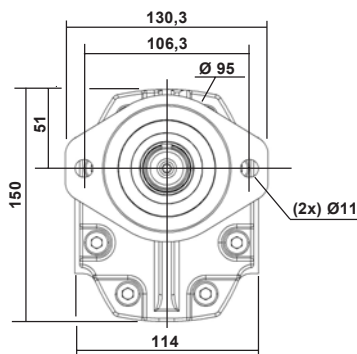
AAP



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

AAP : F.T 30 1486
AAR : F.T 30 1487

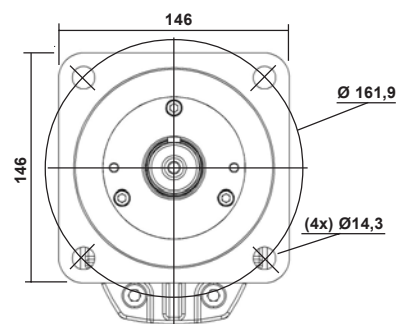
ABP / ABR



Centering: $\varnothing 82,55 \begin{smallmatrix} -0 \\ -0,05 \end{smallmatrix}$
Thickness: 6,35

ABP : F.T 30 1488
ABR : F.T 30 1489

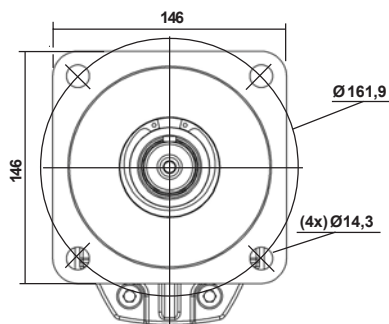
ADF



Centering: $\varnothing 127 \begin{smallmatrix} -0 \\ -0,05 \end{smallmatrix}$
Thickness: 6,35

ADF : F.T 30 1490

ADP / ADR



Centering: $\varnothing 127 \begin{smallmatrix} -0 \\ -0,05 \end{smallmatrix}$
Thickness: 6,35

ADP : F.T 30 1491
ADR : F.T 30 1492

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1478 6/10

Consult us for availability

[home](#)

[contents](#)

[previous](#)

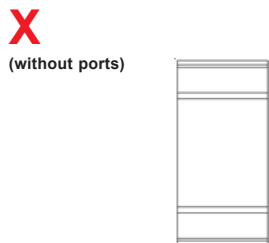
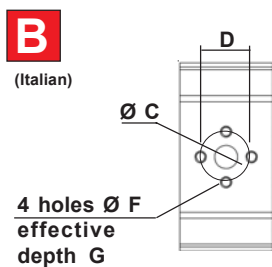
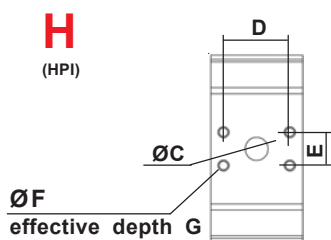
[next](#)

[main dimensions](#)

PUBLISHING 02 / 2012

CHOICE of the IMPLANTATION of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET					OUTLET				
	A					B				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
3025 to 3040	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3050 3060	22	52,4	26,2	M8	17	22	52,4	26,2	M8	17
3071 to 3100	34	35,6	69,8	M8	17	34	35,6	69,8	M8	17
3025 to 3040	18	40		M8	16	27	51		M10	16
3050 3060										
3071 to 3100										
3025 to 3040	Only with rear body Type A									
3050 3060										
3071 to 3100										

AFFECTATION					
1 way rotation without counter pressure			2 ways rotation with counter pressure		
M1		M2	M5		M3
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
1 way rotation without counter pressure			M6		
M5		M6	M3		
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
A	B	B	A	B	A
A	B	B	A	B	A

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1478 7/10

Consult us for availability

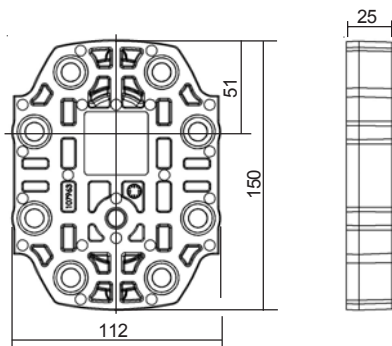
[home](#)
[contents](#)
[previous](#)
[next](#)
[main dimensions](#)

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M1 - M2

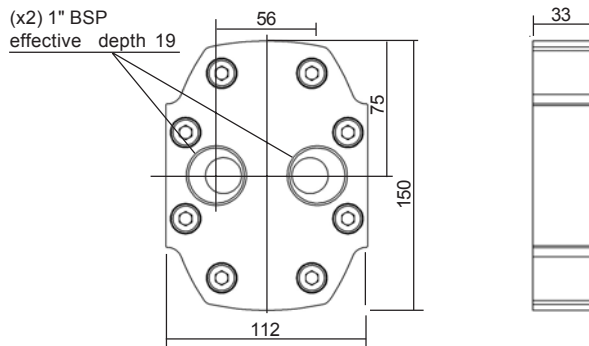
L

Standard



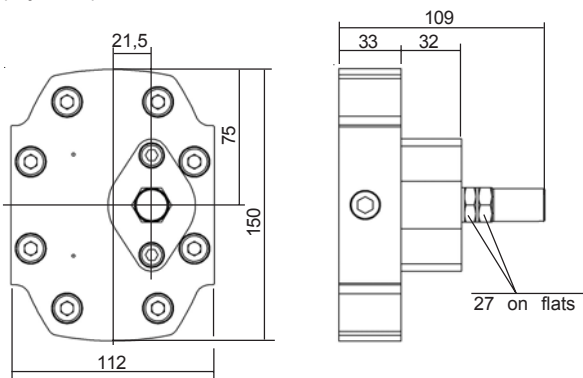
A

with ports



V

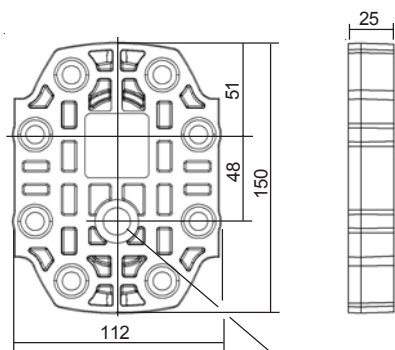
Low pressure relief valve
(Adjustable) Internal return



REAR BODIES for MOTORS M3 - M5 - M6

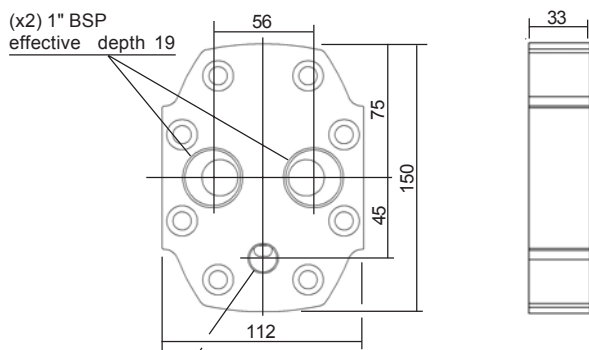
L

Standard



A

with ports



Drain port 3/8" BSP effective depth 18
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Drain port 3/8" BSP effective depth 11
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1478 8/10

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

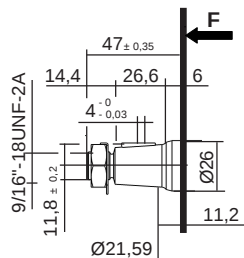
PUBLISHING 02 / 2012

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

B03 Taper 1 / 8



Delivered with Nut and lock washer Ref.: K100734
Ref.: K103945

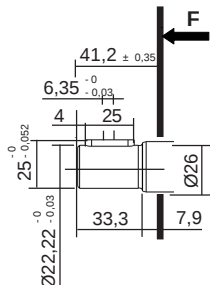
Maxi transmissible torque

530 N.m

Straight keyed

20

A02



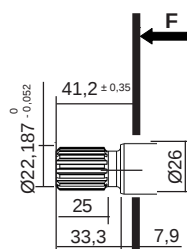
Maxi transmissible torque

290 N.m

Splined

30

A02



Involute spline SAE Standard
13 teeth - 7/8" -
Diametral Pitch 16/32
30° Pressure angle

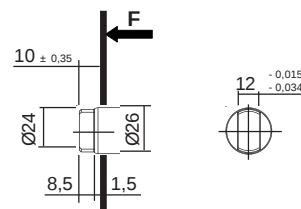
Maxi transmissible torque

390 N.m

Tang

40

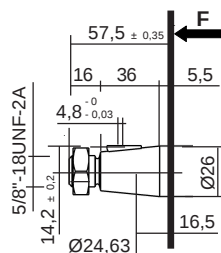
C04



Maxi transmissible torque

70 N.m

B04 Taper 1 / 8

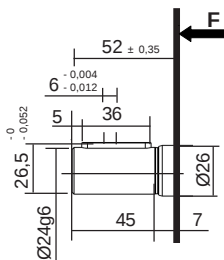


Delivered with Nut Ref.: K101877

Maxi transmissible torque

800 N.m

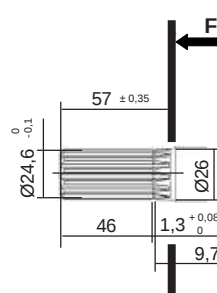
C04



Maxi transmissible torque

320 N.m

C03

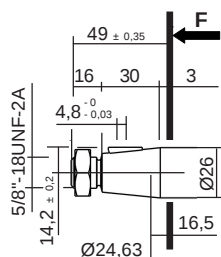


Involute spline shaft
25 x 13 x 1,667
to standard NF E 22 141 - BNA 455
Spigot on free flanks

Maxi transmissible torque

66,5 N.m

C04 Taper 1 / 5

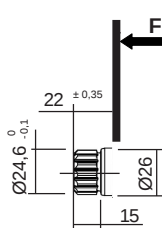


Delivered with Nut Ref.: K101712

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

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1478 9/10

Consult us for availability

home

contents

previous

next

main dimensions

PUBLISHING 02 / 2012

DRIVING SHAFTS

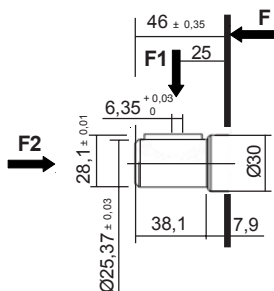
Tapered
10

Straight keyed
20

Splined
30

Tang
40

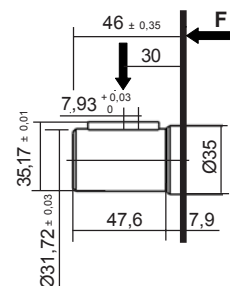
A04 SAE "BB"



F1 = 140 daN
F2 = 50 daN

Maxi transmissible torque
340 N.m

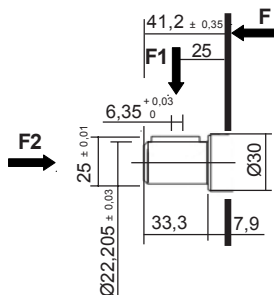
A05 SAE "C"



F1 = 140 daN
F2 = 50 daN

Maxi transmissible torque
430 N.m

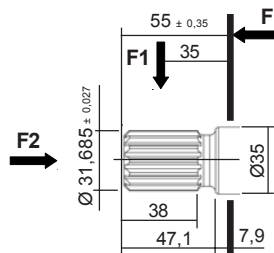
A07 SAE "B"



F1 = 140 daN
F2 = 50 daN

Maxi transmissible torque
290 N.m

A04

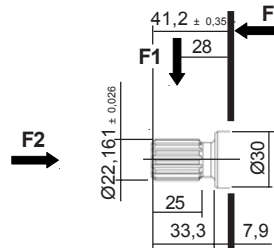


F1 = 120 daN
F2 = 50 daN

Involute spline to SAE "C"
14 teeth - 1" 1/4-
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
500 N.m

A19

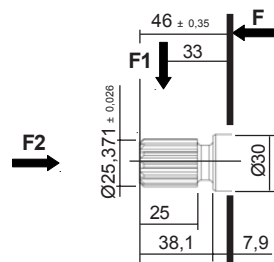


F1 = 120 daN
F2 = 50 daN

Involute spline to SAE "B"
13 teeth - 7/8"
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
310 N.m

A20



F1 = 120 daN
F2 = 50 daN

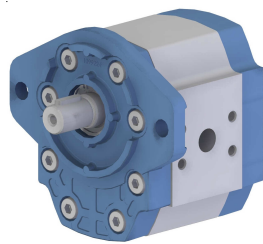
Involute spline to SAE "BB"
15 teeth - 1"
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
490 N.m

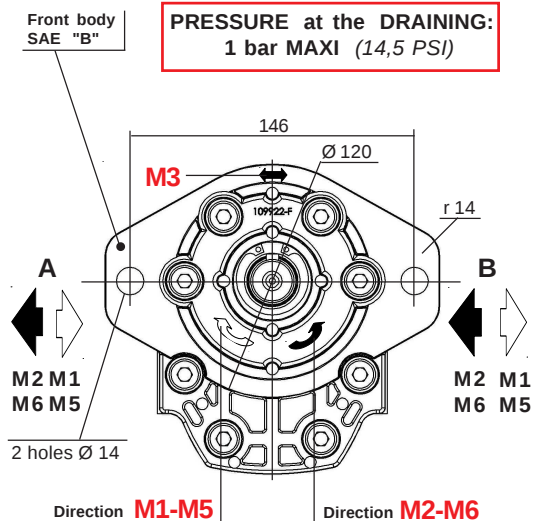
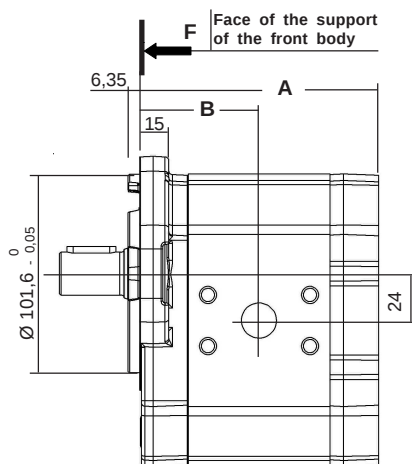
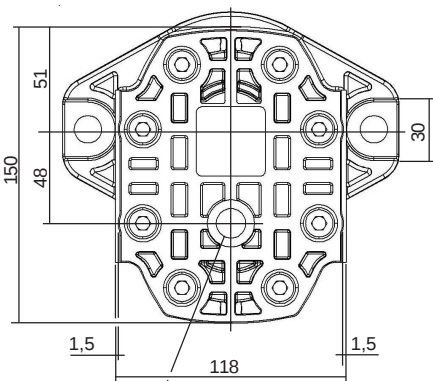
Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1478 10/10



For CODIFICATION, see data sheet **F.T R 0243**



Drain port 3/8" BSP effective depth 18 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
50 N.m

CHOICE of the Capacity

Dimensions

	A	B
025 - 031 - 040	122,7	61,3
050 - 060	149,2	74,5
071 - 080 - 090 - 100	169,2	84,2

Seal kits:

M1 - M2
Nitrile: **K507041** Viton: **K507042**
(For the manufacturings from october 1991)

M3 - M5/M6
Nitrile: **K5071071** Viton: **K5071072**
(For the manufacturings from april 1987)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
3025	25	200	2900	225	3260	250	3625	2500	2800	800	1000	1300	3500	5,6
3031	31	180	2610	210	3045	225	3625	2300	2600	500	1000	1000 ^{225 bar}	3000	5,6
3040	40	180	2610	210	3045	225	3625	2300	2600	500	800	1000 ^{225 bar}	3000	5,7
3050	50	175	2537	205	2972	225	3625	2200	2500	500	800	1000 ^{225 bar}	3000	6,9
3060	60	160	2320	185	2682	225	3262	2000	2300	500	800	1000 ^{200 bar}	3000	7
3071	71	150	2175	175	2537	225	3262	2000	2300	500	800		2500	7
3080	80	120	1740	150	2175	200	2900	1700	2000	500	800 ^{175 bar}		2500	7,1
3090	90	100	1450	130	2175	175	2537	1500	1800	400	800 ^{175 bar}		2000	7,8
3100	100	100	1450	125	1812	175	2175	1500	1800	400	800 ^{150 bar}		2000	8

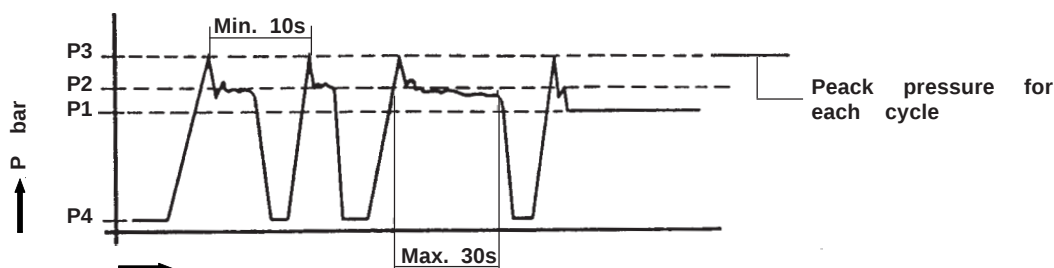
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

home

contents

previous

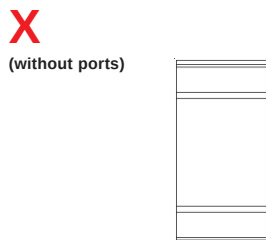
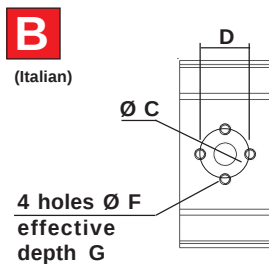
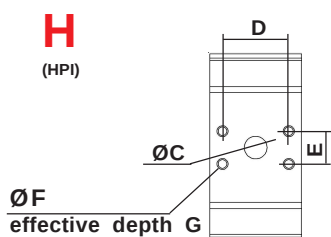
next

main dimensions

PUBLISHING 02 / 2012

CHOICE of the IMPLANTATION of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET A					OUTLET B				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
3025 to 3040	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3050 3060	22	52,4	26,2	M8	17	22	52,4	26,2	M8	17
3071 to 3100	34	35,6	69,8	M8	17	34	35,6	69,8	M8	17
3025 to 3040	18	40		M8	16	27	51		M10	16
3050 3060										
3071 to 3100										
3025 to 3040	Only with rear body Type A									
3050 3060										
3071 to 3100										

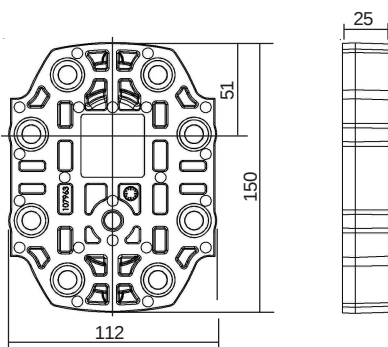
AFFECTATION					
1 way rotation without counter pressure M1		1 way rotation without counter pressure M2		2 ways rotation with counter pressure M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
A	B	B	A	B	A
A	B	B	A	B	A

Dimensions readings and approximative characteristics subject to modifications.

REAR BODIES for MOTORS M1 - M2

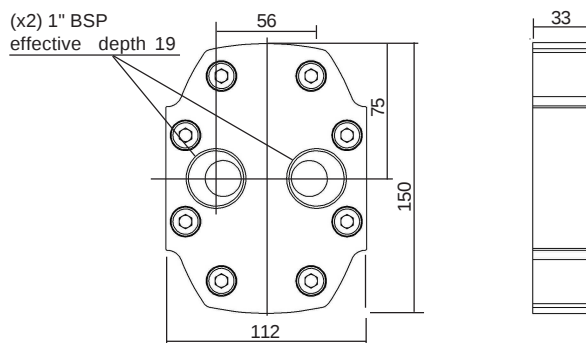
L

Standard



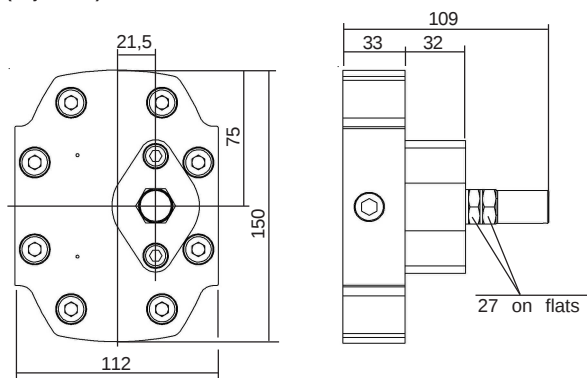
A

with ports



V

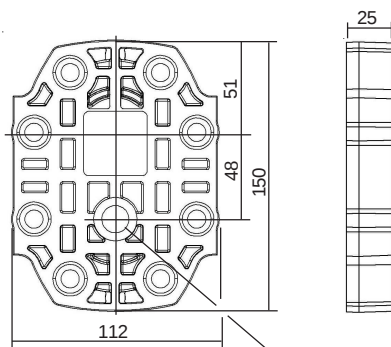
Low pressure relief valve
(Adjustable) Internal return



REAR BODIES for MOTORS M3 - M5 - M6

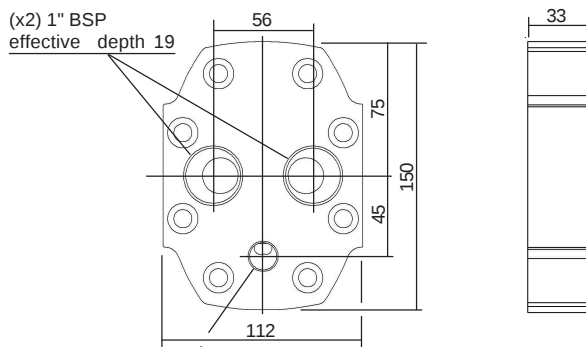
L

Standard



A

with ports



Drain port 3/8" BSP effective depth 18
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Drain port 3/8" BSP effective depth 11
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Dimensions readings and approximative characteristics subject to modifications.

