



PUMPS CATALOGUE



Pumps Series 0



Pumps Series 1



Pumps Series 2



Pumps Series 2,5



Pumps Series 2 Special



Pumps Series 2,6



Pumps Series 3



Pumps Module 3



PUMPS CATALOGUE

Characteristics and Codifications



Hydraulic gear pumps
Series 0 Flat front body



Hydraulic gear pumps
Series 1 Flat front body



Hydraulic gear pumps
Series 2 Flat front body



Hydraulic gear pumps
Series 2 Thick front body



Hydraulic gear pumps
Series 2,5 Flat front body



Hydraulic gear pumps
Series 2,5 Thick front body



Hydraulic gear pumps
"Spécial" Series



Consult us for availability

JTEKT
HPI

Hydraulic gear pumps
Series 2,6 Flat front body



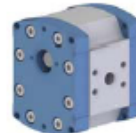
Hydraulic gear pumps
Series 3 Flat front body



Hydraulic gear pumps
Series 3 Thick front body



Hydraulic gear pumps
"Module 3"



Hydraulic gear pumps
Series 5 Flat front body



Hydraulic gear pumps
Series 5 Thick front body




Hydraulic gear pumps
Series 4 Flat front body



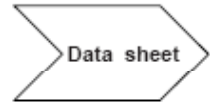
Hydraulic gear pumps
Series 4 Thick front body



 Consult us for availability

Characteristics and Codifications

Recommendations for installing and maintenance Pumps



F.T R 0152

Oil recommendations



F.T R 0003

Recommendation concerning the drive type of Pumps



F.T R 0009

Codification of single pumps



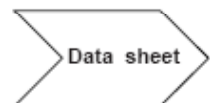
F.T R 0011

Codification of multiple pumps



F.T R 0030

Pumps Characteristics



F.T R 0005

Different mounting possibilities between multiple Pumps



F.T R 0029

RECOMMENDATIONS

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

1- Mounting

On a rigid support, fixed to the driving motor, make sure of the perfect concentricity of the pump centering with the driving shaft (5/100 maximum, when reading), according to the series. Pump can be placed in whatever position.

2- Driving

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

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

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

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

3- Pipes

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

All 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 teme plate or fitted with an hydrocarbon-resistant inside painting.

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

It must be dustproof.

The shape must be simple, either parallelepipedal or cylindrical.

Level control (tightness of connections)

One of the maintenance factors is watching the tank level.

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

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

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

5- Oil filtration

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

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

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

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

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

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

6- Air filtration

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

The air filter must have a 5 μ filtration efficiency.

All othe parts of the tank must be airproo .

7- Pump Protection

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

Several kinds can be employed:

- manually operated.
- differential.
- piloted.

Whatever the type, the following is required:

- quick opening.
- low opening range (lower than 20 bar)
- low closing range (lower than 10 bar)
- It must be pulsationfree.
- Make sure of the flow capacity of the pressure relief valve according to th 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 pump . In this case, inform our Technical Department who will give you useful advices, among others Viton seals for temperatures between 70 and 130 °C will be recommended (example . hydraulic pump in contact with the carter of a diesel motor that can work under temperatures of 120 °C).

10- Oil aging

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

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

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

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

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

11- Additional information

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

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-oxidation 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 speeds).

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

OILS TYPE HFAE, HFAS, 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.

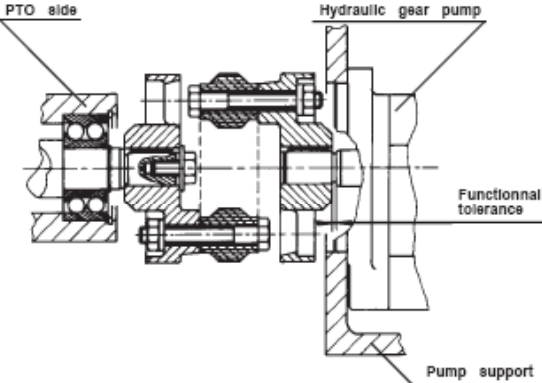
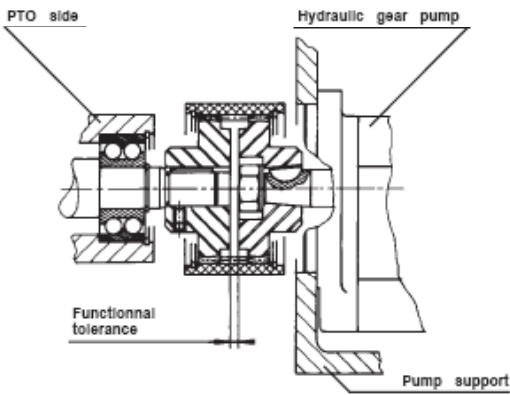
As the JTEKT-HPI hydraulic pumps are designed with shafts on bush bearings, it is necessary to avoid any axial or radial load and, in order to obtain the best performances and a longer life time, to pay some keen attention to the transmission driving type.

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

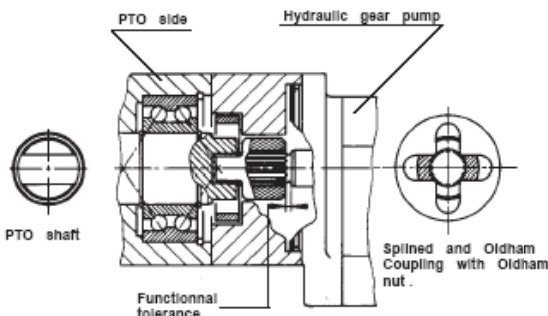
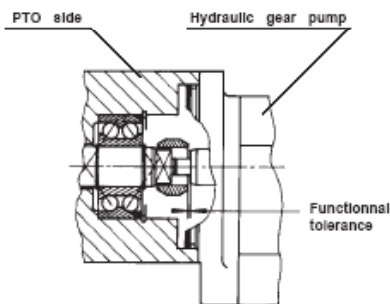
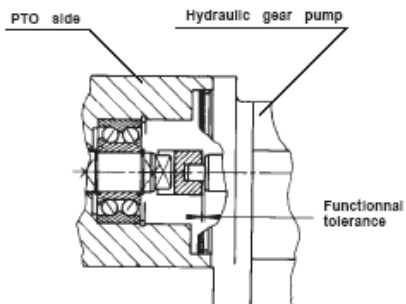
Recommended couplings :
F.T R 0009 1/3 2/3

Conditionnally recommended couplings :
F.T R 0009 2/3 3/3

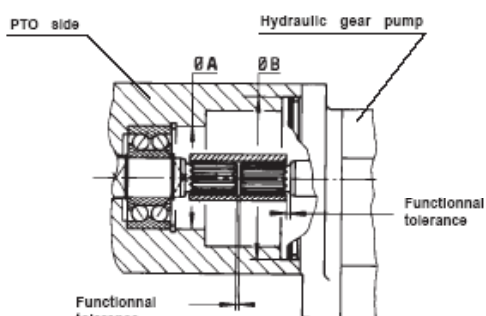
Proscribed couplings :
F.T R 0009 3/3

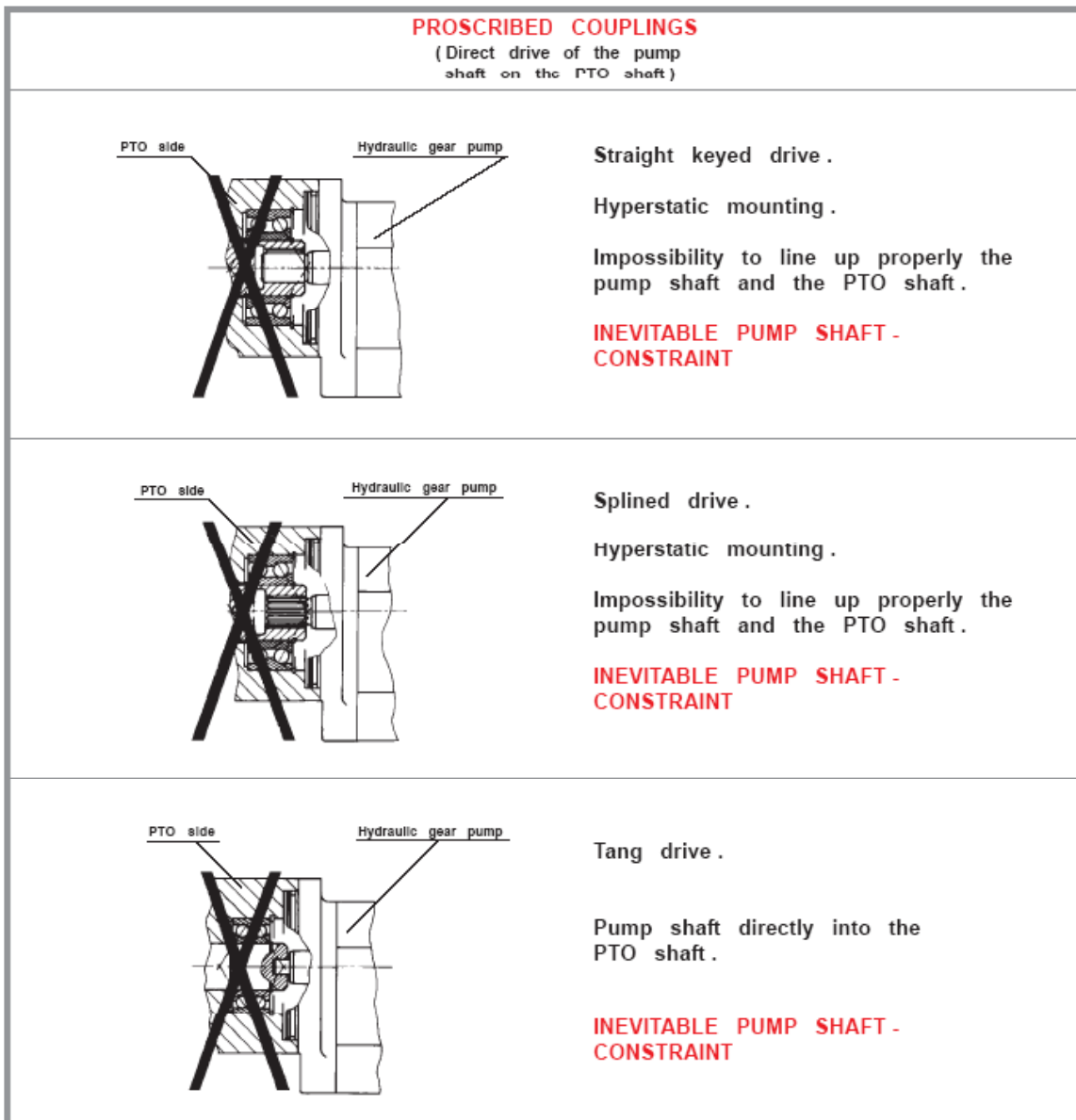
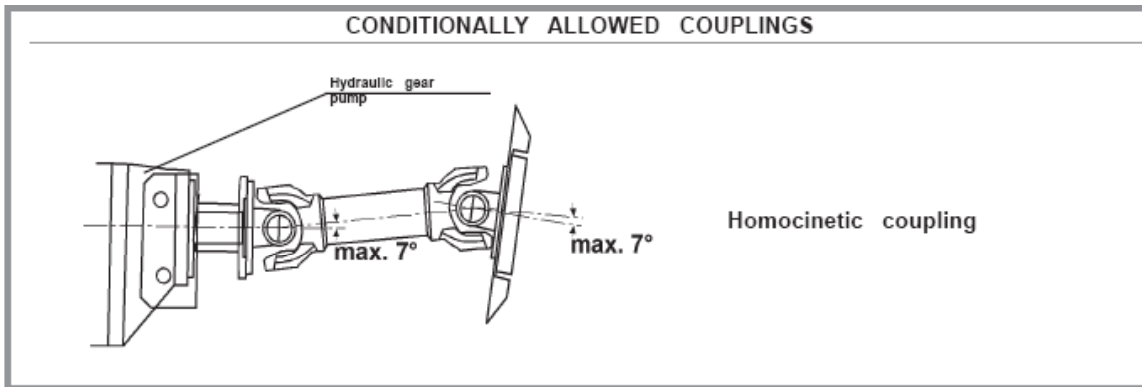
RECOMMENDED COUPLINGS	
	<p>Mounting with elastic 3 parts coupling .</p> <p>The pump shafts can be :</p> <ul style="list-style-type: none"> - Straight keyed shafts - Tapered shafts - Splined shafts
	<p>Mounting with 3 parts coupling with bulged gear .</p> <p>The pump shafts can be :</p> <ul style="list-style-type: none"> - Straight keyed shafts - Tapered shafts - Splined shafts

RECOMMENDED COUPLINGS

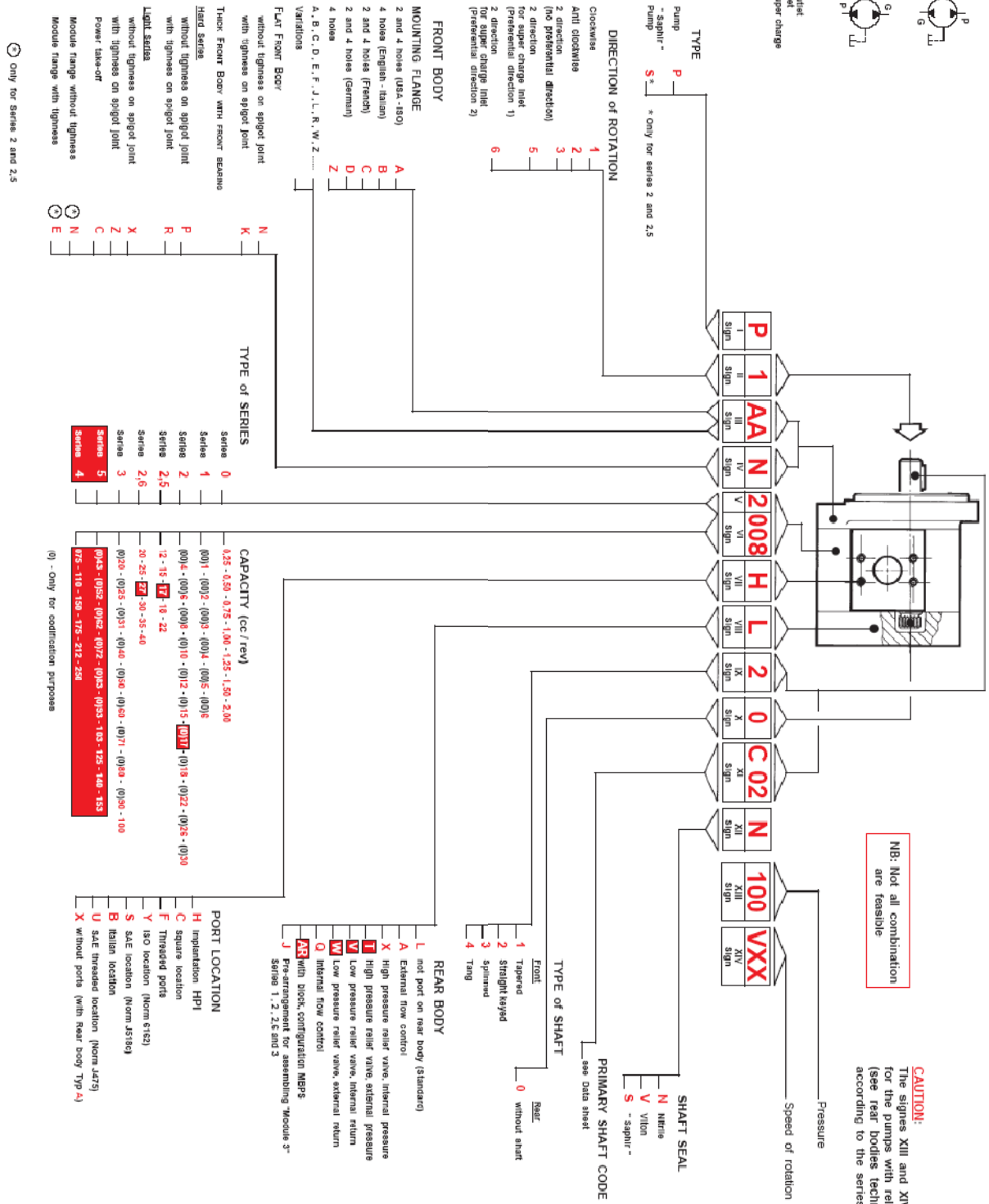
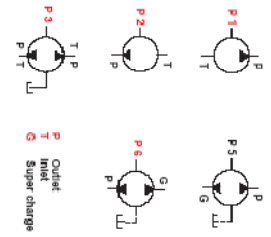
	<p>Mounting with coupling and Oldham coupling .</p> <p>The pump shafts can be :</p> <ul style="list-style-type: none"> - Straight keyed shafts - Tapered shafts - Splined shafts <p><u>RECOMMENDED LUBRICATION.</u></p>
	<p>Mounting with Oldham coupling .</p> <p>Tang drive shaft on PTO and pump shaft .</p> <p><u>RECOMMENDED LUBRICATION.</u></p>
	<p>Mounting with Oldham coupling .</p> <p>Tang drive shaft on PTO and pump shaft .</p> <p><u>RECOMMENDED LUBRICATION.</u></p>

CONDITIONALLY ALLOWED COUPLINGS

	<p>Mounting with splined coupling (Spigot on free flank) .</p> <p>Tolerated coupling provided that there is a perfect concentricity between Ø A and Ø B .</p> <p>Concentricity $\leq 0,03$ (according to the pump type and capacity) .</p>
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CODIFICATIONS OF SINGLE PUMPS



NB: Not all combination are feasible

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

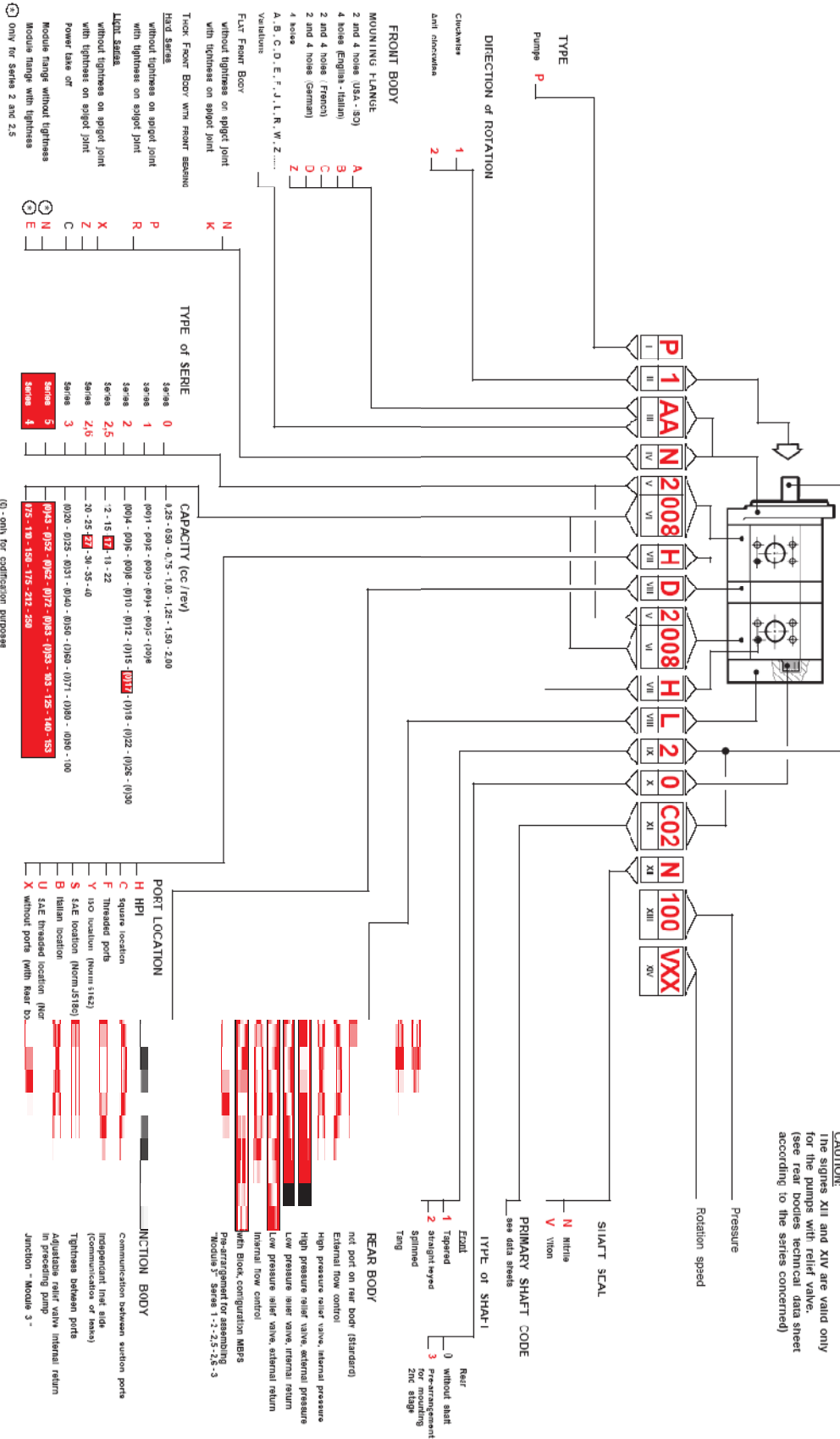


⊙ Only for Series 2 and 2.5

⓪ - Only for codification purpose

Consult us for availability

CODIFICATIONS OF GENERAL "MULTIPLE" PUMPS



SERIES	MODEL	Capacity		PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		cc / rev	bar	PSI	bar	PSI	at 1500 RPM		at Maxi speed				
							l / min		l / min				
0	0025	0,25	280	4060	240	3480	8000	0,37	2	0,05	0,47	0,42	
	0050	0,50	280	4060	240	3480	8000	0,75	4	0,10	0,54		
	0075	0,75	250	3625	210	3045	8000	1,12	6	0,15	1,40		
	0100	1	250	3625	210	3045	8000	1,50	8	0,20	1,87	0,45	
	0125	1,25	200	2900	170	2465	6000	1,87	7,5	0,25	2,34		
	0150	1,50	150	2175	125	1812	6000	2,25	9	0,29	2,81		
	0200	2	125	1812	105	1522	5000	3	10	0,39	3,74	0,50	
1	1001	1,02	300	4350	255	3697	8000	1,53	8,16	0,20	1,91	0,9	
	1002	2,05	300	4350	255	3697	8000	3,07	16,4	0,40	3,83		
	1003	3,07	300	4350	255	3697	7000	4,60	21,4	0,60	5,74		
	1004	4,09	250	3625	215	3117	6000	6,13	24,5	0,80	7,65	1,1	
	1005	5,12	200	2900	170	2465	6000	7,68	30,7	1	9,58		
	1006	6,14	150	2175	125	1812	6000	9,21	30,7	1,20	11,49		
	2004	4,65	280	4060	240	3480	3500	6,97	16,2	0,91	8,70		1,6
2006	6,45	280	4060	240	3480	3500	9,67	22,5	1,26	12,07	1,6		
2008	8,25	280	4060	240	3480	3500	12,37	28,8	1,62	15,43	1,7		
2010	10,12	280	4060	240	3480	3500	15,18	35,3	1,98	18,93	1,7		
2012	12	280	4060	240	3480	3500	18	42	2,35	22,45	1,7		
2014	13,8	250	3625	210	3045	3500	20,7	48,3	2,71	25,81	2		
2015	15,52	250	3625	210	3045	3500	23,25	52,5	3,04	29,03	2,1		
2017	17,3	220	3190	190	2755	3500	25,95	60,55	3,39	32,36	2,1		
2018	19,12	200	2900	170	2465	3500	28,65	66,8	3,75	35,77	2,2		
2022	22,87	175	2537	150	2175	3500	34,2	79,8	4,48	42,78	2,3		
2026	27,6	175	2537	150	2175	3000	41,4	82,8	5,41	51,63	2,7		
2030	31,2	175	2537	150	2175	3000	46,8	93,6	6,12	58,36	2,8		
2,5	2512	12	300	4350	255	3697	3500	18	42	2,35	22,45	2,2	
	2515	15,52	280	4060	240	3480	3500	23,25	52,5	3,04	29,03	2,6	
	2517	17,3	280	4060	240	3480	3500	25,95	60,55	3,39	32,36	2,6	
	2518	19,12	250	3625	215	3117	3500	28,65	66,8	3,75	35,77	2,7	
	2522	22,87	225	3262	190	2755	3500	34,2	79,8	4,48	42,78	2,8	
	2620	19,6	330	4185	280	4060	3000	29,40	58,80	3,70	36,66	8	
2625	24,2	330	4185	280	4060	3000	36,30	72,60	4,50	45,27			
2627	27,5	330	4185	280	4060	3000	41,25	82,50	5	51,25			
2630	30,5	330	4185	280	4060	3000	45,75	91,50	5,70	57,05			
2635	34,5	290	4205	250	3625	3000	51,75	103,50	6,40	64,54			
2640	39,8	250	3625	210	3045	3000	59,70	119,40	7,50	74,45			



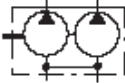
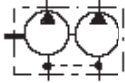
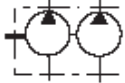
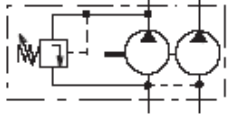
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JTEKT


SERIES	MODEL	Capacity		PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		cc / rev	bar	PSI	bar	PSI	at 1500 RPM		at Maxi speed				
							l / min		l / min				
3	3020	21,1	275	3987	235	235	3000	31,65	63,3	4,14	39,47	5,6	
	3025	25,8	275	3987	235	235	3000	38,7	77,4	5,06	48,26	5,6	
	3031	32,1	275	3987	235	235	3000	48,15	96,3	6,29	60,05	5,6	
	3040	41,5	275	3987	235	235	3000	62,25	124,5	8,14	77,63	5,7	
	3050	51,65	250	3625	215	215	3000	77,47	154,9	10,13	96,62	6,9	
	3060	62,6	225	3262	190	190	2500	93,9	156,5	12,27	117,10	7	
	3071	73,55	225	3262	190	190	2500	110,32	183,8	14,42	137,58	7	
	3080	82,95	200	2900	170	170	2200	124,42	182,4	16,26	155,17	7,1	
	3090	92,95	150	2175	130	130	2000	139,42	185,9	18,23	173,87	7,8	
	3100	103,9	150	2175	130	130	2000	155,85	207,8	20,37	194,37	8	
5	5043	43,06	300	4350	255	3697	3000	64,59	129	8,44	80,55	14,2	
	5052	52,91	300	4350	255	3697	3000	79,36	158,5	10,37	98,97	14,2	
	5062	62,75	300	4350	255	3697	3000	94,12	188	12,30	117,38	14,4	
	5072	72,59	300	4350	255	3697	3000	108,88	217,5	14,23	135,79	14,6	
	5083	83,67	280	4060	240	3480	2700	125,50	226	16,41	156,51	15,1	
	5093	93,51	250	3625	210	3045	2700	140,26	252,5	18,34	174,92	15,2	
	5103	103,3	250	3625	210	3045	2700	154,95	279	20,25	193,23	15,2	
	5125	125,5	250	3625	210	3045	2600	188,25	326	24,61	234,76	15,7	
	5140	140,2	250	3625	210	3045	2500	210,30	350,5	27,49	262,26	15,7	
	5153	153	250	3625	210	3045	2400	229,50	367,5	30	286,20	16	
4	4075	075	200	2900	170	2465	2500	112,5	187,5	19,37	141	17	
	4110	110	200	2900	170	2465	2500	165	275	28,42	206	17,2	
	4150	150	200	2900	170	2465	2500	225	375	28,60	281	17,4	
	4175	175	175	2625	150	2175	2500	262,5	437,5	34,31	327,35	19	
	4212	212	150	2175	130	1885	2500	318	530	41,57	396,56	19,4	
	4250	250	125	1812	105	1522	2000	375	500	49,02	467,65	20	



Consult us for availability

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

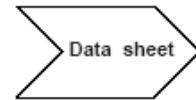
ATTENTION: Versions 2 / 1 and 2,5 / 1 are not feasible in DCN - DCK - DUK - DWN - DZK

F.T.R 0029

- Types not manufactured
- Consult us for availability



PUMPS PRESENTATION
SERIES 0



F.T 00 1289

PUMP **AAN**



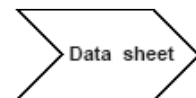
F.T 00 1290

PUMP **AAK**



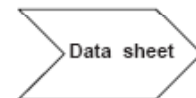
F.T 00 1324

PUMP **CLS**



F.T 00 1415

PUMP **DCN**



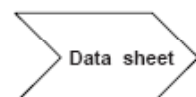
F.T 00 1291

PUMP **DCK**



F.T 00 1325

MULTIPLE PUMPS



F.T 00 1292



Consult us for availability

MAIN CHARACTERISTICS SERIES 1

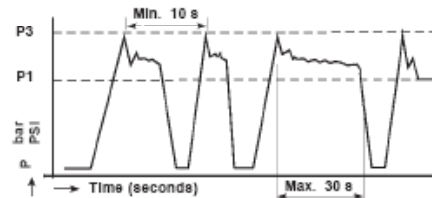
MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
							l / min	l / min			
0025	0,25	280	4060	240	3480	8000	0,37	2	0,05	0,47	0,42
0050	0,50	280	4060	240	3480	8000	0,75	4	0,10	0,54	
0075	0,75	250	3625	210	3045	8000	1,12	6	0,15	1,40	
0100	1	250	3625	210	3045	8000	1,50	8	0,20	1,87	0,45
0125	1,25	200	2900	170	2465	6000	1,87	7,5	0,25	2,34	
0150	1,50	150	2175	125	1812	6000	2,25	9	0,29	2,81	
0200	2	125	1812	105	1522	5000	3	10	0,39	3,74	0,50

The pump can only run in one way rotation (Precise the direction of rotation on order).
 The working cycles hereunder are possible with hydraulic mineral oil for viscosities between 12 and 150 cSt (65,2 and 700 SUS).
 The minimum viscosity of 12 cSt (65,2 SUS) is available for a maximum temperature in the hydraulic circuit.
Working temperature: - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C (284 °F) with Viton shaft seal).
Full flow filtration: 10 to 15 microns at the pressure port of the pump or on the return circuit.
Filtration on the suction side: 125 microns.
Pressure at the inlet of the pump:
 - Minimum 0,8 bar absolute (Maxi depreasure 300 millibar with regard to the air pressure).
 - Maximum 1,2 bar absolute or 0,2 bar over the air pressure.
 The hereabove characteristics concern the pumps driven by elastic couplings perfectly aligned without any external radial or axial force.
 For any other coupling, see technical data sheet F.T.R 0009.
 For use at maximum working conditions and/or intensive cycles, thanks to consult our technical sales service for validation.

P1 Maximum pressure in continuous duty.

Maximum Pressure →

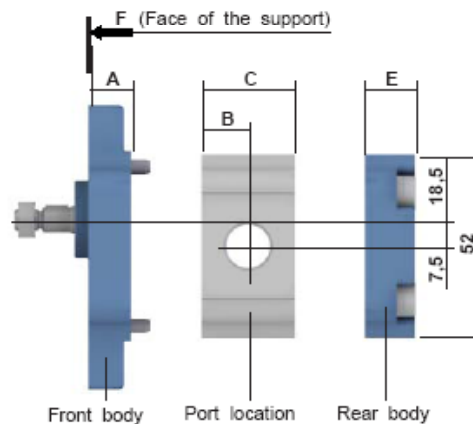
P3 Allowable peak pressure.



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

Port location (capacity):	B	C
0025 - 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

P	II Sign	III Sign	IV Sign	0	VI Sign	VII Sign	VIII Sign	IX Sign	X Sign	XI Sign	XII Sign
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For CODIFICATION, see data sheet **F.T.R 0011**

DIRECTION of ROTATION (II Sign) P 1 P 2	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)	
					STRAIGHT KEYED	TANG
			F	L	20	40

X	X	AAN / AAK 	0025 0050 0075				
X	X	DCN / DCK 	0100 0125 0150			20 B01	40 C01 40 C15
X	X	CLS 	0200				40 C15

LEGENDES

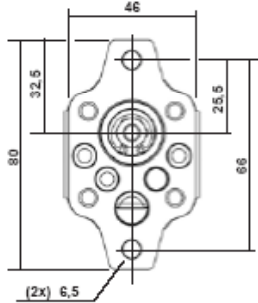
<u>DIRECTION of ROTATION</u>	<u>FRONT BODIES</u>	<u>PORT LOCATION</u>	<u>REAR BODY</u>
P1 = Clockwise P2 = Anti clockwise	AA* = Fixing SAE and ISO DC* = Fixing German	F = Threaded ports	L = Standard

Consult us for availability



FRONT BODIES

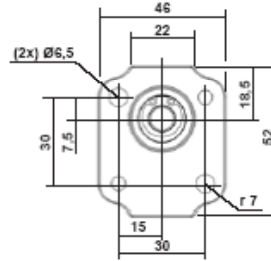
AAN / AAK



Centering: $\varnothing 22 \begin{smallmatrix} -0.020 \\ +0.011 \end{smallmatrix}$
 Thickness: 4

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

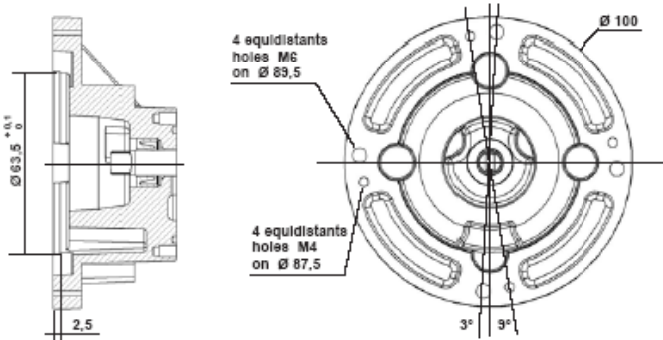
DCN / DCK



Centering: $\varnothing 22 \begin{smallmatrix} -0.020 \\ +0.011 \end{smallmatrix}$
 Thickness: 4

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

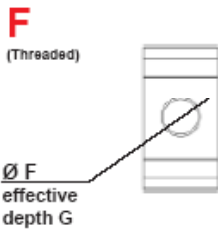
CLS



Internal centering: $\varnothing 63,5 \begin{smallmatrix} +0.1 \\ 0 \end{smallmatrix}$
 Thickness: 2,5

CLS : F.T 00 1415

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES



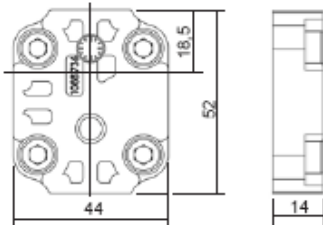
Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. FLANGES RECOMMENDED (for speed 1500 rev / min)	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
0025 to 0200				M14 x150	12				M14 x150	12		

Consult us for availability



REAR BODY

L
Standard



DRIVING SHAFT

TAPERED	STRAIGHT KEYED	SPLINED	TANG
10	20	30	40
	<p>B01</p> <p><u>Maxi transmissible torque</u> 5 N.m</p>		<p>C01</p> <p><u>Maxi transmissible torque</u> 6 N.m</p>
			<p>C15</p> <p><u>Maxi transmissible torque</u> 6 N.m</p>

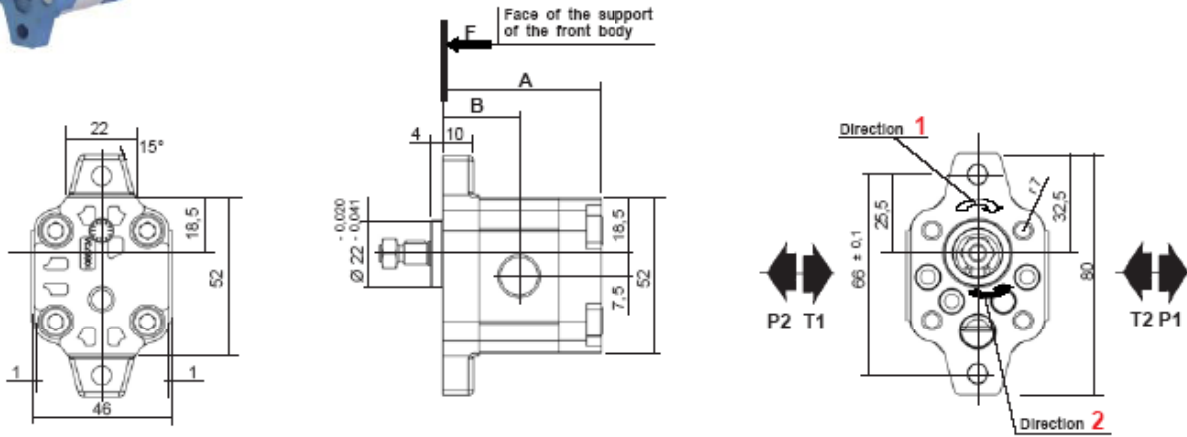
Consult us for availability





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

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



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

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

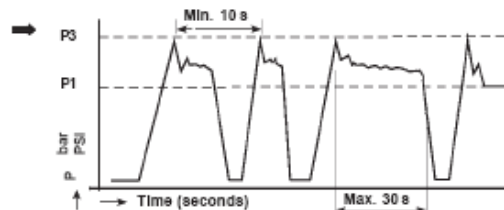
Seals kits:
Nitrile: **K5073819**
Viton: **K5073820**
(For manufacture to since may 1991)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and Nm	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
				l / min	l / min						
0025	0,25	280	4060	240	3480	8000	0,37	2	0,05	0,47	0,42
0050	0,50	280	4060	240	3480	8000	0,75	4	0,10	0,54	
0075	0,75	250	3625	210	3045	8000	1,12	6	0,15	1,40	
0100	1	250	3625	210	3045	8000	1,50	8	0,20	1,87	0,45
0125	1,25	200	2900	170	2465	6000	1,87	7,5	0,25	2,34	
0150	1,50	150	2175	125	1812	6000	2,25	9	0,29	2,81	
0200	2	125	1812	105	1522	5000	3	10	0,39	3,74	0,50

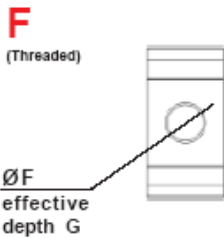
P1 Maximum pressure in continuous duty.

Maximum Pressure →

P3 Allowable peak pressure.

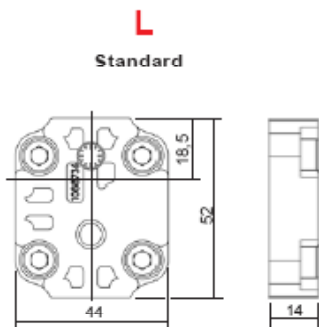


CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES



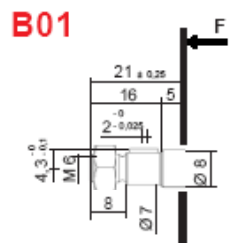
Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
0025 to 0200				M14 x150	12				M14 x150	12		

REAR BODY



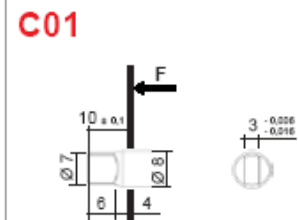
DRIVING SHAFT

Tapered	Straight keyed	Splined	Tang
10	20	30	40



Delivered with Nut Ref.: K108328

Maxi transmissible torque
5 N.m



Maxi transmissible torque
6 N.m



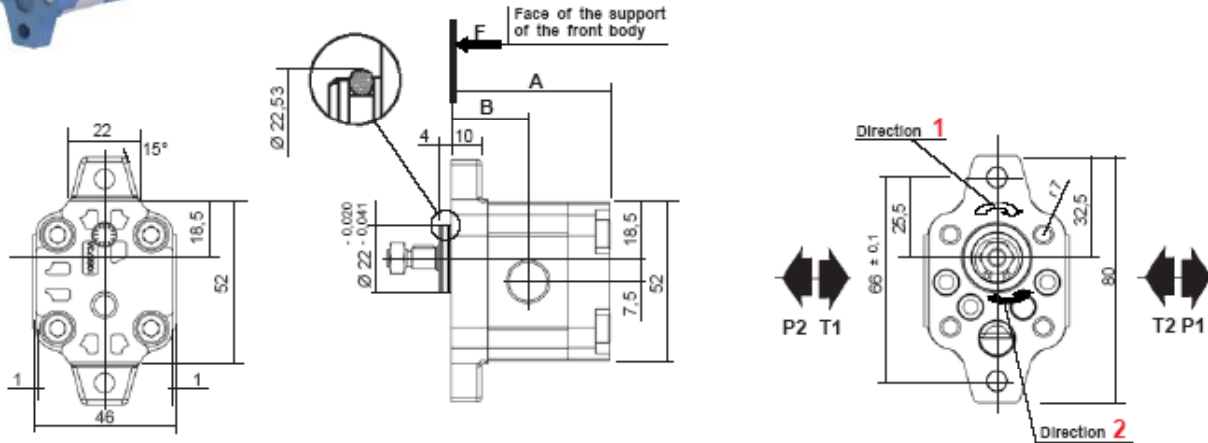
Lubrification requise et appropriée indispensable à l'industrie.

F.I. 00 1290 2/2



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

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



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

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

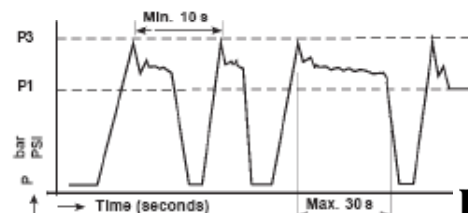
Seals kits:
 Nitrile: **K5073819 + K100256**
 Viton: **K5073820 + K105494**
 (For manufacture to since may 1991)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and Nm	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
							l / min	l / min			
0025	0,25	280	4060	240	3480	8000	0,37	2	0,05	0,47	0,42
0050	0,50	280	4060	240	3480	8000	0,75	4	0,10	0,54	
0075	0,75	250	3625	210	3045	8000	1,12	6	0,15	1,40	
0100	1	250	3625	210	3045	8000	1,50	8	0,20	1,87	0,45
0125	1,25	200	2900	170	2465	6000	1,87	7,5	0,25	2,34	
0150	1,50	150	2175	125	1812	6000	2,25	9	0,29	2,81	
0200	2	125	1812	105	1522	5000	3	10	0,39	3,74	0,50

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

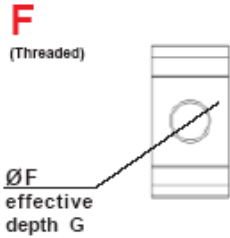
Maximum Pressure →



■ Consult us for availability

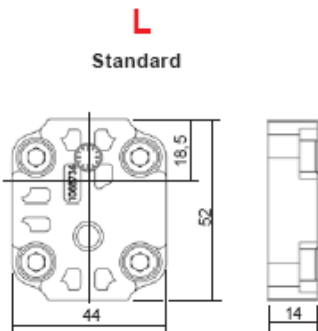


CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES



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

REAR BODY



DRIVING SHAFT

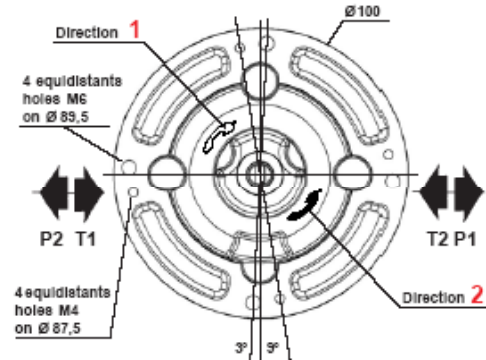
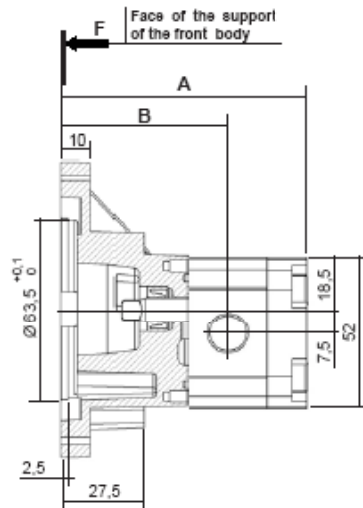
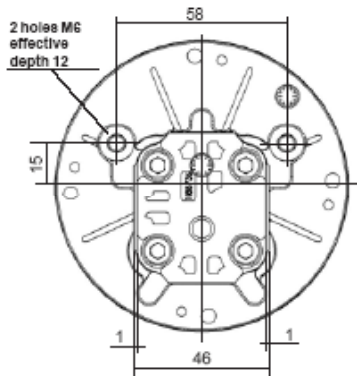
Tapered 10	Straight keyed 20	Splined 30	Tang 40
	<p>B01</p> <p>Delivered with Nut Ref.: K108328</p> <p>Maxi transmissible torque 5 N.m</p>		<p>C01</p> <p>Maxi transmissible torque 6 N.m</p>

Consult us for availability



P II Sign **CL S 0** VI Sign **FL 4 0 C15** XII Sign

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



Dimension readings and approximative characteristics subject to modifications.

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

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

Seals kits:

Nitrile: **K5073819**

Viton: **K5073820**

(For manufacture to since may1991)

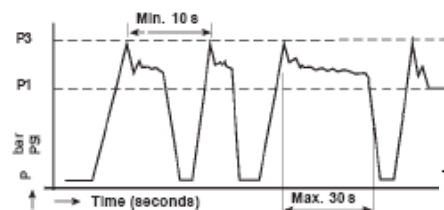
MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and Nm	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
							l / min	l / min			
0025	0,25	280	4060	240	3480	8000	0,37	2	0,05	0,47	0,42
0050	0,50	280	4060	240	3480	8000	0,75	4	0,10	0,54	
0075	0,75	250	3625	210	3045	8000	1,12	6	0,15	1,40	
0100	1	250	3625	210	3045	8000	1,50	8	0,20	1,87	0,45
0125	1,25	200	2900	170	2465	6000	1,87	7,5	0,25	2,34	
0150	1,50	150	2175	125	1812	6000	2,25	9	0,29	2,81	
0200	2	125	1812	105	1522	5000	3	10	0,39	3,74	0,50

F.T 00 1415 1/2

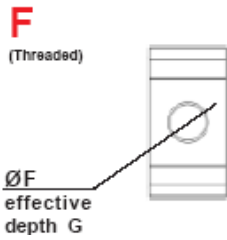
P1 Maximum pressure in continuous duty.

Maximum Pressure →

P3 Allowable peak pressure.

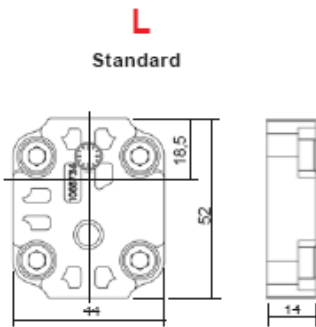


CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES



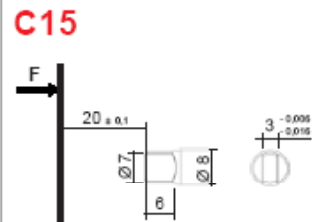
Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
0025 to 0200				M14 x150	12				M14 x150	12		

REAR BODY



DRIVING SHAFT

Tapered	Straight keyed	Splined	Tang
10	20	30	40



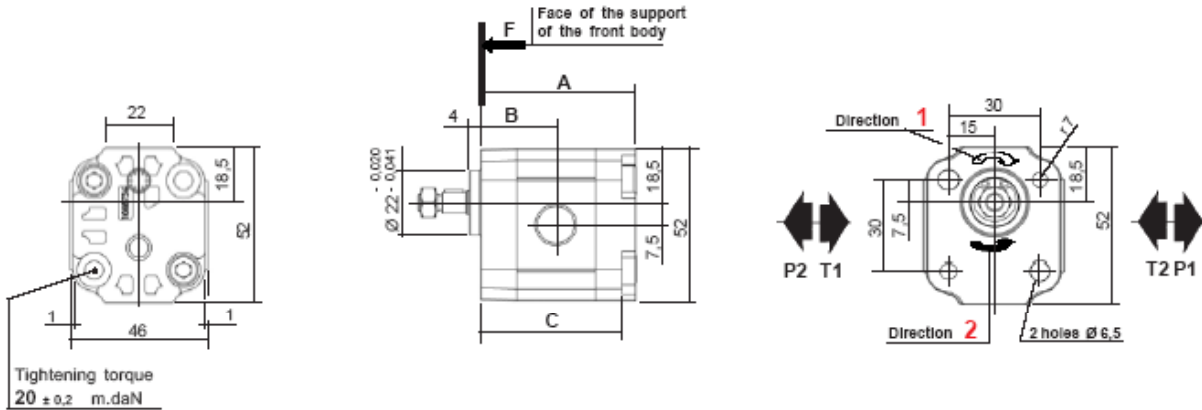
Max. transmissible torque
6 N.m





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

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



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

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

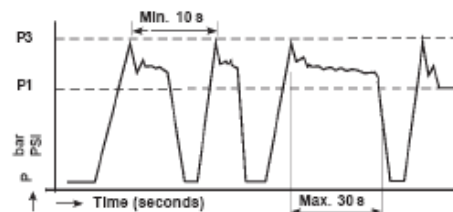
Seals kits:
Nitrile: **K5073819**
Viton: **K5073820**
(For manufacture to since may 1991)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and Nm	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
							l / min	l / min			
0025	0,25	280	4060	240	3480	8000	0,37	2	0,05	0,47	0,42
0050	0,50	280	4060	240	3480	8000	0,75	4	0,10	0,54	
0075	0,75	250	3625	210	3045	8000	1,12	6	0,15	1,40	
0100	1	250	3625	210	3045	8000	1,50	8	0,20	1,87	0,45
0125	1,25	200	2900	170	2465	6000	1,87	7,5	0,25	2,34	
0150	1,50	150	2175	125	1812	6000	2,25	9	0,29	2,81	
0200	2	125	1812	105	1522	5000	3	10	0,39	3,74	0,50

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

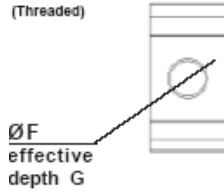
P3 Allowable peak pressure.

Maximum Pressure →



CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES

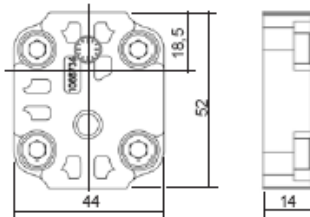
F
(Threaded)



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

REAR BODY

L
Standard



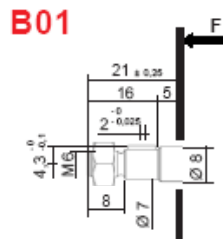
DRIVING SHAFT

Tapered
10

Straight keyed
20

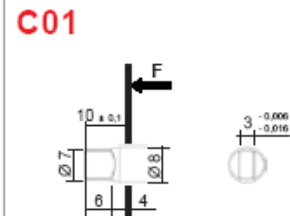
Splined
30

Tang
40



Delivered with Nut. Ref.: K106326

Maxi transmissible torque
5 N.m



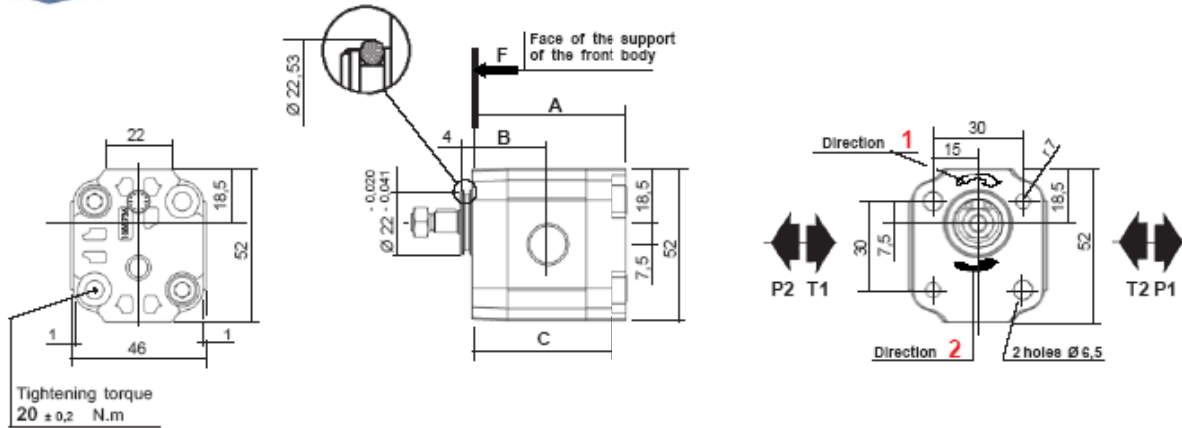
Maxi transmissible torque
6 N.m





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

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



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

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

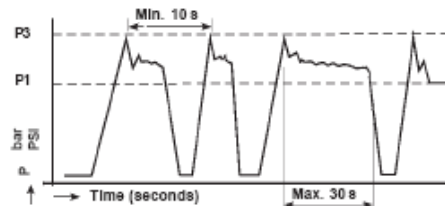
Seals kits:
Nitrile: **K5073819 + K100256**
Viton: **K5073820 + K105494**
(For manufacture to since may 1991)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		input power (kW) at 1000 RPM and 100 bar	input torque at 100 bar and Nm	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
				I / min	I / min						
0025	0,25	280	4060	240	3480	8000	0,37	2	0,05	0,47	0,42
0050	0,50	280	4060	240	3480	8000	0,75	4	0,10	0,54	
0075	0,75	250	3625	210	3045	8000	1,12	6	0,15	1,40	
0100	1	250	3625	210	3045	8000	1,50	8	0,20	1,87	0,45
0125	1,25	200	2900	170	2465	6000	1,87	7,5	0,25	2,34	
0150	1,50	150	2175	125	1812	6000	2,25	9	0,29	2,81	
0200	2	125	1812	105	1522	5000	3	10	0,39	3,74	0,50

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

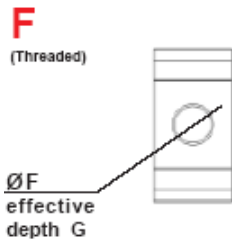
Maximum Pressure →



 Consult us for availability

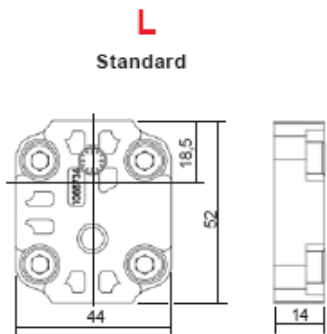


CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES



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

REAR BODY



DRIVING SHAFT

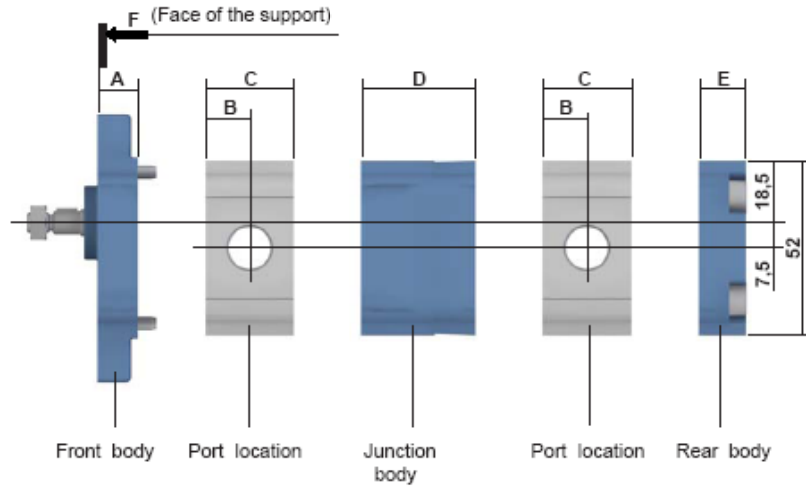
Tapered 10	Straight keyed 20	Splined 30	Tang 40
	<p>B01</p> <p>Delivered with Nut Ref: K108328</p> <p><u>Maxi transmissible torque</u> 5 N.m</p>		<p>C01</p> <p><u>Maxi transmissible torque</u> 6 N.m</p>

Consult us for availability





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

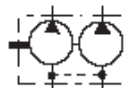


Front bodies	A
AAN / AAK DCN / DCK	12

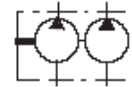
Capacity	B	C	D	E
0025 to 0050	13,2	26,4	34	14
0075 to 0150	16,4	32,8		
0200	20,8	41,2		

JUNCTION BODY (Schematic examples for 2 elements pumps)

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



Code E Tightness between ports



Possible combinations of junctions up to 5 elements

CALCULATION TORQUE

Q Capacity in cc / rev

P Pressure in bar

η_m Mechanical efficiency
(see catalogue C10)

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

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

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

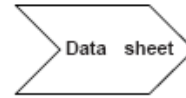
$$\frac{1,59 \times 0,75 \times 150}{1000 \times 0,93} = 1,9 \text{ N.m}$$

= **4,3 N.m** → Total torque

Consult us for availability

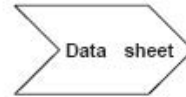


PUMPS PRESENTATION
SERIES 1



F.T 10 1293

PUMP **AAN**



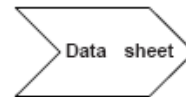
F.T 10 1294

PUMP **AAK**



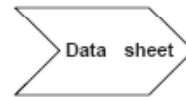
F.T 10 1326

PUMP **BAN**



F.T 10 1295

PUMP **CBN**




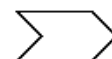
F.T 10 1296

PUMP **CBK**



F.T 10 1327

 Consult us for availability



PUMP

DCN

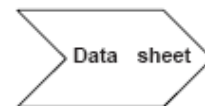
F.T 10 1297

PUMP

DCK

F.T 10 1328

MULTIPLES PUMPS



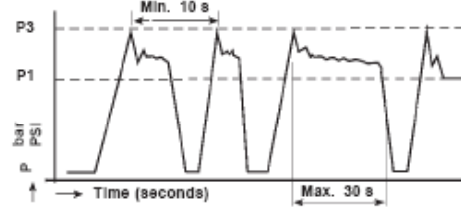
F.T 10 1298

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

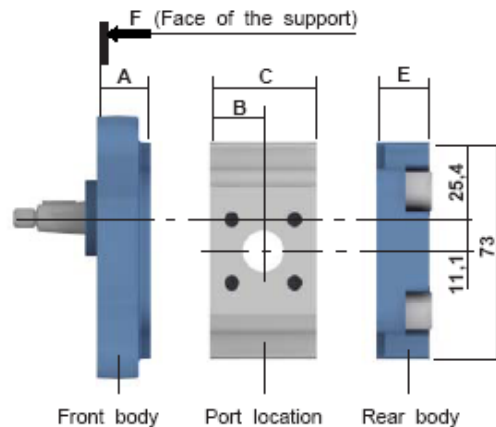
The pump can only run in one way rotation (Precise the direction of rotation on order).
 The working cycles hereunder are possible with hydraulic mineral oil for viscosities between 12 and 150 cSt (65,2 and 700 SUS).
 The minimum viscosity of 12 cSt (65,2 SUS) is available for a maximum temperature in the hydraulic circuit.
 Working temperature: - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C (284 °F) with Viton shaft seal).
 Full flow filtration: 10 to 15 microns at the pressure port of the pump or on the return circuit.
 Filtration on the suction side: 125 microns.
 Pressure at the inlet of the pump:
 - Minimum 0,7 bar absolute (Maxi depressure 300 millibar with regard to the air pressure).
 - Maximum 2 bar absolute or 1 bar over the air pressure.
 The hereabove characteristics concern the pumps driven by elastic couplings perfectly aligned without any external radial or axial force.
 For any other coupling, see technical data sheet F.T.R.0009.
 For use at maximum working conditions and/or intensive cycles, thanks to consult our technical sales service for validation.

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

Maximum Pressure →



Front bodies:	A
AAK / AAK - BAN - CBN / CBK	18
DCN / DCK	
Port location (capacity):	B C
1001 - 1002 - 1003	17,9 35,8
1004 - 1005 - 1006	22,7 45,6
Rear bodies:	E
L - A - X - T - V - W	18



Consult us for availability



P

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<small>VII Sign</small>	<small>VIII Sign</small>	<small>IX Sign</small>	<small>X Sign</small>	<small>XI Sign</small>	<small>XII Sign</small>	<small>I Sign</small>	<small>II Sign</small>	<small>III Sign</small>	<small>IV Sign</small>	<small>V Sign</small>

R 0011

DIRECTION of ROTATION (II Sign)	FLAT FRONT BODY (III and IV)	LOCATION (I Sign)	REAR BODIES (VIII Sign)	TAPERED	STRAIGHT KEVED	SPLINED	TANG		
P1 P2		F X	L A	T V W	J*	10	20	30	40

X	AAN /								
X	BAN								
X	CBN /								
X	DCN / DCK								
X		1004					10 E01 (ANC1)		
X		1005					28 C01		
X		1006					30 C01		
X								40 A01 (ANC2)	

LEGENDES

DIRECTION OF ROTATION

- P1 = Clockwise
- P2 = Anti clockwise

FRONT BODIES

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

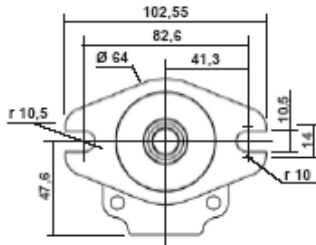
PORT LOCATION

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

REAR BODIES

- L = Standard
- A = with rear ports
- X = high pressure relief valve, internal return
- T = high pressure relief valve, external return
- V = low pressure relief valve, internal return
- W = low pressure relief valve, external return
- J* = Pre-arrangement for assembling "Module 3" see F.T.10.1352 page

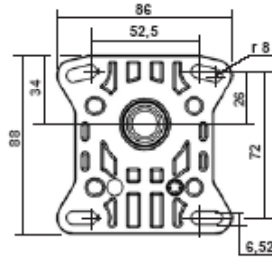
FRONT BODIES

AAN / AAK

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

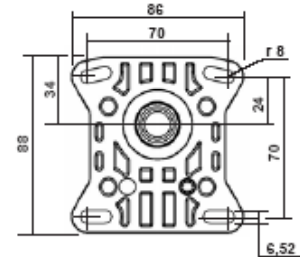
AAN: F.T 10 1294

AAK: F.T 10 1326

BAN

Centering: $\varnothing 25,35^{+0,02}_{-0,045}$
Thickness: 4

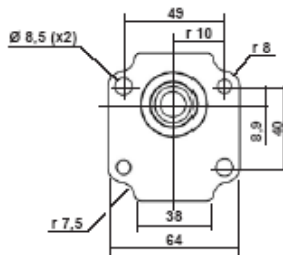
BAN: F.T 10 1295

CBN / CBK

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

CBN: F.T 10 1296

CBK: F.T 10 1327

DCN / DCK

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

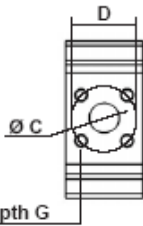


DCN: F.T 10 1297


DCK: F.T 10 1328



Consult us for availability

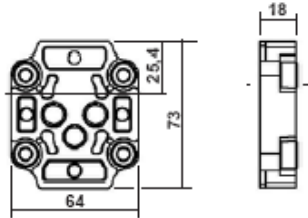
CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES

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

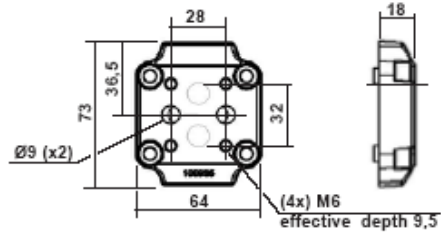
 Consult us for availability

REAR BODIES

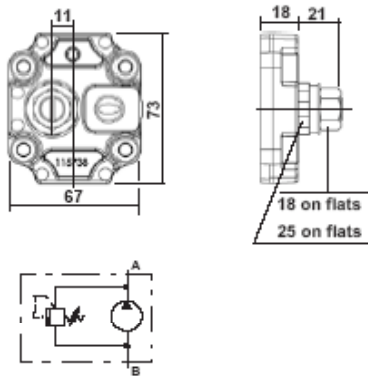
L
Standard



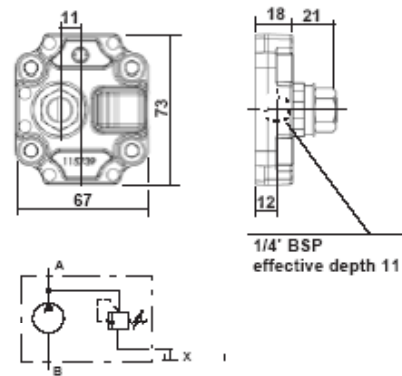
A
Rear ports



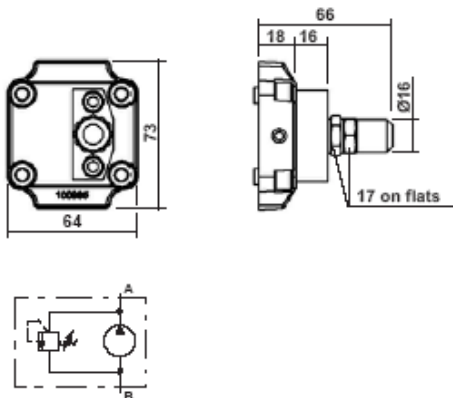
X
high pressure relief valve,
internal return



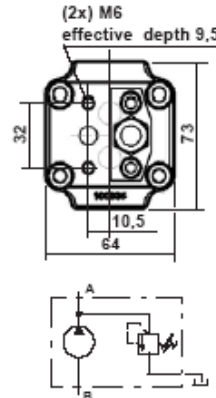
T
high pressure relief valve,
external return



V
low pressure relief valve,
internal return



W
low pressure relief valve,
external return



Consult us for availability

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B01 Taper 1/8</p> <p>Delivered with nut: K101719</p> <p><u>Max. transmissible torque</u> 40 N.m</p>	<p>C01</p> <p><u>Max. transmissible torque</u> 25 Nm</p>	<p>C01</p> <p>involute spline to shaft 10 x 18 x 0.5 to norm NFE 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Max. transmissible torque</u> 25 N.m</p>	<p>A01</p> <p><u>Max. transmissible torque</u> 30 N.m</p>
<p>C01 Taper 1/5</p> <p>Delivered with nut: K105890</p> <p><u>Max. transmissible torque</u> 50 N.m</p>			<p>C02</p> <p><u>Max. transmissible torque</u> 30 N.m</p>

Consult us for availability

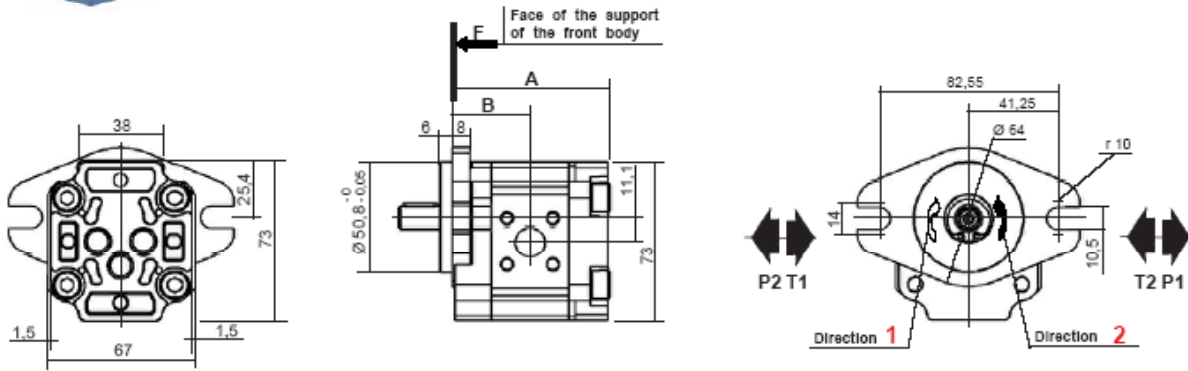


SERIES 1 TYPE AAN



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

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



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

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

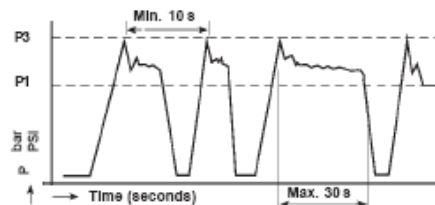
Seals Kits:
Nitrile: **K5074037**
Viton: **K5074038**
(For manufacture to since October 1991)

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

P1 Maximum pressure in continuous duty.

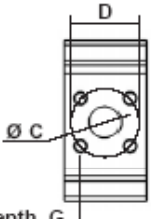

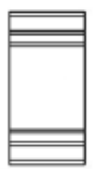
P3 Allowable peak pressure.