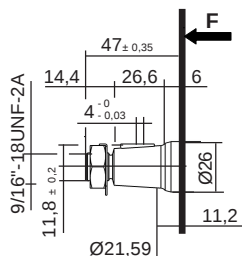
F.T 30 1479 3/4

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

B03 Taper 1 / 8



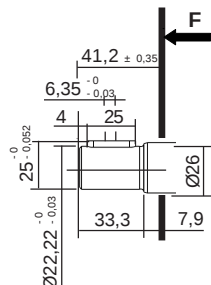
Delivered with Nut and lock washer Ref.: K100734
Ref.: K103945

Maxi transmissible torque
530 N.m

Straight keyed

20

A02

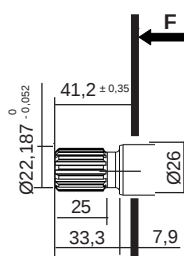


Maxi transmissible torque
290 N.m

Splined

30

A02



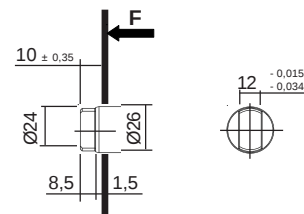
Involute spline SAE Standard
13 teeth - 7/8" -
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
390 N.m

Tang

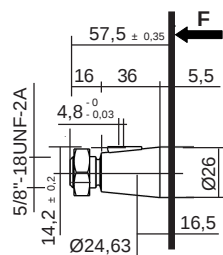
40

C04



Maxi transmissible torque
70 N.m

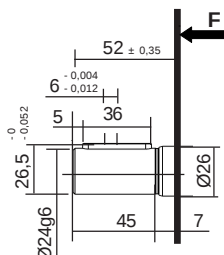
B04 Taper 1 / 8



Delivered with Nut Ref.: K101877

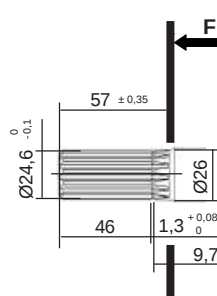
Maxi transmissible torque
800 N.m

C04



Maxi transmissible torque
320 N.m

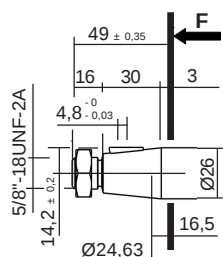
C03



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

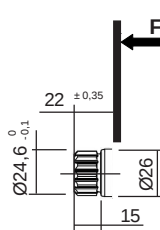
C04 Taper 1 / 5



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

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1479 4/4

Consult us for availability

[home](#)

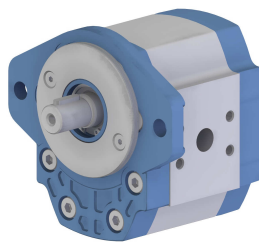
[contents](#)

[previous](#)

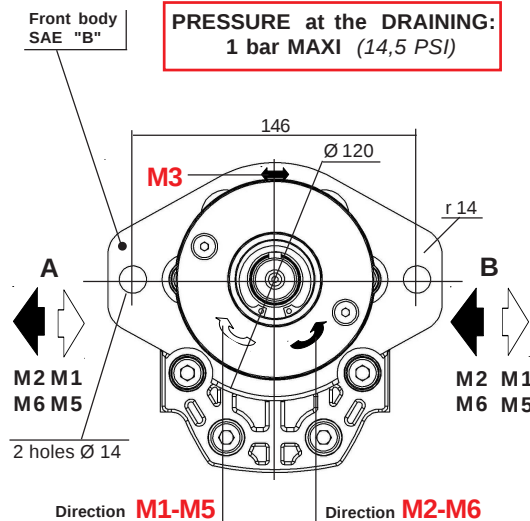
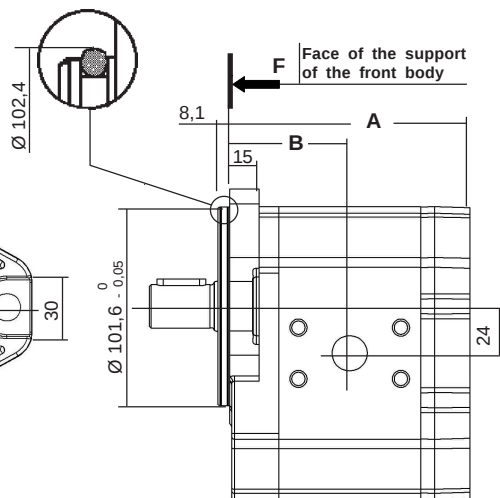
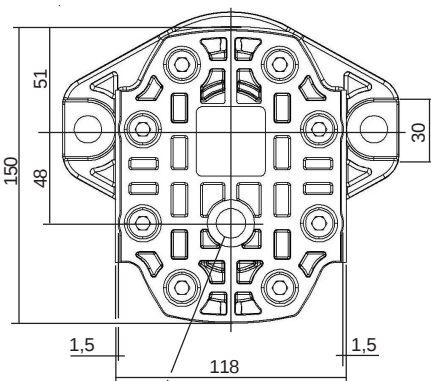
[next](#)

[main dimensions](#)

PUBLISHING 04 / 11 / 2013



For CODIFICATION, see data sheet **F.T R 0243**



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)

Drain port 3/8" BSP effective depth 18 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
50 N.m

CHOICE of the Capacity

Dimensions

	A	B
025 - 031 - 040	122,7	61,3
050 - 060	149,2	74,5
071 - 080 - 090 - 100	169,2	84,2

Seal kits:

M1 - M2
Nitrile: K507041 + K107081
Viton: K507042 + K107045
(For the manufacturings from october 1991)

M3 - M5/M6
Nitrile: K5071071 + K107081
Viton: K5071072 + K107045
(For the manufacturings from april 1987)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
3025	25	200	2900	225	3260	250	3625	2500	2800	800	1000	1300	3500	5,6
3031	31	180	2610	210	3045	225	3625	2300	2600	500	1000	1000 ^{225 bar}	3000	5,6
3040	40	180	2610	210	3045	225	3625	2300	2600	500	800	1000 ^{225 bar}	3000	5,7
3050	50	175	2537	205	2972	225	3625	2200	2500	500	800	1000 ^{225 bar}	3000	6,9
3060	60	160	2320	185	2682	225	3262	2000	2300	500	800	1000 ^{200 bar}	3000	7
3071	71	150	2175	175	2537	225	3262	2000	2300	500	800		2500	7
3080	80	120	1740	150	2175	200	2900	1700	2000	500	800 ^{175 bar}		2500	7,1
3090	90	100	1450	130	2175	175	2537	1500	1800	400	800 ^{175 bar}		2000	7,8
3100	100	100	1450	125	1812	175	2175	1500	1800	400	800 ^{150 bar}		2000	8

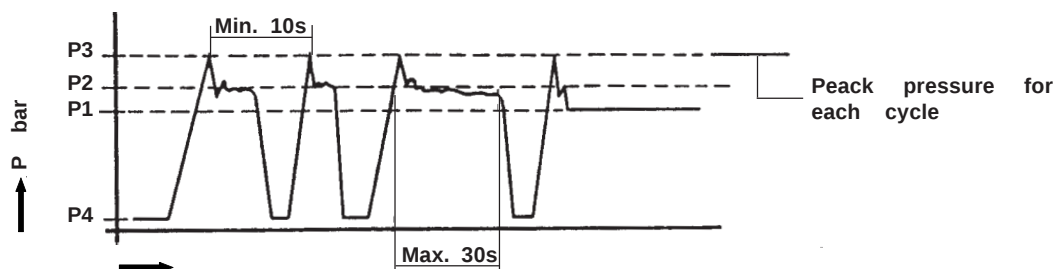
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

home

contents

previous

next

main dimensions

PUBLISHING 04 / 11 / 2013

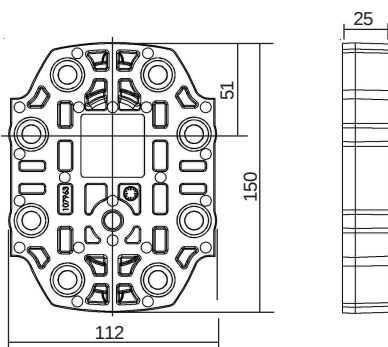
Port connector, see our Catalogue N° 70

Dimensions readings and approximate characteristics subject to modifications.

REAR BODIES for MOTORS M1 - M2

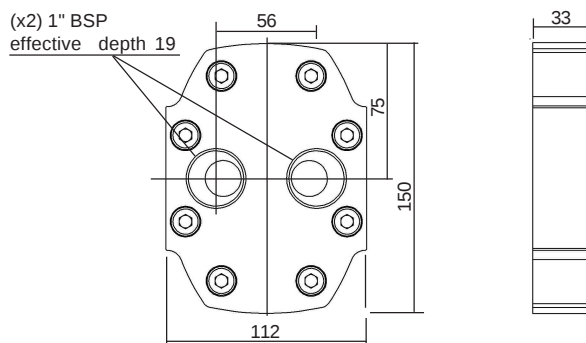
L

Standard



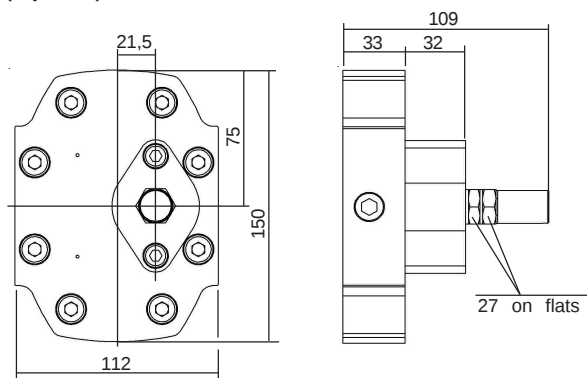
A

with ports



V

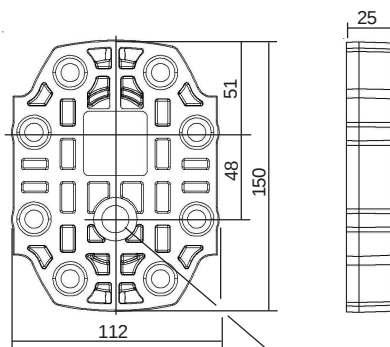
Low pressure relief valve
(Adjustable) Internal return



REAR BODIES for MOTORS M3 - M5 - M6

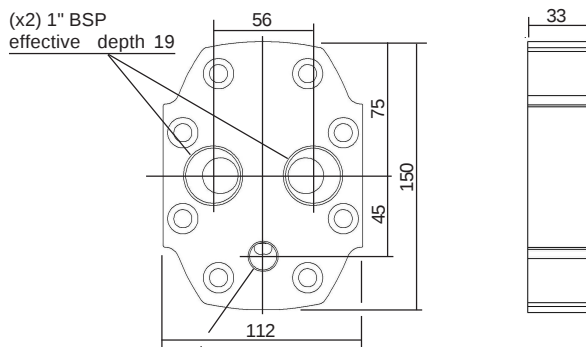
L

Standard



A

with ports



Drain port 3/8" BSP effective depth 18
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Drain port 3/8" BSP effective depth 11
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1480 3/4

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

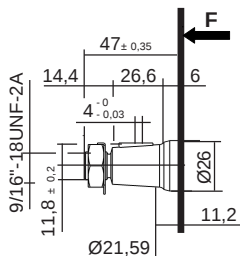
PUBLISHING 02 / 2012

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

B03 Taper 1 / 8



Delivered with Nut and lock washer Ref.: K100734
Ref.: K103945

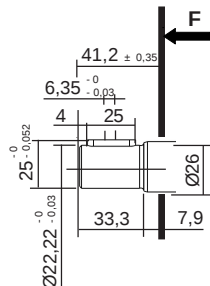
Maxi transmissible torque

530 N.m

Straight keyed

20

A02



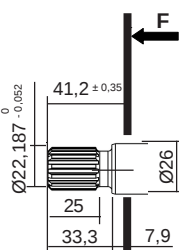
Maxi transmissible torque

290 N.m

Splined

30

A02



Involute spline SAE Standard
13 teeth - 7/8" -
Diametral Pitch 16/32
30° Pressure angle

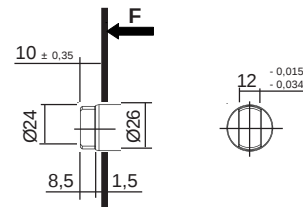
Maxi transmissible torque

390 N.m

Tang

40

C04

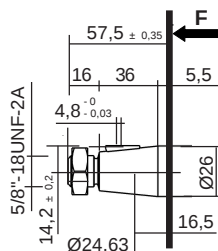


Maxi transmissible torque

70 N.m

B04

Taper 1 / 8

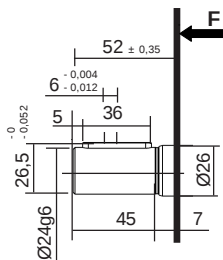


Delivered with Nut Ref.: K101877

Maxi transmissible torque

800 N.m

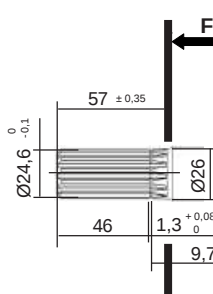
C04



Maxi transmissible torque

320 N.m

C03



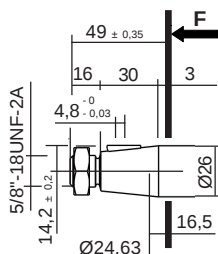
Involute spline shaft
25 x 13 x 1,667
to standard NF E 22 141 - BNA 455
Spigot on free flanks

Maxi transmissible torque

66,5 N.m

C04

Taper 1 / 5

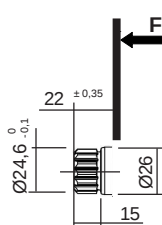


Delivered with Nut Ref.: K101712

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

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1480 4/4

Consult us for availability

[home](#)

[contents](#)

[previous](#)

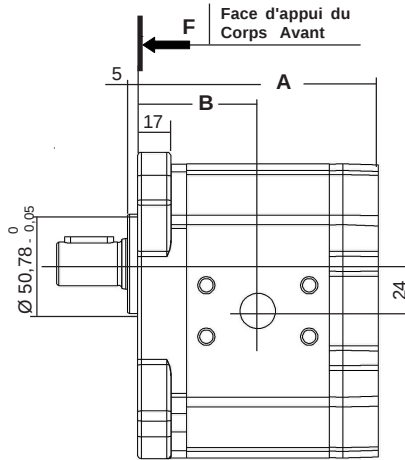
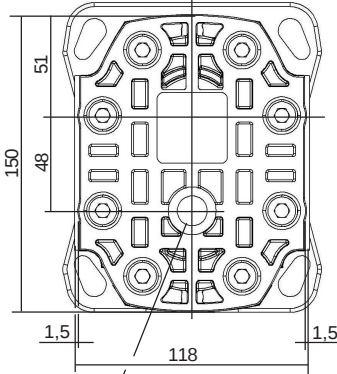
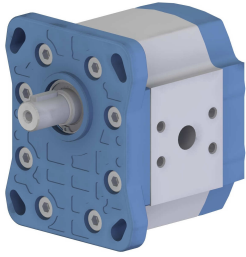
[next](#)

[main dimensions](#)

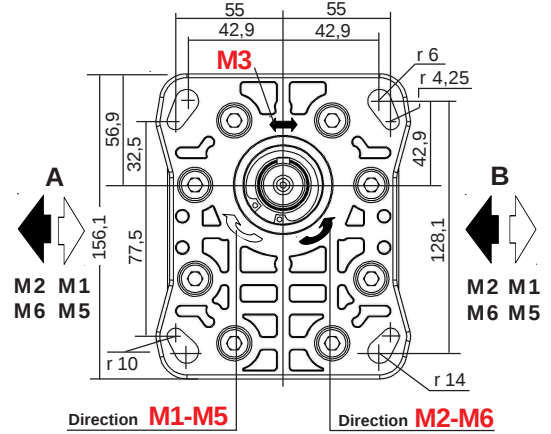
PUBLISHING 04 / 11 / 2013

M II Sign **BA N 3** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet **F.T R 0243**



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 3/8" BSP effective depth 18 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
50 N.m

CHOICE of the Capacity

Dimensions	A	B
025 - 031 - 040	122,7	61,3
050 - 060	149,2	74,5
071 - 080 - 090 - 100	169,2	84,2

Seal kits:

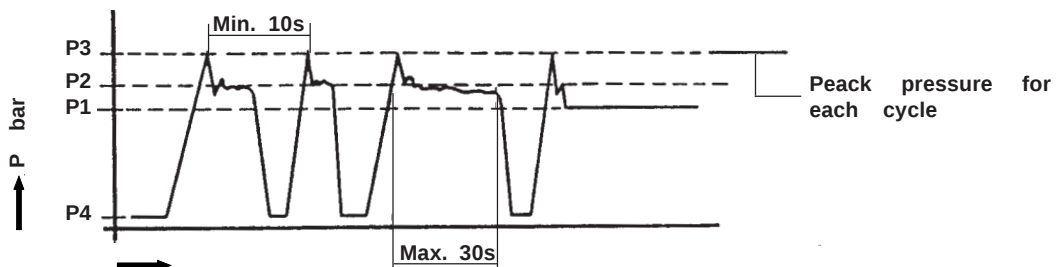
M1 - M2
Nitrile: **K507041** Viton: **K507042**
(For the manufacturings from october 1991)

M3 - M5/M6
Nitrile: **K5071071** Viton: **K5071072**
(For the manufacturings from april 1987)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
3025	25	200	2900	225	3260	250	3625	2500	2800	800	1000	1300	3500	5,6
3031	31	180	2610	210	3045	225	3625	2300	2600	500	1000	1000 ^{225 bar}	3000	5,6
3040	40	180	2610	210	3045	225	3625	2300	2600	500	800	1000 ^{225 bar}	3000	5,7
3050	50	175	2537	205	2972	225	3625	2200	2500	500	800	1000 ^{225 bar}	3000	6,9
3060	60	160	2320	185	2682	225	3262	2000	2300	500	800	1000 ^{200 bar}	3000	7
3071	71	150	2175	175	2537	225	3262	2000	2300	500	800		2500	7
3080	80	120	1740	150	2175	200	2900	1700	2000	500	800 ^{175 bar}		2500	7,1
3090	90	100	1450	130	2175	175	2537	1500	1800	400	800 ^{175 bar}		2000	7,8
3100	100	100	1450	125	1812	175	2175	1500	1800	400	800 ^{150 bar}		2000	8

On the hereunder indicated diagram, the maximum duty pressure are the following.

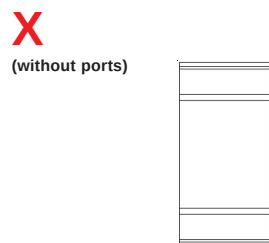
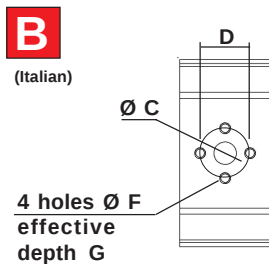
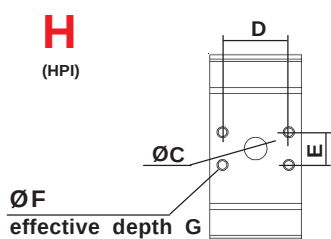
P1 Maximum pressure in continuous duty **P2** Maximum pressure in intermittent duty
P3 Max. Allowable peak pressure **P4** Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATION of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET A					OUTLET B				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3025 to 3040	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3050 3060	22	52,4	26,2	M8	17	22	52,4	26,2	M8	17
3071 to 3100	34	35,6	69,8	M8	17	34	35,6	69,8	M8	17
3025 to 3040	18	40		M8	16	27	51		M10	16
3050 3060										
3071 to 3100										
3025 to 3040	Only with rear body Type A									
3050 3060										
3071 to 3100										

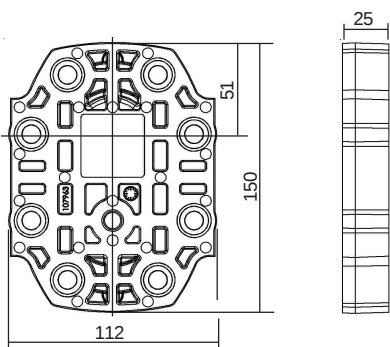
AFFECTATION					
1 way rotation without counter pressure M1		pressure M2		2 ways rotation with counter pressure M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
1 way rotation without counter pressure M5		pressure M6			
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
A	B	B	A	B	A
A	B	B	A	B	A

Dimensions readings and approximative characteristics subject to modifications.

REAR BODIES for MOTORS M1 - M2

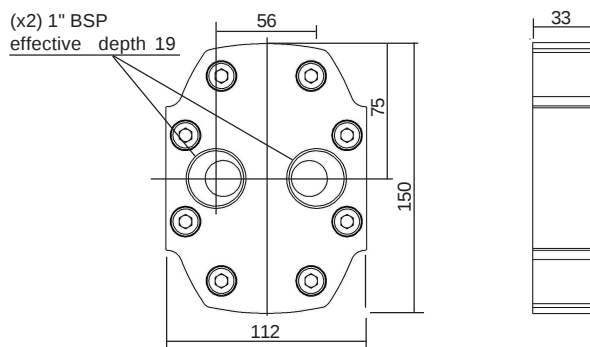
L

Standard



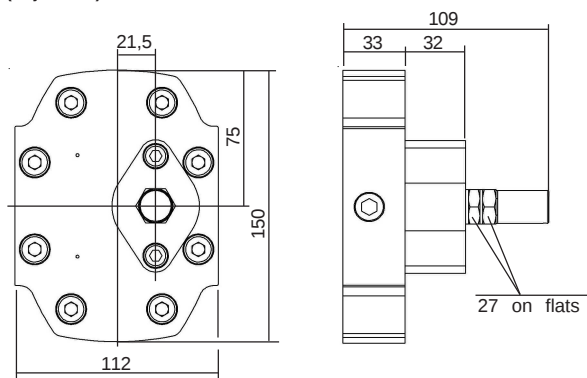
A

with ports



V

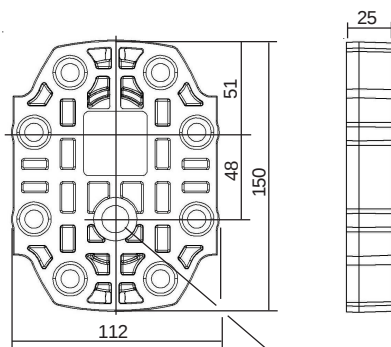
Low pressure relief valve
(Adjustable) Internal return



REAR BODIES for MOTORS M3 - M5 - M6

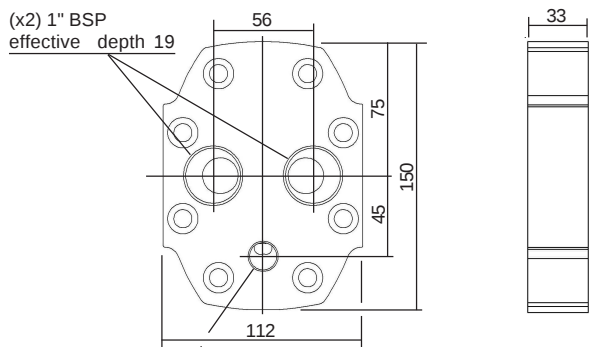
L

Standard



A

with ports



Drain port 3/8" BSP effective depth 18
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Drain port 3/8" BSP effective depth 11
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Dimensions readings and approximative characteristics subject to modifications.