Maximum Pressure ⇒



SERIES 1 TYPE AAN

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES

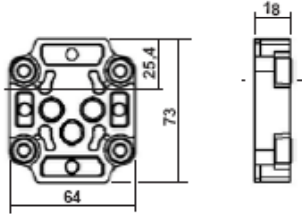
	Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
C (Square) 	1001 to 1003	14	30		M6	13	14	30		M6	13	1 / 4 " BSP N: 1.500292 V: 1.504770	1 / 4 " BSP N: 1.500292 V: 1.504770
	1004 to 1006							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

SERIES 1 TYPE AAN

REAR BODIES

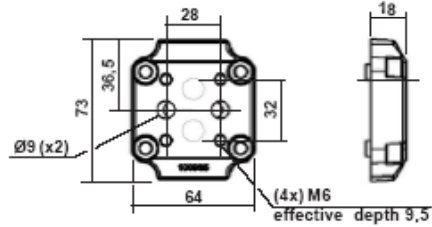
L

Standard



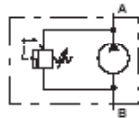
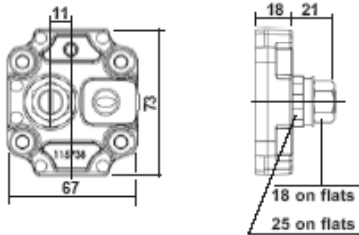
A

Rear ports



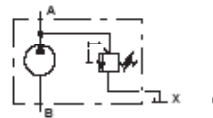
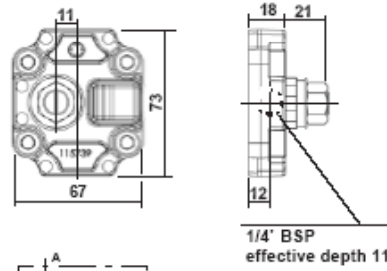
X

high pressure relief valve,
internal return



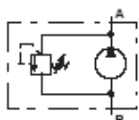
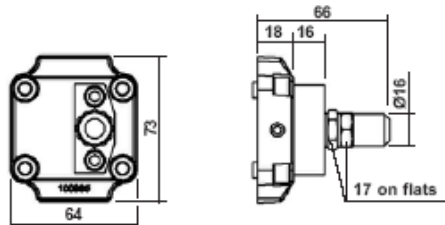
T

high pressure relief valve,
external return



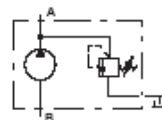
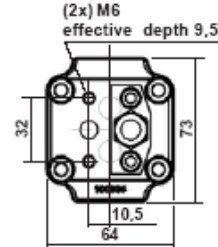
V

low pressure relief valve,
internal return



W

low pressure relief valve,
external return



Consult us for availability

SERIES 1 TYPE AAN

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B01 Taper 1/8</p> <p>Delivered with nut: K101719</p> <p>Max. transmissible torque 40 N.m</p>	<p>C01</p> <p>Max. transmissible torque 25 Nm</p>	<p>C01</p> <p>involute spline to shaft 10 x 18 x 0,5 to norm NF E 22 141 - BNA 455 Spigot on free flanks</p> <p>Max. transmissible torque 25 N.m</p>	<p>A01</p> <p>Max. transmissible torque 30 N.m</p>
<p>C01 Taper 1/5</p> <p>Delivered with nut: K105890</p> <p>Max. transmissible torque 50 N.m</p>			<p>C02</p> <p>Max. transmissible torque 30 N.m</p>

Consult us for availability

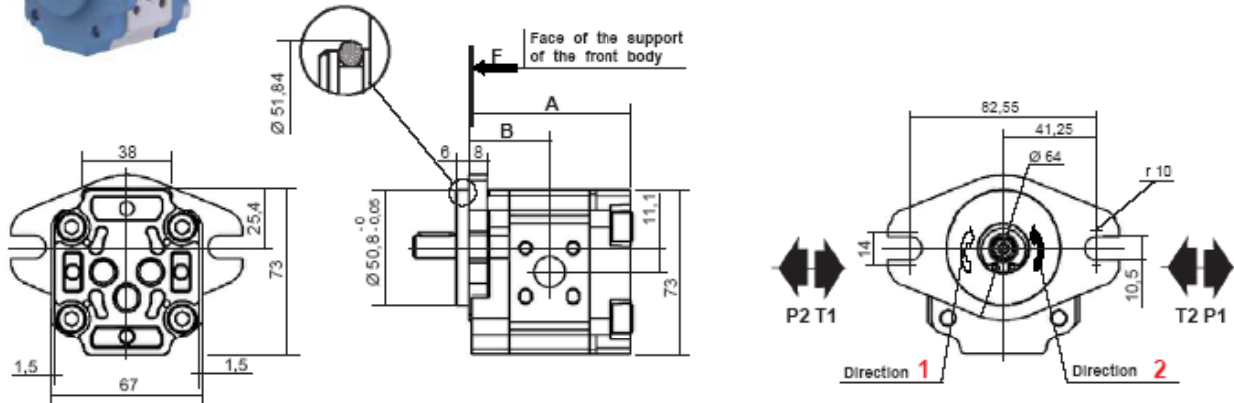


SERIES 1 TYPE AAK



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

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



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

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

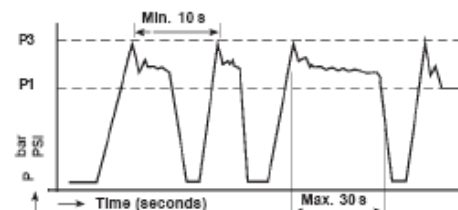
Seals kits:
Nitrile: **K5074037 + K102535**
Viton: **K5074038 + K107116**
(For manufacture to shoe October 1991)

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

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure ⇒

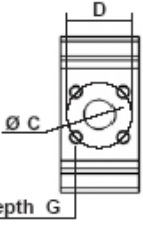




Consult us for availability



SERIES 1 TYPE AAK

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES

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

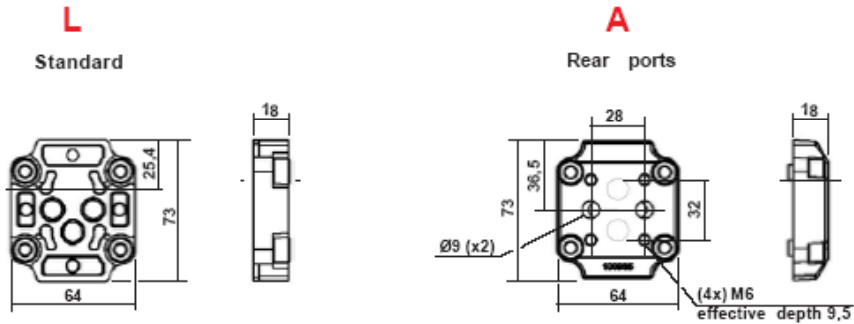


Consult us for availability

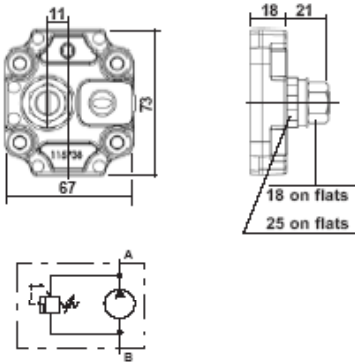


SERIES 1 TYPE AAK

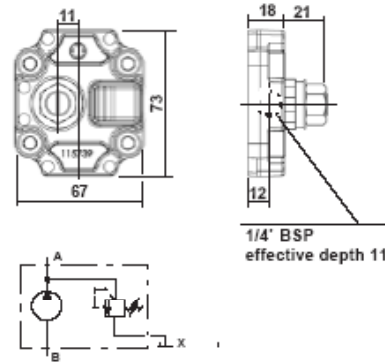
REAR BODIES



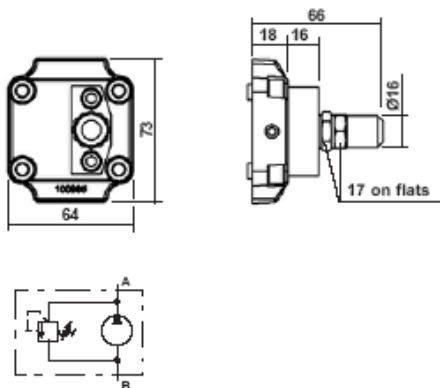
X
high pressure relief valve,
internal return



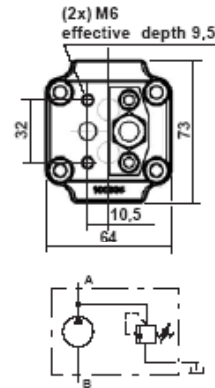
T
high pressure relief valve,
external return



V
low pressure relief valve,
internal return



W
low pressure relief valve,
external return



Consult us for availability

SERIES 1 TYPE AAK

DRIVING SHAFTS

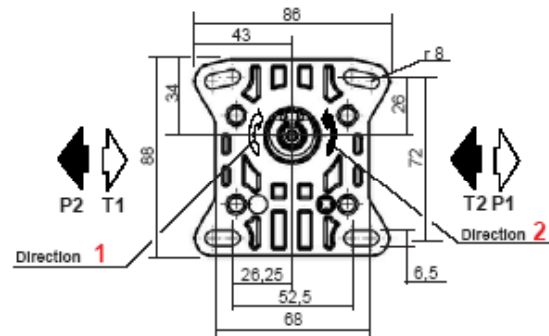
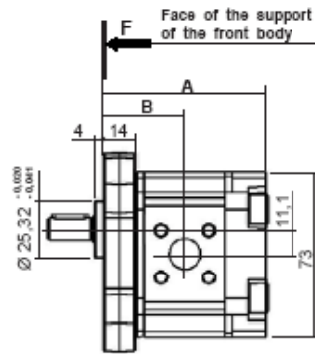
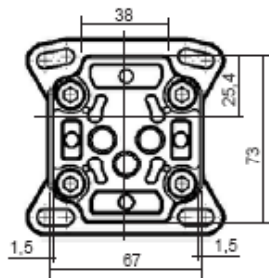
Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B01 Taper 1 / 8</p> <p>Delivered with nut: K101719</p> <p>Max. transmissible torque 40 N.m</p>	<p>C01</p> <p>Max. transmissible torque 25 Nm</p>	<p>C01</p> <p>involute spline to shaft 10 x 18 x 0,5 to norm NF E 22 141 - BNA 455 Spigot on free flanks</p> <p>Max. transmissible torque 25 N.m</p>	<p>A01</p> <p>Max. transmissible torque 30 N.m</p>
<p>C01 Taper 1 / 5</p> <p>Delivered with nut: K105890</p> <p>Max. transmissible torque 50 N.m</p>			<p>C02</p> <p>Max. transmissible torque 30 N.m</p>

Consult us for availability

SERIES 1 TYPE BAN

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

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



CHOICE of the capacity	Dimensions	
	A	B

1001 1002 1003	71,8	35,9
1004 1005 1006	81,5	40,7

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

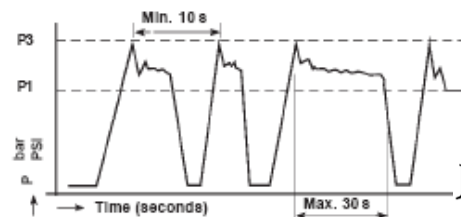
Seals kits:
Nitrile: **K5074037**
Viton: **K5074038**
(For manufacture to since October 1991)

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

P1 Maximum pressure in continuous duty.

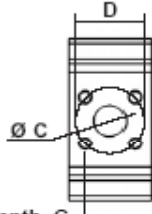
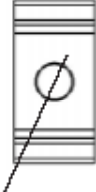

Maximum Pressure →

P3 Allowable peak pressure.



SERIES 1 TYPE BAN

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES

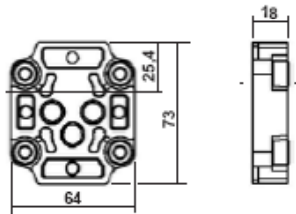
	Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMANDÉD FLANGES (for speed 1500 rev / min)	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
C (Square)  ØF effective depth G	1001 to 1003	14	30		M6	13	14	30		M6	13	1 / 4 " BSP N: 1.500292 V: 1.504770	1 / 4 " BSP N: 1.500292 V: 1.504770
	1004 to 1006											3 / 8 " BSP N: 1.500293 V: 1.505027	1 / 4 " BSP N: 1.500292 V: 1.504770
F (Threaded)  ØF effective depth G	1001 to 1003				3/8" BSP	12				3/8" BSP	12		
	1004 to 1006				1/2" BSP	14				3/8" BSP	12		
X (with ports) 	1001 to 1006	Only with rear body Type A											

SERIES 1 TYPE BAN

REAR BODIES

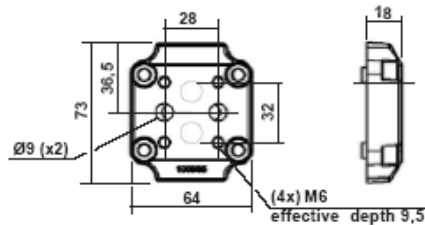
L

Standard



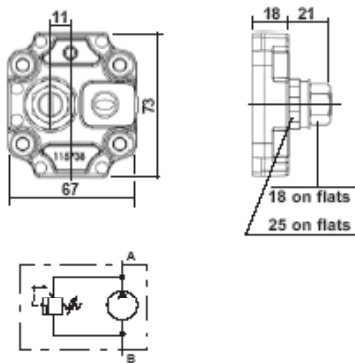
A

Rear ports



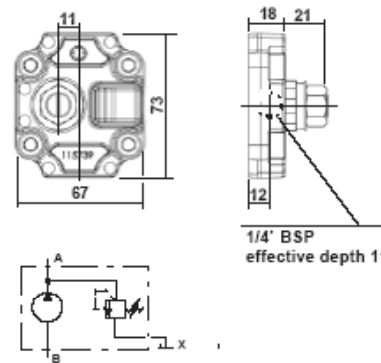
X

high pressure relief valve,
internal return



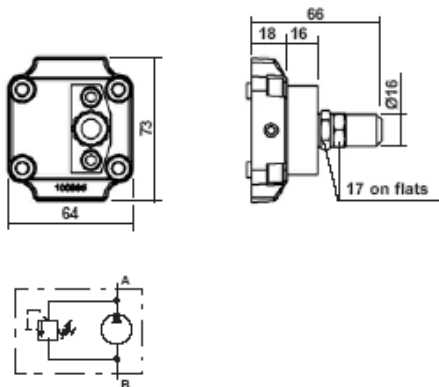
T

high pressure relief valve,
external return



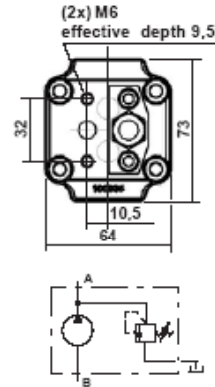
V

low pressure relief valve,
internal return



W

low pressure relief valve,
external return



Consult us for availability

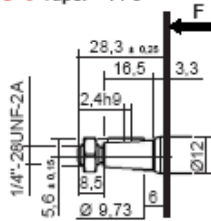
SERIES 1 TYPE BAN

DRIVING SHAFTS

Tapered

10

B01 Taper 1 / 8

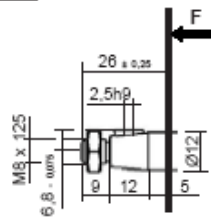


Delivered with nut: K101719

Max. transmissible torque

40 N.m

C01 Taper 1 / 5



Delivered with nut: K105890

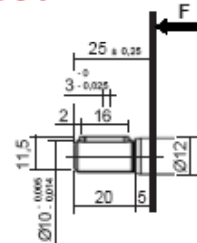
Max. transmissible torque

50 N.m

Straight keyed

20

C01



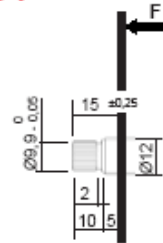
Max. transmissible torque

25 N.m

Splined

30

C01



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

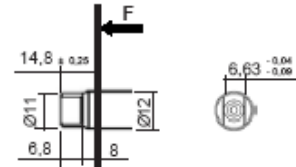
Max. transmissible torque

25 N.m

Tang

40

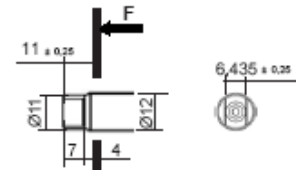
A01



Max. transmissible torque

30 N.m

C02



Max. transmissible torque

30 N.m

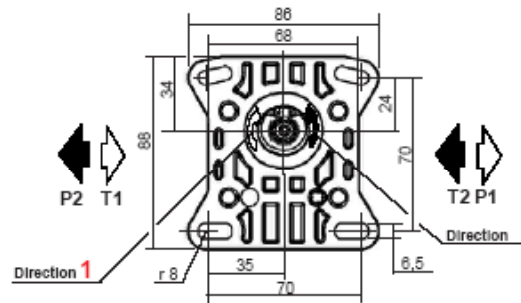
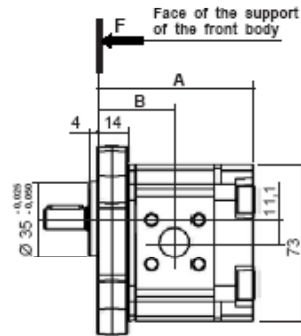
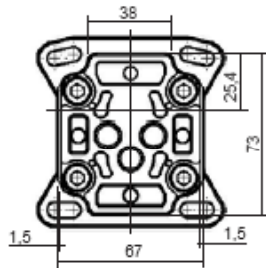


Consult us for availability

SERIES 1 TYPE BAN

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

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



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

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

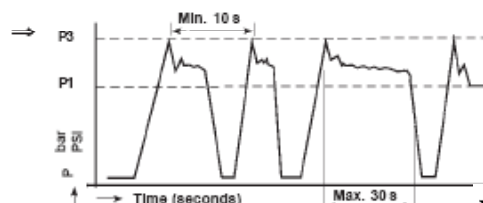
Seals kits:
Nitrile: **K5074037**
Viton: **K5074038**
(For manufacture to since October 1991)

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

P1 Maximum pressure in continuous duty.

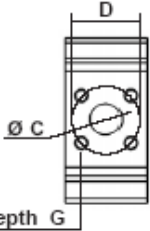
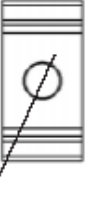

P3 Allowable peak pressure.

Maximum Pressure



SERIES 1 TYPE CBN

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES

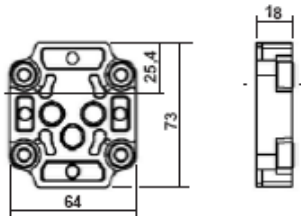
	Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
C (Square) 	1001 to 1003	14	30		M6	13	14	30		M6	13	1 / 4 " BSP N: 1.500292 V: 1.504770	1 / 4 " BSP N: 1.500292 V: 1.504770
	1004 to 1006							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

SERIES 1 TYPE CBN

REAR BODIES

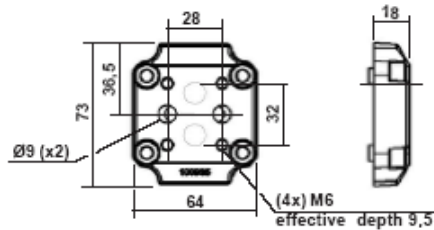
L

Standard



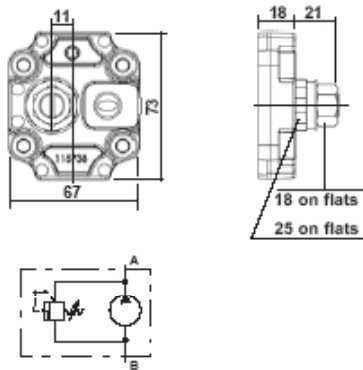
A

Rear ports



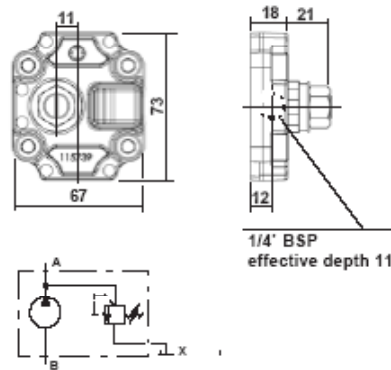
X

high pressure relief valve,
internal return



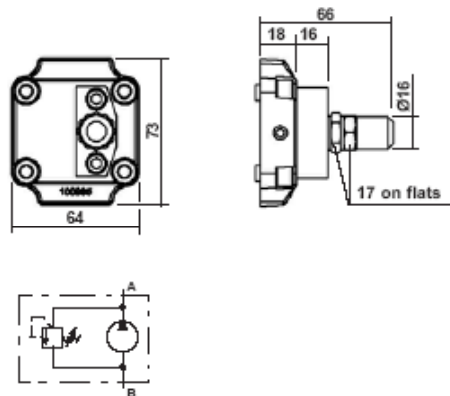
T

high pressure relief valve,
external return



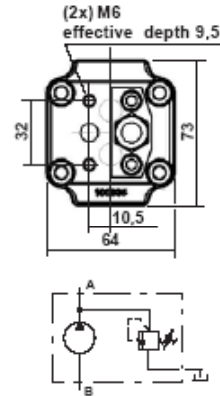
V

low pressure relief valve,
internal return



W

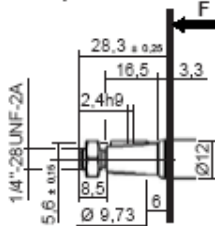
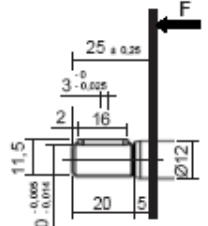
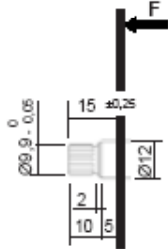
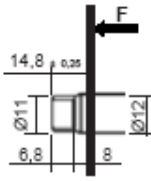
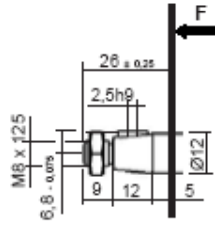
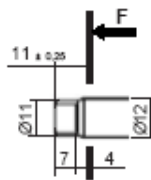
low pressure relief valve,
external return



Consult us for availability

SERIES 1 TYPE CBN

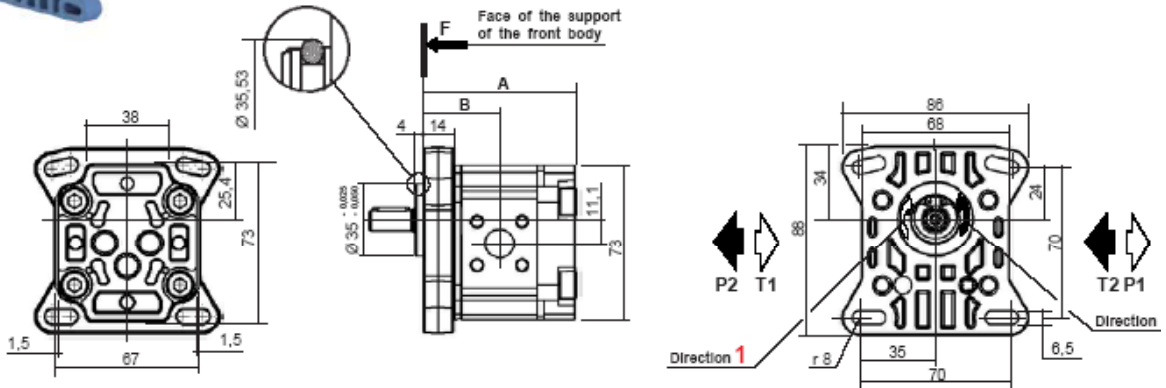
DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B01 Taper 1 / 8</p>  <p>Delivered with nut: K101719</p> <p>Max. transmissible torque 40 N.m</p>	<p>C01</p>  <p>Max. transmissible torque 25 Nm</p>	<p>C01</p>  <p>involute spline to shaft 10 x 18 x 0,5 to norm NF E 22 141 - BNA 455 Spigot on free flanks</p> <p>Max. transmissible torque 25 N.m</p>	<p>A01</p>  <p>Max. transmissible torque 30 N.m</p>
<p>C01 Taper 1 / 5</p>  <p>Delivered with nut: K105890</p> <p>Max. transmissible torque 50 N.m</p>			<p>C02</p>  <p>Max. transmissible torque 30 N.m</p>

SERIES 1 TYPE CBN

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

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



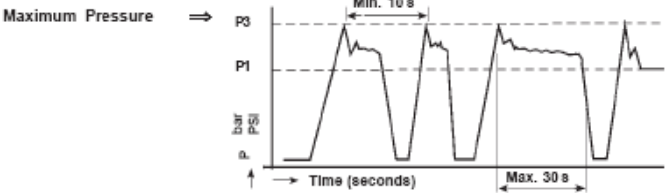
CHOICE of the capacity	Dimensions		
	A	B	C
1001 1002 1003	71,8	35,9	63,8
1004 1005 1006	81,5	40,7	73,5

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

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

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

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



Consult us for availability



SERIES 1 TYPE CBK

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES

Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
	<p>C (Square)</p> <p>ØF effective depth G</p>	14	30		M6	13	14	30		M6	13	1 / 4 " BSP N: 1.500292 V: 1.504770
<p>F (Threaded)</p> <p>ØF effective depth G</p>				3/8" BSP	12				3/8" BSP	12		
<p>X (with ports)</p>				1/2" BSP	14				3/8" BSP	12		
<p>1001 to 1006</p>	Only with rear body Type A											

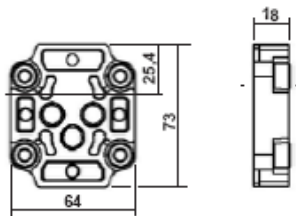
Consult us for availability



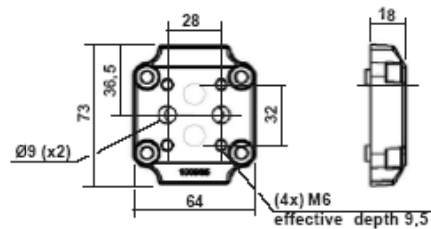
SERIES 1 TYPE CBK

REAR BODIES

L
Standard

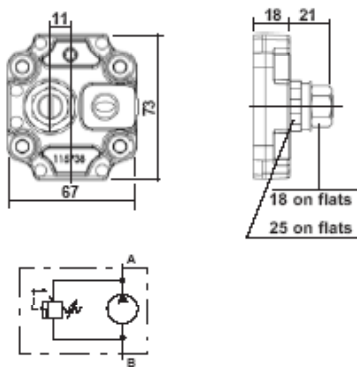


A
Rear ports



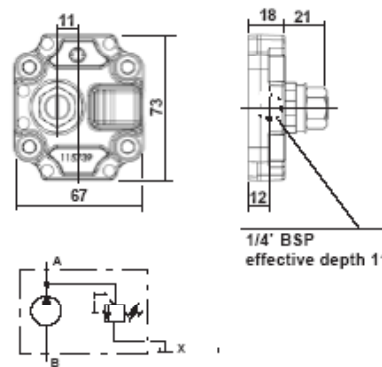
X

high pressure relief valve,
internal return



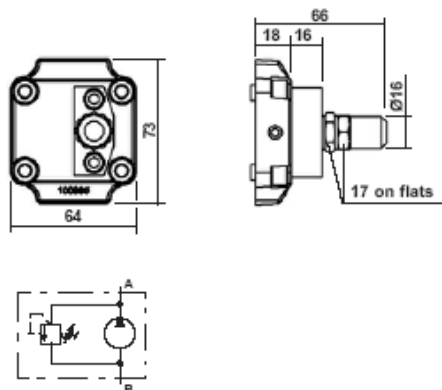
T

high pressure relief valve,
external return



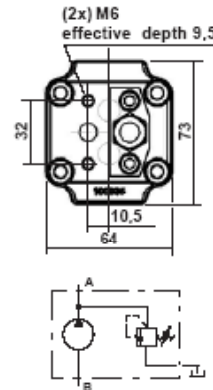
V

low pressure relief valve,
internal return



W

low pressure relief valve,
external return



Consult us for availability

SERIES 1 TYPE CBK

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B01 Taper 1/8</p> <p>Delivered with nut: K101719</p> <p>Max. transmissible torque 40 N.m</p>	<p>C01</p> <p>Max. transmissible torque 25 N.m</p>	<p>C01</p> <p>involute spline to shaft 10 x 18 x 0,5 to norm NFE 22 141 - BNA 455 Spigot on free flanks</p> <p>Max. transmissible torque 25 N.m</p>	<p>A01</p> <p>Max. transmissible torque 30 N.m</p>
<p>C01 Taper 1/5</p> <p>Delivered with nut: K105890</p> <p>Max. transmissible torque 50 N.m</p>			<p>C02</p> <p>Max. transmissible torque 30 N.m</p>



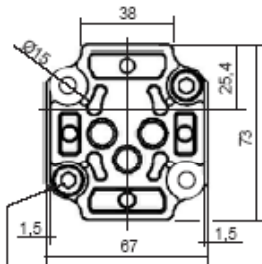
Consult us for availability

SERIES 1 TYPE DCN

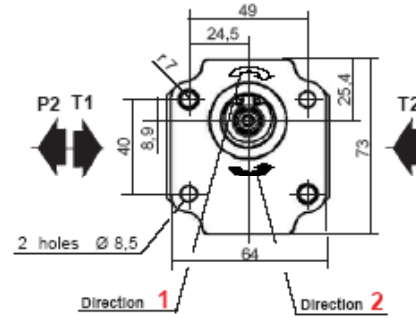
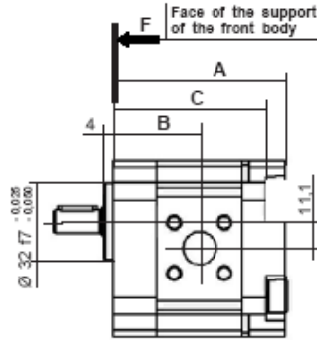


P II Sign **DCN** 1 VI Sign VII Sign **L** IX Sign X Sign XI Sign XII Sign

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



Couple de serrage
20 ± 0,2 N.m



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

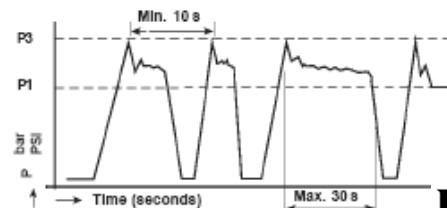
Multiple geared pumps,
see data sheet **F.T 10 1298**

seals kits:
Nitrile: **K5074037**
Viton: **K5074038**
(For manufactured to since October 1991)

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

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

Maximum Pressure ⇒

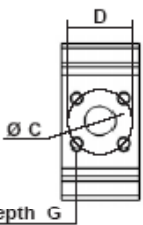
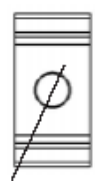



Consult us for availability



SERIES 1 TYPE DCN

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES

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

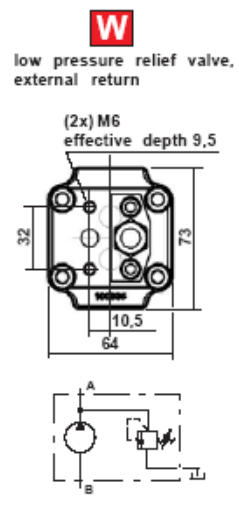
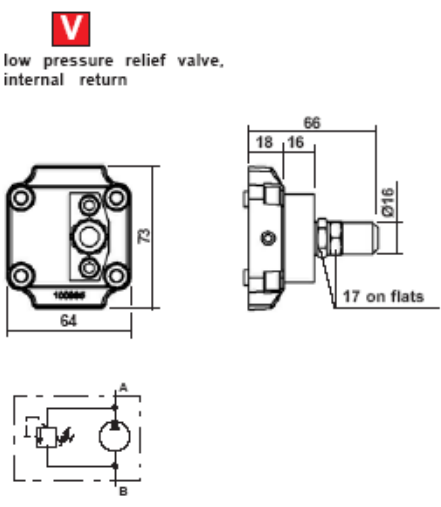
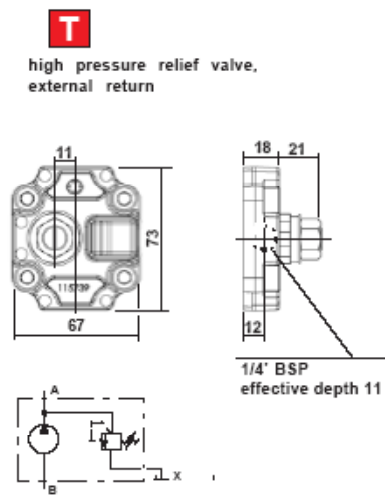
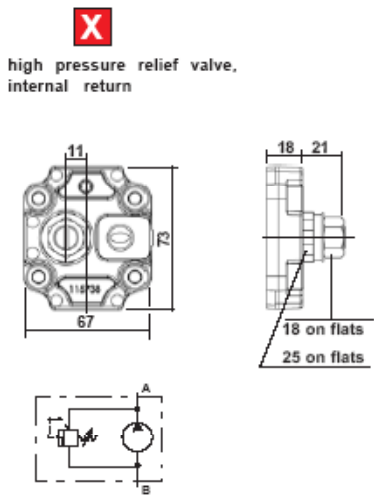
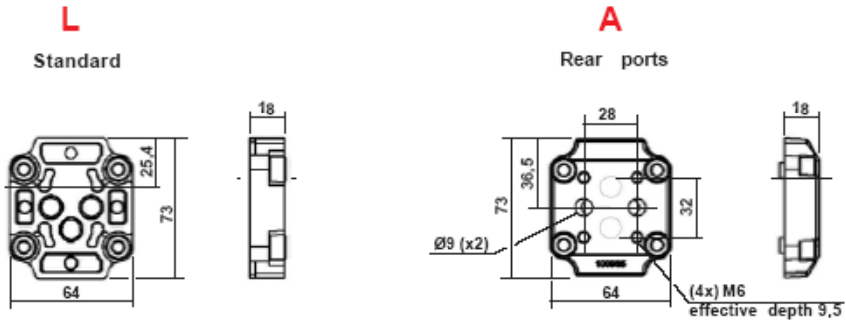


Consult us for availability



SERIES 1 TYPE DCN

REAR BODIES



Consult us for availability



SERIES 1 TYPE DCN

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B01 Taper 1 / 8</p> <p>Delivered with nut: K101719</p> <p>Max. transmissible torque 40 N.m</p>	<p>C01</p> <p>Max. transmissible torque 25 N.m</p>	<p>C01</p> <p>involute spline to shaft 10 x 18 x 0,5 to norm NF E 22 141 - BNA 455 Spigot on free flanks</p> <p>Max. transmissible torque 25 N.m</p>	<p>A01</p> <p>Max. transmissible torque 30 N.m</p>
<p>C01 Taper 1 / 5</p> <p>Delivered with nut: K105890</p> <p>Max. transmissible torque 50 N.m</p>			<p>C02</p> <p>Max. transmissible torque 30 N.m</p>

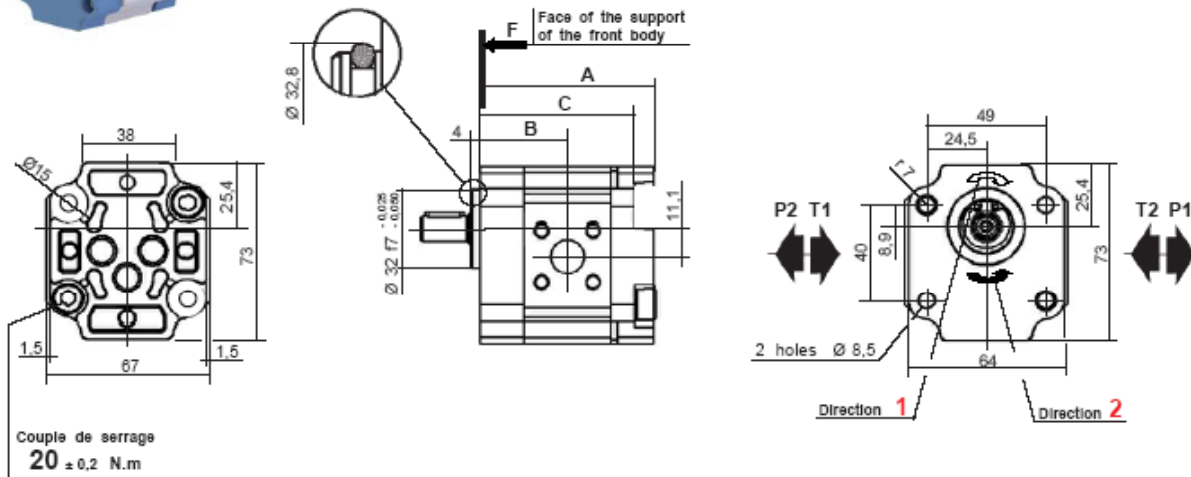
Consult us for availability

SERIES 1 TYPE DCK



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

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



Couple de serrage
20 ± 0,2 N.m

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

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

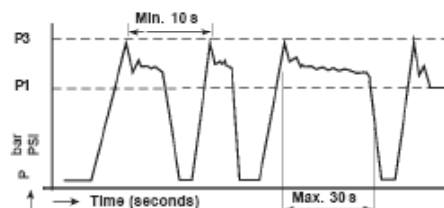
seals kits:
Nitrile: **K5074037 + K108227**
Viton: **K5074038 + K108228**
(For manufactured to since October 1991)

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

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

P3 Allowable peak pressure.

Maximum Pressure \Rightarrow

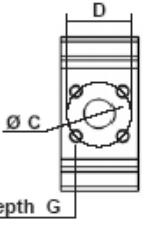





Consult us for availability



SERIES 1 TYPE DCK

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES

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

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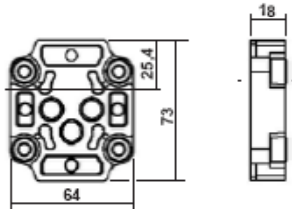


SERIES 1 TYPE DCK

REAR BODIES

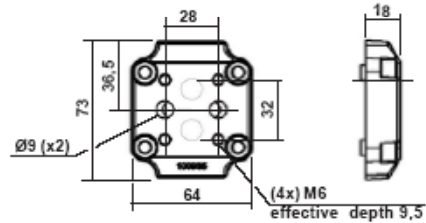
L

Standard



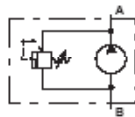
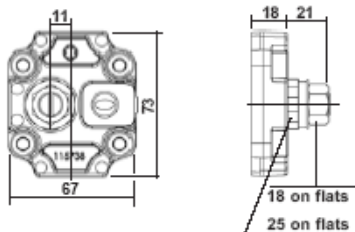
A

Rear ports



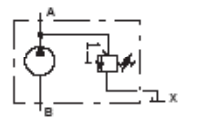
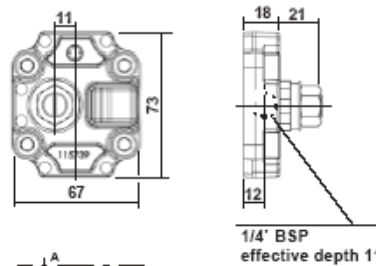
X

high pressure relief valve,
internal return



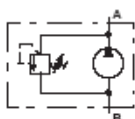
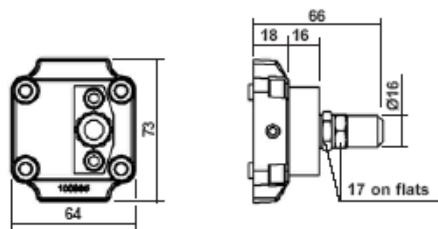
T

high pressure relief valve,
external return



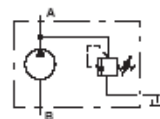
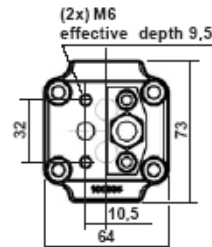
V

low pressure relief valve,
internal return



W

low pressure relief valve,
external return



Consult us for availability

SERIES 1 TYPE DCK

DRIVING SHAFTS

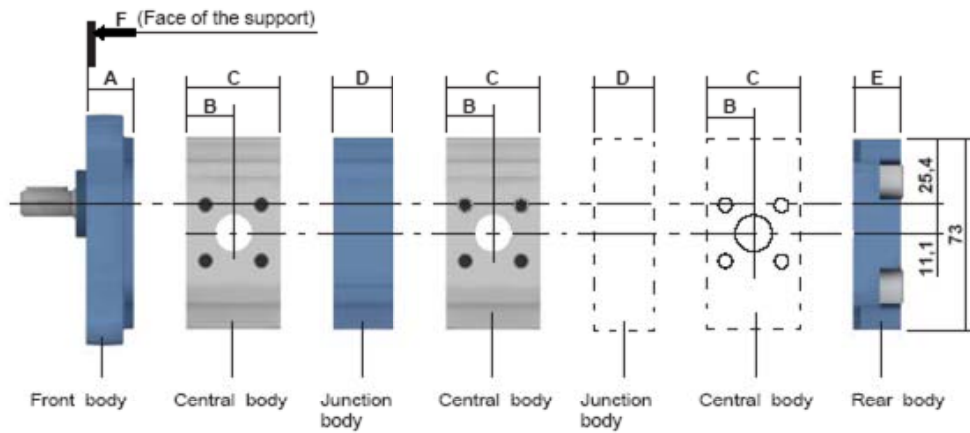
Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B01 Taper 1 / 8</p> <p>Delivered with nut: K101719</p> <p>Max. transmissible torque 40 N.m</p>	<p>C01</p> <p>Max. transmissible torque 25 N.m</p>	<p>C01</p> <p>involute spline to shaft 10 x 18 x 0.5 to norm NFE 22 141 - BNA 455 Spigot on free flanks</p> <p>Max. transmissible torque 25 N.m</p>	<p>A01</p> <p>Max. transmissible torque 30 N.m</p>
<p>C01 Taper 1 / 5</p> <p>Delivered with nut: K105890</p> <p>Max. transmissible torque 50 N.m</p>			<p>C02</p> <p>Max. transmissible torque 30 N.m</p>



Consult us for availability

COMPACT VERSION

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



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

Front body	A
AAN / AAK - BAN	18
CBN / CBK - DCN / DCK	

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

JUNCTION BODY (Schematic examples for 2 elements pumps)

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

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

Possible combinations of junctions up to 5 elements

CALCULATION TORQUE

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

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

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

$\frac{1,59 \times 6 \times 175}{1000 \times 0,87} = 1,91 \text{ N.m}$
 $\frac{1,59 \times 4 \times 150}{1000 \times 0,87} = 1,09 \text{ N.m}$
 = **3 N.m** → Total torque

Consult us for availability



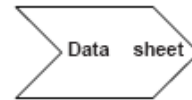
PUMPS PRESENTATION
SERIES 2 and 2,5



F.T 20 1299

- FLAT FRONT BODIES

PUMP **AAN**



F.T 20 1300

PUMP **AAK**



F.T 20 1329

PUMP **AFN**



F.T 20 1366

PUMP **APK**




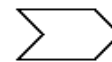
F.T 20 1368

PUMP **BAN**



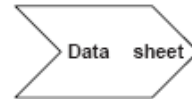
F.T 20 1301

 Consult us for availability



JTEKT
HPI

PUMPS PRESENTATION
SERIES 2 and 2,5



F.T 20 1299

- FLAT FRONT BODIES

PUMP

AAN



F.T 20 1300

PUMP

AAK



F.T 20 1329

PUMP

AFN



F.T 20 1366

PUMP

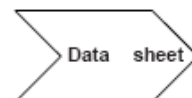
APK




F.T 20 1368

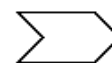
PUMP

BAN



F.T 20 1301

 Consult us for availability



JTEKT
HPI

- FLAT FRONT BODY (rest)

PUMP

CAN

F.T 20 1302

PUMP

CEN

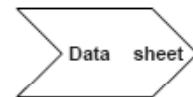
F.T 20 1303

PUMP

CEK

F.T 20 1360

PUMP

DBN

F.T 20 1304

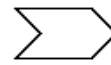
PUMP

DBK

F.T 20 1330












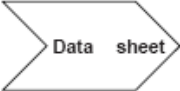


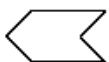
Consult us for availability




JTEKT
HPI

- FLAT FRONT BODY (rest)

PUMP	DCN		 Data sheet F.T 20 1305
PUMP	DCK		 Data sheet F.T 20 1331
PUMP	DUK		 Data sheet F.T 20 1333
PUMP	DWN		 Data sheet F.T 20 1332
PUMP	DZK		 Data sheet F.T 20 1362
MULTIPLES PUMPS			 Data sheet F.T 20 1306



 Consult us for availability

Series 2

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

Series 2,5

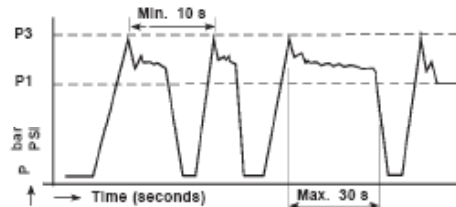
2512	12	300	4350	255	3697	3500	18	42	2,35	22,45	2,3
2515	15,52	300	4350	240	3480	3500	23,25	52,5	3,04	29,03	2,6
2517	17,3	300	4350	220	3190	3500	25,95	60,55	3,39	32,36	2,7
2518	19,12	300	4350	215	3117	3500	28,65	66,8	3,75	35,77	2,7
2522	22,87	300	4350	190	2755	3500	34,2	79,8	4,48	42,78	2,8

The pump can only run in one way rotation (Precise the direction of rotation on order).
 The working cycles hereunder are possible with hydraulic mineral oil for viscosities between 12 and 150 cSt (65,2 and 700 SUS).
 The minimum viscosity of 12 cSt (65,2 SUS) is available for a maximum temperature in the hydraulic circuit.
 Working temperature: - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C (284 °F) with Viton shaft seal).
 Full flow filtration: 10 to 15 microns at the pressure port of the pump or on the return circuit.
 Filtration on the suction side: 125 microns.
 Pressure at the inlet of the pump:
 - Minimum 0,7 bar absolute (Maxi depressure 300 millibar with regard to the air pressure).
 - Maximum 2 bar absolute or 1 bar over the air pressure.
 The hereabove characteristics concern the pumps driven by elastic couplings perfectly aligned without any external radial or axial force.
 For any other coupling, see technical data sheet F.T.R 0009.
 For use at maximum working conditions and/or intensive cycles, thanks to consult our technical sales service for validation.

P1 Maximum pressure in continuous duty.

Maximum Pressure →

P3 Allowable peak pressure.



Consult us for availability

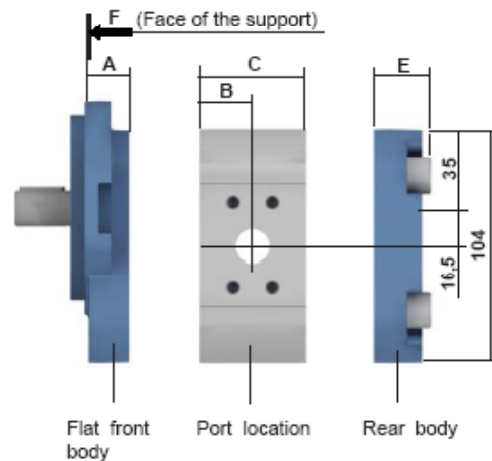


MAIN CHARACTERISTICS SERIES 2-2,5
FLAT FRONT BODY

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
2004 - 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

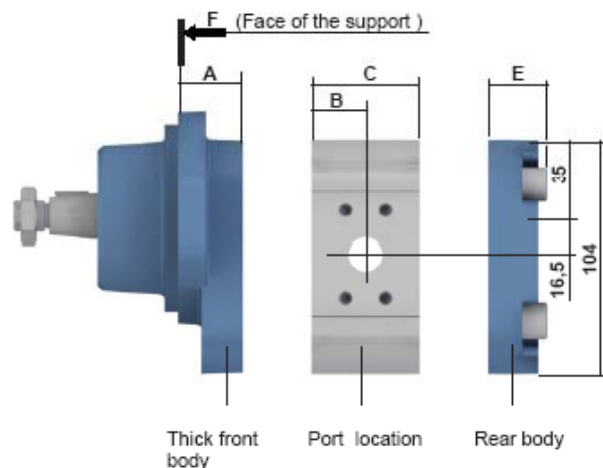
Rear bodies:	E
L	25,5
A	24,5
X - T	25,5
V - W - D	24
Q	38
R	40


THICK FRONT BODY

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

Port location (capacity):	B	C
2004 - 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	25,5
V - W - D	24
Q	38
R	40



Consult us for availability

DIRECTION OF ROTATION (II Sign)	FLAT FRONT BODIES (II and V sign)	CAPACITY (V and VI Sign)	PORT LOCATION (VII Sign)												REAR BODIES (VIII Sign)	DRAWING SHAFTS (IX, X and XI Sign)						
			P	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII								
F1	AAH / AMK		H	C	B	F	U	X	Y	L	A	X	T	V	M	Q	MS	J	TAPERED 10	STRAIGHT KEYS 20	SPLINED 30	TANG 40
F2	AAH / AMK																					
P2	AAH / AMK																					
F1	AAH / AMK	2004																				
F2	AAH / AMK	2004																				
P2	AAH / AMK	2004																				
F1	AAH / AMK	2006																				
F2	AAH / AMK	2006																				
P2	AAH / AMK	2006																				
F1	AAH / AMK	2008																				
F2	AAH / AMK	2008																				
P2	AAH / AMK	2008																				
F1	AAH / AMK	2010																				
F2	AAH / AMK	2010																				
P2	AAH / AMK	2010																				
F1	AAH / AMK	2012																				
F2	AAH / AMK	2012																				
P2	AAH / AMK	2012																				
F1	AAH / AMK	2014																				
F2	AAH / AMK	2014																				
P2	AAH / AMK	2014																				
F1	AAH / AMK	2015																				
F2	AAH / AMK	2015																				
P2	AAH / AMK	2015																				
F1	AAH / AMK	2017																				
F2	AAH / AMK	2017																				
P2	AAH / AMK	2017																				
F1	AAH / AMK	2512																				
F2	AAH / AMK	2512																				
P2	AAH / AMK	2512																				
F1	AAH / AMK	2515																				
F2	AAH / AMK	2515																				
P2	AAH / AMK	2515																				
F1	AAH / AMK	2518																				
F2	AAH / AMK	2518																				
P2	AAH / AMK	2518																				
F1	AAH / AMK	2522																				
F2	AAH / AMK	2522																				
P2	AAH / AMK	2522																				
F1	AAH / AMK	2530																				
F2	AAH / AMK	2530																				
P2	AAH / AMK	2530																				
F1	AAH / AMK	2537																				
F2	AAH / AMK	2537																				
P2	AAH / AMK	2537																				
F1	AAH / AMK	2547																				
F2	AAH / AMK	2547																				
P2	AAH / AMK	2547																				
F1	AAH / AMK	2548																				
F2	AAH / AMK	2548																				
P2	AAH / AMK	2548																				
F1	AAH / AMK	2551																				
F2	AAH / AMK	2551																				
P2	AAH / AMK	2551																				
F1	AAH / AMK	2552																				
F2	AAH / AMK	2552																				
P2	AAH / AMK	2552																				
F1	AAH / AMK	2553																				
F2	AAH / AMK	2553																				
P2	AAH / AMK	2553																				
F1	AAH / AMK	2554																				
F2	AAH / AMK	2554																				
P2	AAH / AMK	2554																				

LEGENDS

DIRECTION OF ROTATION
F1 = Clockwise
F2 = Anti clockwise

FRONT BODIES
AA = Fixing SAE and ISO
BA = Fixing English and Italian
DB = Fixing French
DC = Fixing German

PORT LOCATION
H = HPI
C = Square location
B = Italian location
F = Threaded ports
U = SAE threaded location (Norm J 473)
X = without ports
Y = ISO location (Norm 6152)



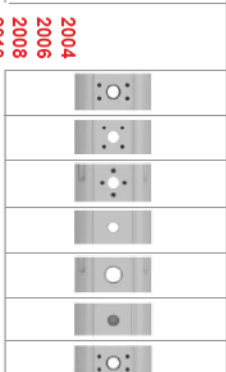
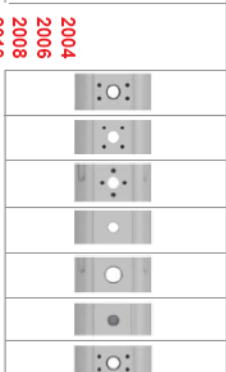


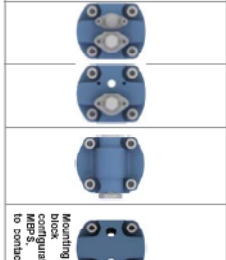
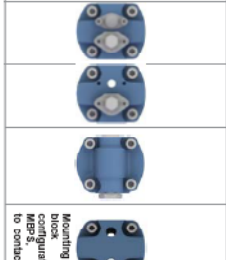
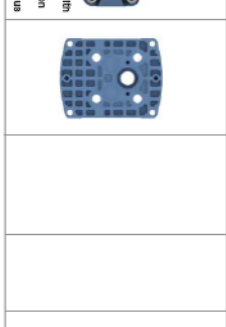
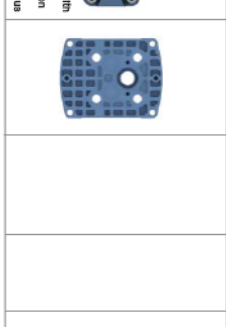


REAR BODIES
L = Standard
A = External flow control
X = High pressure relief valve - internal pressure
H = High pressure relief valve - external pressure
R = Low pressure relief valve - internal pressure
W = Low pressure relief valve - external pressure
Q = Flow control - internal return
AN = with block configuration MBPS assembly - Pre-arrangement for "Module 3" see F.T.20 1333 page 397/00



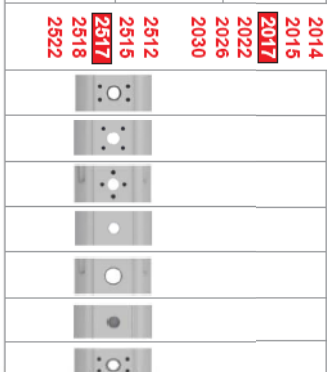
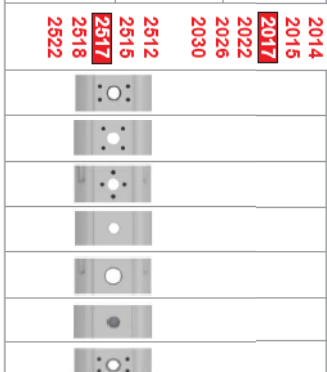
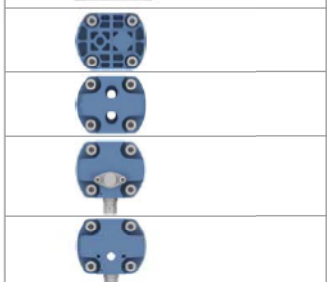
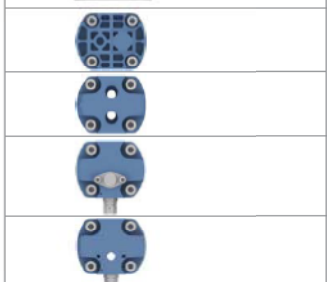
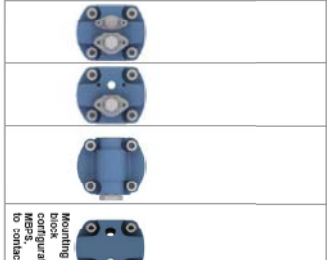
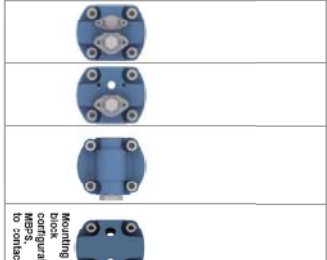
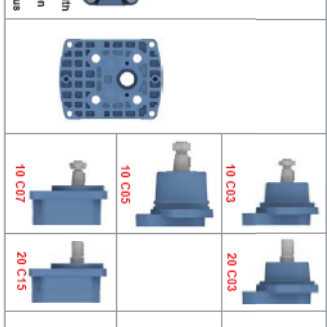
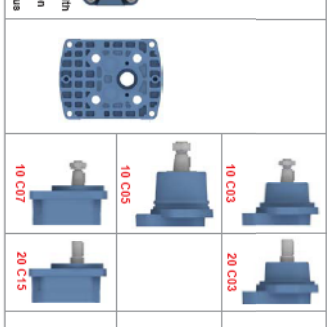


For CODIFICATION, see data sheet F.T.R.0041



DIRECTION of ROTATION (I Sign)	FRONT BODIES (III and IV Sign)	CAPACITY (IV and VI Sign)	PORT LOCATION (VII Sign)												REAR BODIES (VIII Sign)					DRIVING SHAFTS (IX, X and XI Sign)			
			H	C	B	F	U	X	Y	L	A	X	T	V	W	Q	RB	J*	TAPERED	STRAIGHT KEVED	SPLINED	TANG	
P1 P2	P	II Sign III Sign IV Sign	2	VI Sign	VII Sign	VIII Sign	IX Sign	X Sign	XI Sign	XII Sign	P	II Sign III Sign IV Sign	25	VII Sign VIII Sign IX Sign X Sign XI Sign XII Sign					10	20	30	40	

For codification, see data sheet

FRONT BODIES	THICK FRONT BODIES
	
	
	
	
	
	

FRONT BODIES	THICK FRONT BODIES
	
	
	
	
	
	

LEGENDES

DIRECTION OF ROTATION

P1 = Clockwise
P2 = Anti clockwise

FRONT BODIES

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

PORT LOCATION

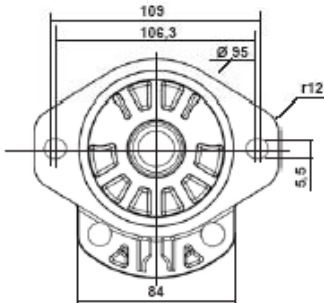
H = HPI
C = Square location
B = Italian location
F = Threaded ports
U = SAE threaded location (Norm J 475)
X = without ports
Y = ISO location (Norm 6182)

REAR BODIES

L = Standard
A = External flow control
X = High pressure relief valve - internal pressure
= High pressure relief valve - external pressure
= Low pressure relief valve - external pressure
= Low pressure relief valve - internal pressure

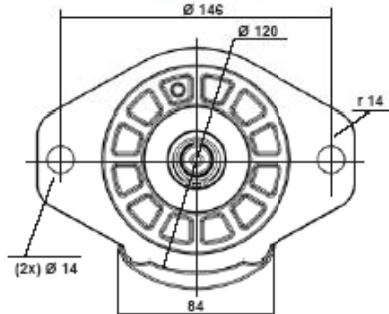
W = Low pressure relief valve - external pressure
Q = High control
Internal return
AR = with block configuration MBRS
J* = Pre-arrangement for assembling "Module 3" see F.120 1353 Page 387/00

FLAT FRONT BODIES

AAN / AAK


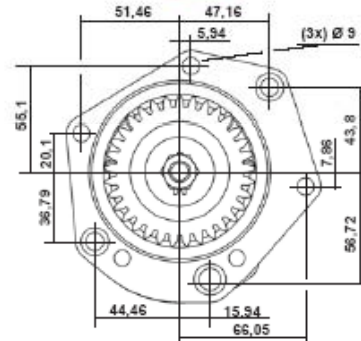
Centering: $\varnothing 82,55 \begin{smallmatrix} 0 \\ -0,05 \end{smallmatrix}$
Thickness: 6

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

AFN


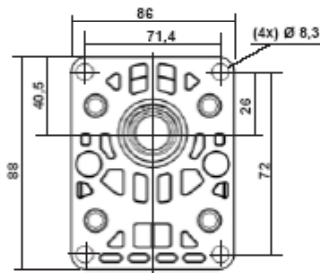
Centering: $\varnothing 101,6 \begin{smallmatrix} 0 \\ -0,05 \end{smallmatrix}$
Thickness: 6,35

AFN Serie 2 F.T 20 1366
Serie 2,5 F.T 25 1367

APK


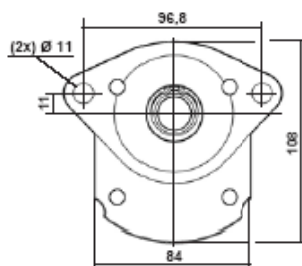
Centering: $\varnothing 95 \begin{smallmatrix} -0,036 \\ -0,071 \end{smallmatrix}$
Thickness: 10

APK Serie 2 F.T 20 1368
Serie 2,5 F.T 25 1369

BAN


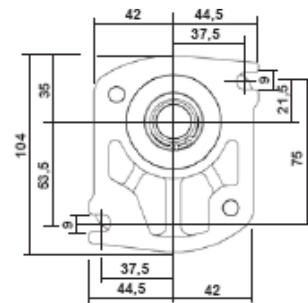
Centering: $\varnothing 36,47 \begin{smallmatrix} 0 \\ -0,05 \end{smallmatrix}$
Thickness: 4

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

CAN


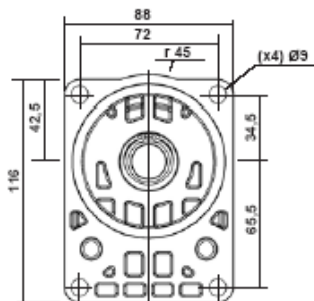
Centering: $\varnothing 63,5 \begin{smallmatrix} -0,030 \\ -0,076 \end{smallmatrix}$
Thickness: 3,2

CAN Serie 2 F.T 20 1302
Serie 2,5 F.T 25 1309

CEN / CEK


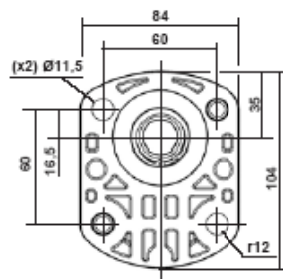
Centering: $\varnothing 50 \begin{smallmatrix} -0,025 \\ -0,050 \end{smallmatrix}$
Thickness: 4

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

DBN / DBK


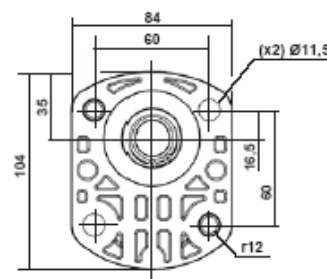
Centering: $\varnothing 80 \begin{smallmatrix} -0,030 \\ -0,050 \end{smallmatrix}$
Thickness: 8

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

DCN / DCK


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

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

DWN


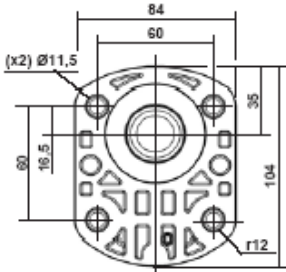
Centering: $\varnothing 50 \begin{smallmatrix} -0,025 \\ -0,050 \end{smallmatrix}$
Thickness: 6

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

Consult us for availability

FLAT FRONT BODIES

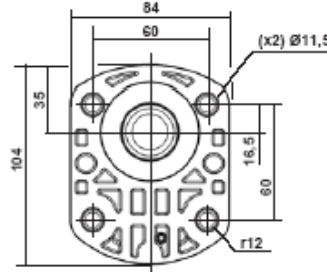
DUK



Centering: $\varnothing 52 \begin{smallmatrix} -0,020 \\ -0,060 \end{smallmatrix}$
 Thickness: 6

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

DZK

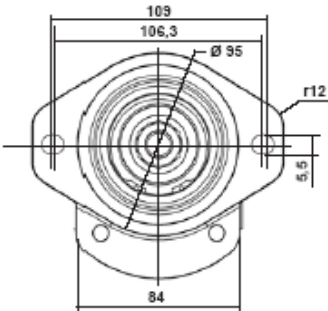


Centering: $\varnothing 52 \begin{smallmatrix} -0,020 \\ -0,060 \end{smallmatrix}$
 Thickness: 6

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

THICK FRONT BODIES

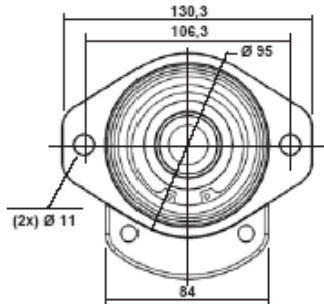
AAP / AAR



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

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

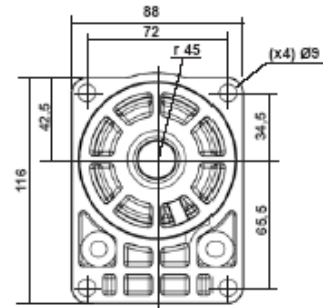
ARP / ARK



Centering: $\varnothing 85 \begin{smallmatrix} -0,026 \\ -0,071 \end{smallmatrix}$
 Thickness: 14

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

DBP / DBR



Centering: $\varnothing 80 \begin{smallmatrix} -0,02 \\ -0,06 \end{smallmatrix}$
 Thickness: 8

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

Consult us for availability

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

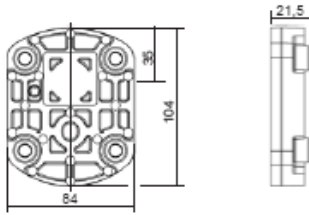
	Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
H (HPI) 	2004 to 2012 2014 to 2030 2512 to 2522	20	17,4	38	M6	12	15	17,4	38	M6	15	1 1/2" BSP N: 2.500055 V: 2.504026	3/8" BSP N: 2.500054 V: 2.505994
C (Square) 	2004 to 2012 2014 to 2030 2512 to 2522	20	40		M6	12	15	35		M6	12	1 1/2" BSP N: 367141.502	3/8" BSP N: 367141.702
B (Italian) 	2004 to 2012 2014 to 2030 2512 to 2522	15	30		M6	13	15	30		M6	13	3/8" BSP N: X.367508.201 1/2" BSP N: X.367508.202	3/8" BSP N: X.367508.201 1/2" BSP N: X.367508.202
F (Threaded) 	2004 to 2012 2014 to 2030 2512 to 2522				3/4" BSP	16				3/8" BSP	12		
U (Threaded SAE J 475) 	2004 to 2012 2014 to 2022 2512 2026-2030 2515 to 2522				1 1/16" 12 UNF 2B	20				7/8" 14 UNF 2B	17		
Y (ISO 6162) 	2004 to 2012 2014 to 2022 2512 2026-2030 2515 to 2522	20	17,4	38	M8	14	15	17,4	38	M8	14		
X (without ports) 	2004 to 2012 2512 to 2522	Only with rear body Type A											

Consult us for availability

REAR BODIES

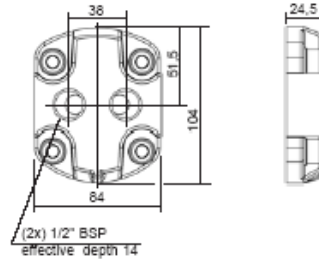
L

Standard



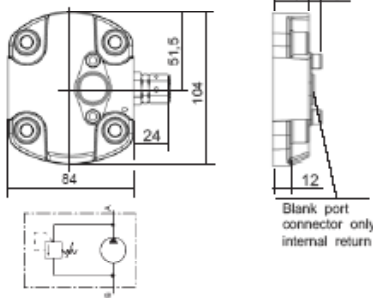
A

with ports



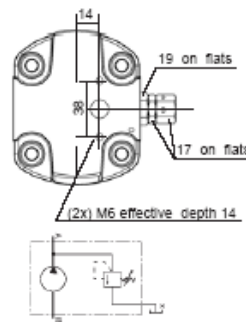
X

High pressure relief valve (Adjustable) Internal return



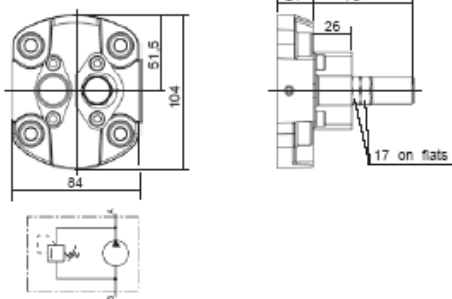
T

High pressure relief valve (Adjustable) External return



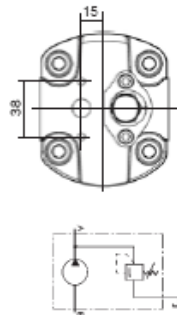
V

Low Pressure relief valve (Adjustable) Internal return



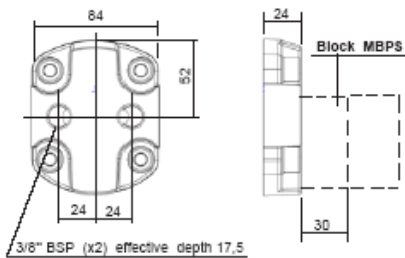
W

Low Pressure relief valve (Adjustable) External return



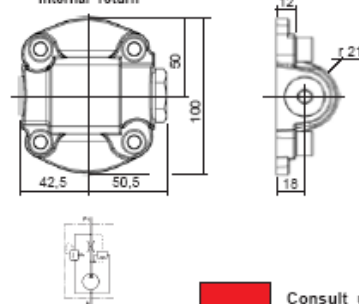
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability

DRIVING SHAFT (FLAT FRONT BODY)

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841</p> <p>Maxi transmissible torque 250 N.m</p>	<p>A01</p> <p>Maxi transmissible torque 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p>Maxi transmissible torque 100 N.m</p>	<p>C03</p> <p>Maxi transmissible torque 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p>Maxi transmissible torque 220 N.m</p>	<p>C02</p> <p>Maxi transmissible torque 50 N.m</p>	<p>C02</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p> <p>Maxi transmissible torque 100 N.m</p>	<p>D02</p> <p>Max tightening torque 70 N.m</p>
	<p>C18*</p> <p>Maxi transmissible torque 40 N.m</p> <p>* ONLY 2006 to 2012</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p>Maxi transmissible torque 100 N.m</p>	<p>Coupling on request: Ref. K102947</p>
	<p>A08</p> <p>Maxi transmissible torque 50 N.m</p>	<p>D01</p> <p>Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p>Maxi transmissible torque 100 N.m</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p>Maxi transmissible torque 100 N.m</p>

Consult us for availability



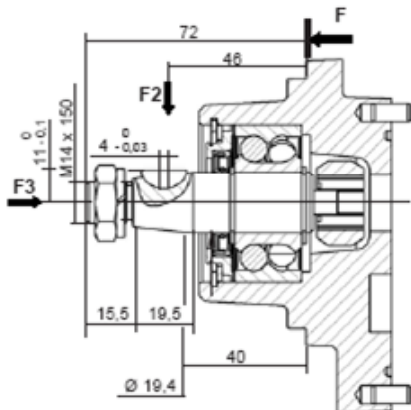
DRIVING SHAFT (THICK FRONT BODY)

Tapered

10

AAP / AAR

C03 Taper 1/5



F2 Maxi: 120 daN
F3 Maxi: 50 daN

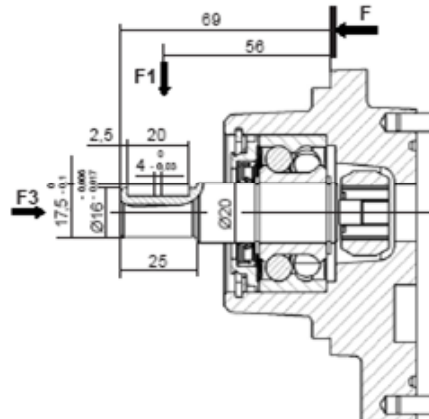
Maxi transmissible torque
50 N.m

Straight keyed

20

AAP / AAR

C03

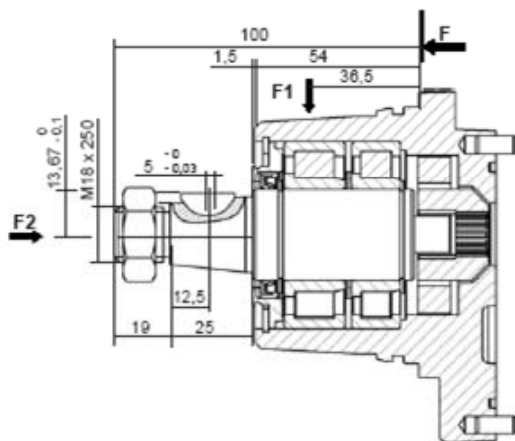


F1 Maxi: 120 daN
F3 Maxi: 50 daN

Maxi transmissible torque
50 N.m

ARP / ARK

C05 Taper 1/5



Delivered with nut: K106295

F1 Maxi: 350 daN
F2 Maxi: 50 daN

Maxi transmissible torque
70 N.m

Consult us for availability



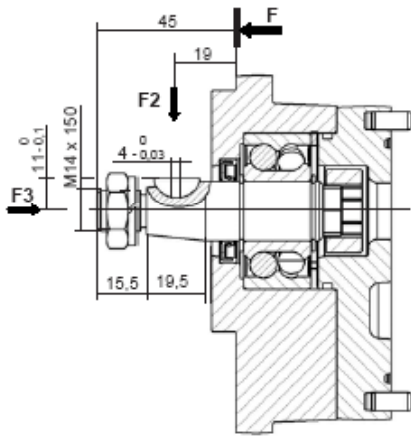
DRIVING SHAFT (THICK FRONT BODY)

Tapered

10

DBP / DBR

C07 Taper 1/5



Delivered with Nut: K102045

F2 Maxi: 120 daN

F3 Maxi: 50 daN

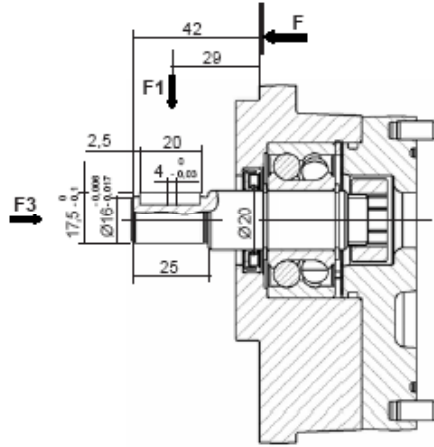
Maxi transmissible torque
50 N.m

Straight keyed

20

DBP / DBR

C15



F1 Maxi: 100 daN

F3 Maxi: 50 daN

Maxi transmissible torque
50 N.m



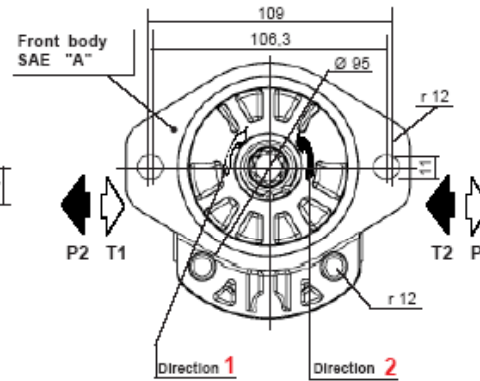
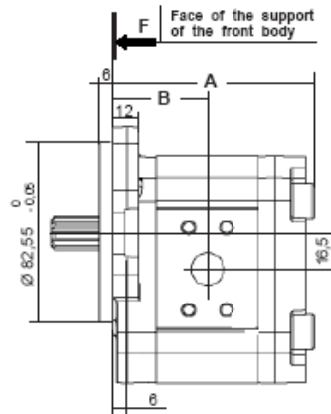
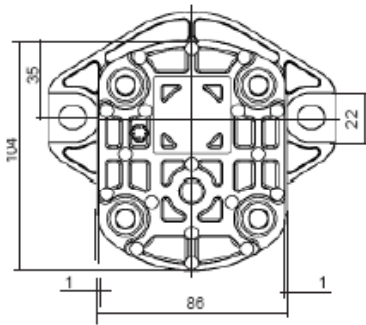
Consult us for availability

SERIES 2 TYPE AAN



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

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



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

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

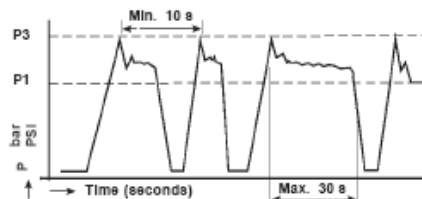
Seal kits:
Nitrile: **K5069810**
Viton: **K5069820**
(For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure →

P3 Allowable peak pressure.