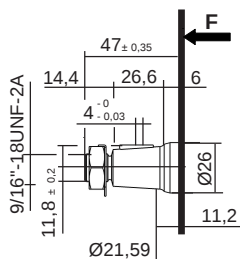
F.T 30 1481 3/4

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

B03 Taper 1 / 8



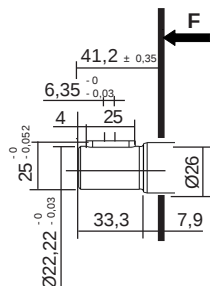
Delivered with Nut and lock washer Ref.: K100734
Ref.: K103945

Maxi transmissible torque
530 N.m

Straight keyed

20

A02

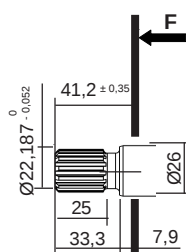


Maxi transmissible torque
290 N.m

Splined

30

A02



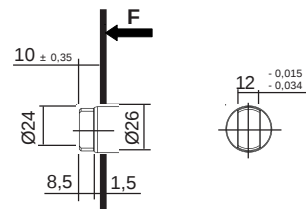
Involute spline SAE Standard
13 teeth - 7/8" -
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
390 N.m

Tang

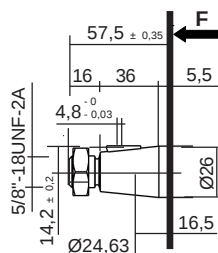
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C04



Maxi transmissible torque
70 N.m

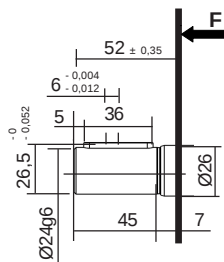
B04 Taper 1 / 8



Delivered with Nut Ref.: K101877

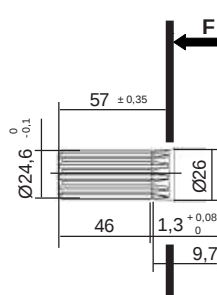
Maxi transmissible torque
800 N.m

C04



Maxi transmissible torque
320 N.m

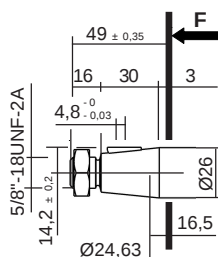
C03



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

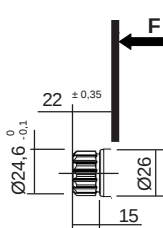
C04 Taper 1 / 5



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

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1481 4/4

Consult us for availability

[home](#)

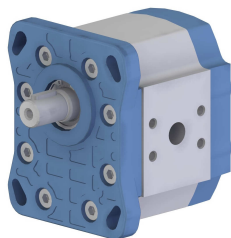
[contents](#)

[previous](#)

[next](#)

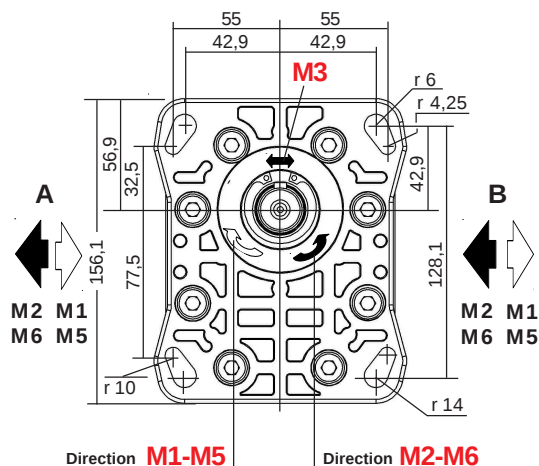
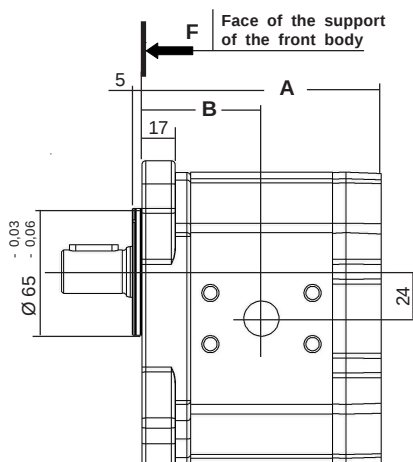
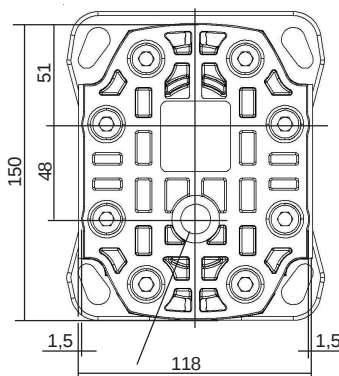
[main dimensions](#)

PUBLISHING 04 / 11 / 2013



For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 3/8" BSP effective depth 18 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
50 N.m

CHOICE of the Capacity

Dimensions	A	B
025 - 031 - 040	122,7	61,3
050 - 060	149,2	74,5
071 - 080 - 090 - 100	169,2	84,2

Seal kits:

M1 - M2
Nitrile: **K507041** Viton: **K507042**
(For the manufacturings from october 1991)

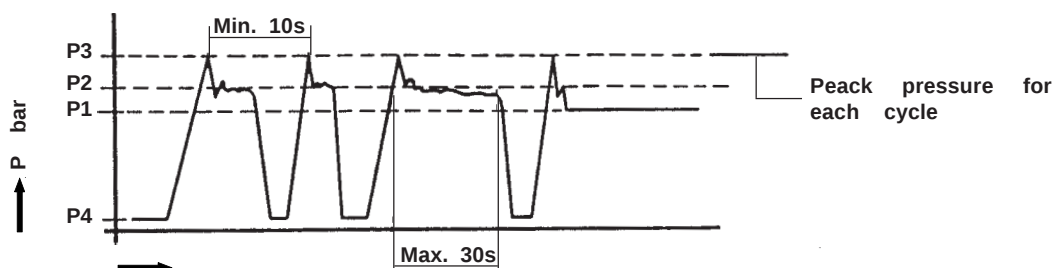
M3 - M5/M6
Nitrile: **K5071071** Viton: **K5071072**
(For the manufacturings from april 1987)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
3025	25	200	2900	225	3260	250	3625	2500	2800	800	1000	1300	3500	5,6
3031	31	180	2610	210	3045	225	3625	2300	2600	500	1000	1000 ²²⁵ bar	3000	5,6
3040	40	180	2610	210	3045	225	3625	2300	2600	500	800	1000 ²²⁵ bar	3000	5,7
3050	50	175	2537	205	2972	225	3625	2200	2500	500	800	1000 ²²⁵ bar	3000	6,9
3060	60	160	2320	185	2682	225	3262	2000	2300	500	800	1000 ²⁰⁰ bar	3000	7
3071	71	150	2175	175	2537	225	3262	2000	2300	500	800		2500	7
3080	80	120	1740	150	2175	200	2900	1700	2000	500	800 ¹⁷⁵ bar		2500	7,1
3090	90	100	1450	130	2175	175	2537	1500	1800	400	800 ¹⁷⁵ bar		2000	7,8
3100	100	100	1450	125	1812	175	2175	1500	1800	400	800 ¹⁵⁰ bar		2000	8

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

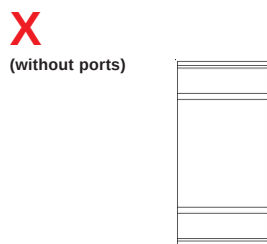
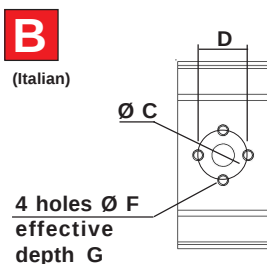
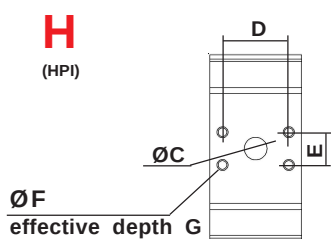
P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATION of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET A					OUTLET B				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3025 to 3040	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3050 3060	22	52,4	26,2	M8	17	22	52,4	26,2	M8	17
3071 to 3100	34	35,6	69,8	M8	17	34	35,6	69,8	M8	17
3025 to 3040	18	40		M8	16	27	51		M10	16
3050 3060										
3071 to 3100										
3025 to 3040	Only with rear body Type A									
3050 3060										
3071 to 3100										

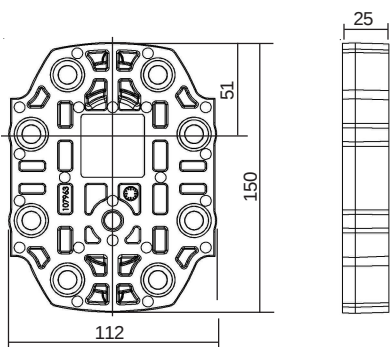
AFFECTATION					
1 way rotation without counter pressure M1		1 way rotation without counter pressure M2		2 ways rotation with counter pressure M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
A	B	B	A	B	A
A	B	B	A	B	A

Dimensions readings and approximative characteristics subject to modifications.

REAR BODIES for MOTORS M1 - M2

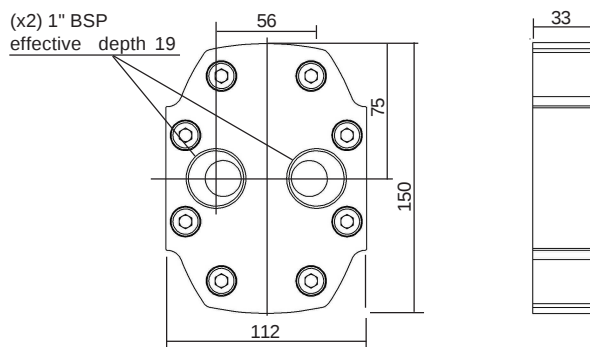
L

Standard



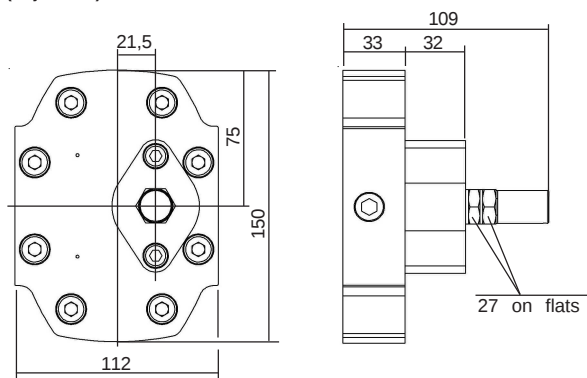
A

with ports



V

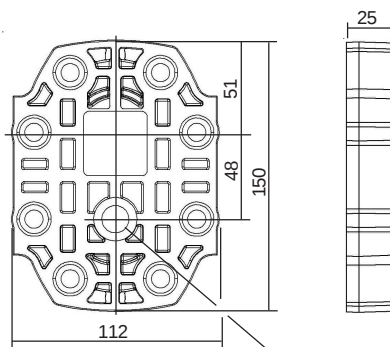
Low pressure relief valve
(Adjustable) Internal return



REAR BODIES for MOTORS M3 - M5 - M6

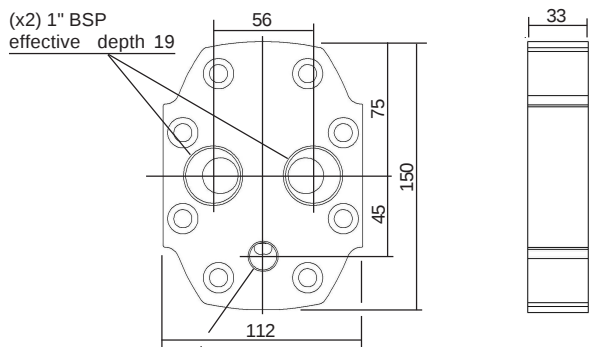
L

Standard



A

with ports



Drain port 3/8" BSP effective depth 18
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Drain port 3/8" BSP effective depth 11
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Dimensions readings and approximative characteristics subject to modifications.

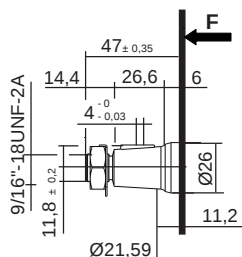
F.T 30 1482 3/4

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

B03 Taper 1 / 8



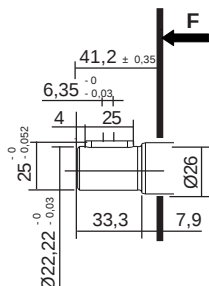
Delivered with Nut and lock washer Ref.: K100734
Ref.: K103945

Maxi transmissible torque
530 N.m

Straight keyed

20

A02

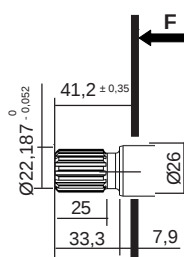


Maxi transmissible torque
290 N.m

Splined

30

A02



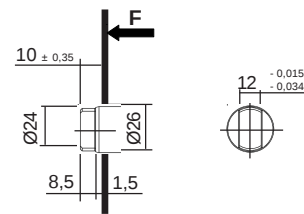
Involute spline SAE Standard
13 teeth - 7/8" -
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
390 N.m

Tang

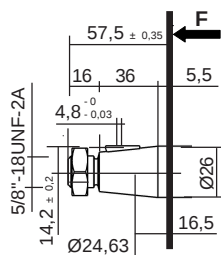
40

C04



Maxi transmissible torque
70 N.m

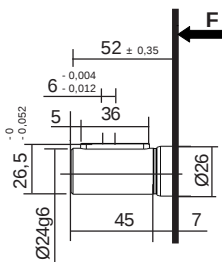
B04 Taper 1 / 8



Delivered with Nut Ref.: K101877

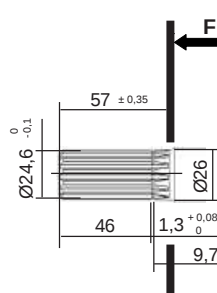
Maxi transmissible torque
800 N.m

C04



Maxi transmissible torque
320 N.m

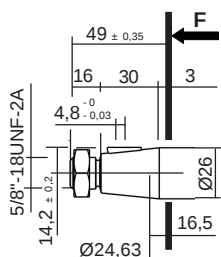
C03



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

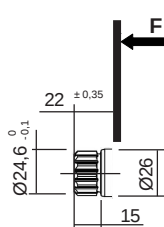
C04 Taper 1 / 5



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

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1482 4/4

Consult us for availability

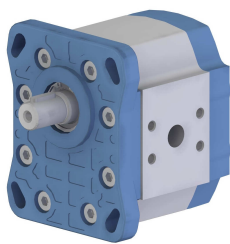
[home](#)

[contents](#)

[previous](#)

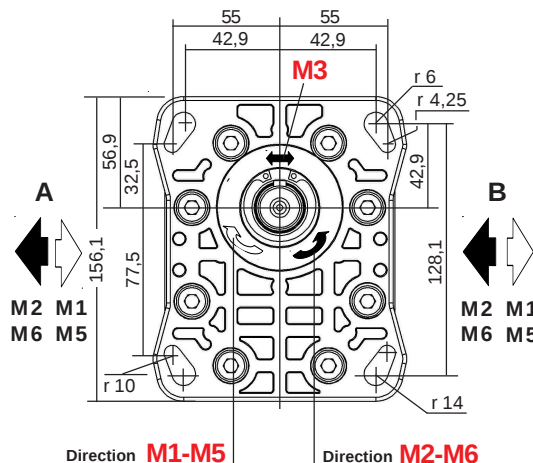
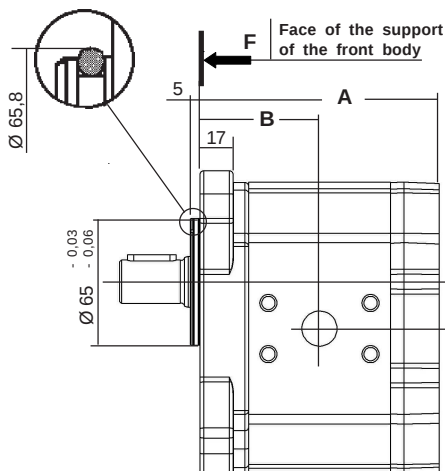
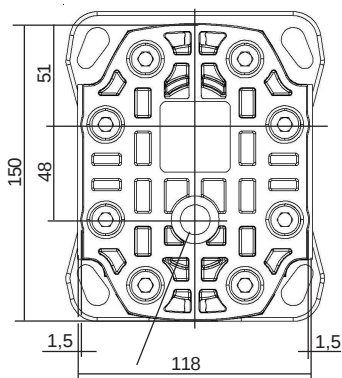
[next](#)

[main dimensions](#)



For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 3/8" BSP effective depth 18 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
50 N.m

CHOICE of the Capacity	Dimensions	
	A	B
025 - 031 - 040	122,7	61,3
050 - 060	149,2	74,5
071 - 080 - 090 - 100	169,2	84,2

Seal kits:

M1 - M2
Nitrile: **K507041 + K106675**
Viton: **K507042 + K106676**
(For the manufacturings from october 1991)

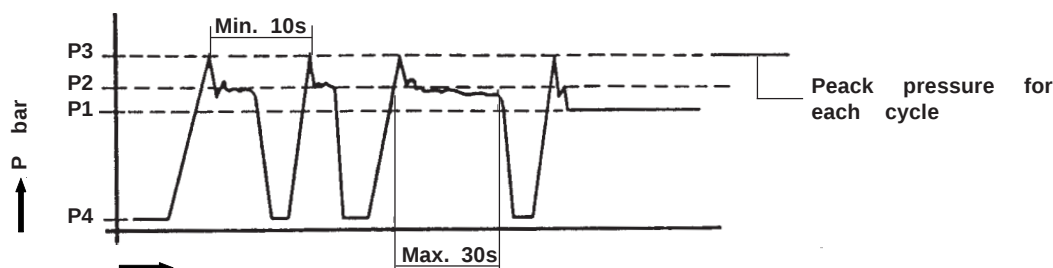
M3 - M5/M6
Nitrile: **K5071071 + K106675**
Viton: **K5071072 + K106676**
(For the manufacturings from april 1987)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
3025	25	200	2900	225	3260	250	3625	2500	2800	800	1000	1300	3500	5,6
3031	31	180	2610	210	3045	225	3625	2300	2600	500	1000	1000 ^{225 bar}	3000	5,6
3040	40	180	2610	210	3045	225	3625	2300	2600	500	800	1000 ^{225 bar}	3000	5,7
3050	50	175	2537	205	2972	225	3625	2200	2500	500	800	1000 ^{225 bar}	3000	6,9
3060	60	160	2320	185	2682	225	3262	2000	2300	500	800	1000 ^{200 bar}	3000	7
3071	71	150	2175	175	2537	225	3262	2000	2300	500	800		2500	7
3080	80	120	1740	150	2175	200	2900	1700	2000	500	800 ^{175 bar}		2500	7,1
3090	90	100	1450	130	2175	175	2537	1500	1800	400	800 ^{175 bar}		2000	7,8
3100	100	100	1450	125	1812	175	2175	1500	1800	400	800 ^{150 bar}		2000	8

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

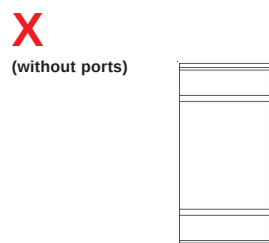
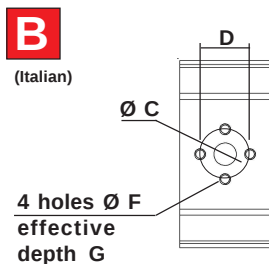
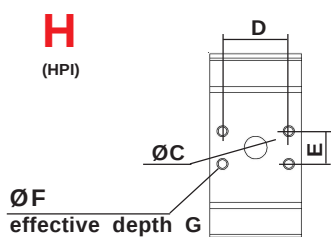
P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATION of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET A					OUTLET B				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3025 to 3040	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3050 3060	22	52,4	26,2	M8	17	22	52,4	26,2	M8	17
3071 to 3100	34	35,6	69,8	M8	17	34	35,6	69,8	M8	17
3025 to 3040	18	40		M8	16	27	51		M10	16
3050 3060										
3071 to 3100										
3025 to 3040	Only with rear body Type A									
3050 3060										
3071 to 3100										

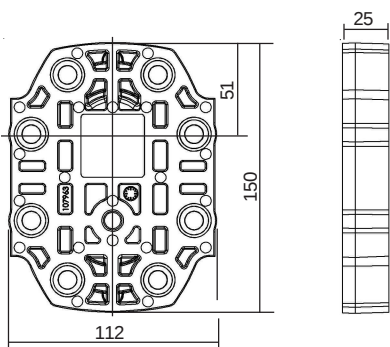
AFFECTATION					
1 way rotation without counter pressure M1		1 way rotation without counter pressure M2		2 ways rotation with counter pressure M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
A	B	B	A	B	A
A	B	B	A	B	A

Dimensions readings and approximative characteristics subject to modifications.