 Consult us for availability



SERIES 2 TYPE AAN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

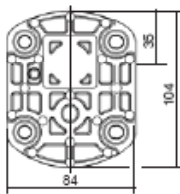
Consult us for availability

SERIES 2 TYPE AAN

REAR BODIES

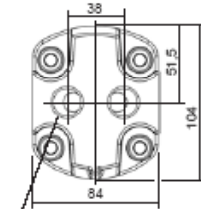
L

Standard



A

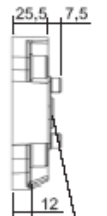
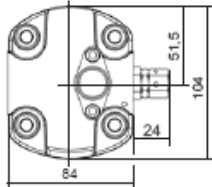
with ports



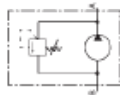
(2x) 1/2" BSP effective depth 14

X

High pressure relief valve (Adjustable) internal return

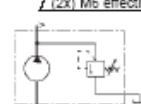
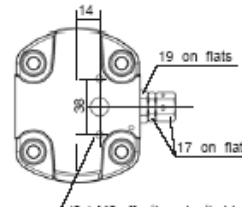


Blank port connector only internal return



T

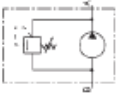
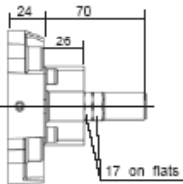
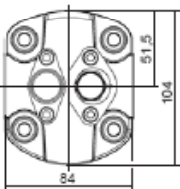
High pressure relief valve (Adjustable) External return



(2x) M6 effective depth 14

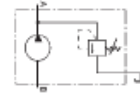
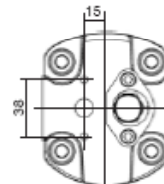
V

Low Pressure relief valve (Adjustable) Internal return



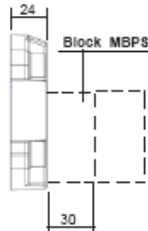
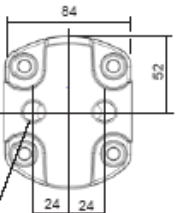
W

Low Pressure relief valve (Adjustable) External return



AR

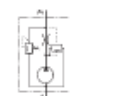
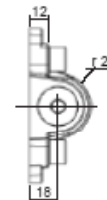
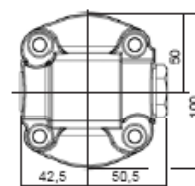
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

Q

Flow control Internal return



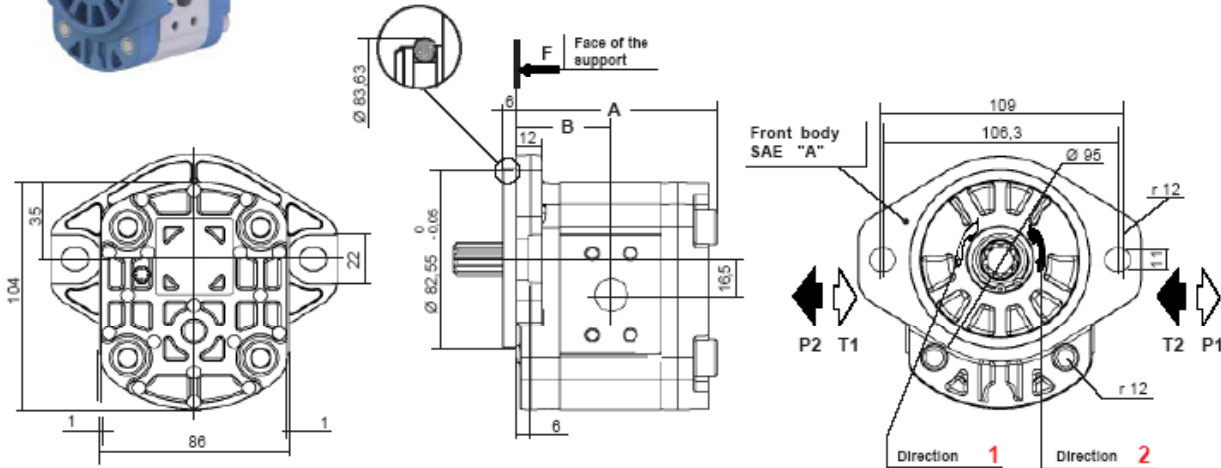
Consult us for availability

SERIES 2 TYPE AAK



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

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



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

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

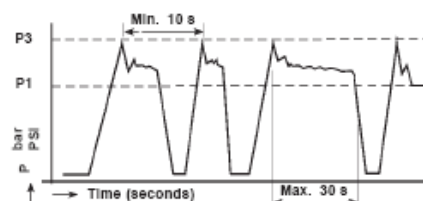
Seal kits:
Nitrile: **K5069810 + K102901**
Viton: **K5069820 + K104093**
(For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure →

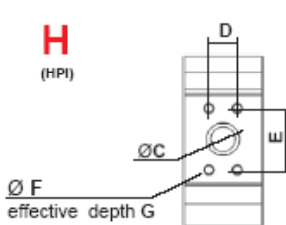
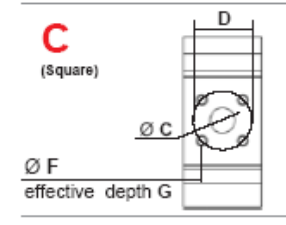
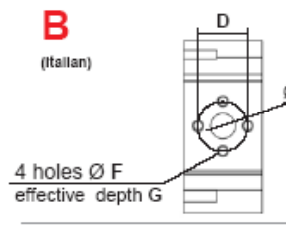
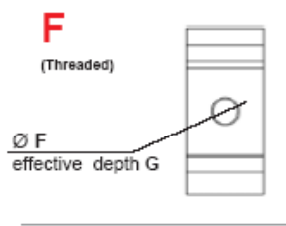
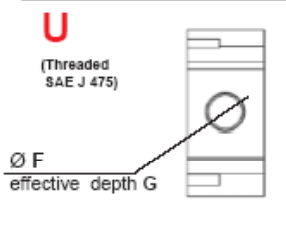
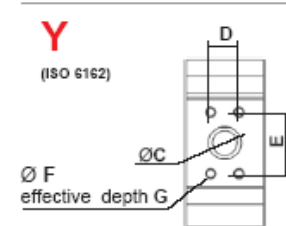
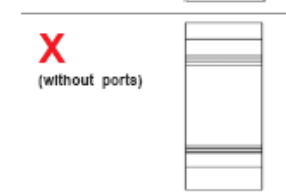


 Consult us for availability



SERIES 2 TYPE AAK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

Consult us for availability

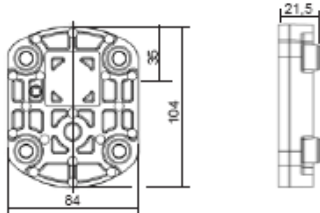



SERIES 2 TYPE AAK

REAR BODIES

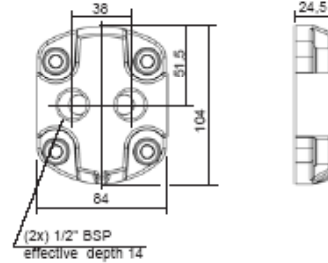
L

Standard



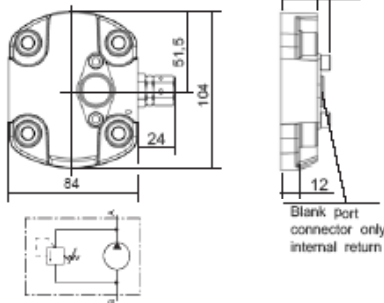
A

with ports



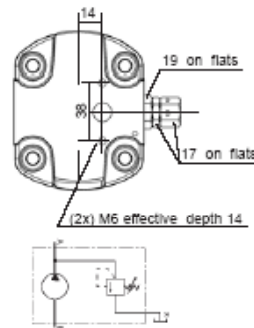
X

High pressure relief valve (Adjustable) Internal return



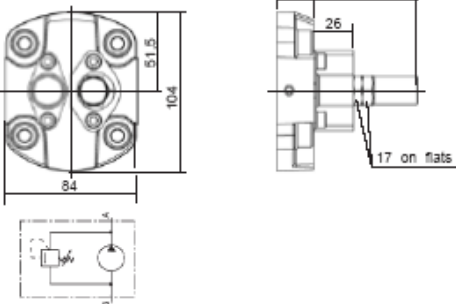
T

High pressure relief valve (Adjustable) External return



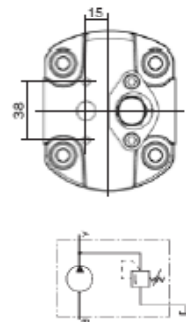
V

Low Pressure relief valve (Adjustable) Internal return



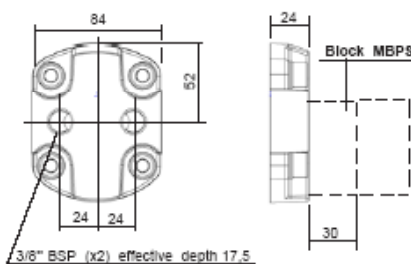
W

Low Pressure relief valve (Adjustable) External return



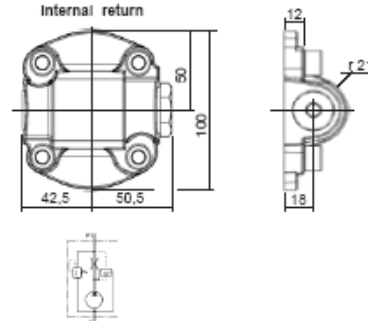
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability

SERIES 2 TYPE AAK

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splined shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>C18 *</p> <p><u>Maxi transmissible torque</u> 40 N.m</p> <p>* ONLY 2006 to 2012</p>		
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>D01</p> <p>Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

Consult us for availability

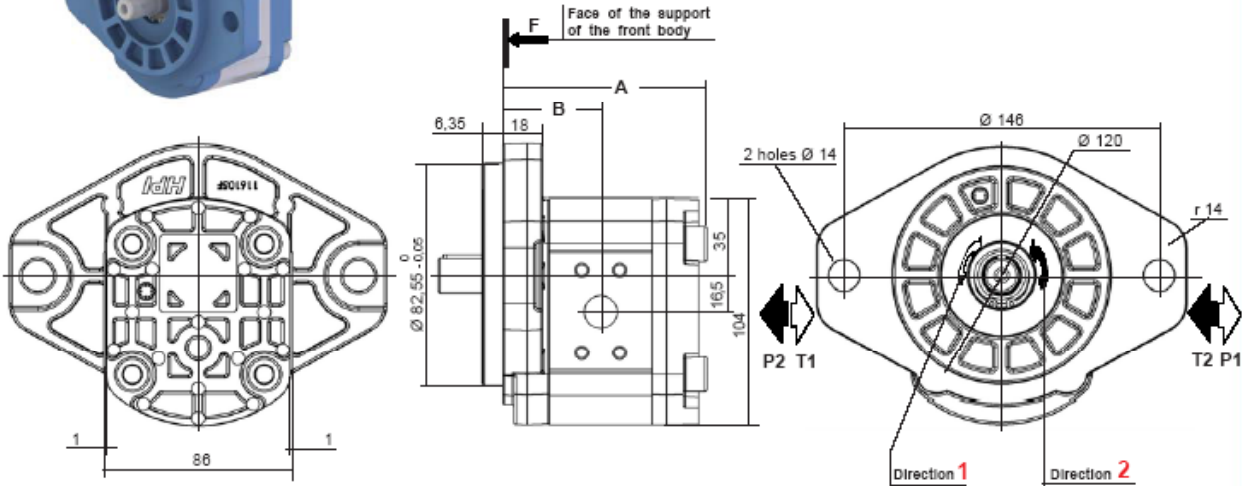


SERIES 2 TYPE AFN



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

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



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

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

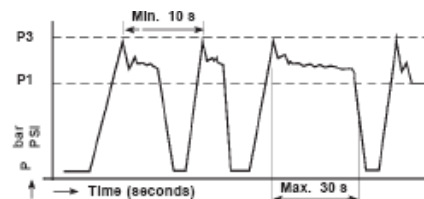
Seal kits:
Nitrile: **K5069810**
Viton: **K5069820**
(For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure →

P3 Allowable peak pressure.

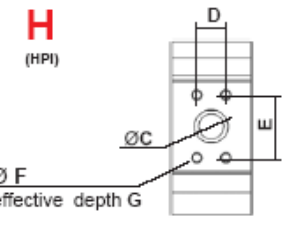
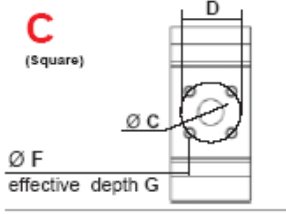
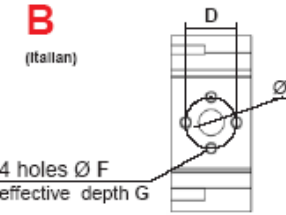
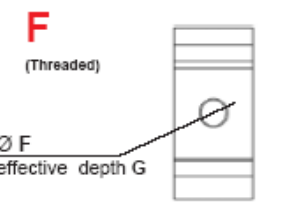
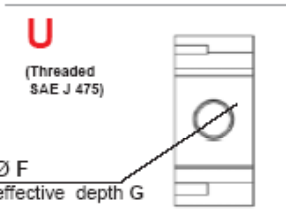
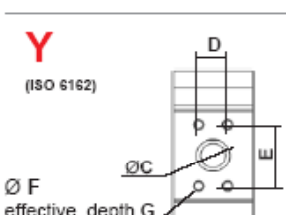



 Consult us for availability



SERIES 2 TYPE AFN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

 Consult us for availability

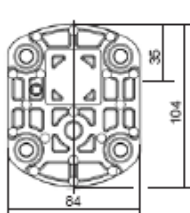
JTEKT
HPI

SERIES 2 TYPE AFN

REAR BODIES

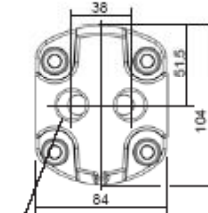
L

Standard



A

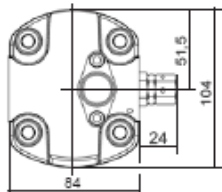
with ports



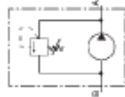
(2x) 1/2" BSP effective depth 14

X

High pressure relief valve (Adjustable) Internal return

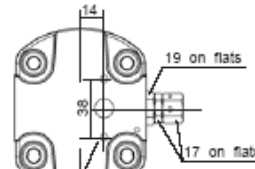


Blank port connector only internal return

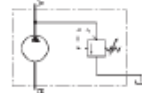


T

High pressure relief valve (Adjustable) External return

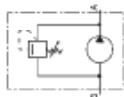
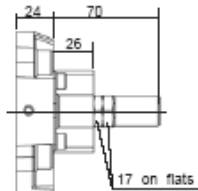
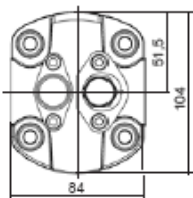


(2x) M6 effective depth 14



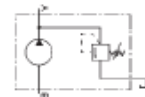
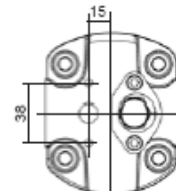
V

Low Pressure relief valve (Adjustable) internal return



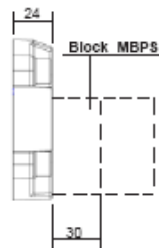
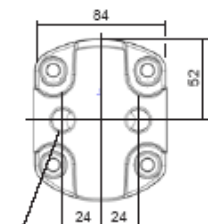
W

Low Pressure relief valve (Adjustable) External return



AR

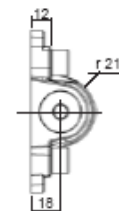
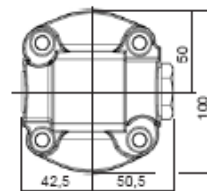
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

Q

Flow control Internal return



Consult us for availability

SERIES 2 TYPE AFN

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100R21</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle <u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splined shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks <u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>C18 *</p> <p><u>Maxi transmissible torque</u> 40 N.m</p> <p>* ONLY 2006 to 2012</p>		
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>D01</p> <p>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</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle <u>Maxi transmissible torque</u> 100 N.m</p>

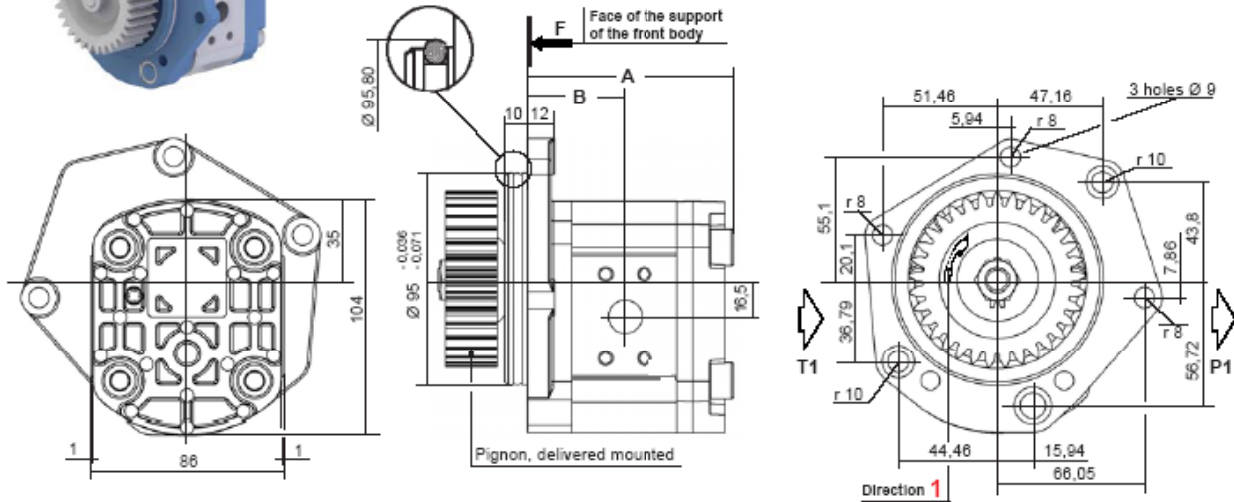
Consult us for availability



SERIES 2 TYPE APK



P 1 A P K 2 | VI Sign | **H L P P100 *** | XI Sign
 For CODIFICATION, see data sheet **F.T R 0011**



CHOICE of the PIGNONS

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

CHOICE of the Capacity

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

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

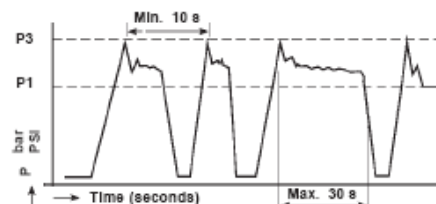
Seal kits:
 Nitrile: **K5069810 - X368928**
 Viton: **K5069820**
 (For the manufacturings from January 1994)

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

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure →



Consult us for availability



SERIES 2 TYPE APK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

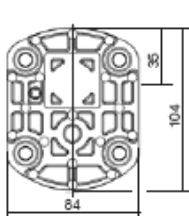
Consult us for availability **JTEKT**
HPI

SERIES 2 TYPE APK

REAR BODIES

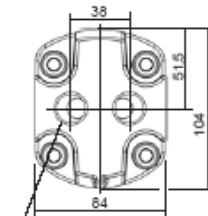
L

Standard



A

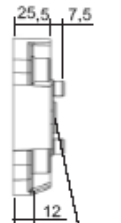
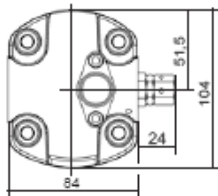
with ports



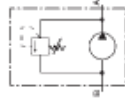
(2x) 1/2" BSP effective depth 14

X

High pressure relief valve (Adjustable) Internal return

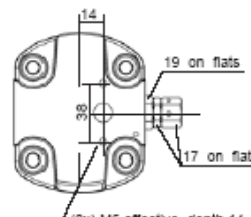


Blank port connector only internal return



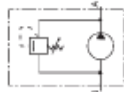
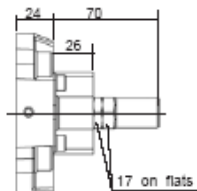
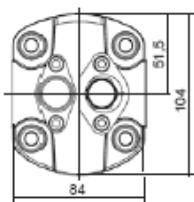
T

High pressure relief valve (Adjustable) External return



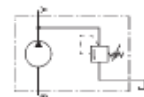
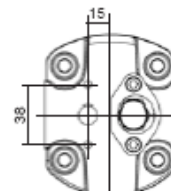
V

Low Pressure relief valve (Adjustable) Internal return



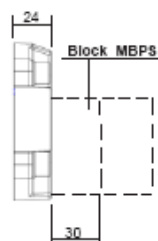
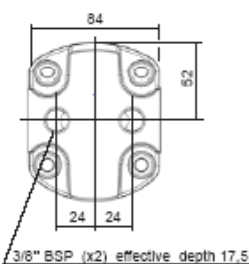
W

Low Pressure relief valve (Adjustable) External return



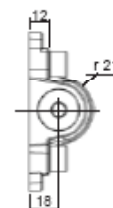
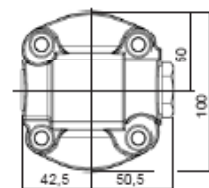
AR

with block configuration MBPS



Q

Flow control Internal return



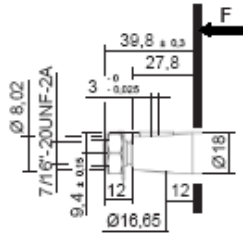
Consult us for availability

SERIES 2 TYPE APK

DRIVING SHAFT

Tapered	Straight keyed	Splined	Tang
10	20	30	40

B02 Taper 1 / 8



Supplied with nut: 100 841

Maxi transmissible torque

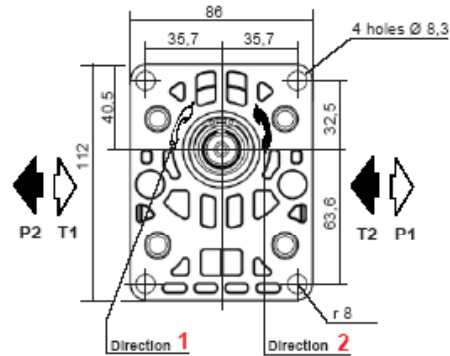
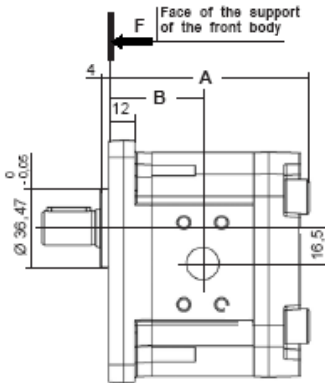
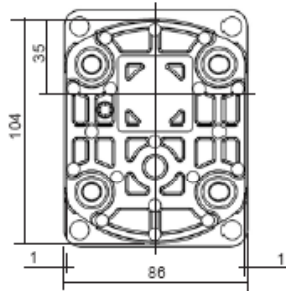
250 N.m

SERIES 2 TYPE BAN



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

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



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

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

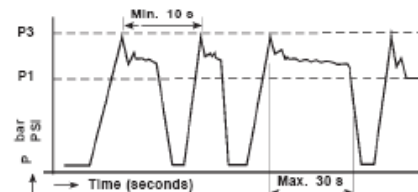
Seal kits:
Nitrile: **K5069810**
Viton: **K5069820**
(For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure →

P3 Allowable peak pressure.



Consult us for availability



SERIES 2 TYPE BAN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

Consult us for availability

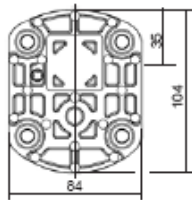


SERIES 2 TYPE BAN

REAR BODIES

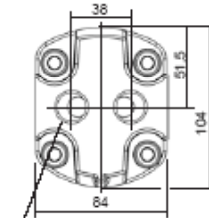
L

Standard



A

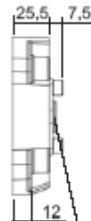
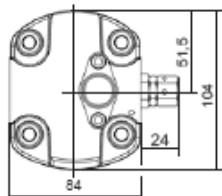
with ports



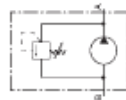
(2x) 1/2" BSP effective depth 14

X

High pressure relief valve (Adjustable) Internal return

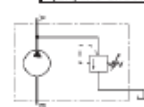
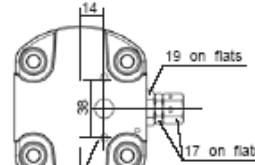


Blank port connector only internal return



T

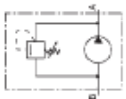
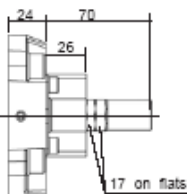
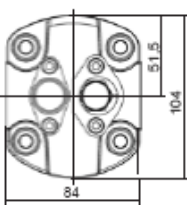
High pressure relief valve (Adjustable) External return



(2x) M6 effective depth 14

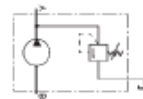
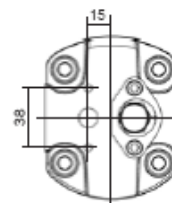
V

Low Pressure relief valve (Adjustable) Internal return



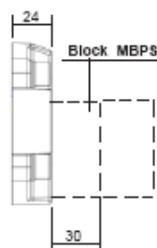
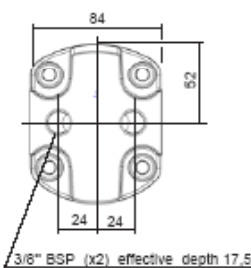
W

Low Pressure relief valve (Adjustable) External return



AR

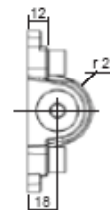
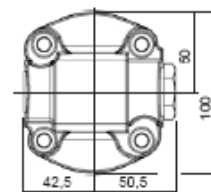
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

Q

Flow control Internal return



Consult us for availability

SERIES 2 TYPE BAN

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1 / 8</p> <p>Delivered with nut: K100841 Maxi transmissible torque 250 N.m</p>	<p>A01</p> <p>Maxi transmissible torque 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle Maxi transmissible torque 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splinned shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p>Maxi transmissible torque 70 N.m</p>
<p>C02 Cône 1 / 5</p> <p>Delivered with nut: K106317 Maxi transmissible torque 220 N.m</p>	<p>C02</p> <p>Maxi transmissible torque 50 N.m</p>	<p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks Maxi transmissible torque 100 N.m</p>	
	<p>C18 *</p> <p>Maxi transmissible torque 40 N.m</p> <p>* ONLY 2006 to 2012</p>		
	<p>A08</p> <p>Maxi transmissible torque 50 N.m</p>	<p>D01</p> <p>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</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle Maxi transmissible torque 100 N.m</p>

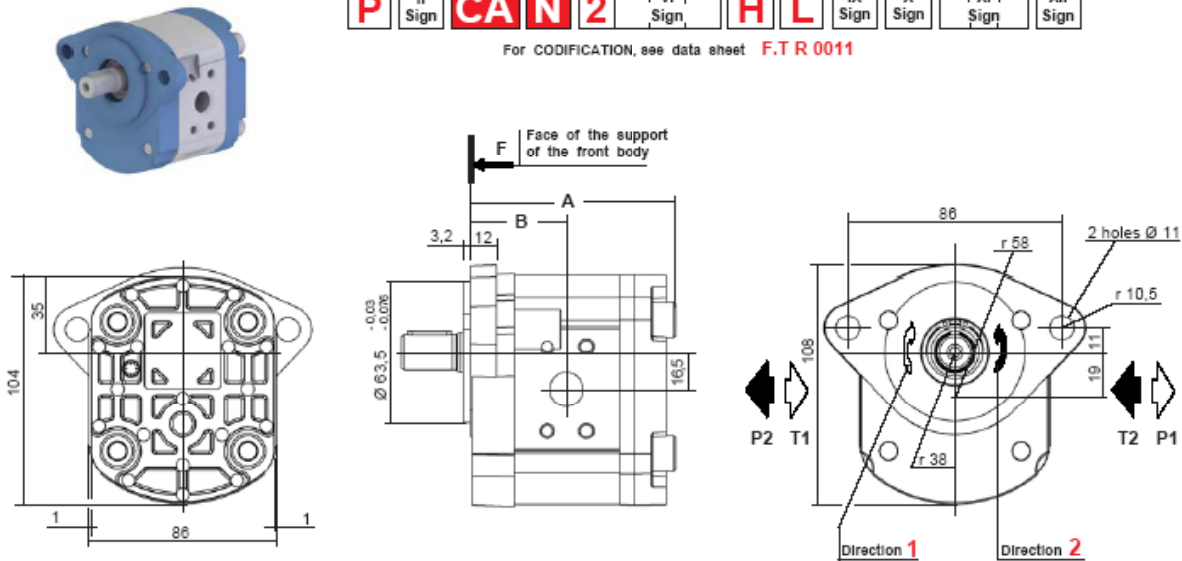
Consult us for availability



SERIES 2 TYPE CAN

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

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



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

Multiple geared pumps.
see data sheet **F.T 20 1306**

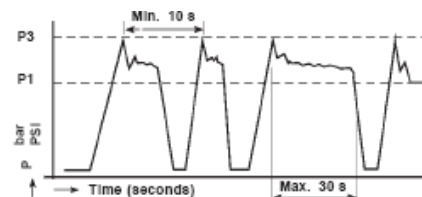
Seal kits:
Nitrile: **K5069810**
Viton: **K5069820**
(For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure →



 Consult us for availability



SERIES 2 TYPE CAN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

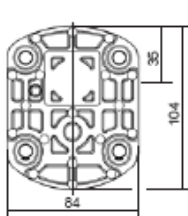
	Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
H (HPI) effective depth G	2004 to 2012	20	17,4	38	M6	12	15	17,4	38	M6	15	1/2" BSP N: 2.500055 V: 2.504126	3/8" BSP N: 2.500054 V: 2.505994
	2014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

SERIES 2 TYPE CAN

REAR BODIES

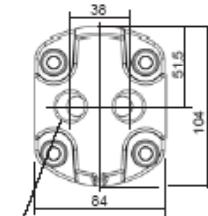
L

Standard



A

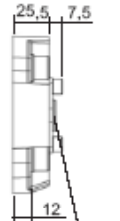
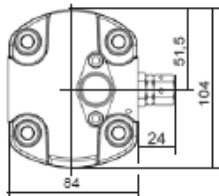
with ports



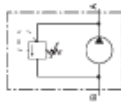
(2x) 1/2" BSP effective depth 14

X

High pressure relief valve (Adjustable) Internal return

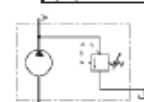
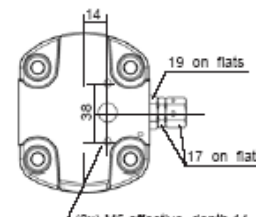


Blank port connector only internal return



T

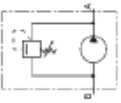
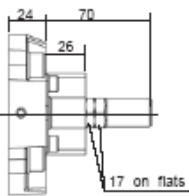
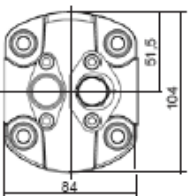
High pressure relief valve (Adjustable) External return



(2x) M6 effective depth 14

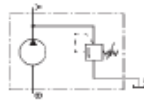
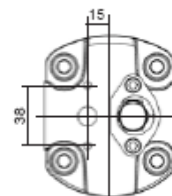
V

Low Pressure relief valve (Adjustable) Internal return



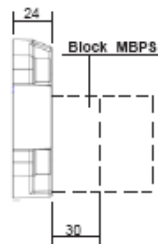
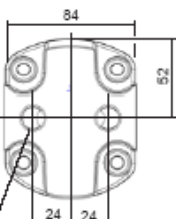
W

Low Pressure relief valve (Adjustable) External return



AR

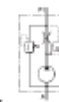
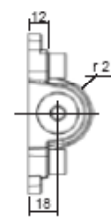
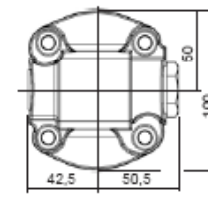
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

Q

Flow control Internal return



Consult us for availability



SERIES 2 TYPE CAN

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100641</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 3 teeth - Pitch 16/32 - Flat root 30° Pressure angle <u>Maxi transmissible torque</u> 100 N.m</p> <p>Sieve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splinned shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks <u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>C18 *</p> <p><u>Maxi transmissible torque</u> 40 N.m</p> <p>* ONLY 2006 to 2012</p>		
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>D01</p> <p>Involute spline shaft B 17 x 14 5 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks <u>Maxi transmissible torque</u> 100 N.m</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle <u>Maxi transmissible torque</u> 100 N.m</p>

Consult us for availability

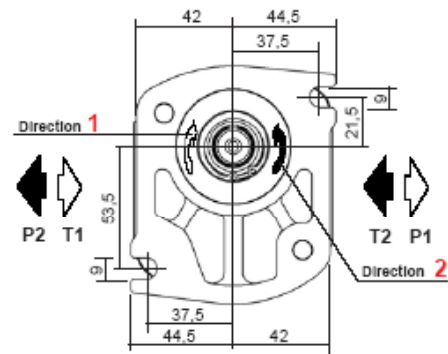
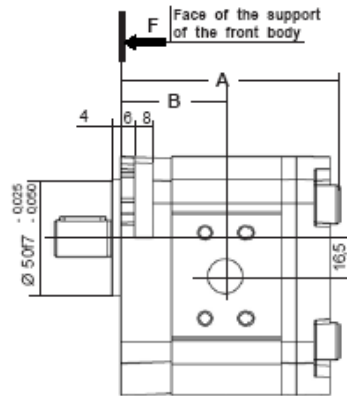
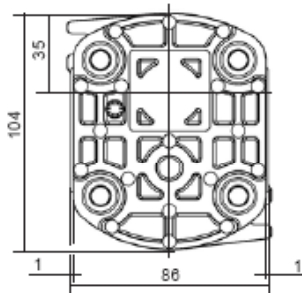


SERIES 2 TYPE CEN



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

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



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

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

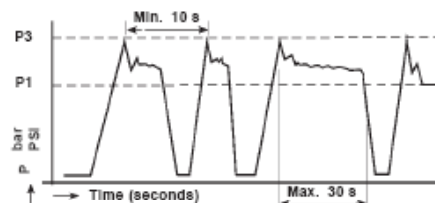
Seal kits:
Nitrile: **K5069810**
Viton: **K5069820**
(For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure →

P3 Allowable peak pressure.