REAR BODIES for MOTORS M1 - M2

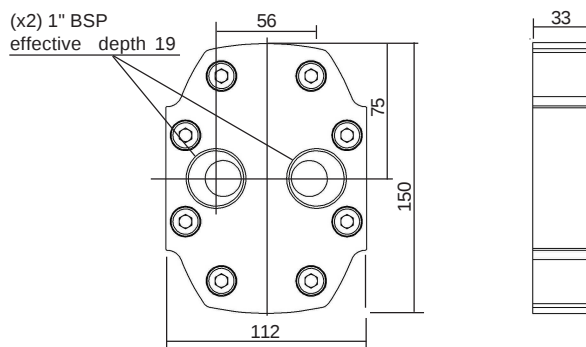
L

Standard



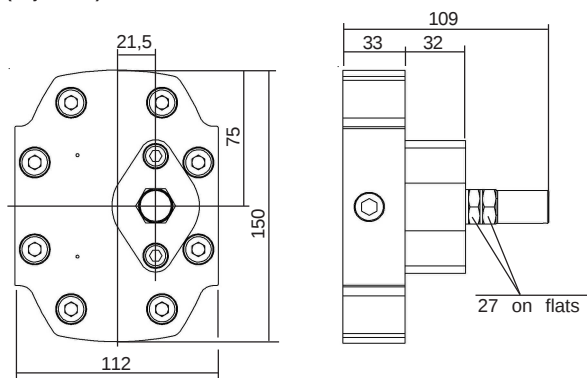
A

with ports



V

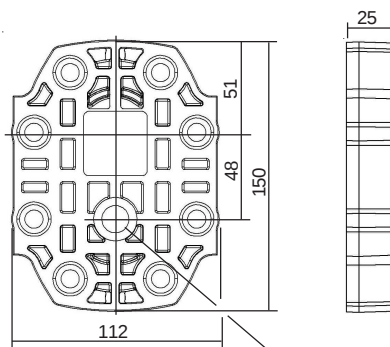
Low pressure relief valve
(Adjustable) Internal return



REAR BODIES for MOTORS M3 - M5 - M6

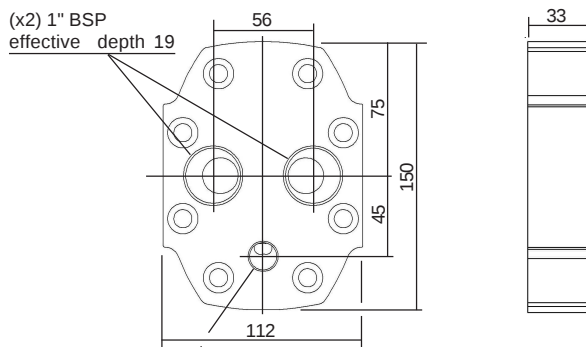
L

Standard



A

with ports



Drain port 3/8" BSP effective depth 18
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Drain port 3/8" BSP effective depth 11
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1483 3/4

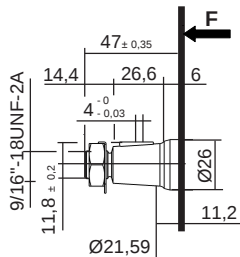
Consult us for availability

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

B03 Taper 1 / 8



Delivered with Nut and lockwasher Ref.: K100734
Ref.: K103945

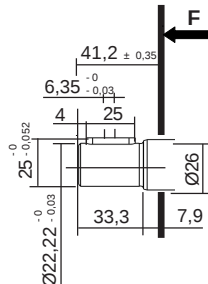
Maxi transmissible torque

530 N.m

Straight keyed

20

A02



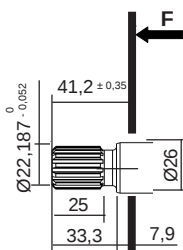
Maxi transmissible torque

290 N.m

Splined

30

A02



Involute spline SAE Standard
13 teeth - 7/8" -
Diametral Pitch 16/32
30° Pressure angle

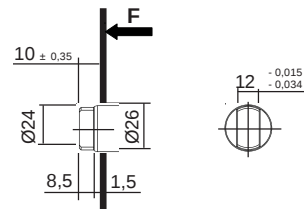
Maxi transmissible torque

390 N.m

Tang

40

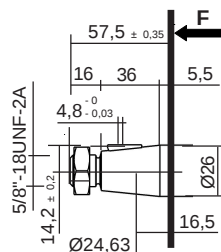
C04



Maxi transmissible torque

70 N.m

B04 Taper 1 / 8

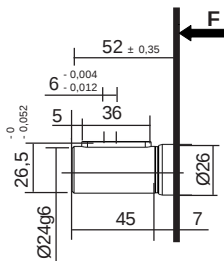


Delivered with Nut Ref.: K101877

Maxi transmissible torque

800 N.m

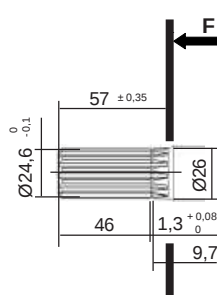
C04



Maxi transmissible torque

320 N.m

C03

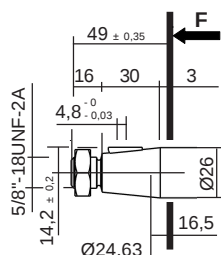


Involute spline shaft
25 x 13 x 1,667
to standard NF E 22 141 - BNA 455
Spigot on free flanks

Maxi transmissible torque

66,5 N.m

C04 Taper 1 / 5

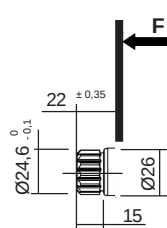


Delivered with Nut Ref.: K101712

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

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1483 4/4

Consult us for availability

home

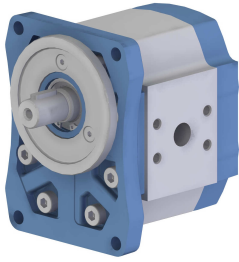
contents

previous

next

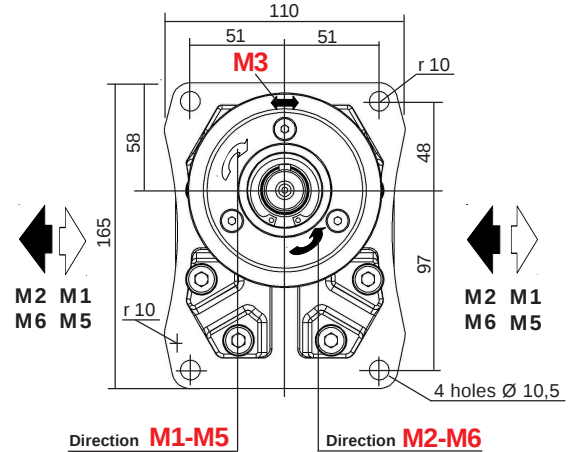
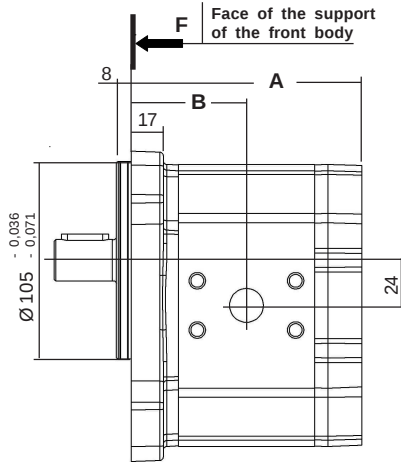
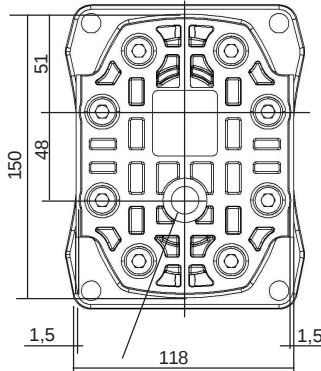
main dimensions

PUBLISHING 04 / 11 / 2013



For CODIFICATION, see data sheet **F.T.R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 3/8" BSP effective depth 18 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
50 N.m

CHOICE of the Capacity	Dimensions	
	A	B
025 - 031 - 040	122,7	61,3
050 - 060	149,2	74,5
071 - 080 - 090 - 100	169,2	84,2

Seal kits:

M1 - M2
Nitrile: K507041 Viton: K507042
(For the manufacturings from october 1991)

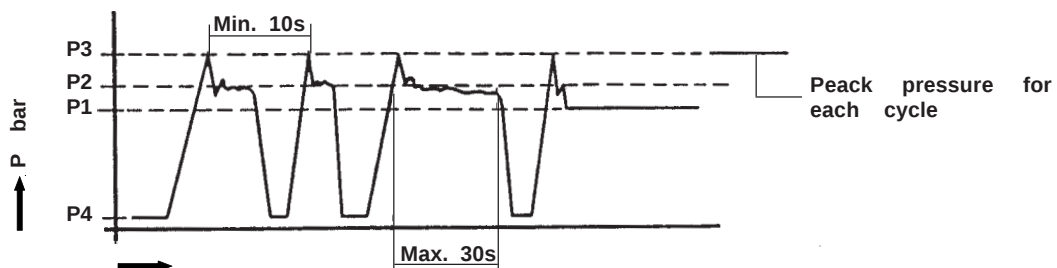
M3 - M5/M6
Nitrile: K5071071 Viton: K5071072
(For the manufacturings from april 1987)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
3025	25	200	2900	225	3260	250	3625	2500	2800	800	1000	1300	3500	5,6
3031	31	180	2610	210	3045	225	3625	2300	2600	500	1000	1000 ^{225 bar}	3000	5,6
3040	40	180	2610	210	3045	225	3625	2300	2600	500	800	1000 ^{225 bar}	3000	5,7
3050	50	175	2537	205	2972	225	3625	2200	2500	500	800	1000 ^{225 bar}	3000	6,9
3060	60	160	2320	185	2682	225	3262	2000	2300	500	800	1000 ^{200 bar}	3000	7
3071	71	150	2175	175	2537	225	3262	2000	2300	500	800		2500	7
3080	80	120	1740	150	2175	200	2900	1700	2000	500	800 ^{175 bar}		2500	7,1
3090	90	100	1450	130	2175	175	2537	1500	1800	400	800 ^{175 bar}		2000	7,8
3100	100	100	1450	125	1812	175	2175	1500	1800	400	800 ^{150 bar}		2000	8

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

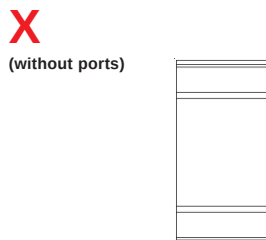
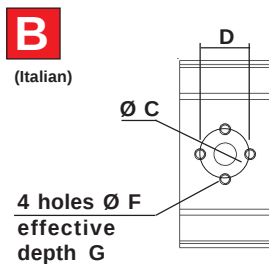
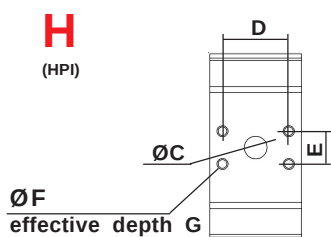
P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATION of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET A					OUTLET B				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3025 to 3040	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3050 3060	22	52,4	26,2	M8	17	22	52,4	26,2	M8	17
3071 to 3100	34	35,6	69,8	M8	17	34	35,6	69,8	M8	17
3025 to 3040	18	40		M8	16	27	51		M10	16
3050 3060										
3071 to 3100										
3025 to 3040	Only with rear body Type A									
3050 3060										
3071 to 3100										

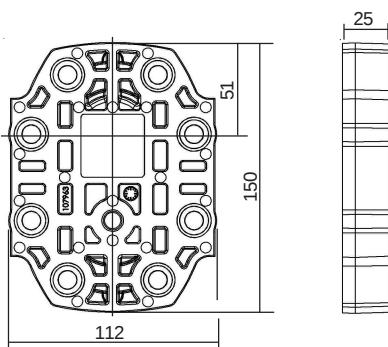
AFFECTATION					
1 way rotation without counter pressure M1		1 way rotation without counter pressure M2		2 ways rotation with counter pressure M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
A	B	B	A	B	A
A	B	B	A	B	A

Dimensions readings and approximative characteristics subject to modifications.

REAR BODIES for MOTORS M1 - M2

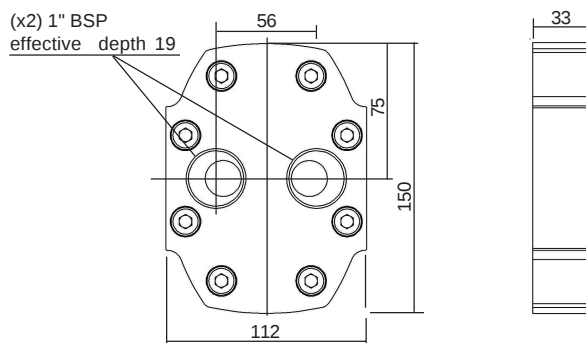
L

Standard



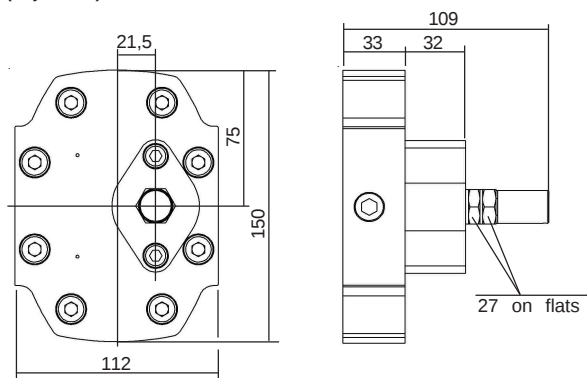
A

with ports



V

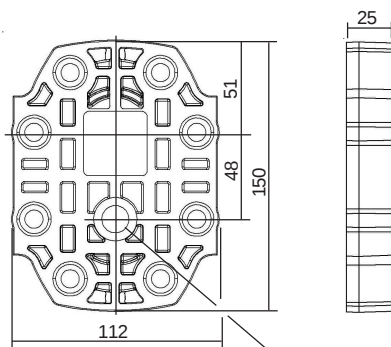
Low pressure relief valve
(Adjustable) Internal return



REAR BODIES for MOTORS M3 - M5 - M6

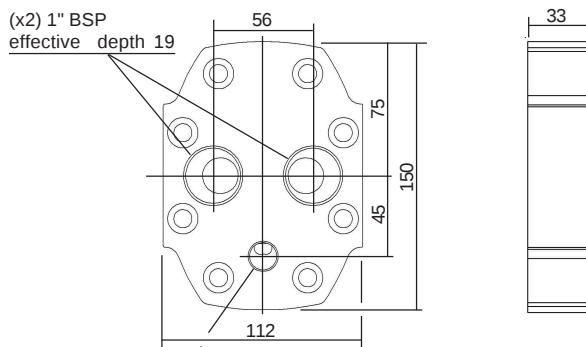
L

Standard



A

with ports



Drain port 3/8" BSP effective depth 18
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Drain port 3/8" BSP effective depth 11
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Dimensions readings and approximative characteristics subject to modifications.

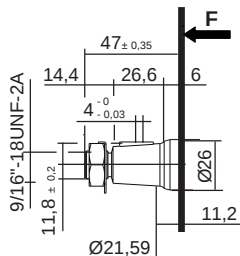
F.T 30 1484 3/4

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

B03 Taper 1 / 8



Delivered with Nut Ref.: K100734
and lockwasher Ref.: K103945

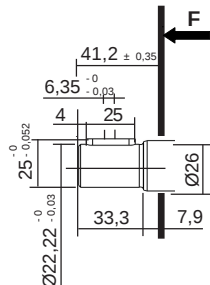
Maxi transmissible torque

530 N.m

Straight keyed

20

A02



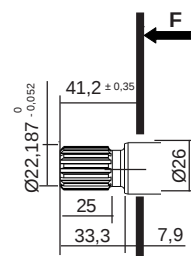
Maxi transmissible torque

290 N.m

Splined

30

A02



Involute spline SAE Standard
13 teeth - 7/8" -
Diametral Pitch 16/32
30° Pressure angle

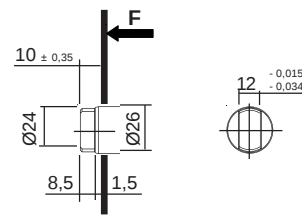
Maxi transmissible torque

390 N.m

Tang

40

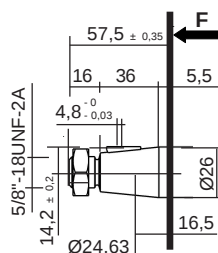
C04



Maxi transmissible torque

70 N.m

B04 Taper 1 / 8

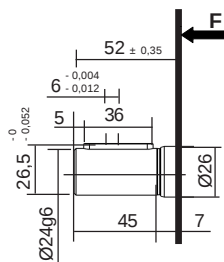


Delivered with Nut Ref.: K101877

Maxi transmissible torque

800 N.m

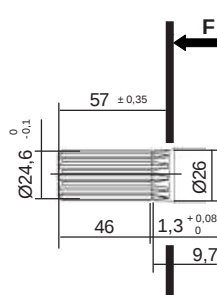
C04



Maxi transmissible torque

320 N.m

C03

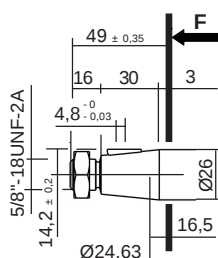


Involute spline shaft
25 x 13 x 1,667
to standard NF E 22 141 - BNA 455
Spigot on free flanks

Maxi transmissible torque

66,5 N.m

C04 Taper 1 / 5

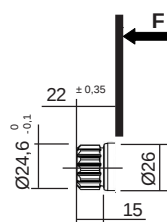


Delivered with Nut Ref.: K101712

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

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1484 4/4

Consult us for availability

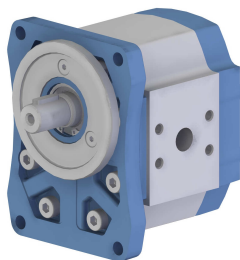
[home](#)

[contents](#)

[previous](#)

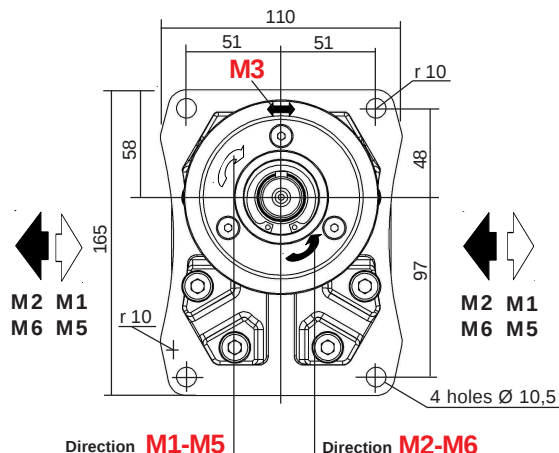
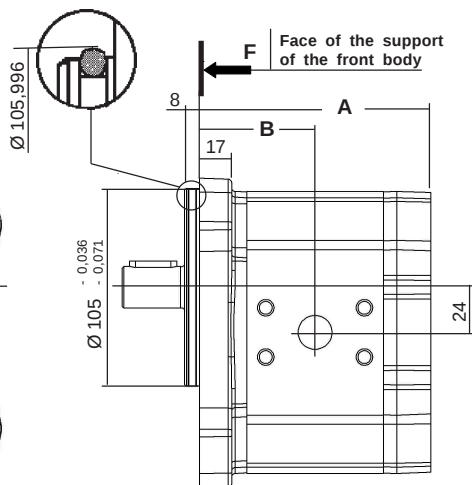
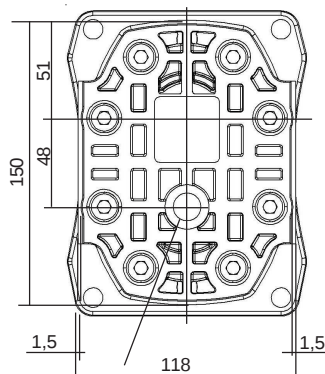
[next](#)

[main dimensions](#)



For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 3/8" BSP effective depth 18 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
50 N.m

CHOICE of the Capacity

Dimensions

	A	B
025 - 031 - 040	122,7	61,3
050 - 060	149,2	74,5
071 - 080 - 090 - 100	169,2	84,2

Seal kits:

M1 - M2
Nitrile: K507041 + K106998
Viton: K507042 + K108537
(For the manufacturings from october 1991)

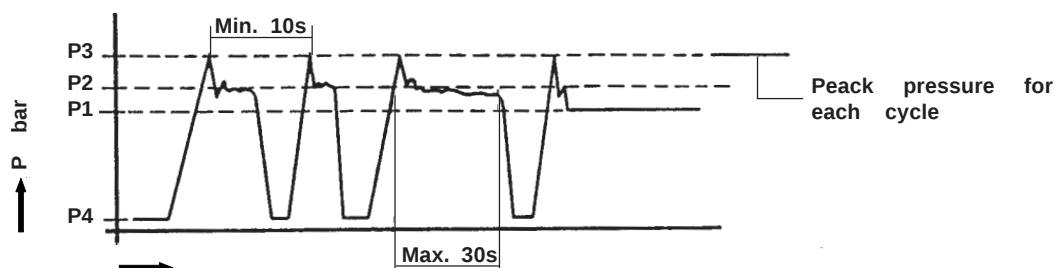
M3 - M5/M6
Nitrile: K5071071 + K106998
Viton: K5071072 + K108537
(For the manufacturings from april 1987)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
3025	25	200	2900	225	3260	250	3625	2500	2800	800	1000	1300	3500	5,6
3031	31	180	2610	210	3045	225	3625	2300	2600	500	1000	1000 ^{225 bar}	3000	5,6
3040	40	180	2610	210	3045	225	3625	2300	2600	500	800	1000 ^{225 bar}	3000	5,7
3050	50	175	2537	205	2972	225	3625	2200	2500	500	800	1000 ^{225 bar}	3000	6,9
3060	60	160	2320	185	2682	225	3262	2000	2300	500	800	1000 ^{200 bar}	3000	7
3071	71	150	2175	175	2537	225	3262	2000	2300	500	800		2500	7
3080	80	120	1740	150	2175	200	2900	1700	2000	500	800 ^{175 bar}		2500	7,1
3090	90	100	1450	130	2175	175	2537	1500	1800	400	800 ^{175 bar}		2000	7,8
3100	100	100	1450	125	1812	175	2175	1500	1800	400	800 ^{150 bar}		2000	8

On the hereunder indicated diagram, the maximum duty pressure are the following.