 Consult us for availability



SERIES 2 TYPE CEN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

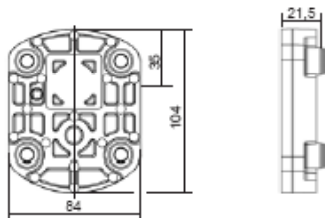
JTEKT
Consult us for availability

SERIES 2 TYPE CEN

REAR BODIES

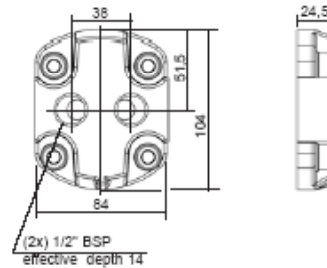
L

Standard



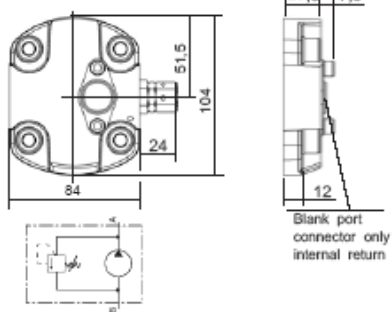
A

with ports



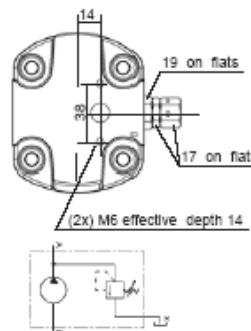
X

High pressure relief valve
(Adjustable) Internal return



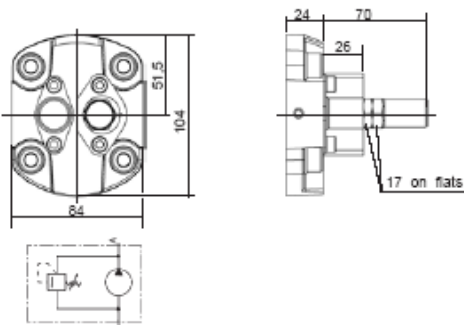
T

High pressure relief valve
(Adjustable) External return



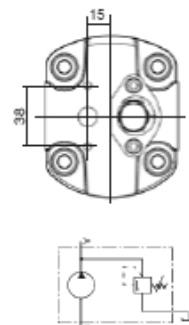
V

Low Pressure relief valve
(Adjustable) Internal return



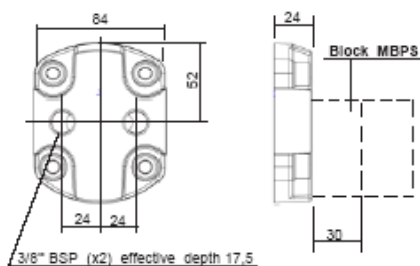
W

Low Pressure relief valve
(Adjustable) External return



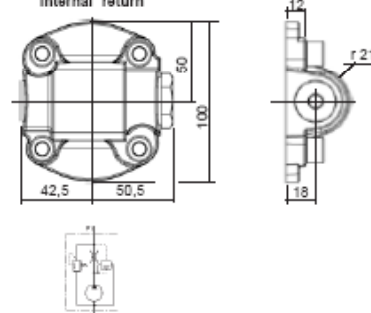
AR

with block configuration MBPS



Q

Flow control
Internal return



Consult us for availability

SERIES 2 TYPE CEN

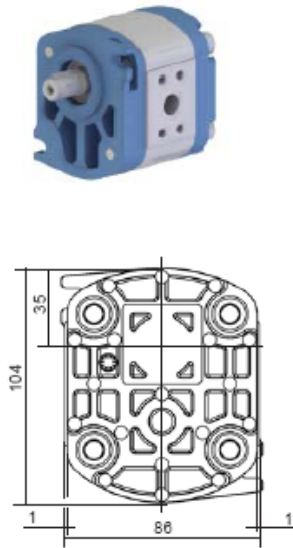
DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splined shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>C18 *</p> <p><u>Maxi transmissible torque</u> 40 N.m</p> <p>* ONLY 2006 to 2012</p>		
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>D01</p> <p>Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

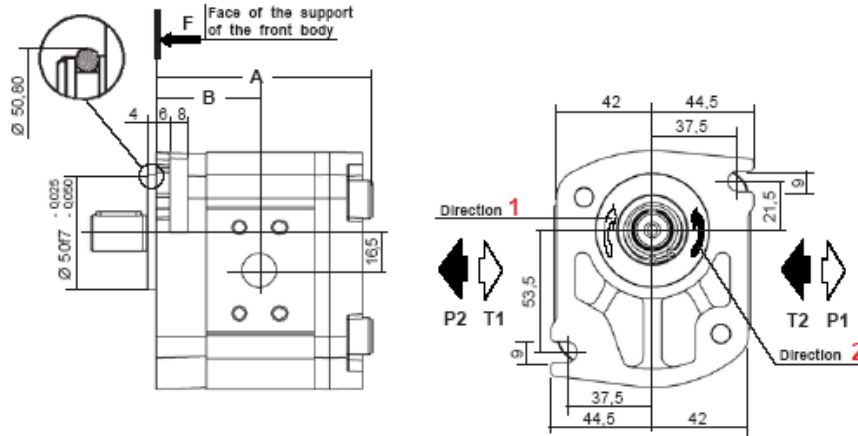
Consult us for availability



SERIES 2 TYPE CEK



P II Sign **CEK 2** VI Sign **HL** IX Sign X Sign XI Sign XII Sign
 For CODIFICATION, see data sheet **F.T.R 0011**



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

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

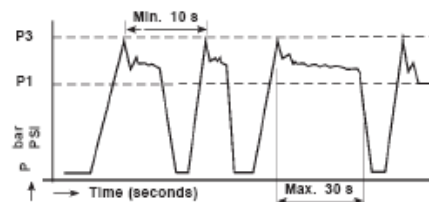
Seal kits:
 Nitrile: **K5069810 + K102238**
 Viton: **K5069820**
 (For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure →

P3 Allowable peak pressure.



 Consult us for availability



SERIES 2 TYPE CEK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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



JTEKT

Consult us for availability

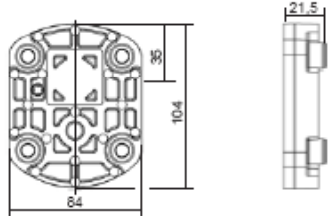


SERIES 2 TYPE CEK

REAR BODIES

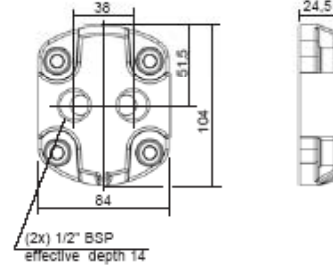
L

Standard



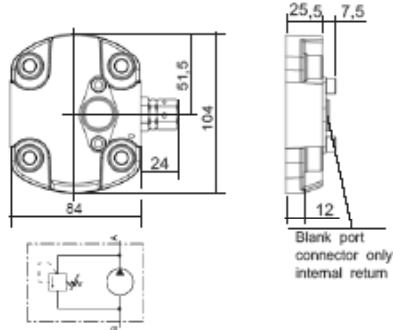
A

with ports



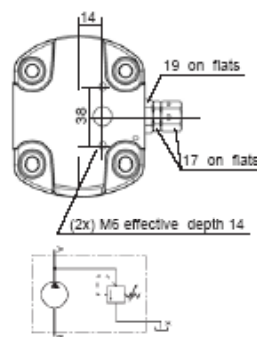
X

High pressure relief valve (Adjustable) Internal return



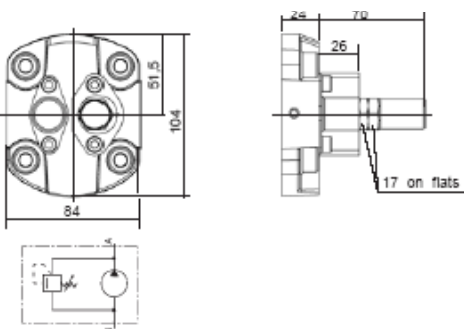
T

High pressure relief valve (Adjustable) External return



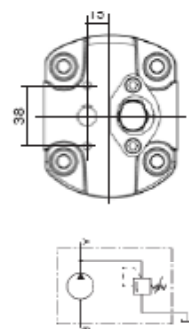
V

Low Pressure relief valve (Adjustable) Internal return



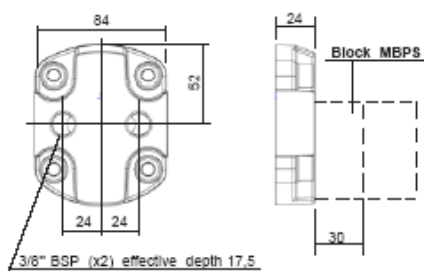
W

Low Pressure relief valve (Adjustable) External return



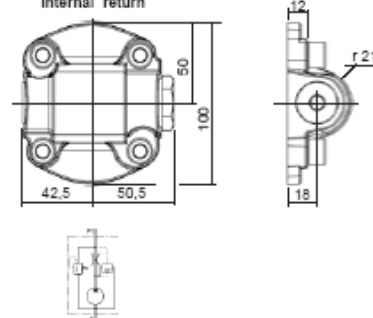
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability

SERIES 2 TYPE CEK

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 5 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 5 teeth / 13 teeth Ref.: K.5041310 Mounting with splined shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K105317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>C18 *</p> <p><u>Maxi transmissible torque</u> 40 N.m</p> <p>* ONLY 2006 to 2012</p>		
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>D01</p> <p>Involute spline shaft B 17 x 14 5 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

Consult us for availability

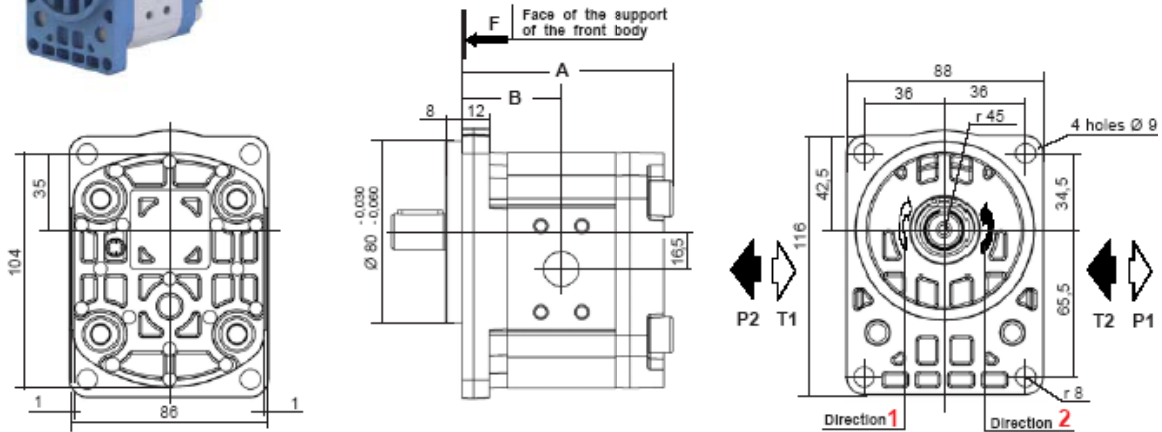


SERIES 2 TYPE DBN



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

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



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

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

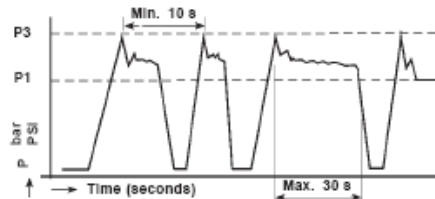
Seal kits:
Nitrile: **K5069810**
Viton: **K5069820**
(For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure →

P3 Allowable peak pressure.



 Consult us for availability



SERIES 2 TYPE DBN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

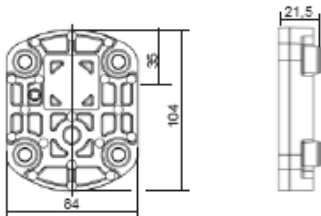
JTEKT
 Consult us for availability

SERIES 2 TYPE DBN

REAR BODIES

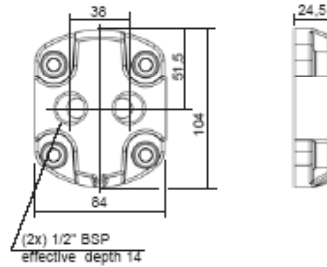
L

Standard



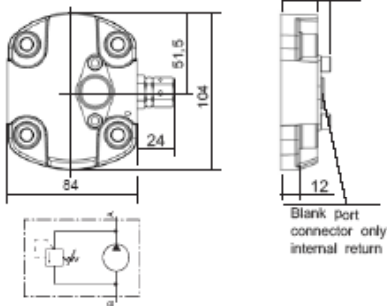
A

with ports



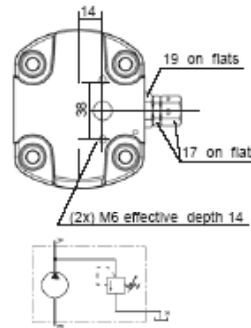
X

High pressure relief valve (Adjustable) Internal return



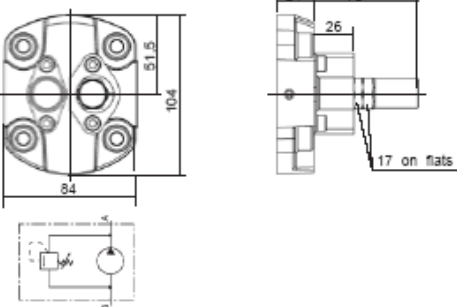
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High pressure relief valve (Adjustable) External return



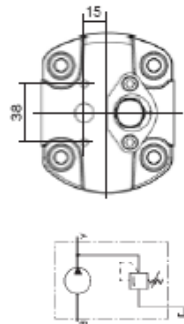
V

Low Pressure relief valve (Adjustable) Internal return



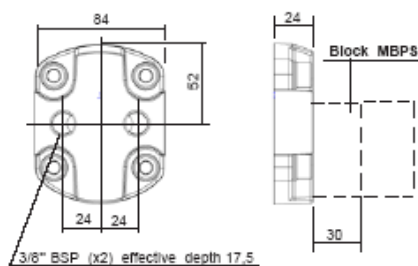
W

Low Pressure relief valve (Adjustable) External return



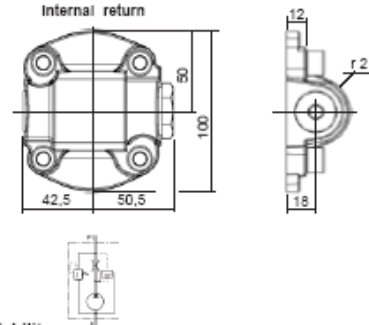
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability

SERIES 2 TYPE DBN

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K10D841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splined shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>C18 *</p> <p><u>Maxi transmissible torque</u> 40 N.m</p> <p>* ONLY 2006 to 2012</p>		
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>D01</p> <p>Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

Consult us for availability

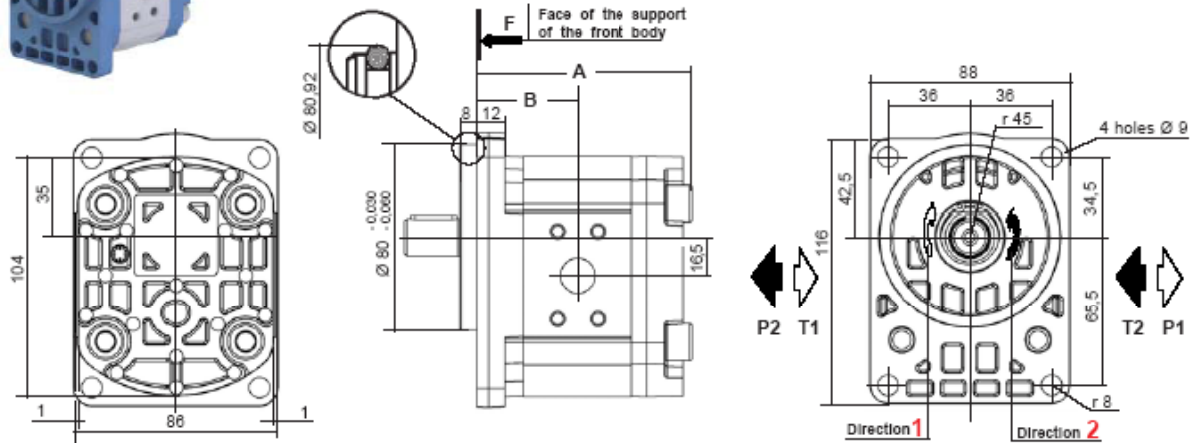


SERIES 2 TYPE DBK



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

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



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

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

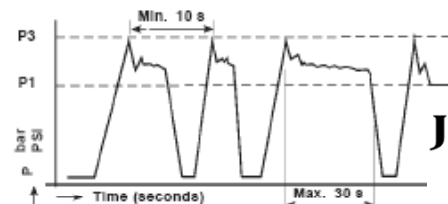
Seal kits:
Nitrile: **K5069810 - K101517**
Viton: **K5069820 - K104406**
(For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure →

P3 Allowable peak pressure.



Consult us for availability



SERIES 2 TYPE DBK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

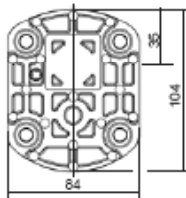
JTEKT
Consult us for availability

SERIES 2 TYPE DBK

REAR BODIES

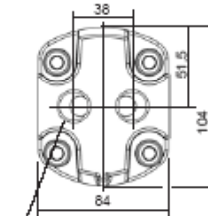
L

Standard



A

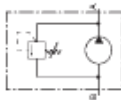
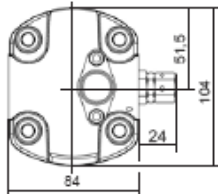
with ports



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

X

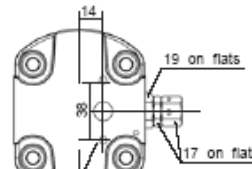
High pressure relief valve (Adjustable) Internal return



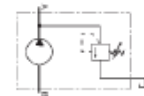
Blank port connector only internal return

T

High pressure relief valve (Adjustable) External return

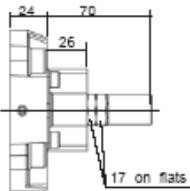
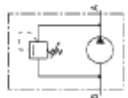
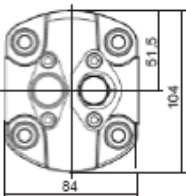


(2x) M6 effective depth 14



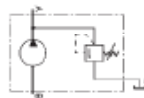
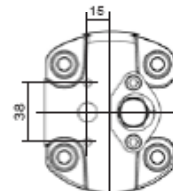
V

Low Pressure relief valve (Adjustable) Internal return



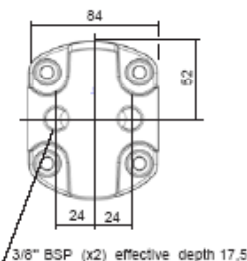
W

Low Pressure relief valve (Adjustable) External return

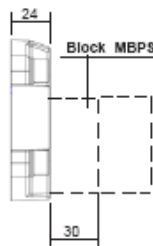


AR

with block configuration MBPS

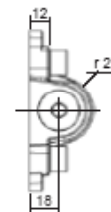
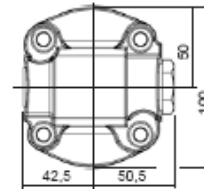


3/8" BSP (x2) effective depth 17.5



Q

Flow control Internal return



Consult us for availability

SERIES 2 TYPE DBK

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splined shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	
	<p>C18 *</p> <p><u>Maxi transmissible torque</u> 40 N.m</p> <p>* ONLY 2006 to 2012</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>D01</p> <p>Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

Consult us for availability

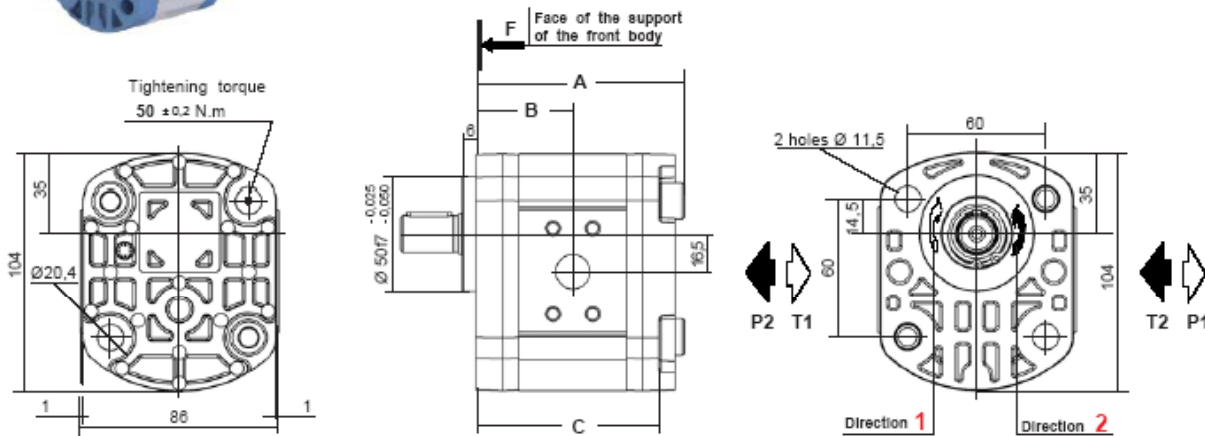


SERIES 2 TYPE DCN



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

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



Tightening torque
50 ± 0.2 N.m

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

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

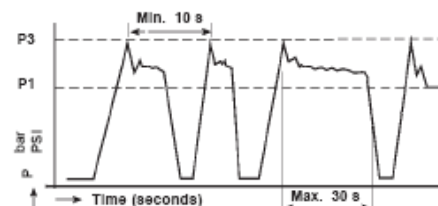
Seal kits:
Nitrile: **K5063830**
Viton: **K5063820**
(For the manufacturings
from January 1984)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



 Consult us for availability

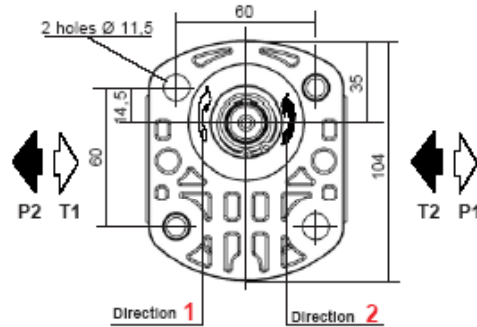
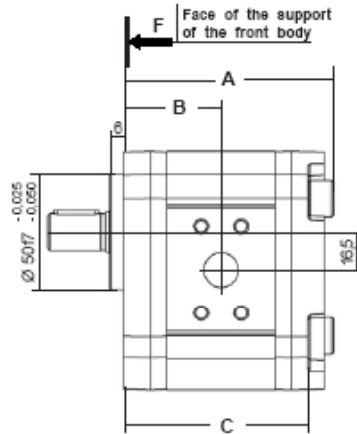
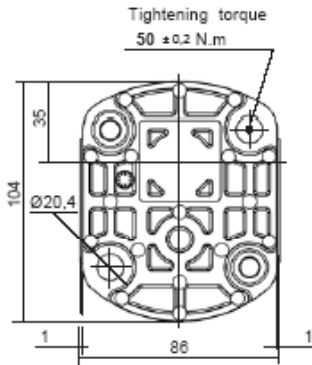


SERIES 2 TYPE DCN



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

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



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

Multiple geared pumps.
see data sheet **F.T 20 1306**

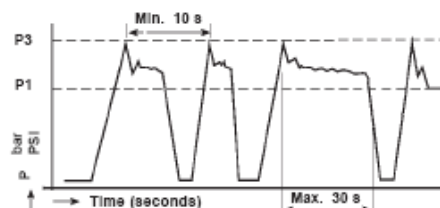
Seal kits:
Nitrile: **K5063630**
Viton: **K5063620**
(For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



 Consult us for availability

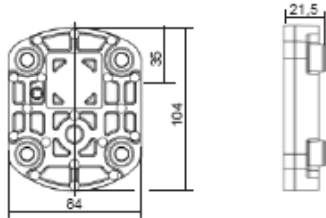


SERIES 2 TYPE DCN

REAR BODIES

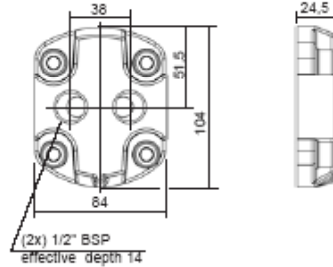
L

Standard



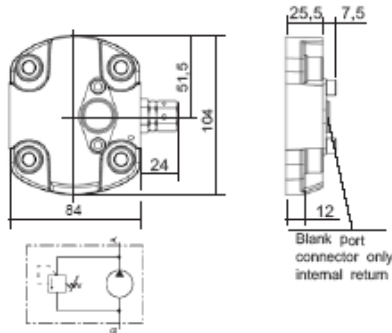
A

with ports



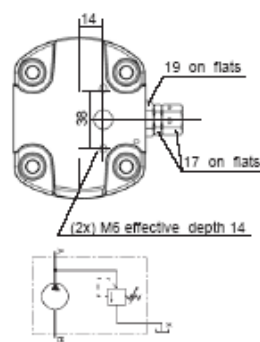
X

High pressure relief valve (Adjustable) internal return



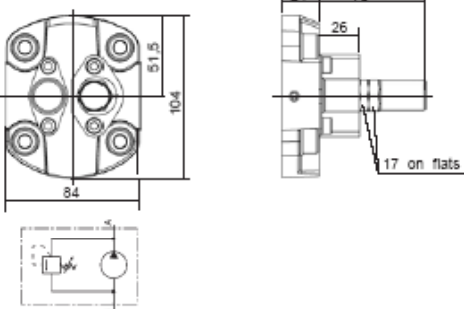
T

High pressure relief valve (Adjustable) External return



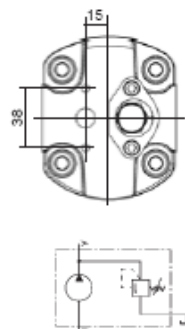
V

Low Pressure relief valve (Adjustable) internal return



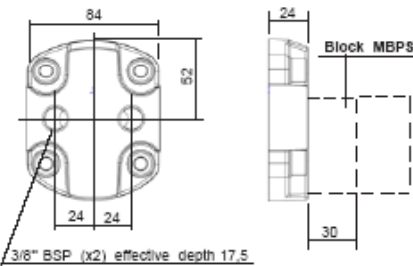
W

Low Pressure relief valve (Adjustable) External return



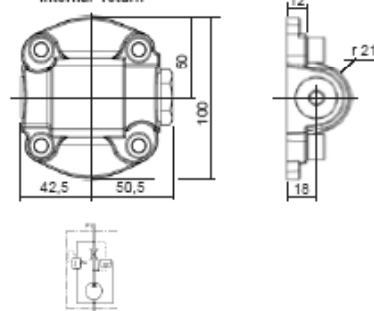
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability



SERIES 2 TYPE DCN

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splined shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>C18 *</p> <p><u>Maxi transmissible torque</u> 40 N.m</p> <p>* ONLY 2006 to 2012</p>		
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>D01</p> <p>Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

Consult us for availability

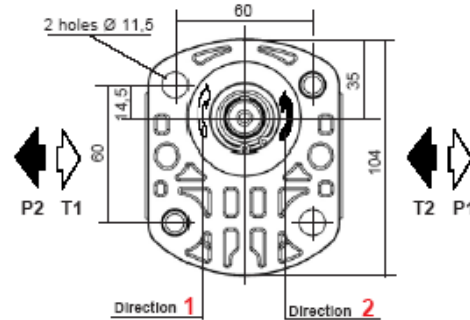
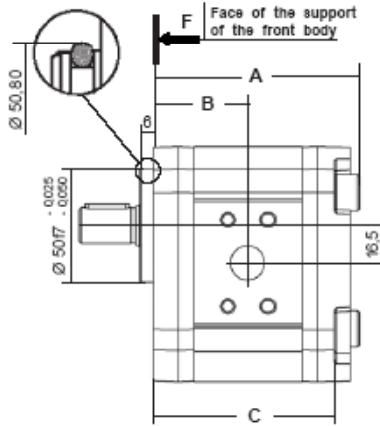
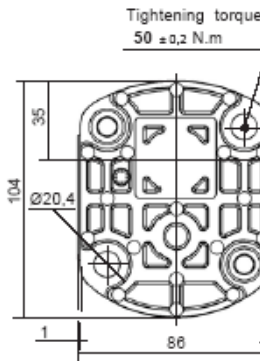


SERIES 2 TYPE DCK



P II Sign **DC K 2** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

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



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

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

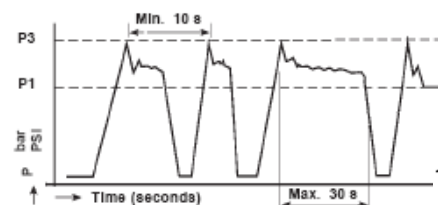
Seal kits:
Nitrile: **K5069890 + K101513**
Viton: **K5069820 + K101326**
(For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability



SERIES 2 TYPE DCK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

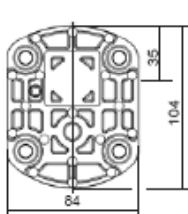
Consult us for availability

SERIES 2 TYPE DCK

REAR BODIES

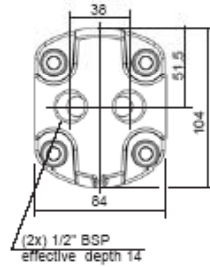
L

Standard



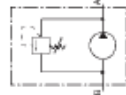
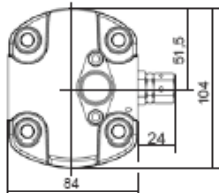
A

with ports



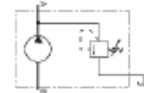
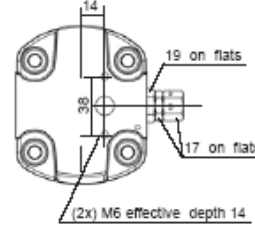
X

high pressure relief valve (Adjustable) Internal return



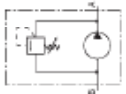
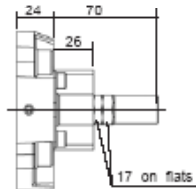
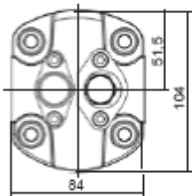
T

high pressure relief valve (Adjustable) External return



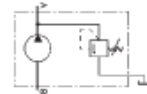
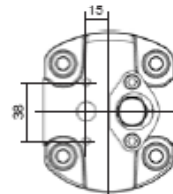
V

Low Pressure relief valve (Adjustable) internal return



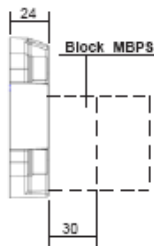
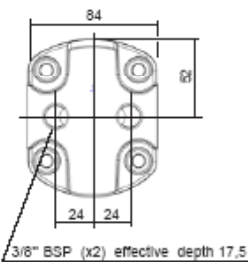
W

Low Pressure relief valve (Adjustable) External return



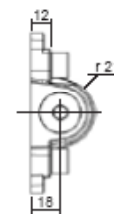
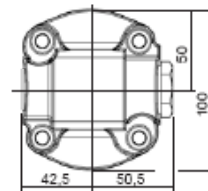
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability

SERIES 2 TYPE DCK

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splinned shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>C18 *</p> <p><u>Maxi transmissible torque</u> 40 N.m</p> <p>* ONLY 2006 to 2012</p>		
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>D01</p> <p>Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

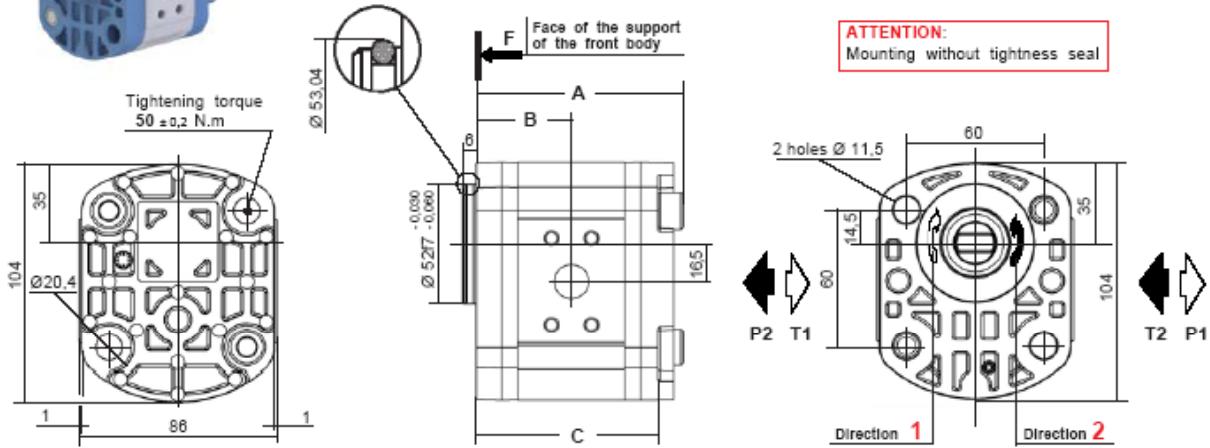
Consult us for availability



SERIES 2 TYPE DUK



P II Sign **DU K 2** VI Sign **H L 4 0 D 02** XII Sign
 For CODIFICATION, see data sheet **F.T R 0011**



ATTENTION:
 Mounting without tightness seal

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

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

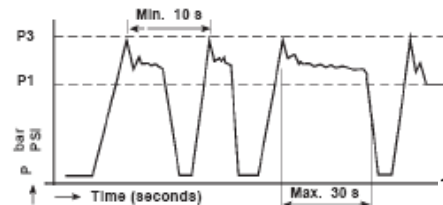
Seal kits:
 Nitrile: **K5069830 + K102539**
 Viton: **K5069840 + K107013**
 (For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability



SERIES 2 TYPE DUK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

Consult us for availability

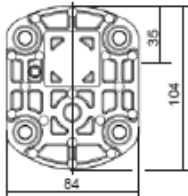


SERIES 2 TYPE DUK

REAR BODIES

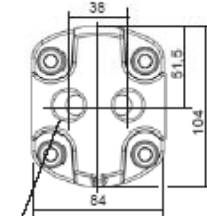
L

Standard



A

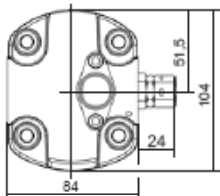
with ports



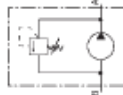
(2x) 1/2" BSP effective depth 14

X

high pressure relief valve (Adjustable) Internal return

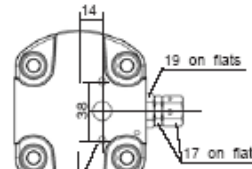


Blank port connector only internal return

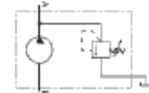


T

high pressure relief valve (Adjustable) External return

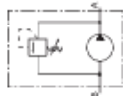
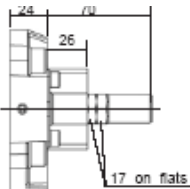
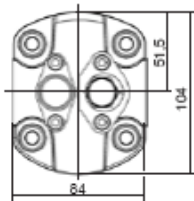


(2x) M6 effective depth 14



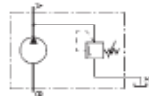
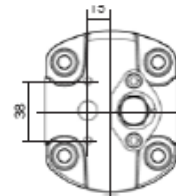
V

Low Pressure relief valve (Adjustable) Internal return



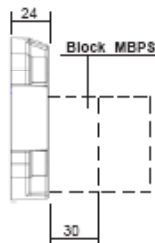
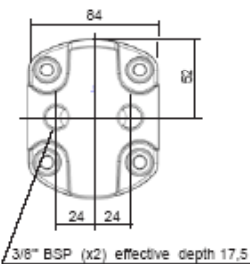
W

Low Pressure relief valve (Adjustable) External return



AR

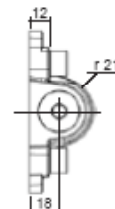
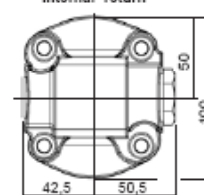
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

Q

Flow control Internal return



Consult us for availability

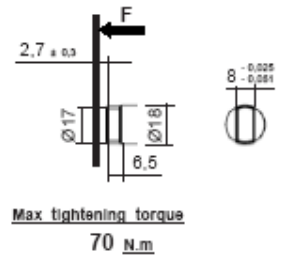


SERIES 2 TYPE DUK

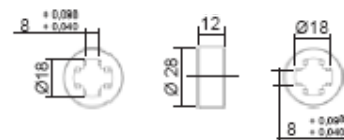
DRIVING SHAFT (DUK)

Tapered	Straight keyed	Splined	Tang
10	20	30	40

D02



Coupling on request: Ref. K102947

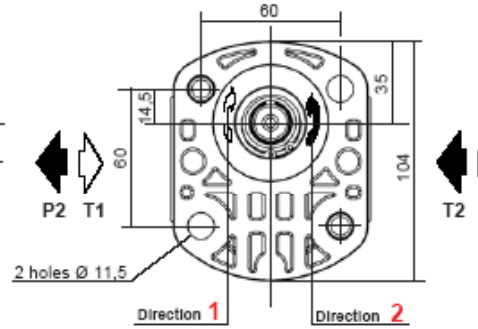
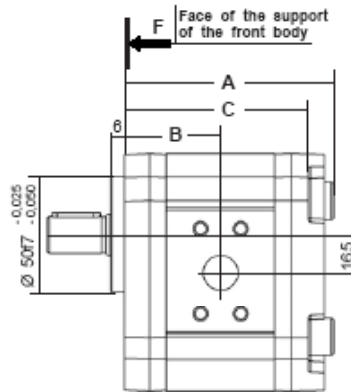
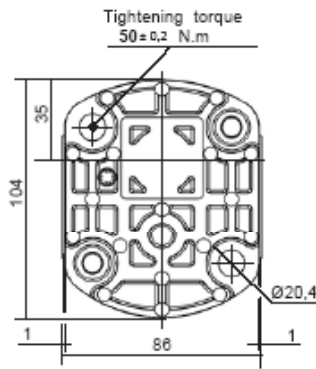


SERIES 2 TYPE DWN



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

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



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

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

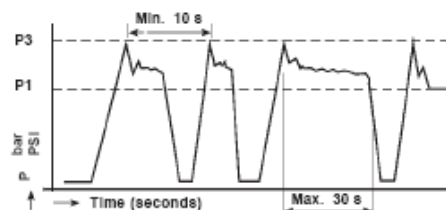
Seal kits:
Nitrile: **K5063830**
Viton: **K5063820**
(For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability



SERIES 2 TYPE DWN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

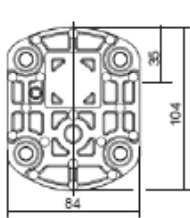
Consult us for availability **JTEKT**
HPI

SERIES 2 TYPE DWN

REAR BODIES

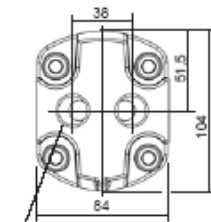
L

Standard



A

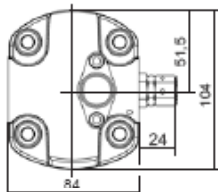
with ports



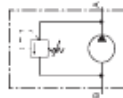
(2x) 1/2" BSP effective depth 14

X

High pressure relief valve (Adjustable) Internal return

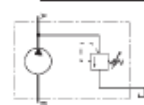
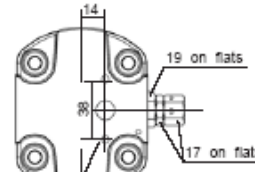


Blank port connector only internal return



T

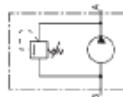
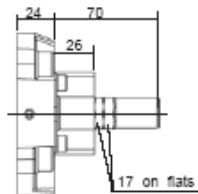
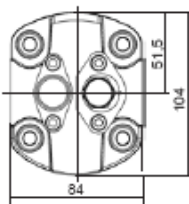
High pressure relief valve (Adjustable) External return



(2x) M6 effective depth 14

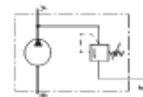
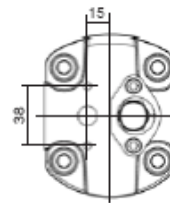
V

Low Pressure relief valve (Adjustable) Internal return



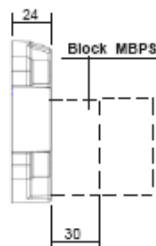
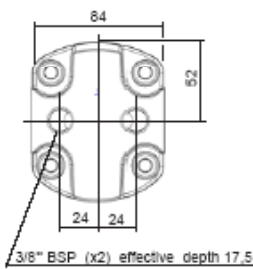
W

Low Pressure relief valve (Adjustable) External return



AR

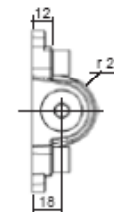
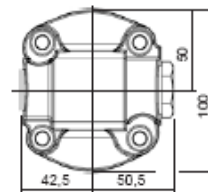
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

Q

Flow control Internal return



Consult us for availability

SERIES 2 TYPE DWN

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100641</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splined shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>C18 *</p> <p><u>Maxi transmissible torque</u> 40 N.m</p> <p>* ONLY 2006 to 2012</p>		
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>D01</p> <p>Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

Consult us for availability

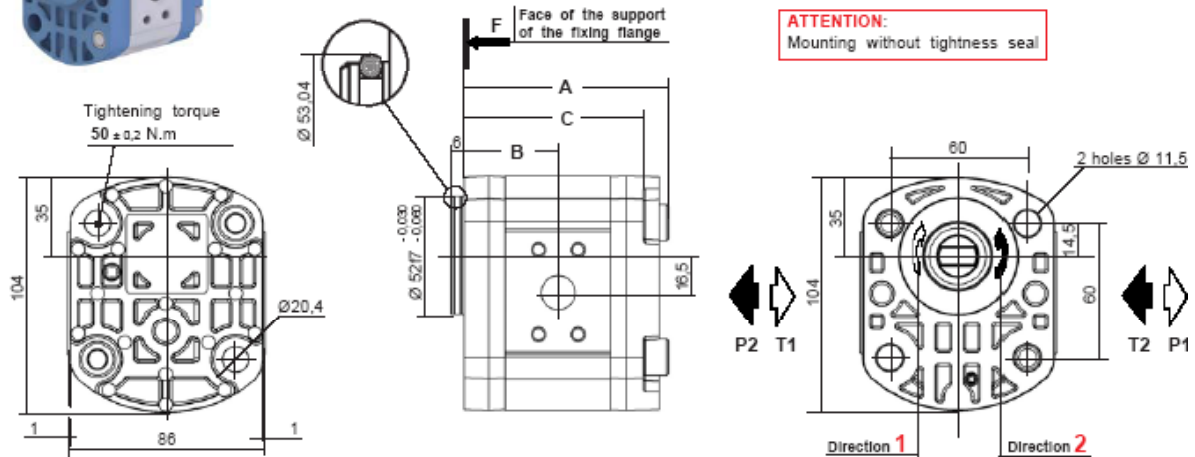


SERIES 2 TYPE DZK



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

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



ATTENTION:
Mounting without tightness seal

Tightening torque
50 ± 0.2 N.m

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

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

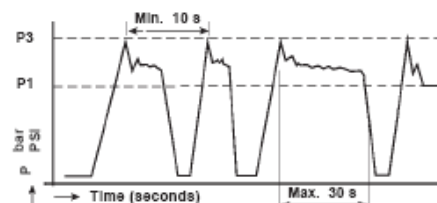
Seal kits:
Nitrile: **K5069830 + K102539**
Viton: **K5069840 + K107013**
(For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability



SERIES 2 TYPE DZK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

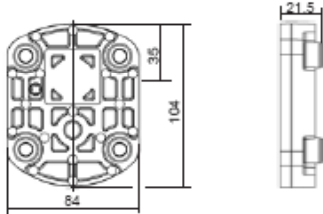
JTEKT
Consult us for availability

SERIES 2 TYPE DZK

REAR BODIES

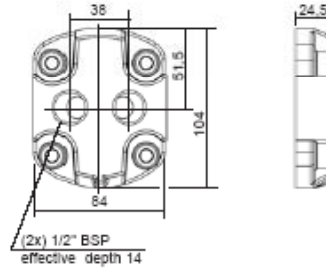
L

Standard



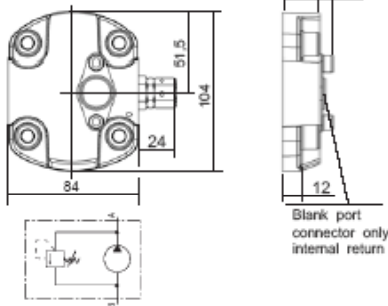
A

with ports



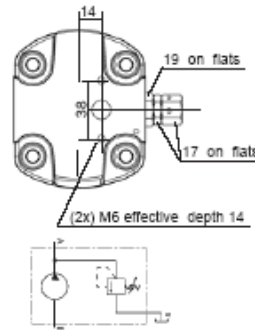
X

High pressure relief valve (Adjustable) Internal return



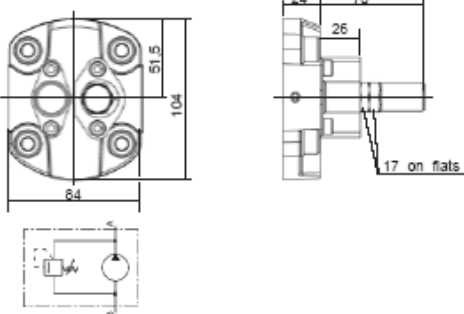
T

High pressure relief valve (Adjustable) External return



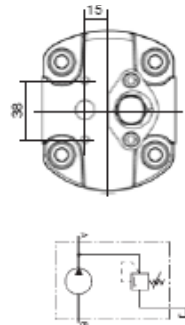
V

Low Pressure relief valve (Adjustable) Internal return



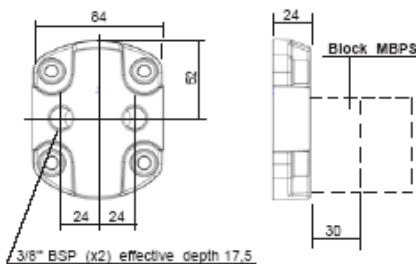
W

Low Pressure relief valve (Adjustable) External return



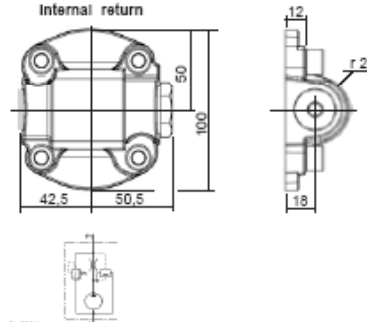
AR

with block configuration MBPS



Q

Flow control Internal return



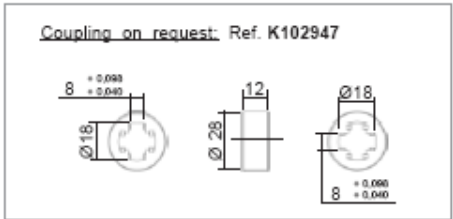
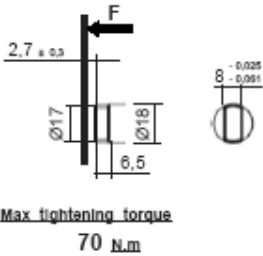
Consult us for availability

SERIES 2 TYPE DZK

DRIVING SHAFT (DZK)

Tapered	Straight keyed	Splined	Tang
10	20	30	40

D02





F.T 20 1299

PUMPS PRESENTATION
SERIES 2 and 2,5

- THICK FRONT BODIES

PUMP

AAP

F.T 20 1339

PUMP

AAR

F.T 20 1341

PUMP

ARP

F.T 20 1343

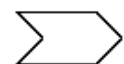
PUMP

ARK

F.T 20 1345



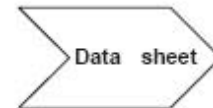
Consult us for availability



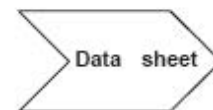
JTEKT
HPI

- THICK FRONT BODIES (rest)

PUMP

DBP**F.T 20 1347**

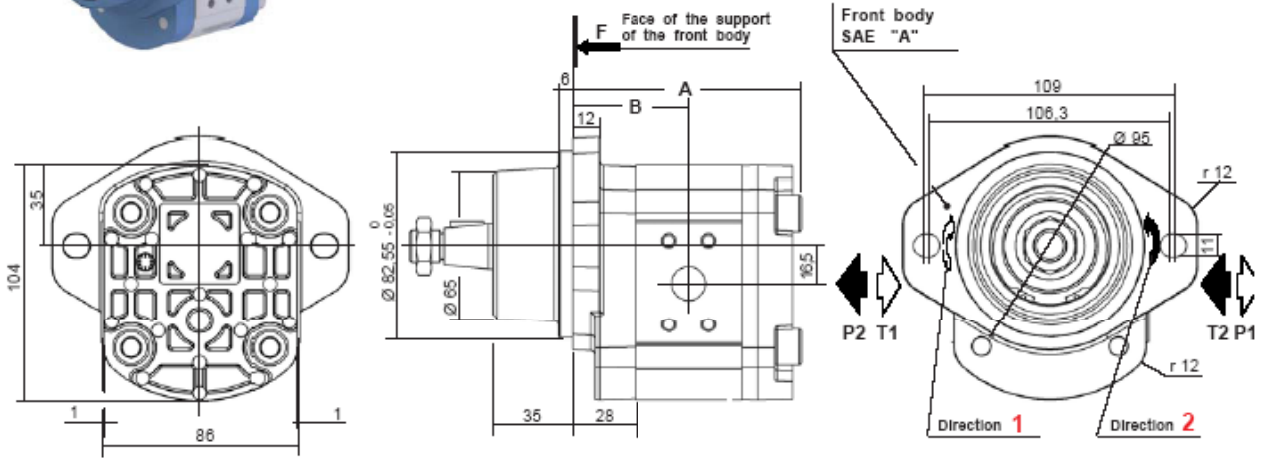
PUMP

DBR**F.T 20 1349**MULTIPLES
PUMPS**F.T 20 1306**

SERIES 2 TYPE AAP



P II Sign **AA** **P** **2** VI Sign **H** **L** IX Sign X Sign **C03** XII Sign
 For CODIFICATION, see data sheet **F.T R 0011**



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

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

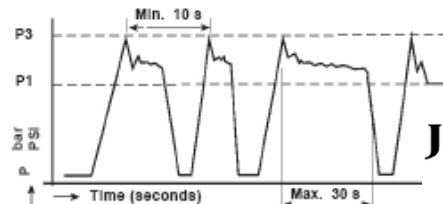
Seal kits:
 Nitrile: **K5069870 + K5069830**
 Viton: **K5069880 + K5069840**
 (For the manufacturings from february 1986)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure →

P3 Allowable peak pressure.



Consult us for availability



SERIES 2 TYPE AAP

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

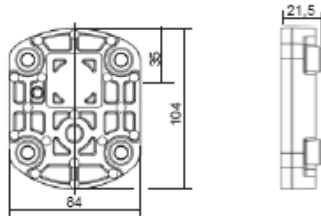
Consult us for availability

SERIES 2 TYPE AAP

REAR BODIES

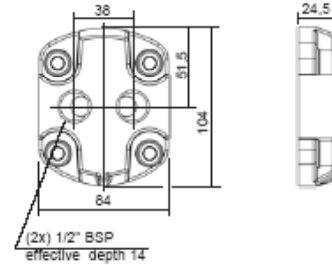
L

Standard



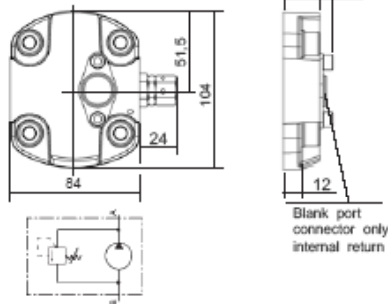
A

with ports



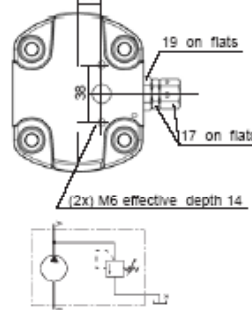
X

High pressure relief valve (Adjustable) Internal return



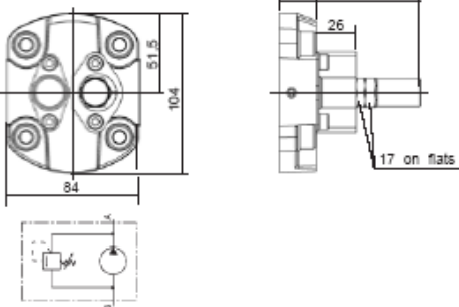
T

High pressure relief valve (Adjustable) External return



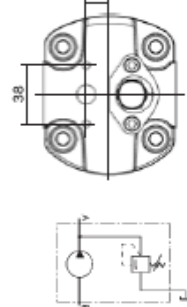
V

Low Pressure relief valve (Adjustable) Internal return



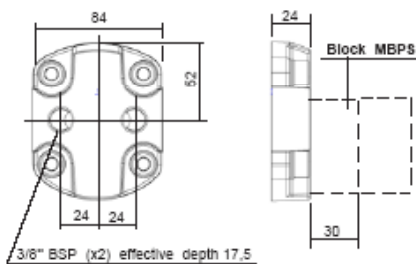
W

Low Pressure relief valve (Adjustable) External return



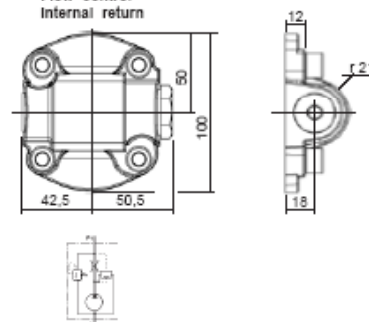
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability



SERIES 2 TYPE AAP

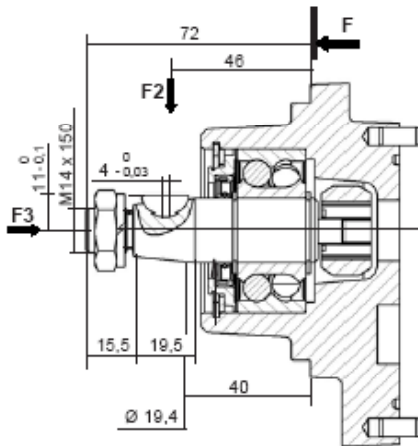
DRIVING SHAFTS

Tapered

10

C03

Taper 1/5



Delivered with nut: K102045

F2 Maxi: 120 daN

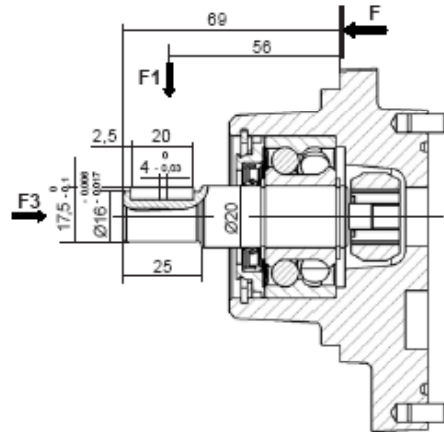
F3 Maxi: 50 daN

Maxi transmissible torque
50 N.m

Straight keyed

20

C03



F1 Maxi: 100 daN

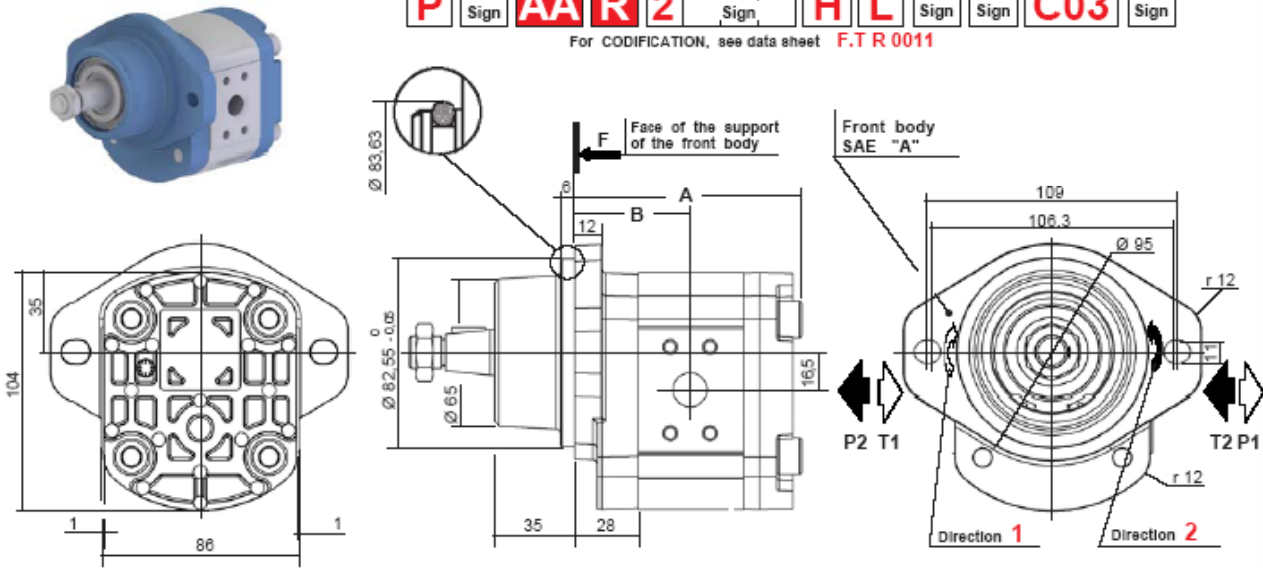
F3 Maxi: 50 daN

Maxi transmissible torque
50 N.m

SERIES 2 TYPE AAR

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

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



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

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

Seal kits:

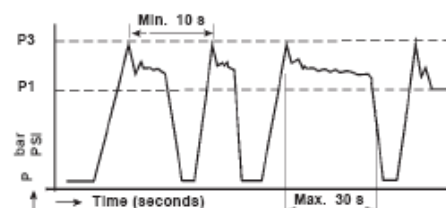
Nitrile: **K5069870 + K5069830 + K102901**
 Viton: **K5069880 + K5069840 + K104093**
 (For the manufacturings from february 1986)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure →

P3 Allowable peak pressure.



 Consult us for availability



SERIES 2 TYPE AAR

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

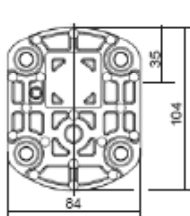
Consult us for availability!

SERIES 2 TYPE AAR

REAR BODIES

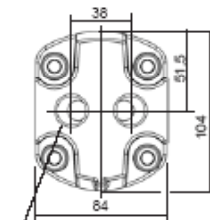
L

Standard



A

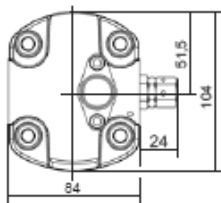
with ports



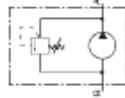
(2x) 1/2" BSP effective depth 14

X

High pressure relief valve (Adjustable) Internal return

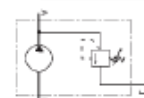
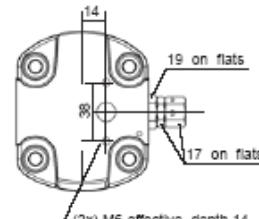


Blank port connector only internal return



T

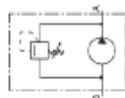
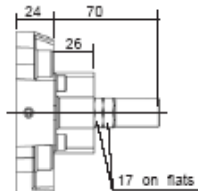
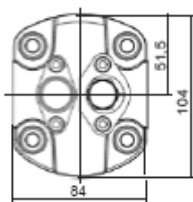
High pressure relief valve (Adjustable) External return



(2x) M6 effective depth 14

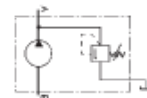
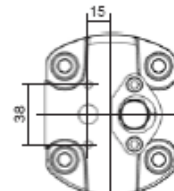
V

Low Pressure relief valve (Adjustable) Internal return



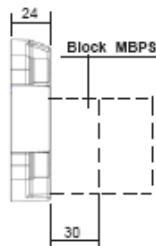
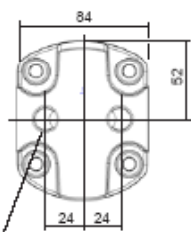
W

Low Pressure relief valve (Adjustable) External return



AR

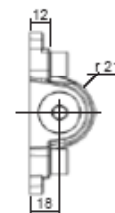
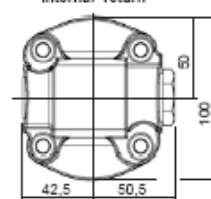
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

Q

Flow control Internal return



Consult us for availability



SERIES 2 TYPE AAR

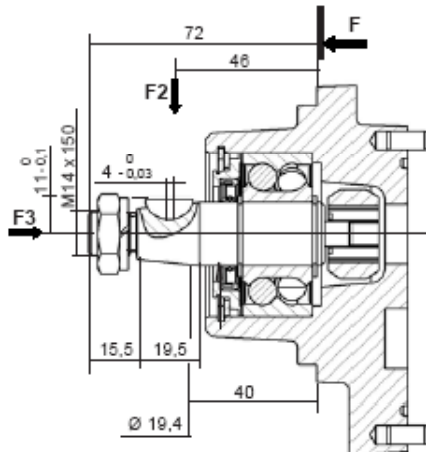
DRIVING SHAFTS

Tapered

10

C03

Taper 1/5



Delivered with nut: K102045

F2 Maxi: 120 daN

F3 Maxi: 50 daN

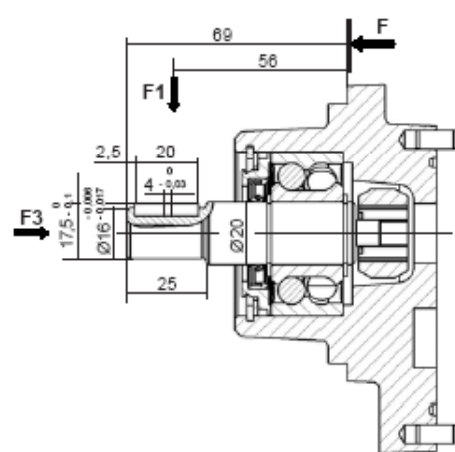
Maxi transmissible torque

50 N.m

Straight keyed

20

C03



F1 Maxi: 100 daN

F3 Maxi: 50 daN

Maxi transmissible torque

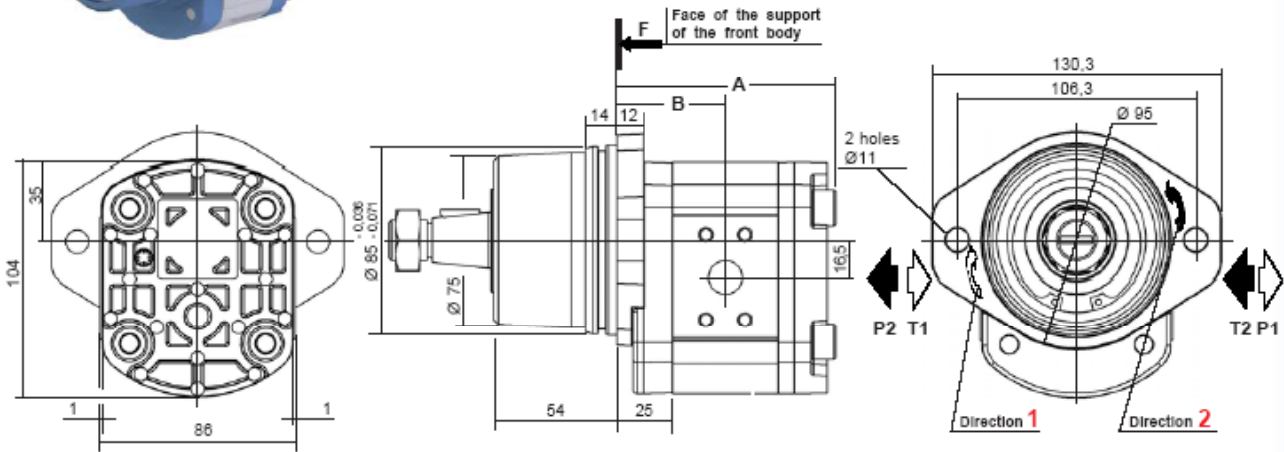
50 N.m

SERIES 2 TYPE ARP



P II Sign **AR P 2** VI Sign **HL 1 0 C05** XII Sign

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



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

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

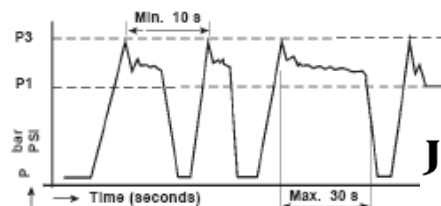
Seal kits:
Nitrile: **K112366 + K5069830**
Viton: **K112366 + K5069840**
(For the manufacturings from february 1986)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure →

P3 Allowable peak pressure.