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

P2 Maximum pressure in intermittent duty
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

home

contents

previous

next

main dimensions

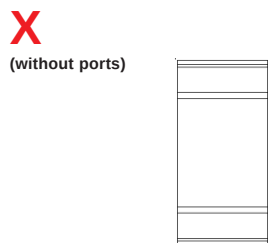
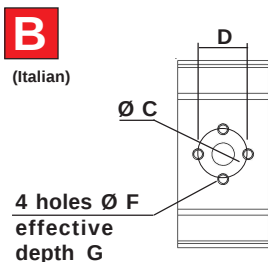
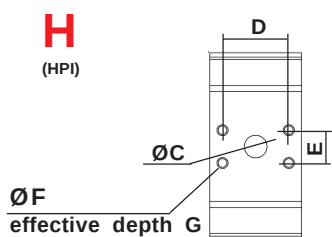
PUBLISHING 02 / 2012

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1485 1/4

CHOICE of the IMPLANTATION of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET A					OUTLET B				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
3025 to 3040	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3050 3060	22	52,4	26,2	M8	17	22	52,4	26,2	M8	17
3071 to 3100	34	35,6	69,8	M8	17	34	35,6	69,8	M8	17
3025 to 3040	18	40		M8	16	27	51		M10	16
3050 3060										
3071 to 3100										
3025 to 3040	Only with rear body Type A									
3050 3060										
3071 to 3100										

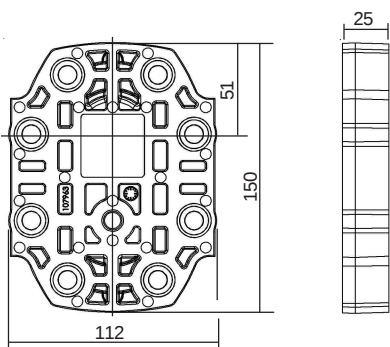
AFFECTATION					
1 way rotation without counter pressure M1			2 ways rotation with counter pressure M2		
INLET	OUTLET		INLET	OUTLET	
1 way rotation without counter pressure M5			1 way rotation without counter pressure M6		
INLET	OUTLET		INLET	OUTLET	
A	B		B	A	
B	A		A	B	
			M3		
			INLET	OUTLET	
			B	A	
			A	B	

Dimensions readings and approximative characteristics subject to modifications.

REAR BODIES for MOTORS M1 - M2

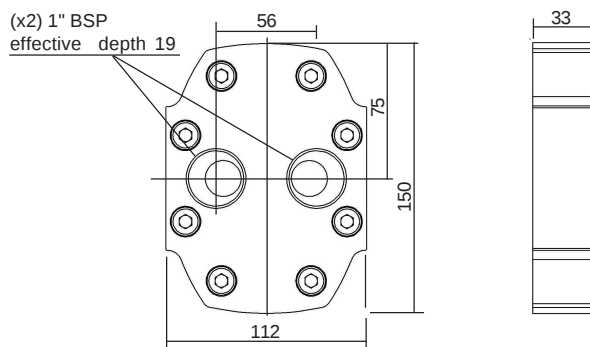
L

Standard



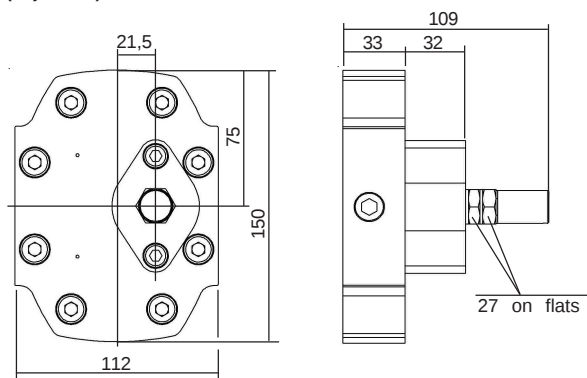
A

with ports



V

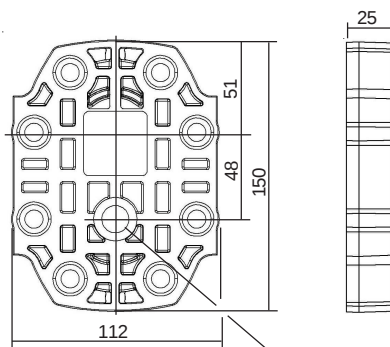
Low pressure relief valve
(Adjustable) Internal return



REAR BODIES for MOTORS M3 - M5 - M6

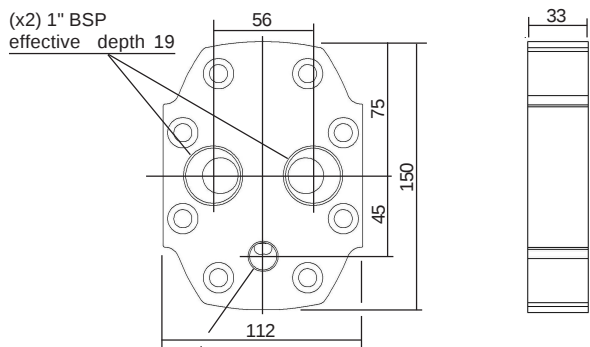
L

Standard



A

with ports



Drain port 3/8" BSP effective depth 18
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Drain port 3/8" BSP effective depth 11
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1485 3/4

Consult us for availability

home

contents

previous

next

main dimensions

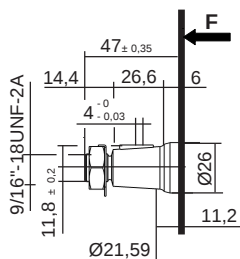
PUBLISHING 02 / 2012

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

B03 Taper 1 / 8



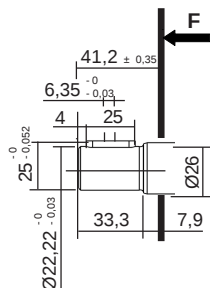
Delivered with Nut and lock washer Ref.: K100734
Ref.: K103945

Maxi transmissible torque
530 N.m

Straight keyed

20

A02

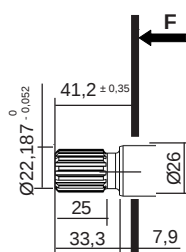


Maxi transmissible torque
290 N.m

Splined

30

A02



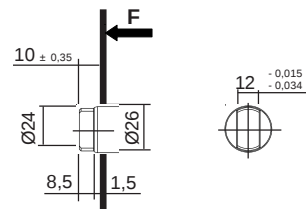
Involute spline SAE Standard
13 teeth - 7/8" -
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
390 N.m

Tang

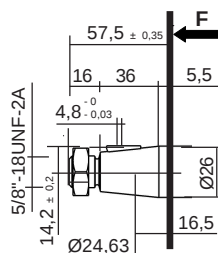
40

C04



Maxi transmissible torque
70 N.m

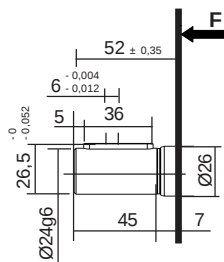
B04 Taper 1 / 8



Delivered with Nut Ref.: K101877

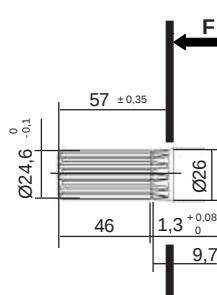
Maxi transmissible torque
800 N.m

C04



Maxi transmissible torque
320 N.m

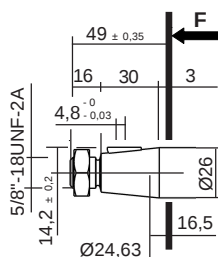
C03



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

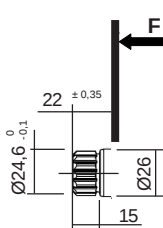
C04 Taper 1 / 5



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

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1485 4/4

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

PUBLISHING 04 / 11 / 2013

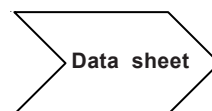


MOTORS PRESENTATION SERIES 3

F.T 30 1456

- THICK FRONT BODY

MOTOR **AAP**



F.T 30 1486

MOTOR **AAR**



F.T 30 1487

MOTOR **ABP**



F.T 30 1488

MOTOR **ABR**



F.T 30 1489



Consult us for availability

- THICK FRONT BODY (rest)

MOTOR

ADF



Data sheet

F.T 30 1490

MOTOR

ADP



Data sheet

F.T 30 1491

MOTOR

ADR



Data sheet

F.T 30 1492



Consult us for availability

[home](#)

[contents](#)

[previous](#)

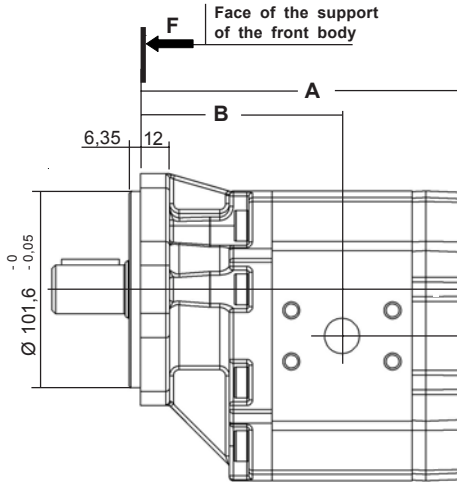
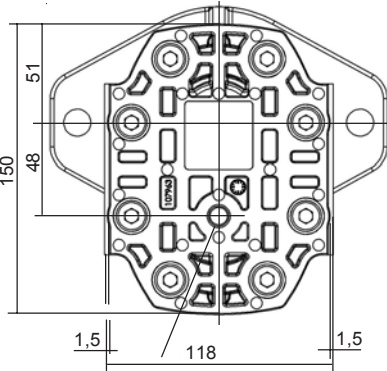
[next](#)

[main dimensions](#)

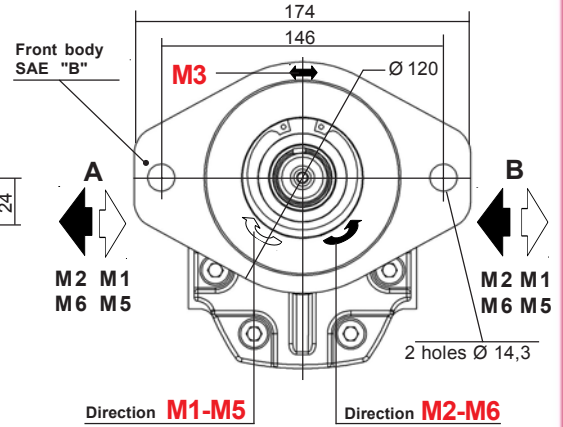
PUBLISHING 02 / 2012

M II Sign AA P 3 VI Sign H L IX Sign X Sign XI Sign XII Sign

For CODIFICATION, see data sheet F.T R 0243



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 3/8" BSP effective depth 18 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
50 N.m

CHOICE of the Capacity

Dimensions
A B

025 - 031 - 040	165,7	104,3
050 - 060	192,2	117,5
071 - 080 - 090 - 100	212,2	127,2

Seal kits:

M1 - M2

Nitrile: K5074043 + K103765

Viton: K5074044 + K104156

(For the manufacturings from october 1991)

M3 - M5/M6

Nitrile: K5071073 + K103765

Viton: K5071074 + K104156

(For the manufacturings from april 1987)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
3025	25	200	2900	225	3260	250	3625	2500	2800	800	1000	1300	3500	6,4
3031	31	180	2610	210	3045	225	3625	2300	2600	500	1000	1000 ^{225 bar}	3000	6,4
3040	40	180	2610	210	3045	225	3625	2300	2600	500	800	1000 ^{225 bar}	3000	6,5
3050	50	175	2537	205	2972	225	3625	2200	2500	500	800	1000 ^{225 bar}	3000	7,7
3060	60	160	2320	185	2682	225	3262	2000	2300	500	800	1000 ^{200 bar}	3000	7,8
3071	71	150	2175	175	2537	225	3262	2000	2300	500	800	175 bar 150 bar	2500	8,3
3080	80	120	1740	150	2175	200	2900	1700	2000	500	800		2500	8,4
3090	90	100	1450	130	2175	175	2537	1500	1800	400	800		2000	8,6
3100	100	100	1450	125	1812	175	2175	1500	1800	400	800		2000	8,8

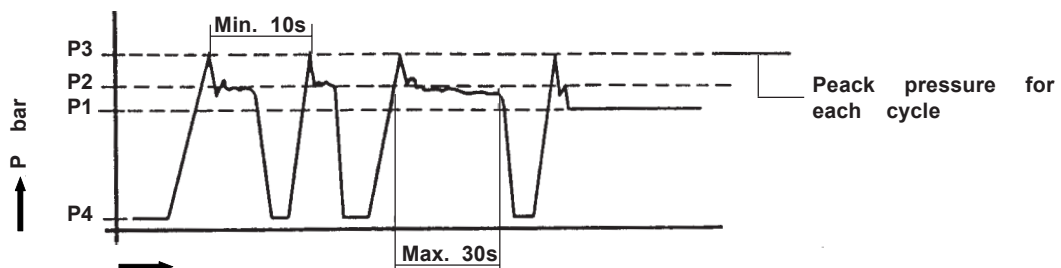
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

home

contents

previous

next

main dimensions

PUBLISHING 02 / 2012

CHOICE of the IMPLANTATION of PORTS

Port connector, see our Catalogue N° 70

	Capacity	INLET					OUTLET					1 way rotation without counter pressure				counter pressure	
		A					B					M5		M6		M3	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
H (HPI)	3025 to 3040	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17	A	B	B	A	B	A
	3050 3060	22	52,4	26,2	M8	17	22	52,4	26,2	M8	17						
	3071 to 3100	34	35,6	69,8	M8	17	34	35,6	69,8	M8	17						
B (Italian)	3025 to 3040	18	40		M8	16	27	51		M10	16	A	B	B	A	B	A
	3050 3060																
	3071 to 3100																
X (without ports)	3025 to 3040	Only with rear body Type A															
	3050 3060																
	3071 to 3100																

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1486 2/4

Consult us for availability

home

contents

[previous](#)

next

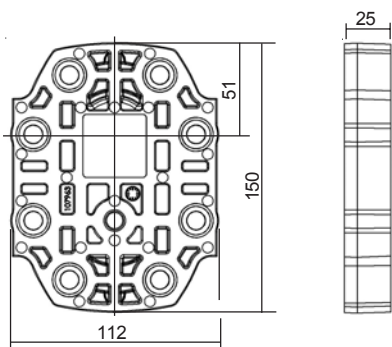
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M1 - M2

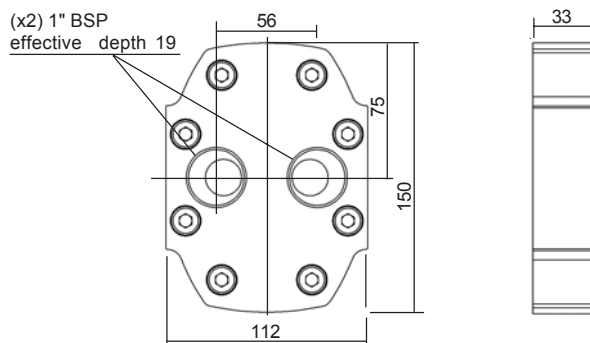
L

Standard



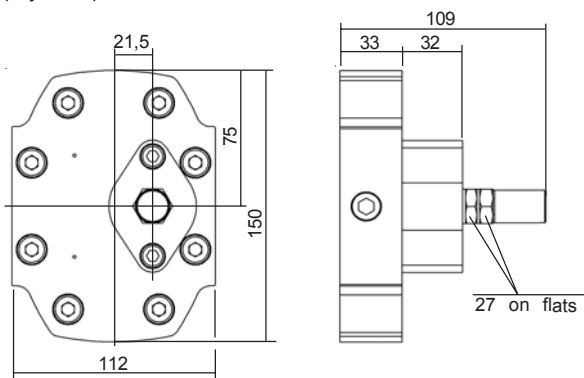
A

with ports



V

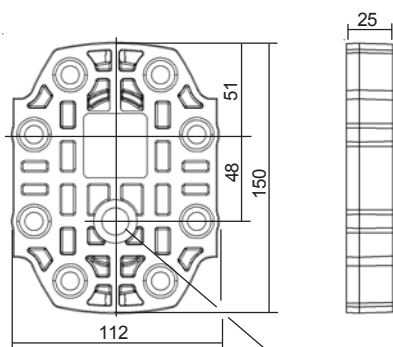
Low pressure relief valve
(Adjustable) Internal return



REAR BODIES for MOTORS M3 - M5 - M6

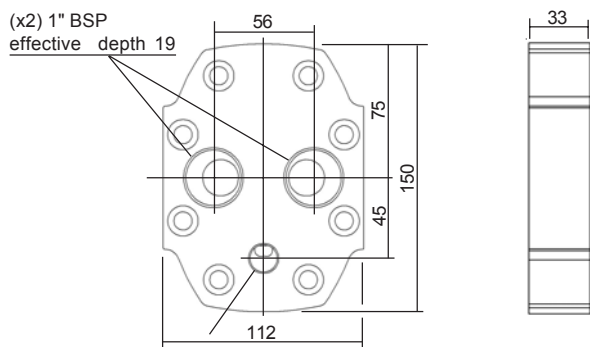
L

Standard



A

with ports



Drain port 3/8" BSP effective depth 18
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Drain port 3/8" BSP effective depth 11
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1486 3/4

DRIVING SHAFTS

Tapered

10

Straight keyed

20

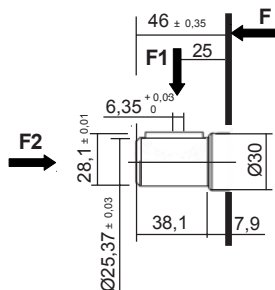
Splined

30

Tang

40

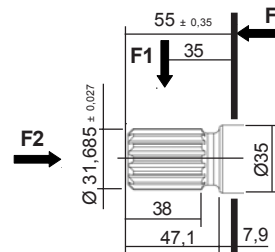
A04 SAE "BB"



F1 = 140 daN
F2 = 50 daN

Maxi transmissible torque
340 N.m

A04

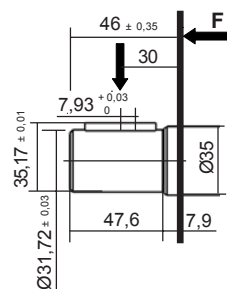


F1 = 120 daN
F2 = 50 daN

Involute spline to SAE "C"
14 teeth - 1" 1/4-
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
500 N.m

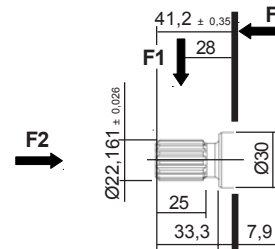
A05 SAE "C"



F1 = 140 daN
F2 = 50 daN

Maxi transmissible torque
430 N.m

A19

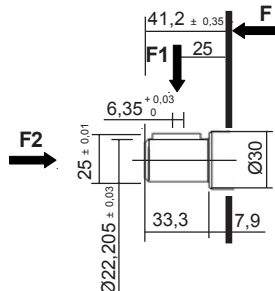


F1 = 120 daN
F2 = 50 daN

Involute spline to SAE "B"
13 teeth - 7/8"
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
310 N.m

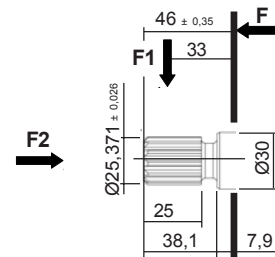
A07 SAE "B"



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

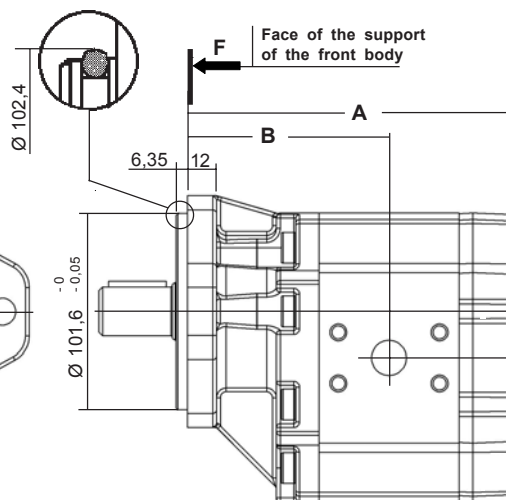
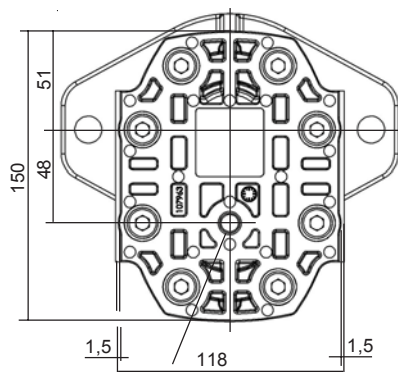
Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1486 4/4

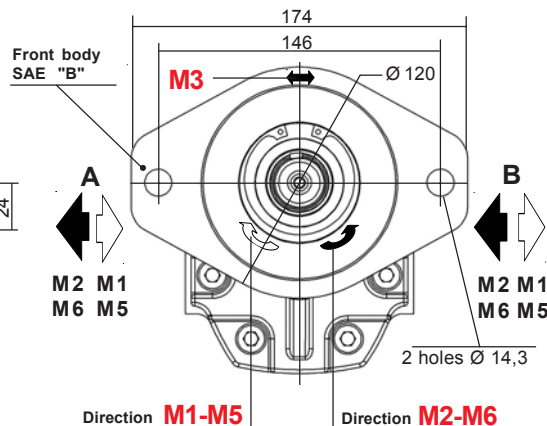
Consult us for availability

M II Sign **AA R 3** VI Sign **H L** IX Sign **X** Sign **XII** Sign

For CODIFICATION, see data sheet **F.T R 0243**



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 3/8" BSP effective depth 18 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
50 N.m

CHOICE of the Capacity

Dimensions

	A	B
025 - 031 - 040	165,7	104,3
050 - 060	192,2	117,5
071 - 080 - 090 - 100	212,2	127,2

Seal kits:

M1 - M2

Nitrile: K5074043 + K103765 + K107081
Viton: K5074044 + K104156 + K107045

(For the manufacturings from october 1991)

M3 - M5/M6

Nitrile: K5071073 + K103765 + K107081
Viton: K5071074 + K104156 + K107045

(For the manufacturings from april 1987)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at $\Delta P \leq 100$ bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
3025	25	200	2900	225	3260	250	3625	2500	2800	800	1000	1300	3500	6,4
3031	31	180	2610	210	3045	225	3625	2300	2600	500	1000	1000 ^{225 bar}	3000	6,4
3040	40	180	2610	210	3045	225	3625	2300	2600	500	800	1000 ^{225 bar}	3000	6,5
3050	50	175	2537	205	2972	225	3625	2200	2500	500	800	1000 ^{225 bar}	3000	7,7
3060	60	160	2320	185	2682	225	3262	2000	2300	500	800	1000 ^{200 bar}	3000	7,8
3071	71	150	2175	175	2537	225	3262	2000	2300	500	800		2500	8,3
3080	80	120	1740	150	2175	200	2900	1700	2000	500	800 ^{175 bar}		2500	8,4
3090	90	100	1450	130	2175	175	2537	1500	1800	400	800 ^{175 bar}		2000	8,6
3100	100	100	1450	125	1812	175	2175	1500	1800	400	800 ^{150 bar}		2000	8,8

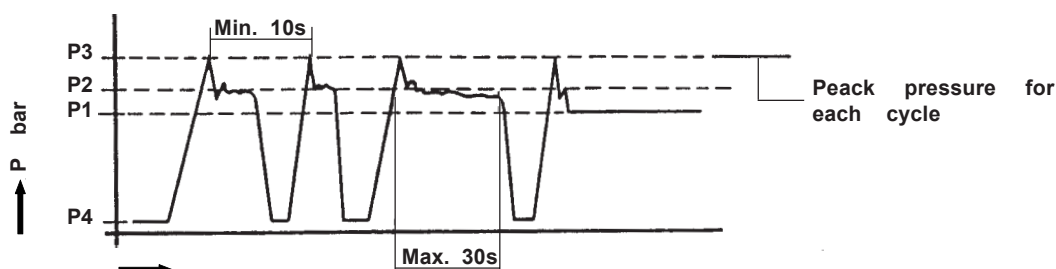
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

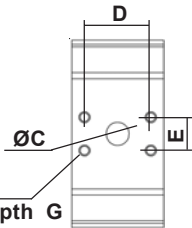
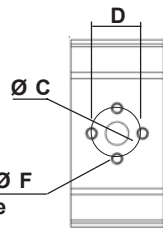
P4 Pressure at Motor outlet $\leq P$ (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATION of PORTS

Port connector, see our Catalogue N° 70

	Capacity	INLET					OUTLET					1 way rotation without counter pressure				counter pressure	
		A					B					M5		M6		M3	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
												INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
H (HPI)	3025 to 3040	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17	A	B	B	A	B	A
	3050 3060	22	52,4	26,2	M8	17	22	52,4	26,2	M8	17						
	3071 to 3100	34	35,6	69,8	M8	17	34	35,6	69,8	M8	17						
B (Italian)	3025 to 3040	18	40		M8	16	27	51		M10	16	A	B	B	A	B	A
	3050 3060																
	3071 to 3100																
X (without ports)	3025 to 3040	Only with rear body Type A															
	3050 3060																
	3071 to 3100																

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1487 2/4

Consult us for availability

home

contents

[previous](#)

next

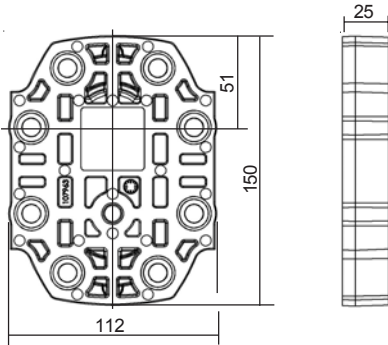
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M1 - M2

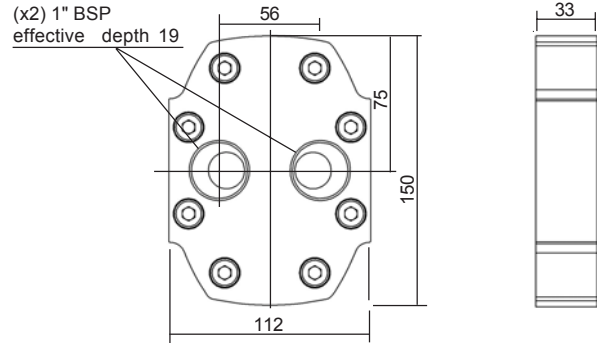
L

Standard



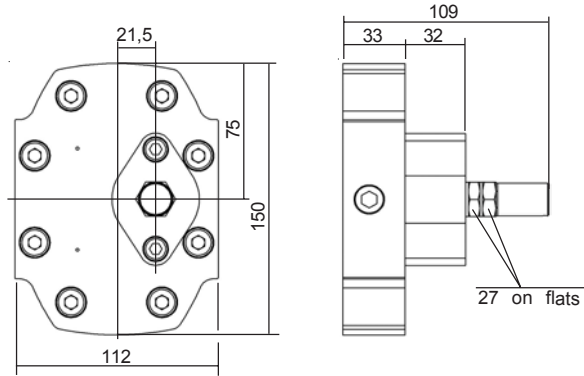
A

with ports



V

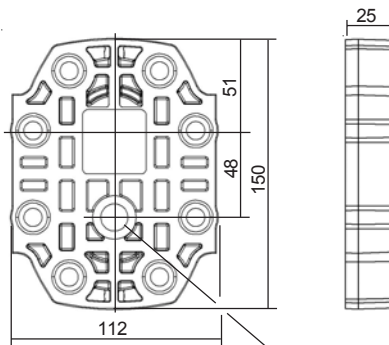
Low pressure relief valve
(Adjustable) Internal return



REAR BODIES for MOTORS M3 - M5 - M6

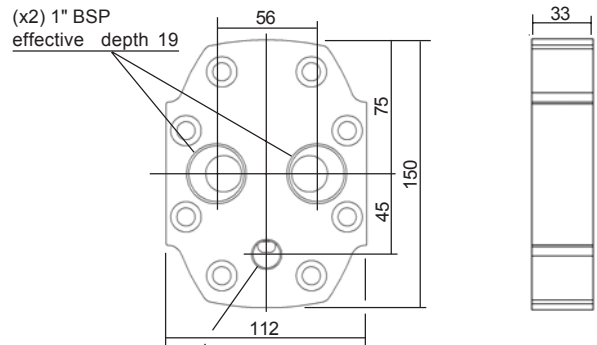
L

Standard



A

with ports



Drain port 3/8" BSP effective depth 18
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Drain port 3/8" BSP effective depth 11
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1487 3/4

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

PUBLISHING 02 / 2012

DRIVING SHAFTS

Tapered

10

Straight keyed

20

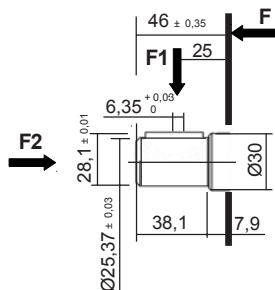
Splined

30

Tang

40

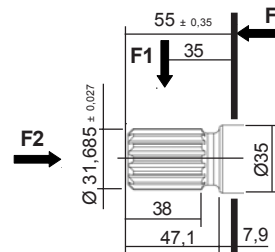
A04 SAE "BB"



F1 = 140 daN
F2 = 50 daN

Maxi transmissible torque
340 N.m

A04

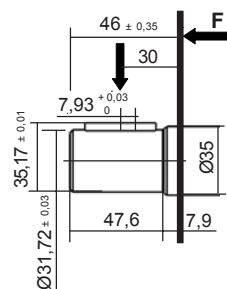


F1 = 120 daN
F2 = 50 daN

Involute spline to SAE "C"
14 teeth - 1" 1/4-
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
500 N.m

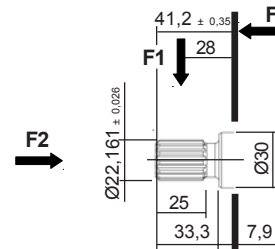
A05 SAE "C"



F1 = 140 daN
F2 = 50 daN

Maxi transmissible torque
430 N.m

A19

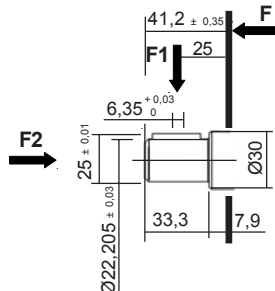


F1 = 120 daN
F2 = 50 daN

Involute spline to SAE "B"
13 teeth - 7/8"
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
310 N.m

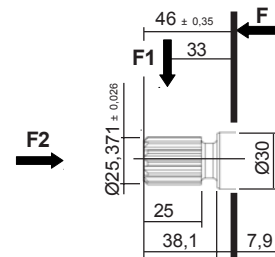
A07 SAE "B"



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

Consult us for availability

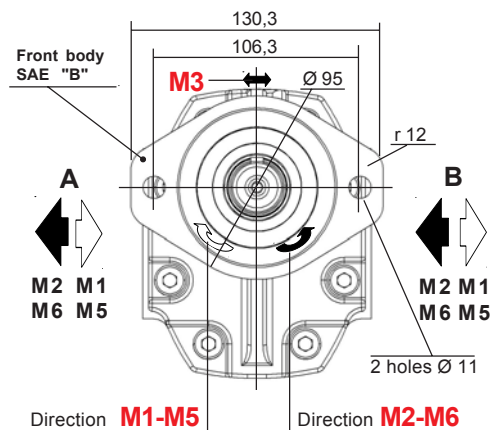
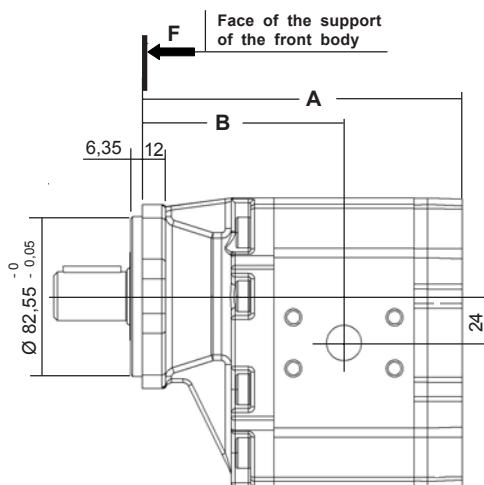
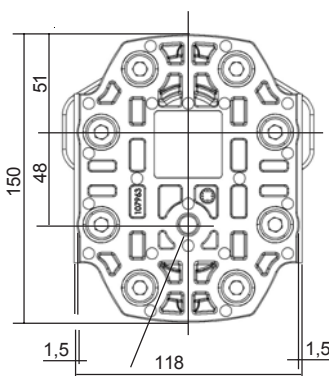
Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1487 4/4



For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 3/8" BSP effective depth 18 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
50 N.m

CHOICE of the Capacity	Dimensions	
	A	B
025 - 031 - 040	165,7	104,3
050 - 060	192,2	117,5
071 - 080 - 090 - 100	212,2	127,2

Seal kits:

M1 - M2

Nitrile: **K5074043 + K103765**

Viton: **K5074044 + K104156**

(For the manufacturings from october 1991)

M3 - M5/M6

Nitrile: **K5071073 + K103765**

Viton: **K5071074 + K104156**

(For the manufacturings from april 1987)

MODEL	Capacity	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx weight Kg
		P1		P2		P3		P1	P2	100 bar	210 bar	300 bar		
	cc / rev	bar	PSI	bar	PSI	bar	PSI	RPM	RPM	1450 PSI	3045 PSI	4350 PSI		
3025	25	200	2900	225	3260	250	3625	2500	2800	800	1000	1300	3500	6,4
3031	31	180	2610	210	3045	225	3625	2300	2600	500	1000	1000 ^{225 bar}	3000	6,4
3040	40	180	2610	210	3045	225	3625	2300	2600	500	800	1000 ^{225 bar}	3000	6,5
3050	50	175	2537	205	2972	225	3625	2200	2500	500	800	1000 ^{225 bar}	3000	7,7
3060	60	160	2320	185	2682	225	3262	2000	2300	500	800	1000 ^{200 bar}	3000	7,8
3071	71	150	2175	175	2537	225	3262	2000	2300	500	800		2500	8,3
3080	80	120	1740	150	2175	200	2900	1700	2000	500	800 ^{175 bar}		2500	8,4
3090	90	100	1450	130	2175	175	2537	1500	1800	400	800 ^{175 bar}		2000	8,6
3100	100	100	1450	125	1812	175	2175	1500	1800	400	800 ^{150 bar}		2000	8,8

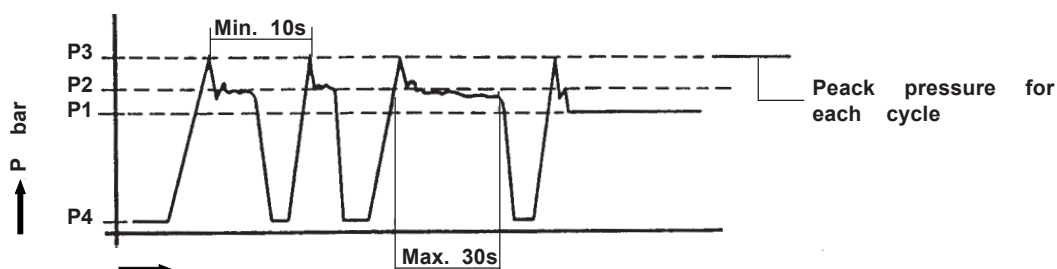
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet ≤ P (Only in M3)

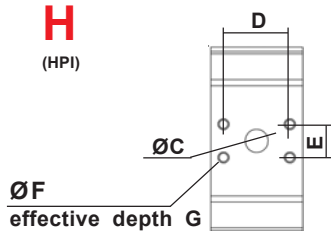


Consult us for availability

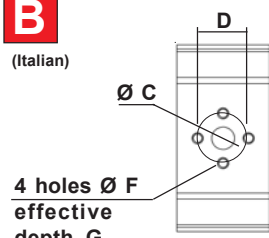
CHOICE of the IMPLANTATION of PORTS

Port connector, see our Catalogue N° 70

H
(HPI)



B
(Italian)



X
(without ports)



Capacity	INLET A					OUTLET B				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3025 to 3040	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3050 3060	22	52,4	26,2	M8	17	22	52,4	26,2	M8	17
3071 to 3100	34	35,6	69,8	M8	17	34	35,6	69,8	M8	17
3025 to 3040	18	40		M8	16	27	51		M10	16
3050 3060										
3071 to 3100										
3025 to 3040	Only with rear body Type A									
3050 3060										
3071 to 3100										

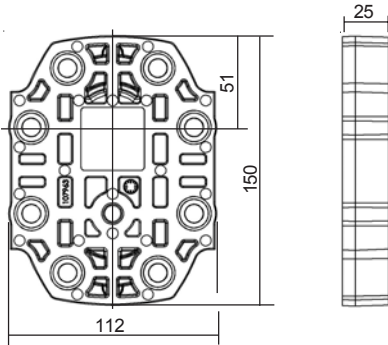
AFFECTATION					
1 way rotation without counter pressure			2 ways rotation with counter pressure		
M1		M2		M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
1 way rotation without counter pressure			M5		
M5		M6		M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
A	B	B	A	B	A
A	B	B	A	B	A
A	B	B	A	B	A

Dimensions readings and approximative characteristics subject to modifications.

REAR BODIES for MOTORS M1 - M2

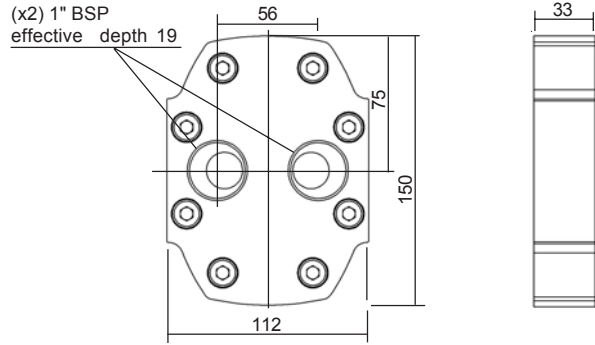
L

Standard



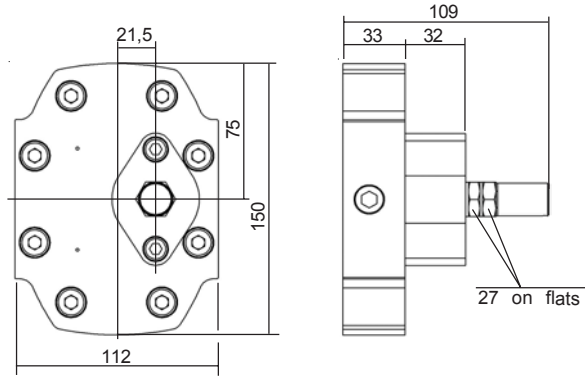
A

with ports



V

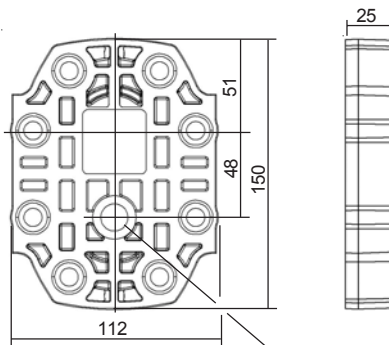
Low pressure relief valve
(Adjustable) Internal return



REAR BODIES for MOTORS M3 - M5 - M6

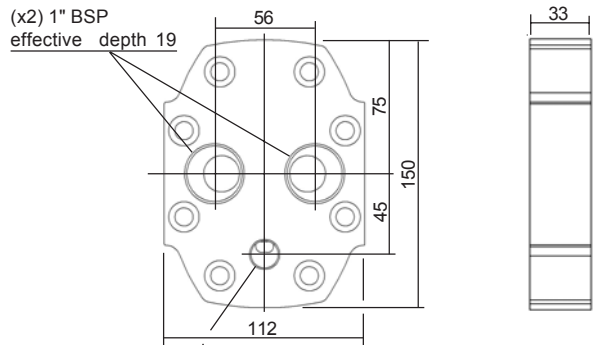
L

Standard



A

with ports



Drain port 3/8" BSP effective depth 18
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Drain port 3/8" BSP effective depth 11
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1488 3/4

Consult us for availability

home

contents

previous

next

main dimensions

PUBLISHING 02 / 2012

360
/ 00

DRIVING SHAFTS

Tapered

10

Straight keyed

20

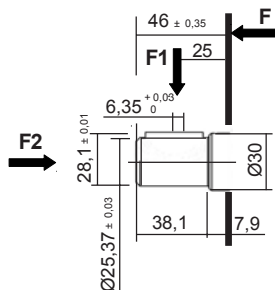
Splined

30

Tang

40

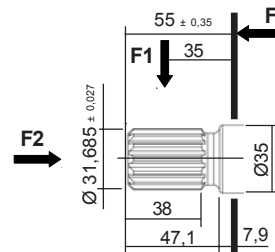
A04 SAE "BB"



F1 = 140 daN
F2 = 50 daN

Maxi transmissible torque
340 N.m

A04

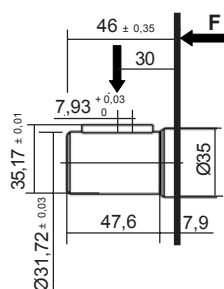


F1 = 120 daN
F2 = 50 daN

Involute spline to SAE "C"
14 teeth - 1" 1/4-
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
500 N.m

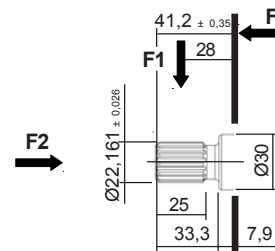
A05 SAE "C"



F1 = 140 daN
F2 = 50 daN

Maxi transmissible torque
430 N.m

A19

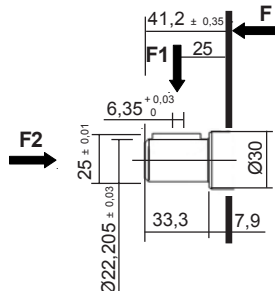


F1 = 120 daN
F2 = 50 daN

Involute spline to SAE "B"
13 teeth - 7/8"
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
310 N.m

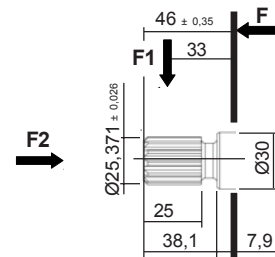
A07 SAE "B"



F1 = 140 daN
F2 = 50 daN

Maxi transmissible torque
290 N.m

A20



F1 = 120 daN
F2 = 50 daN

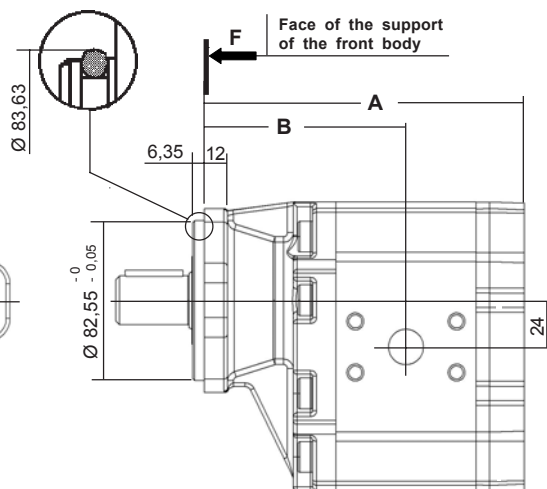
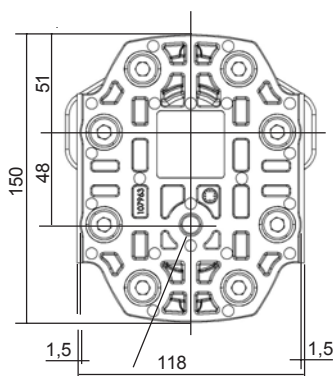
Involute spline to SAE "BB"
15 teeth - 1"
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
490 N.m

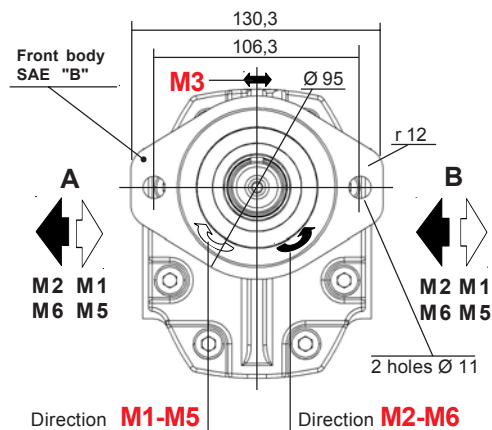
Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1488 4/4



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 3/8" BSP effective depth 18 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
50 N.m

CHOICE of the Capacity

Dimensions

	A	B
025 - 031 - 040	165,7	104,3
050 - 060	192,2	117,5
071 - 080 - 090 - 100	212,2	127,2

Seal kits:

M1 - M2

Nitrile: K5074043 + K103765 + K102901
Viton: K5074044 + K104156 + K104093

(For the manufacturings from october 1991)

M3 - M5/M6

Nitrile: K5071073 + K103765 + K102901
Viton: K5071074 + K104156 + K104093

(For the manufacturings from april 1987)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
3025	25	200	2900	225	3260	250	3625	2500	2800	800	1000	1300	3500	6,4
3031	31	180	2610	210	3045	225	3625	2300	2600	500	1000	1000 ^{225 bar}	3000	6,4
3040	40	180	2610	210	3045	225	3625	2300	2600	500	800	1000 ^{225 bar}	3000	6,5
3050	50	175	2537	205	2972	225	3625	2200	2500	500	800	1000 ^{225 bar}	3000	7,7
3060	60	160	2320	185	2682	225	3262	2000	2300	500	800	1000 ^{200 bar}	3000	7,8
3071	71	150	2175	175	2537	225	3262	2000	2300	500	800		2500	8,3
3080	80	120	1740	150	2175	200	2900	1700	2000	500	800 ^{175 bar}		2500	8,4
3090	90	100	1450	130	2175	175	2537	1500	1800	400	800 ^{175 bar}		2000	8,6
3100	100	100	1450	125	1812	175	2175	1500	1800	400	800 ^{150 bar}		2000	8,8

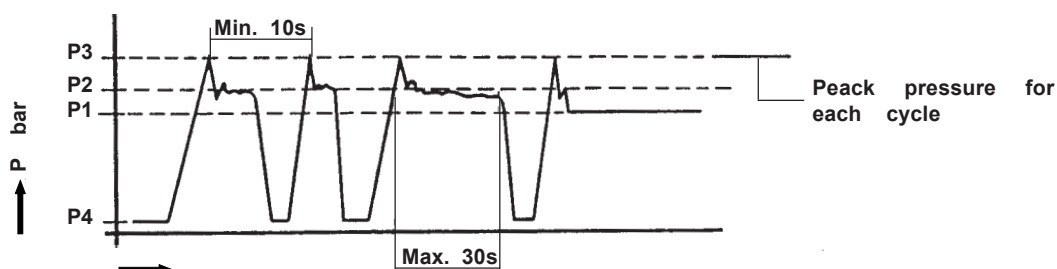
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

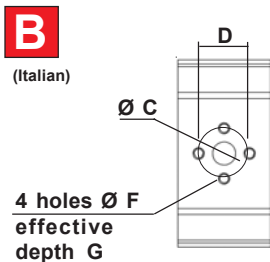
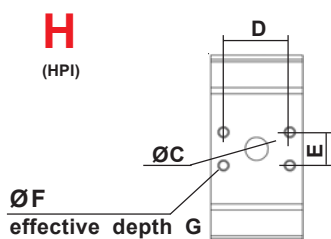
P4 Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATION of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET A					OUTLET B				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3025 to 3040	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3050 3060	22	52,4	26,2	M8	17	22	52,4	26,2	M8	17
3071 to 3100	34	35,6	69,8	M8	17	34	35,6	69,8	M8	17
3025 to 3040	18	40		M8	16	27	51		M10	16
3050 3060										
3071 to 3100										
3025 to 3040	Only with rear body Type A									
3050 3060										
3071 to 3100										

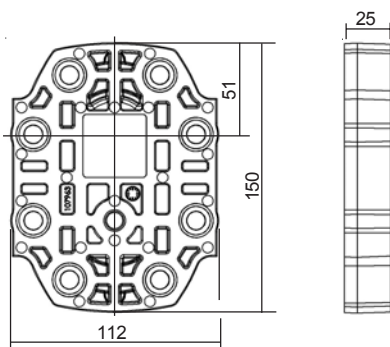
AFFECTATION					
1 way rotation without counter pressure			2 ways rotation with counter pressure		
M1		M2		M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
1 way rotation without counter pressure			M6		
M5		M6		M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
A	B	B	A	B	A
A	B	B	A	B	A

Dimensions readings and approximative characteristics subject to modifications.

REAR BODIES for MOTORS M1 - M2

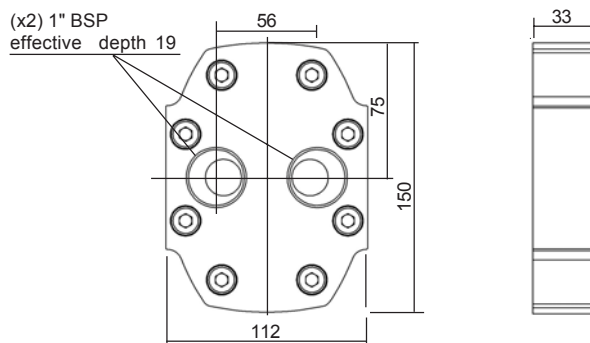
L

Standard



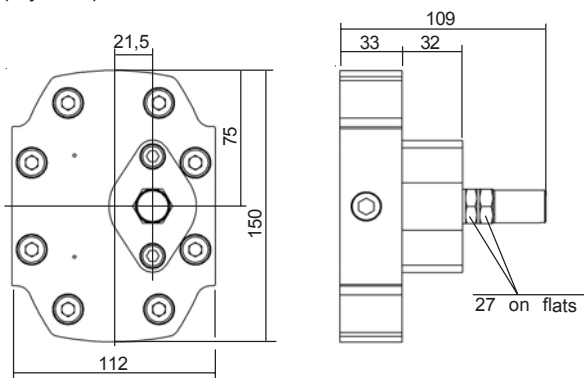
A

with ports



V

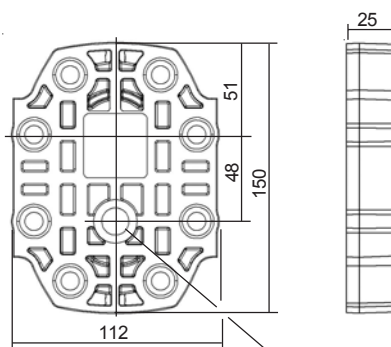
Low pressure relief valve
(Adjustable) Internal return



REAR BODIES for MOTORS M3 - M5 - M6

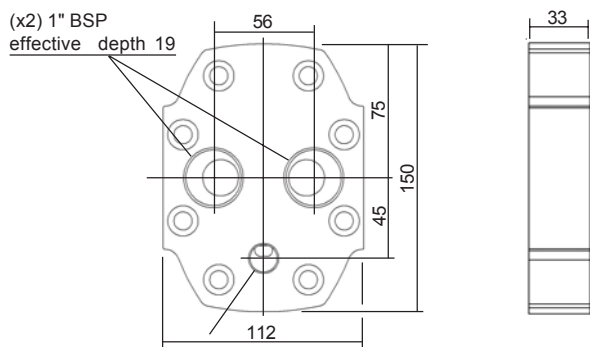
L

Standard



A

with ports



Drain port 3/8" BSP effective depth 18
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Drain port 3/8" BSP effective depth 11
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1489 3/4

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

PUBLISHING 02 / 2012

DRIVING SHAFTS

Tapered

10

Straight keyed

20

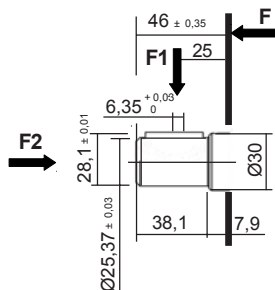
Splined

30

Tang

40

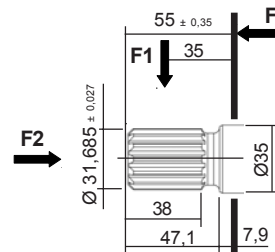
A04 SAE "BB"



F1 = 140 daN
F2 = 50 daN

Maxi transmissible torque
340 N.m

A04

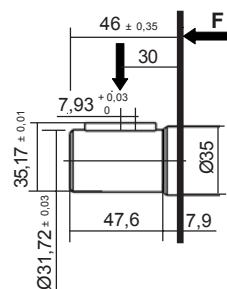


F1 = 120 daN
F2 = 50 daN

Involute spline to SAE "C"
14 teeth - 1" 1/4-
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
500 N.m

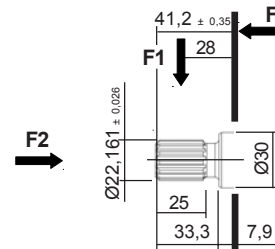
A05 SAE "C"



F1 = 140 daN
F2 = 50 daN

Maxi transmissible torque
430 N.m

A19

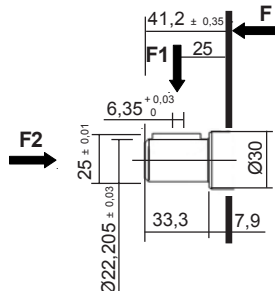


F1 = 120 daN
F2 = 50 daN

Involute spline to SAE "B"
13 teeth - 7/8"
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
310 N.m

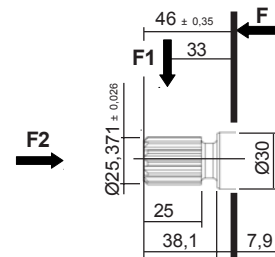
A07 SAE "B"



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

Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

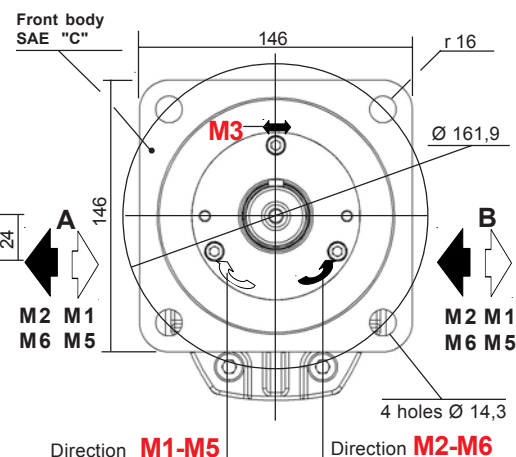
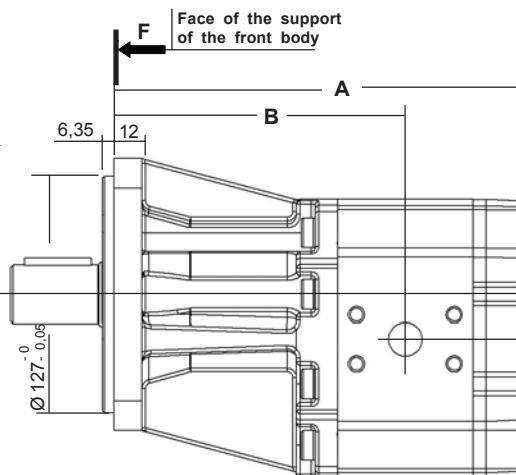
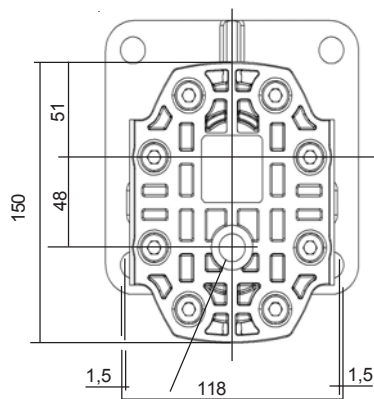
F.T 30 1489 4/4



M II Sign **AD F 3** VI Sign **H L 2 0 A05** XII Sign

For CODIFICATION, see data sheet **F.T R 0243**

PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 3/8" BSP effective depth 18 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
50 N.m

CHOICE of the Capacity

Dimensions

	A	B
025 - 031 - 040	217,7	156,3
050 - 060	244,2	169,5
071 - 080 - 090 - 100	264,2	179,2

Seal kits:

M1 - M2

Nitrile: **K5074043 + K101419**
Viton: **K5074044 + K101508**

(For the manufacturings from october 1991)

M3 - M5/M6

Nitrile: **K5071073 + K101419**
Viton: **K5071074 + K101508**

(For the manufacturings from april 1987)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
3025	25	200	2900	225	3260	250	3625	2500	2800	800	1000	1300	3500	6,4
3031	31	180	2610	210	3045	225	3625	2300	2600	500	1000	1000 ^{225 bar}	3000	6,4
3040	40	180	2610	210	3045	225	3625	2300	2600	500	800	1000 ^{225 bar}	3000	6,5
3050	50	175	2537	205	2972	225	3625	2200	2500	500	800	1000 ^{225 bar}	3000	7,7
3060	60	160	2320	185	2682	225	3262	2000	2300	500	800	1000 ^{200 bar}	3000	7,8
3071	71	150	2175	175	2537	225	3262	2000	2300	500	800		2500	8,3
3080	80	120	1740	150	2175	200	2900	1700	2000	500	800 ^{175 bar}		2500	8,4
3090	90	100	1450	130	2175	175	2537	1500	1800	400	800 ^{175 bar}		2000	8,6
3100	100	100	1450	125	1812	175	2175	1500	1800	400	800 ^{150 bar}		2000	8,8

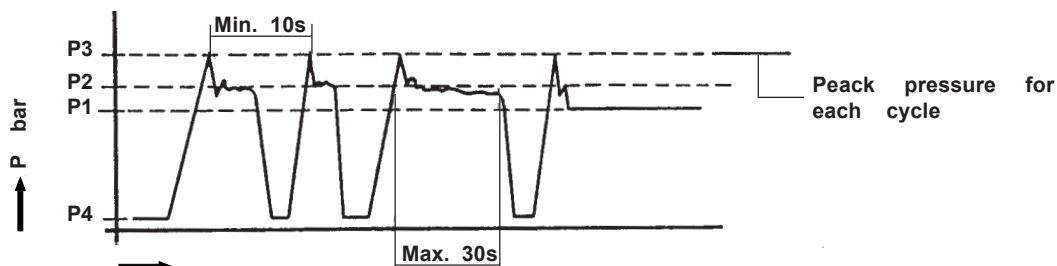
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

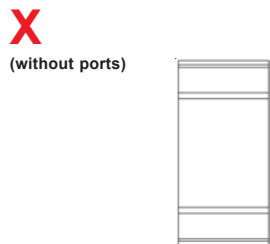
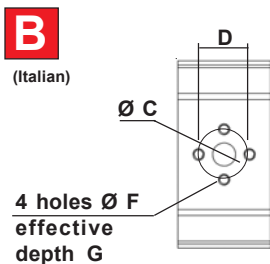
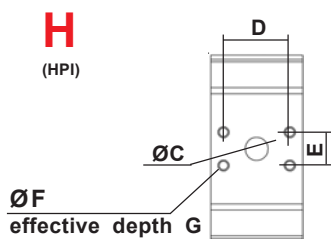
P4 Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATION of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET A					OUTLET B				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3025 to 3040	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3050 3060	22	52,4	26,2	M8	17	22	52,4	26,2	M8	17
3071 to 3100	34	35,6	69,8	M8	17	34	35,6	69,8	M8	17
3025 to 3040	18	40		M8	16	27	51		M10	16
3050 3060										
3071 to 3100										
3025 to 3040	Only with rear body Type A									
3050 3060										
3071 to 3100										

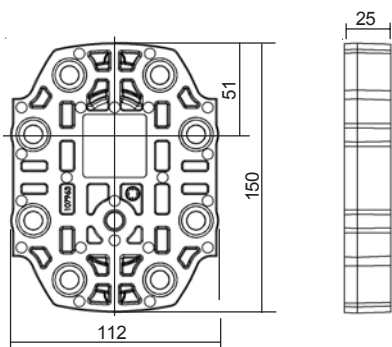
AFFECTATION					
1 way rotation without counter pressure			2 ways rotation with counter pressure		
M1		M2		M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
1 way rotation without counter pressure			M5		
M5		M6		M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
A	B	B	A	B	A
A	B	B	A	B	A

Dimensions readings and approximative characteristics subject to modifications.

REAR BODIES for MOTORS M1 - M2

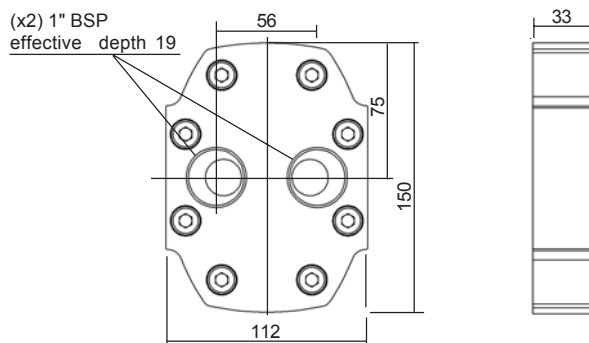
L

Standard



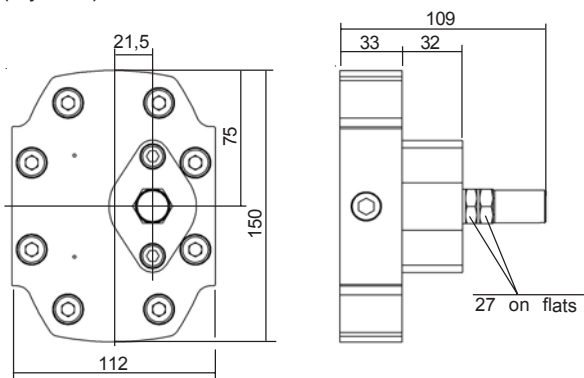
A

with ports



V

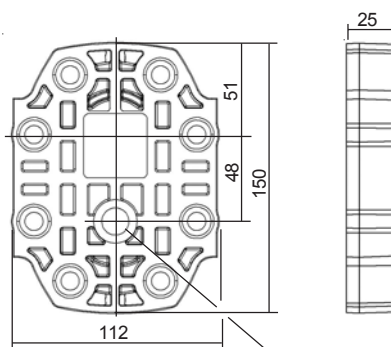
Low pressure relief valve
(Adjustable) Internal return



REAR BODIES for MOTORS M3 - M5 - M6

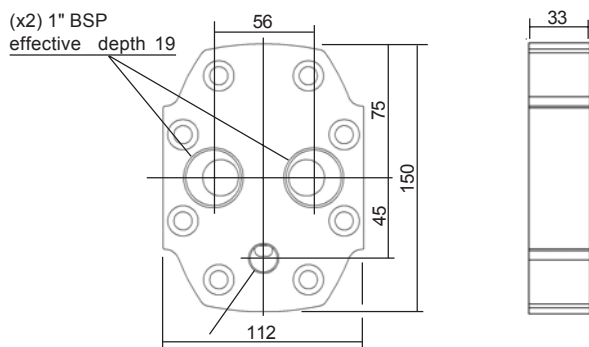
L

Standard



A

with ports



Drain port 3/8" BSP effective depth 18
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Drain port 3/8" BSP effective depth 11
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1490 3/4

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

[main dimensions](#)

PUBLISHING 02 / 2012

DRIVING SHAFTS

Tapered

10

Straight keyed

20

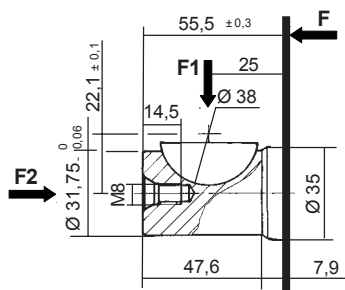
Splined

30

Tang

40

A05



F1 Maxi : 320 daN

F2 Maxi : 160 daN

Maxi transmissible torque

430 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1490 4/4

Consult us for availability

[home](#)

[contents](#)

[previous](#)

[next](#)

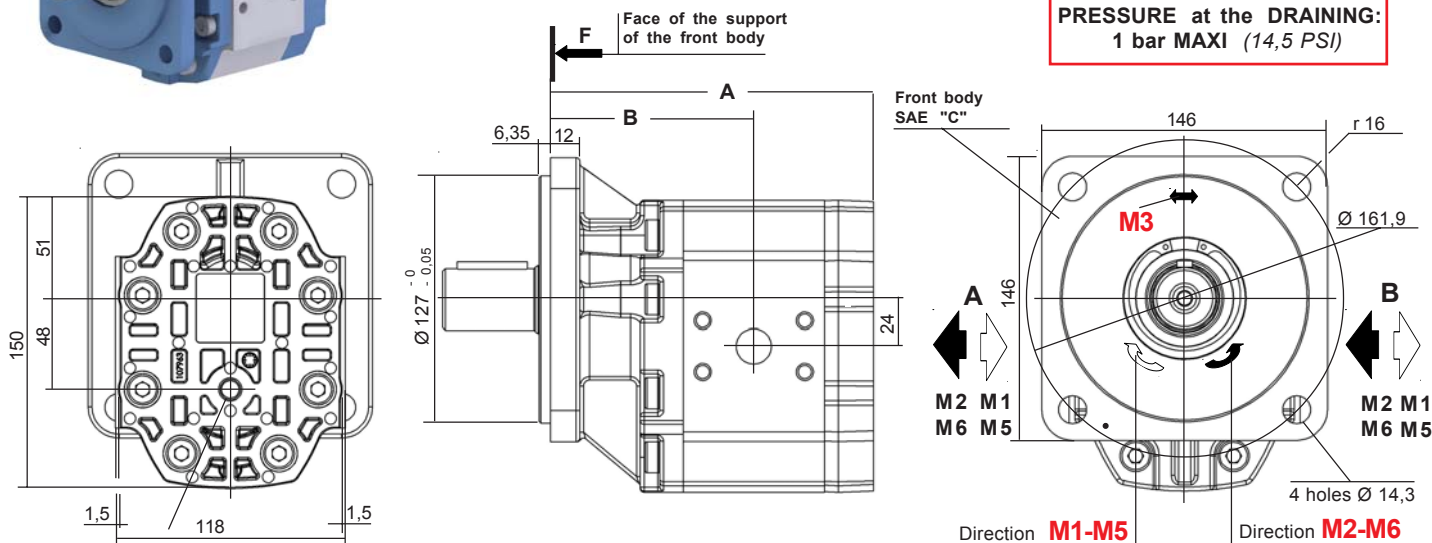
[main dimensions](#)

PUBLISHING 02 / 2012



M 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 0243**



Drain port 3/8" BSP effective depth 18 for bi directional (**M3**) or single directional motor (**M5/M6**) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
50 N.m

CHOICE of the Capacity	Dimensions	
	A	B
025 - 031 - 040	165,7	104,3
050 - 060	192,2	117,5
071 - 080 - 090 - 100	212,2	127,2

Seal kits:

M1 - M2

Nitrile: **K5074043 + K103765**

Viton: **K5074044 + K104156**

(For the manufacturings from october 1991)

M3 - M5/M6

Nitrile: **K5071073 + K103765**

Viton: **K5071074 + K104156**

(For the manufacturings from april 1987)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
3025	25	200	2900	225	3260	250	3625	2500	2800	800	1000	1300	3500	6,4
3031	31	180	2610	210	3045	225	3625	2300	2600	500	1000	1000 ^{225 bar}	3000	6,4
3040	40	180	2610	210	3045	225	3625	2300	2600	500	800	1000 ^{225 bar}	3000	6,5
3050	50	175	2537	205	2972	225	3625	2200	2500	500	800	1000 ^{225 bar}	3000	7,7
3060	60	160	2320	185	2682	225	3262	2000	2300	500	800	1000 ^{200 bar}	3000	7,8
3071	71	150	2175	175	2537	225	3262	2000	2300	500	800		2500	8,3
3080	80	120	1740	150	2175	200	2900	1700	2000	500	800 ^{175 bar}		2500	8,4
3090	90	100	1450	130	2175	175	2537	1500	1800	400	800 ^{175 bar}		2000	8,6
3100	100	100	1450	125	1812	175	2175	1500	1800	400	800 ^{150 bar}		2000	8,8

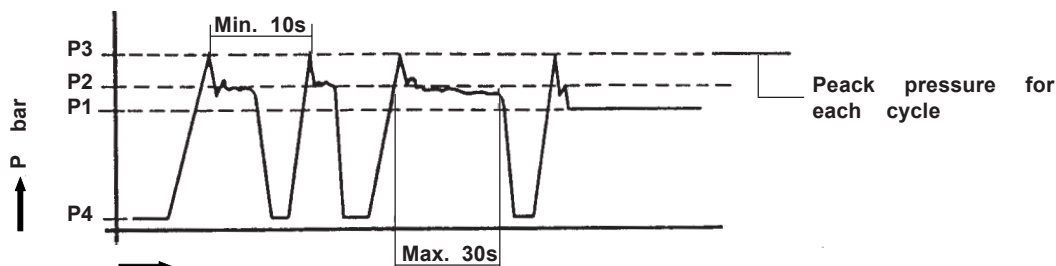
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

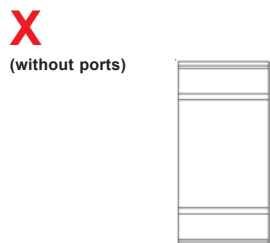
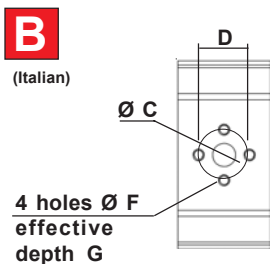
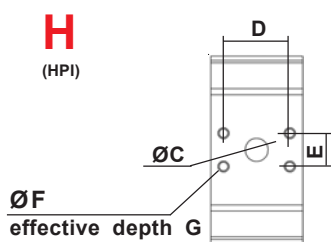
P4 Pressure at Motor outlet ≤ P (Only in M3)



Consult us for availability

CHOICE of the IMPLANTATION of PORTS

Port connector, see our Catalogue N° 70



Capacity	INLET					OUTLET				
	A					B				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
3025 to 3040	18	52,4	26,2	M8	17	18	52,4	26,2	M8	17
3050 3060	22	52,4	26,2	M8	17	22	52,4	26,2	M8	17
3071 to 3100	34	35,6	69,8	M8	17	34	35,6	69,8	M8	17
3025 to 3040	18	40		M8	16	27	51		M10	16
3050 3060										
3071 to 3100										
3025 to 3040	Only with rear body Type A									
3050 3060										
3071 to 3100										

AFFECTATION					
1 way rotation without counter pressure				2 ways rotation with counter pressure	
M1		M2		M3	
INLET	OUTLET	INLET	OUTLET		
1 way rotation without counter pressure					
M5		M6			
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
A	B	B	A	B	A
A	B	B	A	B	A

Dimensions readings and approximative characteristics subject to modifications.

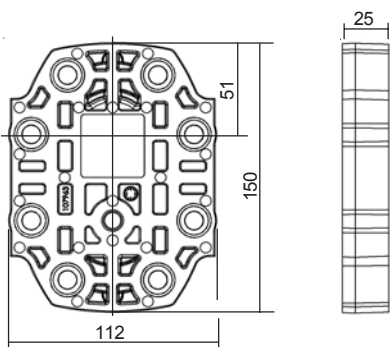


Consult us for availability

REAR BODIES for MOTORS M1 - M2

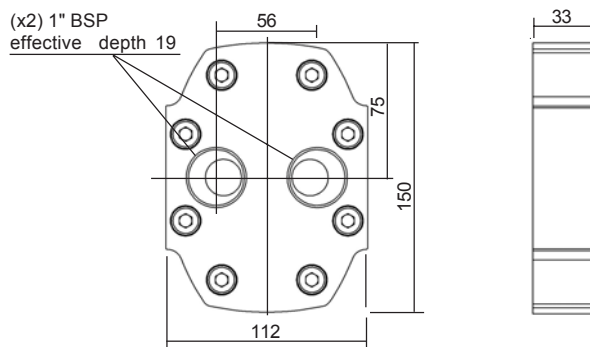
L

Standard



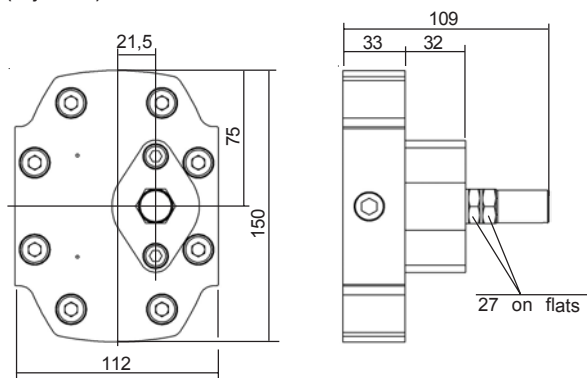
A

with ports



V

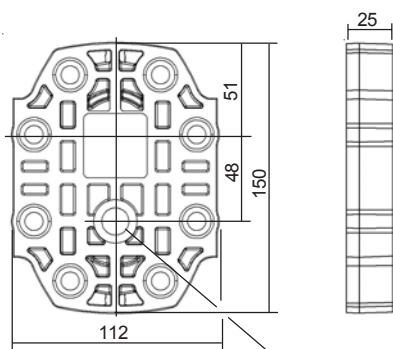
Low pressure relief valve
(Adjustable) Internal return



REAR BODIES for MOTORS M3 - M5 - M6

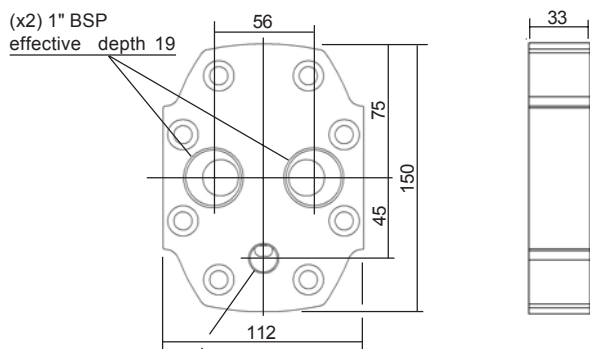
L

Standard



A

with ports



Drain port 3/8" BSP effective depth 18
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Drain port 3/8" BSP effective depth 11
for bi directional (**M3**) or single directional
motor (**M5/M6**) but working with a counter
pressure in the return port.

Max. tightening torque of the connexion
50 N.m

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1491 3/4

DRIVING SHAFTS

Tapered

10

Straight keyed

20

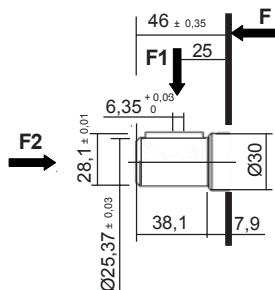
Splined

30

Tang

40

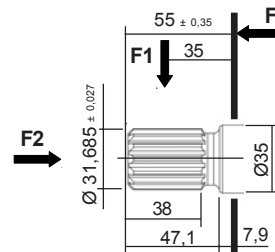
A04 SAE "BB"



F1 = 140 daN
F2 = 50 daN

Maxi transmissible torque
340 N.m

A04

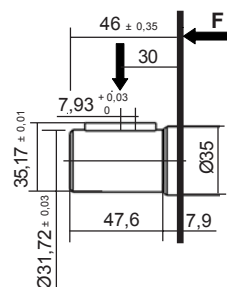


F1 = 120 daN
F2 = 50 daN

Involute spline to SAE "C"
14 teeth - 1" 1/4-
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
500 N.m

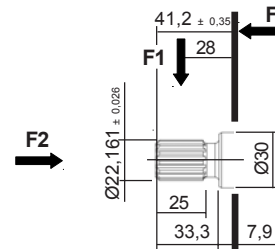
A05 SAE "C"



F1 = 140 daN
F2 = 50 daN

Maxi transmissible torque
430 N.m

A19

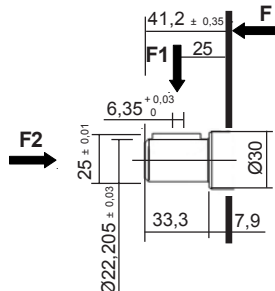


F1 = 120 daN
F2 = 50 daN

Involute spline to SAE "B"
13 teeth - 7/8"
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
310 N.m

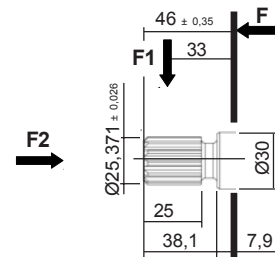
A07 SAE "B"



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

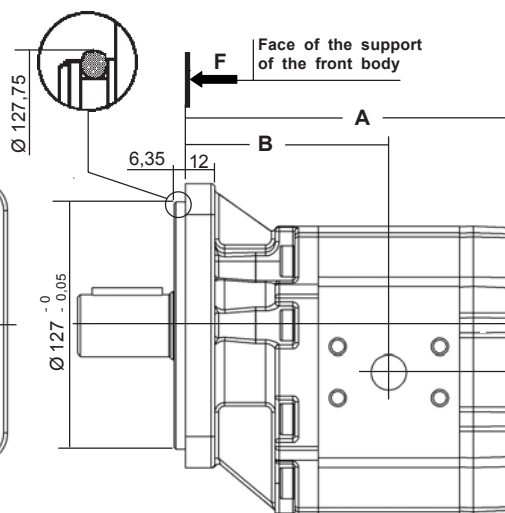
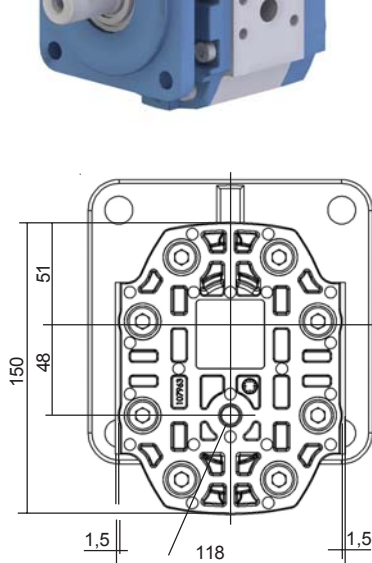
Consult us for availability

Dimensions readings and approximative characteristics subject to modifications.

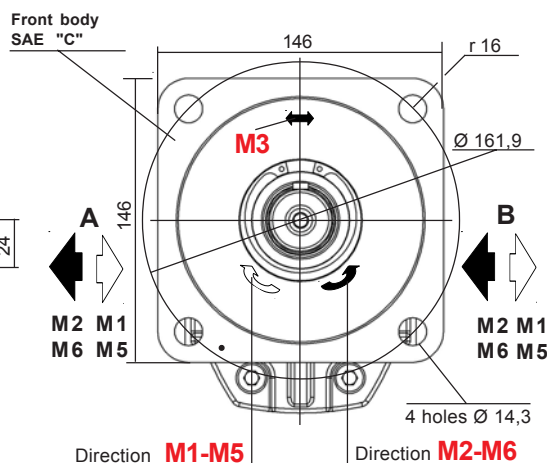
F.T 30 1491 4/4



For CODIFICATION, see data sheet **F.T R 0243**



PRESSURE at the DRAINING:
1 bar MAXI (14,5 PSI)



Drain port 3/8" BSP effective depth 18 for bi directional (M3) or single directional motor (M5/M6) but working with a counter pressure in the return port.

Max. tightening torque of the connexion
50 N.m

CHOICE of the Capacity	Dimensions	
	A	B
025 - 031 - 040	165,7	104,3
050 - 060	192,2	117,5
071 - 080 - 090 - 100	212,2	127,2

Seal kits:

M1 - M2

Nitrile: K5074043 + K103765 + K107089

Viton: K5074044 + K104156 + K107090

(For the manufacturings from october 1991)

M3 - M5/M6

Nitrile: K5071073 + K103765 + K107089

Viton: K5071074 + K104156 + K107090

(For the manufacturings from april 1987)

MODEL	Capacity cc / rev	MAXI PRESSURE						Maxi speed at		mini speed at RPM			Maxi speed at Δ P ≤ 100 bar (1450 PSI)	approx. weight Kg
		P1		P2		P3		P1 RPM	P2 RPM	100 bar	210 bar	300 bar		
		bar	PSI	bar	PSI	bar	PSI			1450 PSI	3045 PSI	4350 PSI		
3025	25	200	2900	225	3260	250	3625	2500	2800	800	1000	1300	3500	6,4
3031	31	180	2610	210	3045	225	3625	2300	2600	500	1000	1000 ^{225 bar}	3000	6,4
3040	40	180	2610	210	3045	225	3625	2300	2600	500	800	1000 ^{225 bar}	3000	6,5
3050	50	175	2537	205	2972	225	3625	2200	2500	500	800	1000 ^{225 bar}	3000	7,7
3060	60	160	2320	185	2682	225	3262	2000	2300	500	800	1000 ^{200 bar}	3000	7,8
3071	71	150	2175	175	2537	225	3262	2000	2300	500	800		2500	8,3
3080	80	120	1740	150	2175	200	2900	1700	2000	500	800 ^{175 bar}		2500	8,4
3090	90	100	1450	130	2175	175	2537	1500	1800	400	800 ^{175 bar}		2000	8,6
3100	100	100	1450	125	1812	175	2175	1500	1800	400	800 ^{150 bar}		2000	8,8

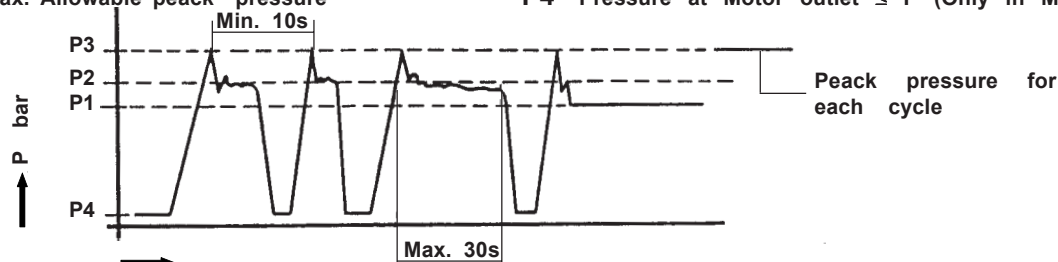
On the hereunder indicated diagram, the maximum duty pressure are the following.

P1 Maximum pressure in continuous duty

P2 Maximum pressure in intermittent duty

P3 Max. Allowable peak pressure

P4 Pressure at Motor outlet ≤ P (Only in M3)

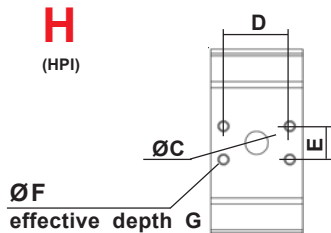


Consult us for availability

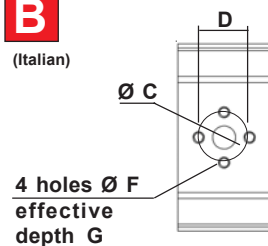
CHOICE of the IMPLANTATION of PORTS

Port connector, see our Catalogue N° 70

H
(HPI)



B
(Italian)



X
(without ports)



Capacity	INLET A					OUTLET B				
	ØC	D	E	ØF	G	ØC	D	E	ØF	G
3025 to 3040	18	52,4	26,2	M 8	17	18	52,4	26,2	M 8	17
3050 3060	22	52,4	26,2	M 8	17	22	52,4	26,2	M 8	17
3071 to 3100	34	35,6	69,8	M 8	17	34	35,6	69,8	M 8	17
3025 to 3040	18	40		M 8	16	27	51		M 10	16
3050 3060										
3071 to 3100										
3025 to 3040	Only with rear body Type A									
3050 3060										
3071 to 3100										

AFFECTATION					
1 way rotation without counter pressure				2 ways rotation with counter pressure	
M1		M2		M3	
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
1 way rotation without counter pressure					
M5		M6			
INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
A	B	B	A	B	A
A	B	B	A	B	A

Dimensions readings and approximative characteristics subject to modifications.

F.T 30 1492 2/4

Consult us for availability

home

contents

[previous](#)

next

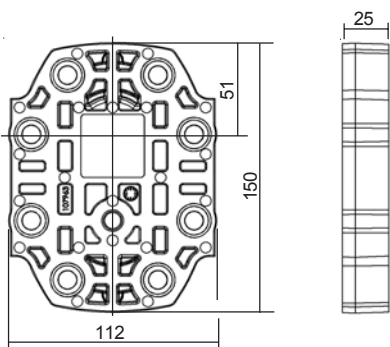
main dimensions

PUBLISHING 02 / 2012

REAR BODIES for MOTORS M1 - M2

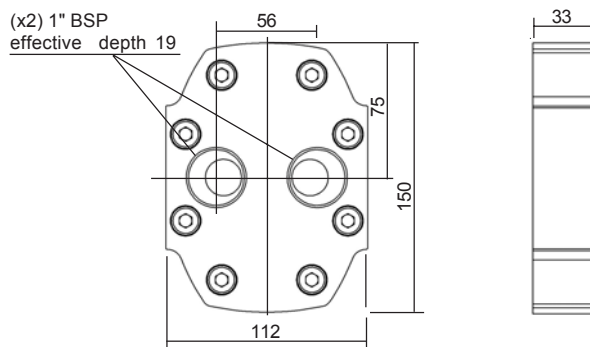
L

Standard



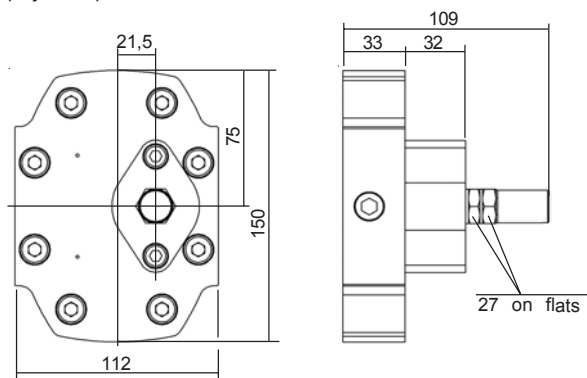
A

with ports



V

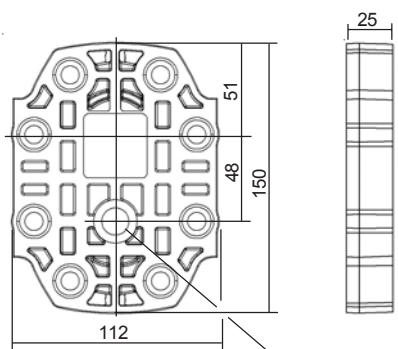
Low pressure relief valve
(Adjustable) Internal return



REAR BODIES for MOTORS M3 - M5 - M6

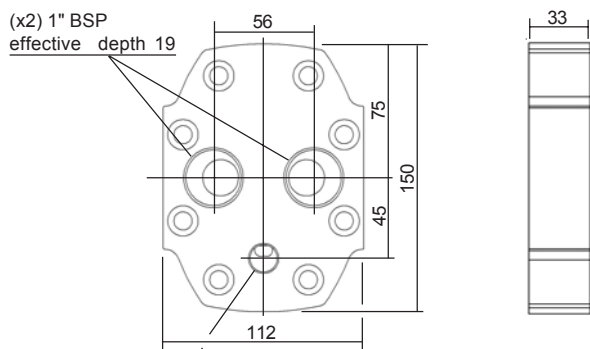
L

Standard



A

with ports



Drain port 3/8" BSP effective depth 18
for bi directional (**M3**) or single directional
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Max. tightening torque of the connexion
50 N.m

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F.T 30 1492 3/4

Consult us for availability

home

contents

previous

next

main dimensions

PUBLISHING 02 / 2012

376
/ 00

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Tapered

10

Straight keyed

20

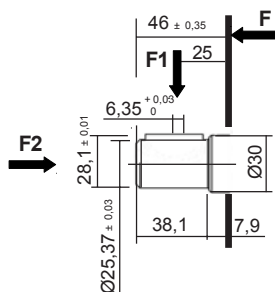
Splined

30

Tang

40

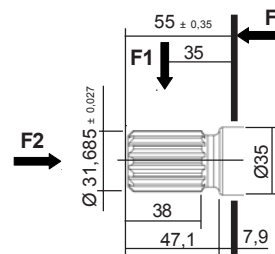
A04 SAE "BB"



F1 = 140 daN
F2 = 50 daN

Maxi transmissible torque
340 N.m

A04

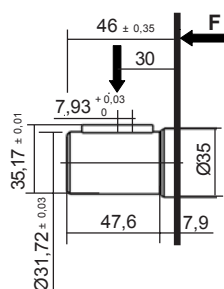


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14 teeth - 1" 1/4-
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
500 N.m

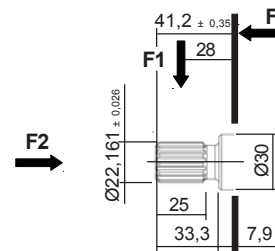
A05 SAE "C"



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F2 = 50 daN

Maxi transmissible torque
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A19

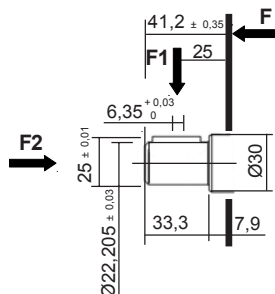


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Involute spline to SAE "B"
13 teeth - 7/8"
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
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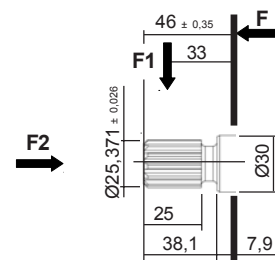
A07 SAE "B"



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 1492 4/4



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