 Consult us for availability



SERIES 2 TYPE ARP

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

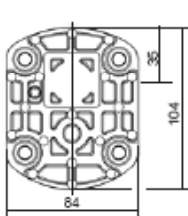
Consult us for availability

SERIES 2 TYPE ARP

REAR BODIES

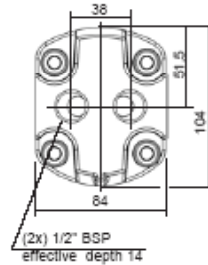
L

Standard



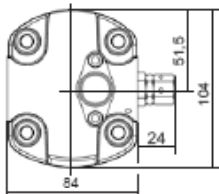
A

with ports

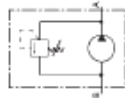


X

High pressure relief valve (Adjustable) Internal return

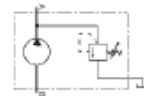
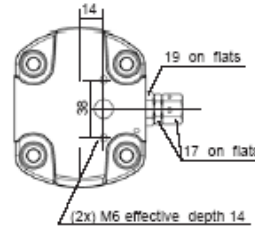


Blank port connector only internal return



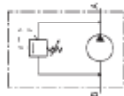
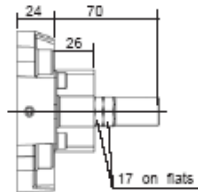
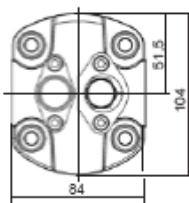
T

High pressure relief valve (Adjustable) External return



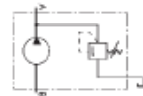
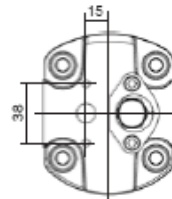
V

Low Pressure relief valve (Adjustable) Internal return



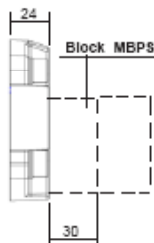
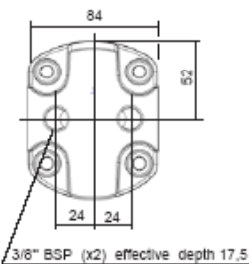
W

Low Pressure relief valve (Adjustable) External return



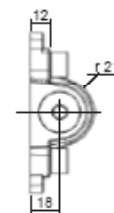
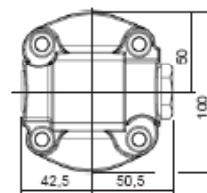
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability

SERIES 2 TYPE ARP

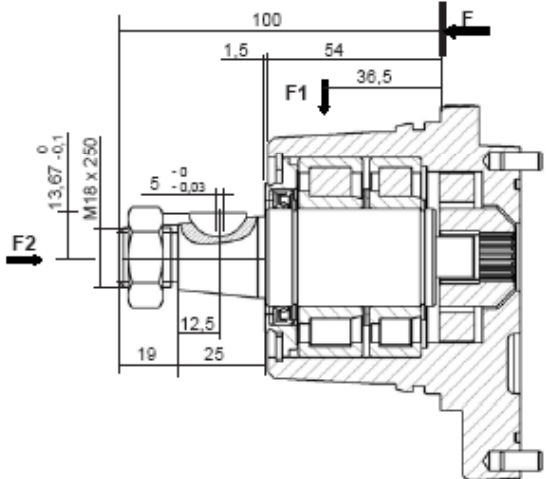
DRIVING SHAFT

Tapered

10

C05

Cône 1/5

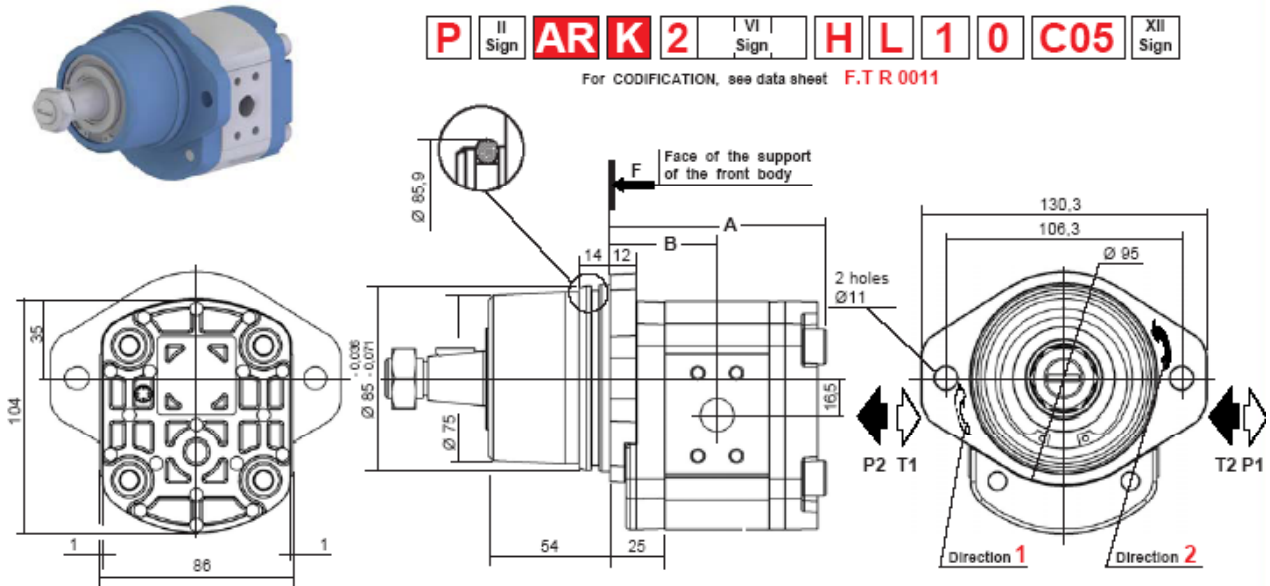


Delivered with nut: K106295

F1 Maxi: 350 daN
F2 Maxi: 50 daN

Maxi transmissible torque
70 N.m

SERIES 2 TYPE ARK



P II Sign **AR K 2** VI Sign **H L 1 0 C05** XII Sign
 For CODIFICATION, see data sheet **F.T R 0011**

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

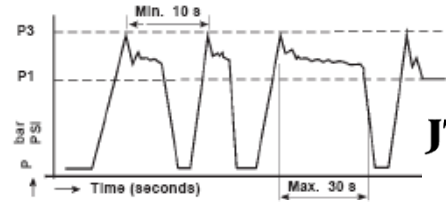
Multiples geared pumps, see data sheet **F.T 20 1306**

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

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

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

Maximum Pressure →



 Consult us for availability



SERIES 2 TYPE ARK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

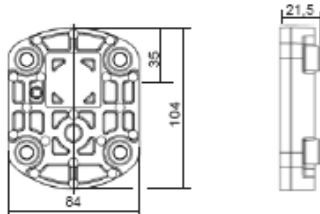
Consult us for availability

SERIES 2 TYPE ARK

REAR BODIES

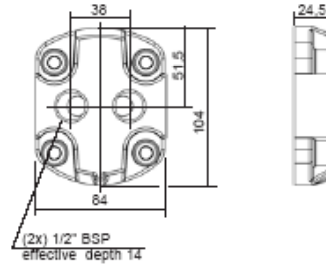
L

Standard



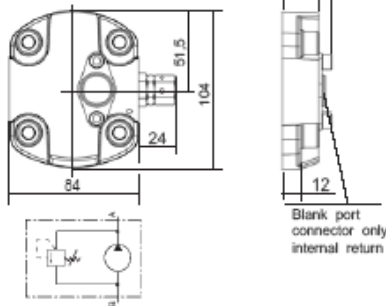
A

with ports



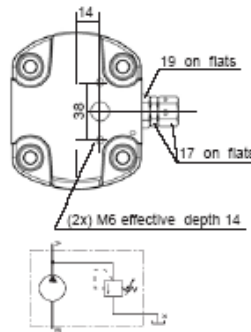
X

High pressure relief valve
(Adjustable) Internal return



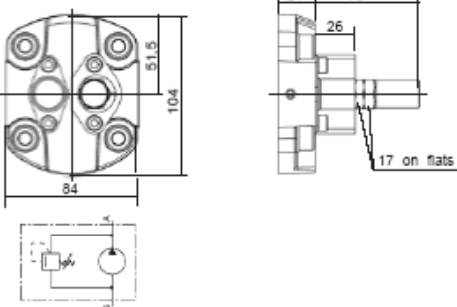
T

High pressure relief valve
(Adjustable) External return



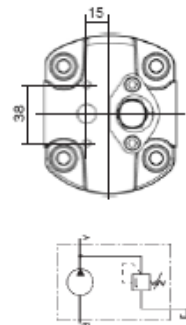
V

Low Pressure relief valve
(Adjustable) Internal return



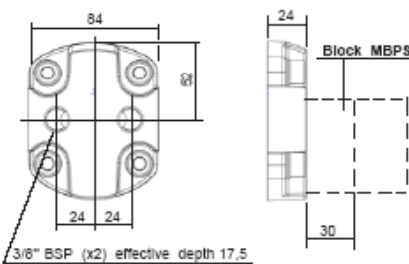
W

Low Pressure relief valve
(Adjustable) External return



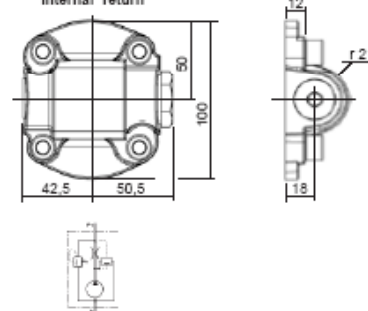
AR

with block configuration MBPS



Q

Flow control
Internal return



Consult us for availability



SERIES 2 TYPE ARK

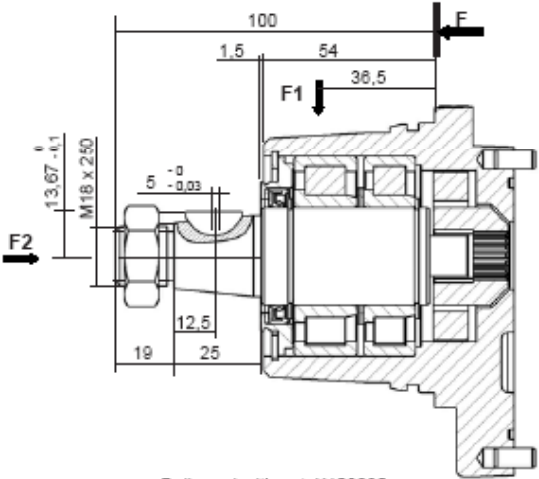
DRIVING SHAFT

Tapered

10

C05

Cône 1/5



Delivered with nut: K108295

F1 Maxi: 350 daN
F2 Maxi: 50 daN

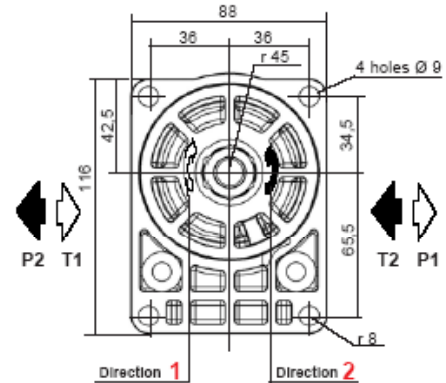
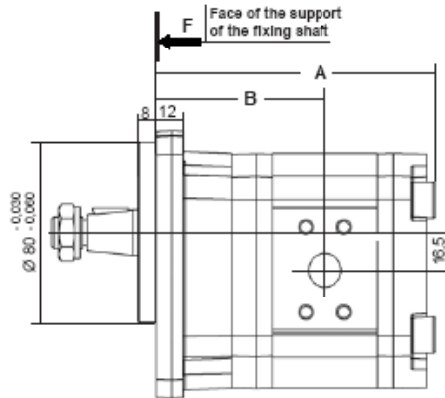
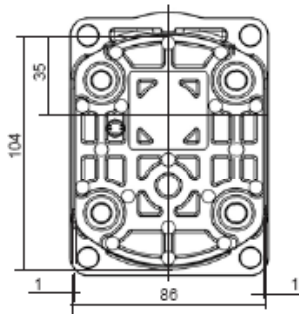
Maxi transmissible torque
70 N.m

SERIES 2 TYPE DBP



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

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



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

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

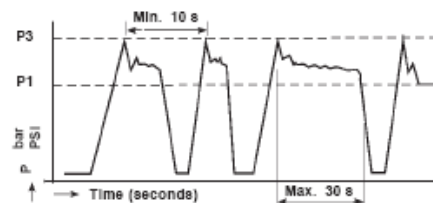
Seal kits:
 Nitrile: **K5073298 + K5069830**
 Viton: **K5073299 + K5069840**
 (For the manufacturing from may 1986)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



 Consult us for availability



SERIES 2 TYPE DBP

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

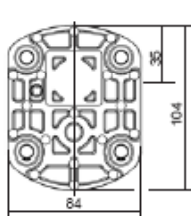
Consult us for availability **JTEKT**
HPI

SERIES 2 TYPE DBP

REAR BODIES

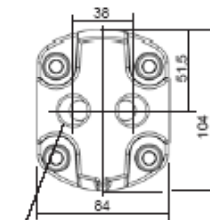
L

Standard



A

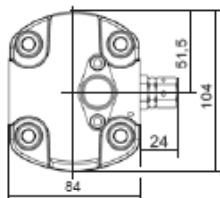
with ports



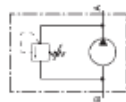
(2x) 1/2" BSP effective depth 14

X

High pressure relief valve (Adjustable) Internal return

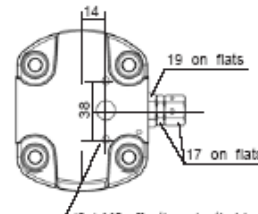


Blank port connector only internal return

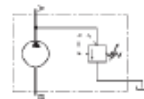


T

High pressure relief valve (Adjustable) External return

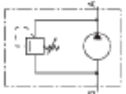
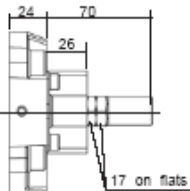
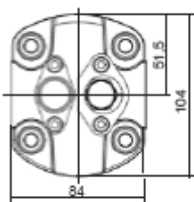


(2x) M6 effective depth 14



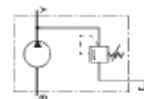
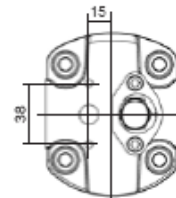
V

Low Pressure relief valve (Adjustable) Internal return



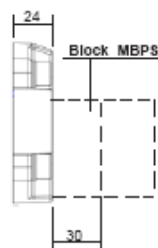
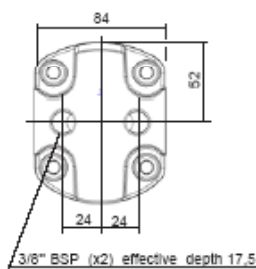
W

Low Pressure relief valve (Adjustable) External return



AR

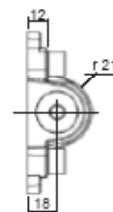
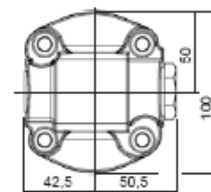
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

Q

Flow control Internal return



Consult us for availability

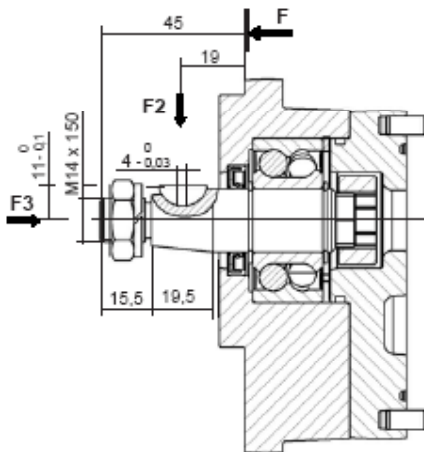
SERIES 2 TYPE DBP

DRIVING SHAFTS

Tapered

10

C07 Taper 1 / 5



Delivered with Nut: K102045

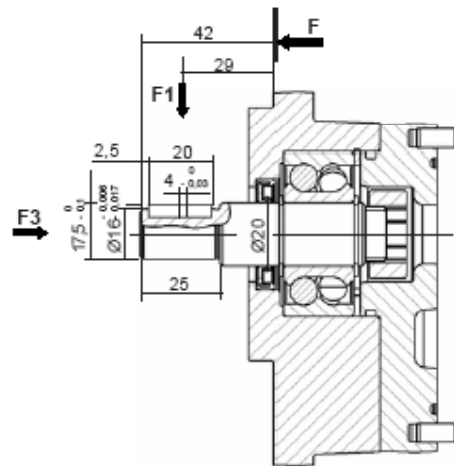
F2 Maxi: 120 daN
F3 Maxi: 50 daN

Maxi transmissible torque
50 N.m

Straight keyed

20

C15



F1 Maxi: 100 daN
F3 Maxi: 50 daN

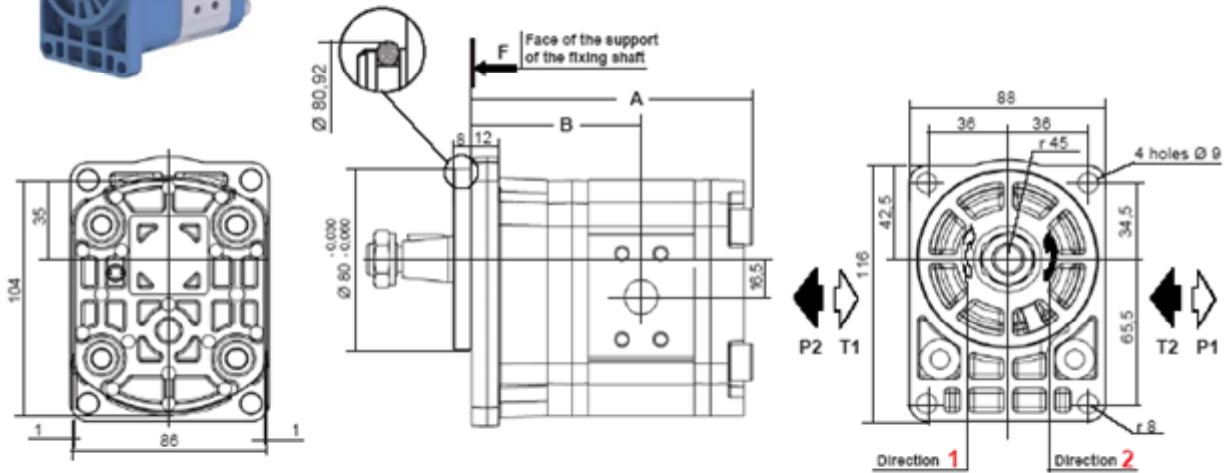
Maxi transmissible torque
50 N.m

SERIES 2 TYPE DBR



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

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



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

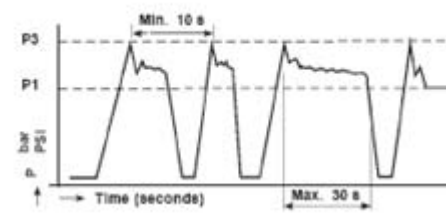
Multiples geared pumps, see data sheet **F.T 20 1306**

Seal kits:
Nitrile: **K5073298 + K5069830 + K101517**
Viton: **K5073299 + K5069830 + K104406**
(For the manufacturings from may 1996)

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

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

Maximum Pressure ⇒



 Consult us for availability



SERIES 2 TYPE DBR

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)					CATALOGUE Nº 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
		H (HPI)	2004 to 2012	20	17,4	38	M6	12	15	17,4	38	M6	15
	2014 to 2030	26	47,6	22,4	M6	12	15	17,4	38	M6	12	1" BSP N: 2.500496 V: 2.504117	1/2" BSP N: 2.500055 V: 2.504026
C (Square)	2004 to 2012	20	40		M6	12	15	35		M6	12	1/2" BSP N: 367141.502	3/8" BSP N: 367141.702
	2014 to 2030											3/4" BSP N: 367141.503	1/2" BSP N: 367141.703
B (Italian)	2004 to 2012	15	30		M6	13	15	30		M6	13	3/8" BSP N: X.367508.201 1/2" BSP N: X.367508.202	3/8" BSP N: X.367508.201 1/2" BSP N: X.367508.202
	2014 to 2030	23,5	40		M8	13	15	30		M6	13	1/2" BSP N: X.367508.101 3/4" BSP N: X.367508.102	3/8" BSP N: X.367508.201 1/2" BSP N: X.367508.202
F (Threaded)	2004 to 2012				3/4" BSP	16				3/8" BSP	12		
	2014 to 2022				1" BSP	18				1/2" BSP	14		
U (Threaded SAE J 475)	2004 to 2012				1"1/16 12 UNF 2B	20				7/8" 14 UNF 2B	17		
	2014 to 2022				1"5/16 12 UNF 2B	20				7/8" 14 UNF 2B	17		
	2026-2030				1"5/16 12 UNF 2B	20				1"1/16 12 UNF 2B	20		
Y (ISO 6162)	2004 to 2012	20	17,4	38	M8	14	15	17,4	38	M8	14		
	2014 to 2022	26	47,6	22,4	M10	14	15	17,4	38	M8	14		
	2026-2030	26	52,4	26,2	M10	14	15	17,4	38	M8	14		
X (without ports)	2004 to 2030	Only with rear body Type A											

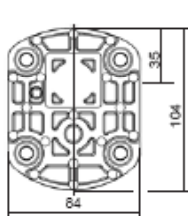
Consult us for availability **JTEKT**
HPI

SERIES 2 TYPE DBR

REAR BODIES

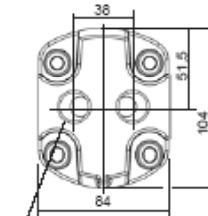
L

Standard



A

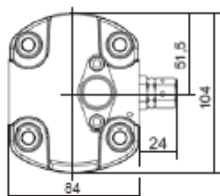
with ports



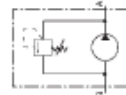
(2x) 1/2" BSP effective depth 14

X

High pressure relief valve (Adjustable) Internal return

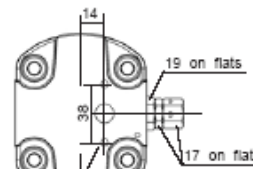


Blank port connector only internal return

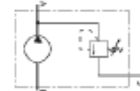


T

High pressure relief valve (Adjustable) External return

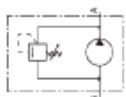
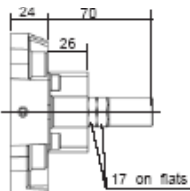
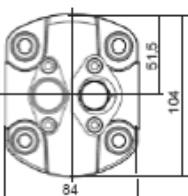


(2x) M6 effective depth 14



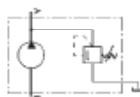
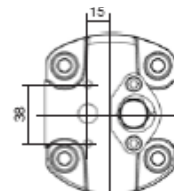
V

Low Pressure relief valve (Adjustable) Internal return



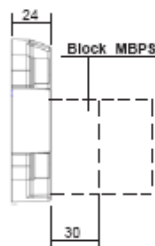
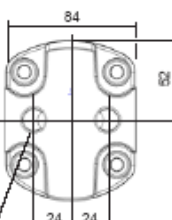
W

Low Pressure relief valve (Adjustable) External return



AR

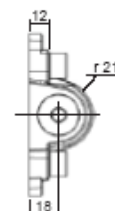
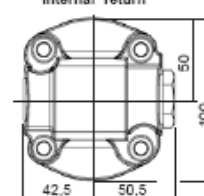
with block configuration MBPS



3/6" BSP (x2) effective depth 17.5

Q

Flow control Internal return



Consult us for availability

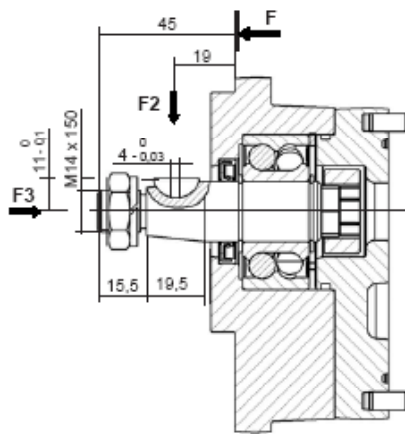
SERIES 2 TYPE DBR

DRIVING SHAFTS

Tapered

10

C07 Taper 1 / 5



Delivered with Nut: K102045

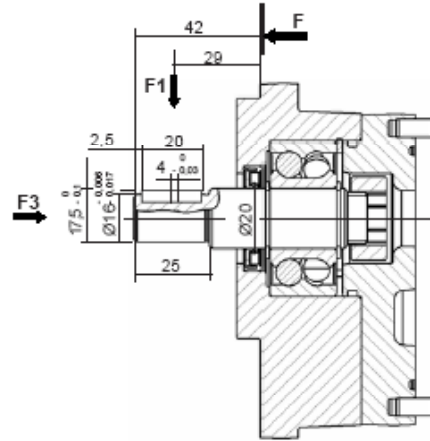
F2 Maxi: 120 daN
F3 Maxi: 50 daN

Maxi transmissible torque
50 N.m

Straight keyed

20

C15

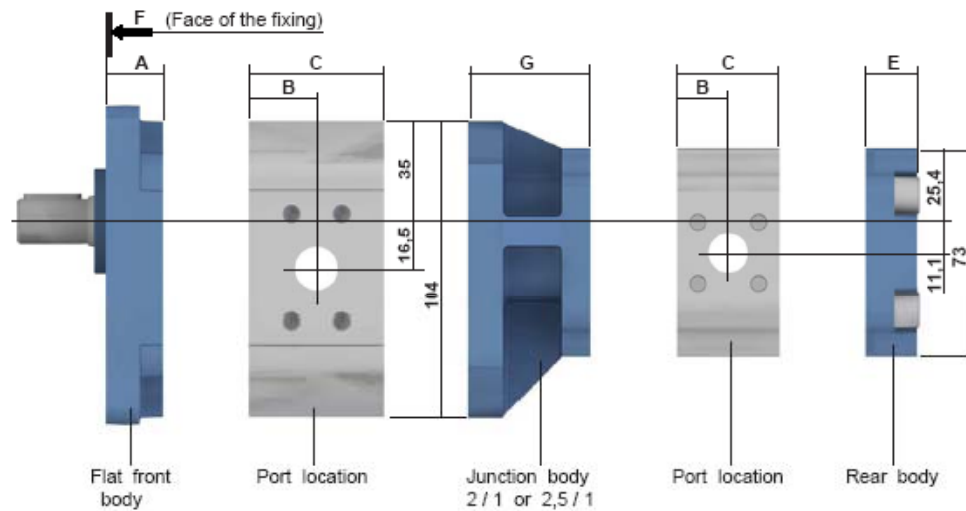
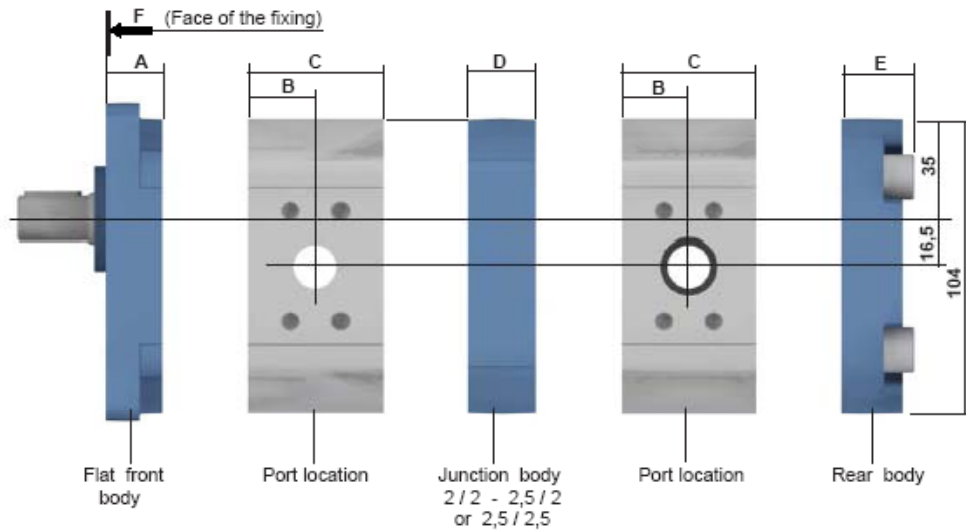


F1 Maxi: 100 daN
F3 Maxi: 50 daN

Maxi transmissible torque
50 N.m

COMPACT VERSION

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



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

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

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

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

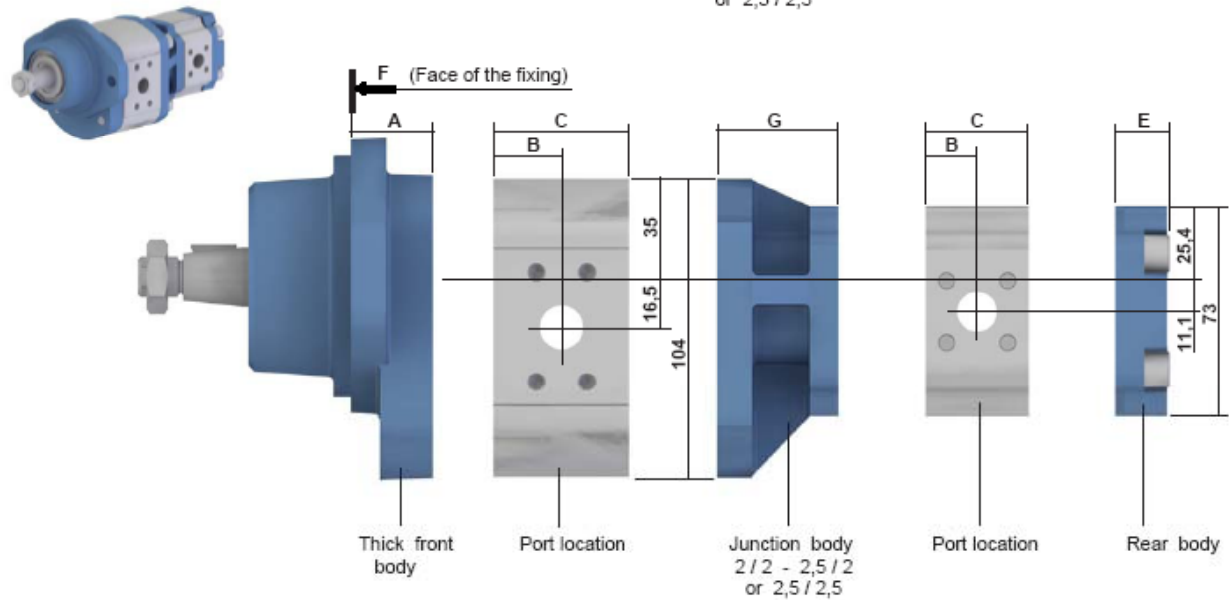
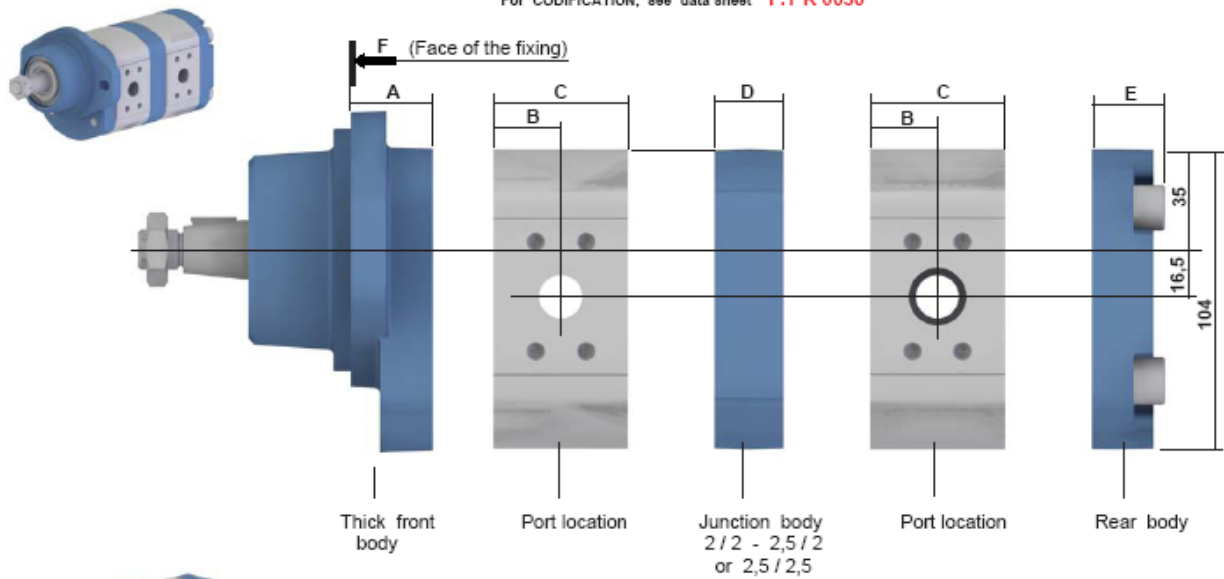
Flat front bodies		A
Series 2 - 2,5	AAN / AAK - APK	20
	BAN - CAN - DBN / DBK	
	AFN	21
	CEN / CEK	22
	DCN / DCK - DUK - DWN	18
	DZK	

Consult us for availability



COMPACT VERSION

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



ATTENTION

For common suction.

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

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

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

	Thick front bodies	A
Series 2 - 2,5	AAP / AAR	28
	ARP / ARK	25
	DBP / DBK	51

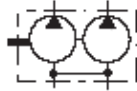
Consult us for availability



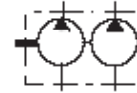
COMPACT VERSION

JUNCTION BODY (Schematic examples for 2 elements pumps)

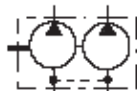
Code A Communication between suction ports
(Capacity of the pump without suction = half of the capacity of the front section)



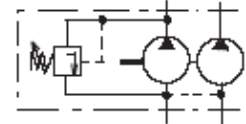
Code E Tightness between ports



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



Code X Adjustable relief valve internal return in preceding pump



Possible combinations of junctions up to 5 elements

CALCULATION of the TORQUE

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

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

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

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

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

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

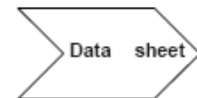


PUMPS PRESENTATION
SERIES 2 and 2,5

F.T 20 1299

- FLAT FRONT BODIES

PUMP **AAAN**



F.T 25 1307

PUMP **AAK**



F.T 25 1334

PUMP **AFN**



F.T 25 1367

PUMP **APK**



F.T 25 1369

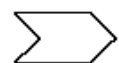
PUMP **BAN**



F.T 25 1308



Consult us for availability



JTEKT
HPI

- FLAT FRONT BODIES (rest)

PUMP	CAN		 F.T 25 1309
PUMP	CEN		 F.T 25 1310
PUMP	CEK		 F.T 25 1361
PUMP	DBN		 F.T 25 1311
PUMP	DBK		 F.T 25 1335

- FLAT FRONT BODIES (rest)

PUMP

DCN



F.T 25 1312

PUMP

DCK



F.T 25 1336

PUMP

DUK



F.T 25 1338

PUMP

DWN



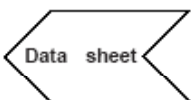
F.T 25 1337

PUMP

DZK

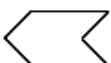


F.T 25 1363



F.T 20 1306

MULTIPLES
PUMPS



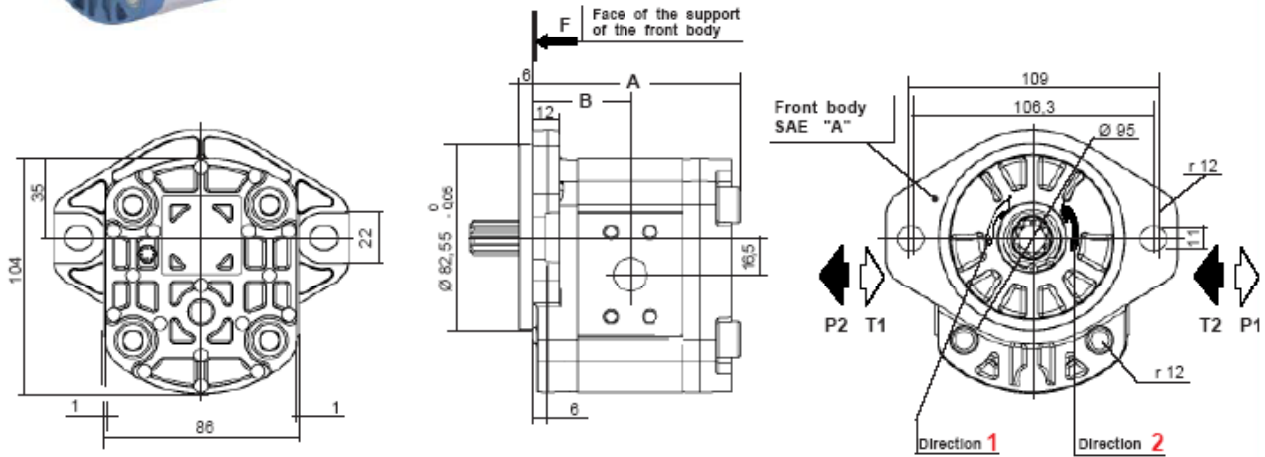
Consult us for availability

SERIES 2,5 TYPE AAN



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

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



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

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

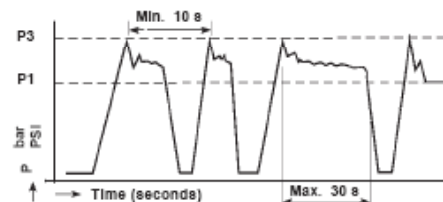
Seal kits:
Nitrile: **K5069810**
Viton: **K5069820**
(For the manufacturings from January 1994)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability



SERIES 2,5 TYPE AAN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

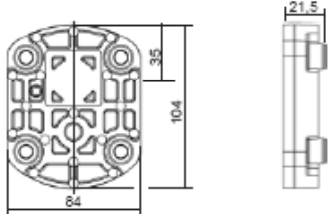
Consult us for availability

SERIES 2,5 TYPE AAN

REAR BODIES

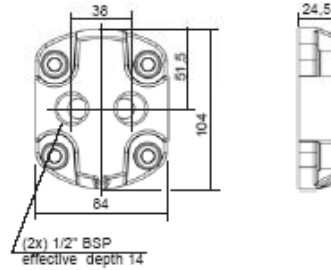
L

Standard



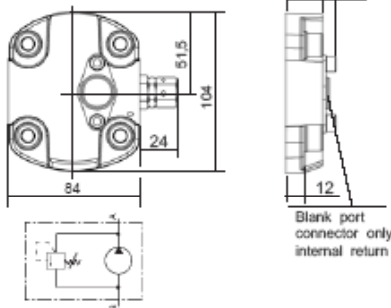
A

with ports



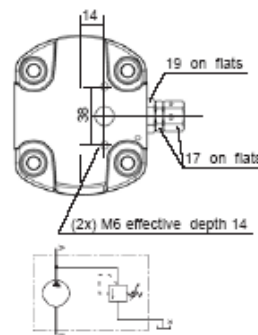
X

High pressure relief valve (Adjustable) Internal return



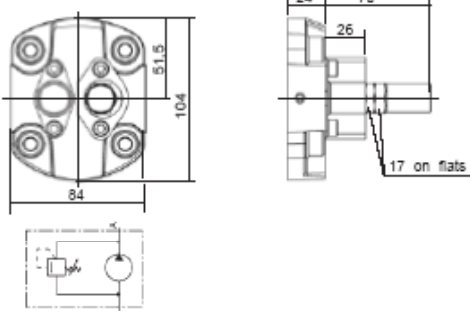
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High pressure relief valve (Adjustable) External return



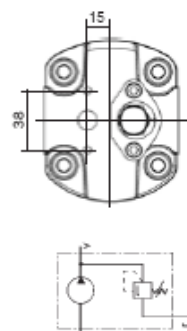
V

Low Pressure relief valve (Adjustable) Internal return



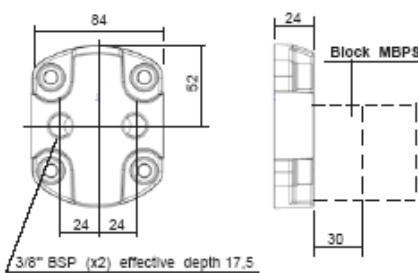
W

Low Pressure relief valve (Adjustable) External return



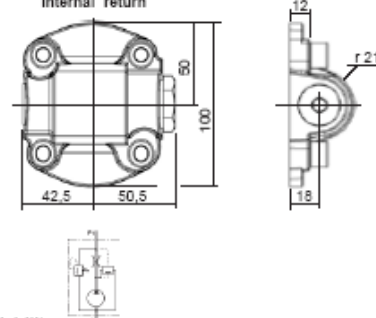
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability



SERIES 2,5 TYPE AAN

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splinned shaft 39 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>		
		<p>D01</p> <p>Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

Consult us for availability

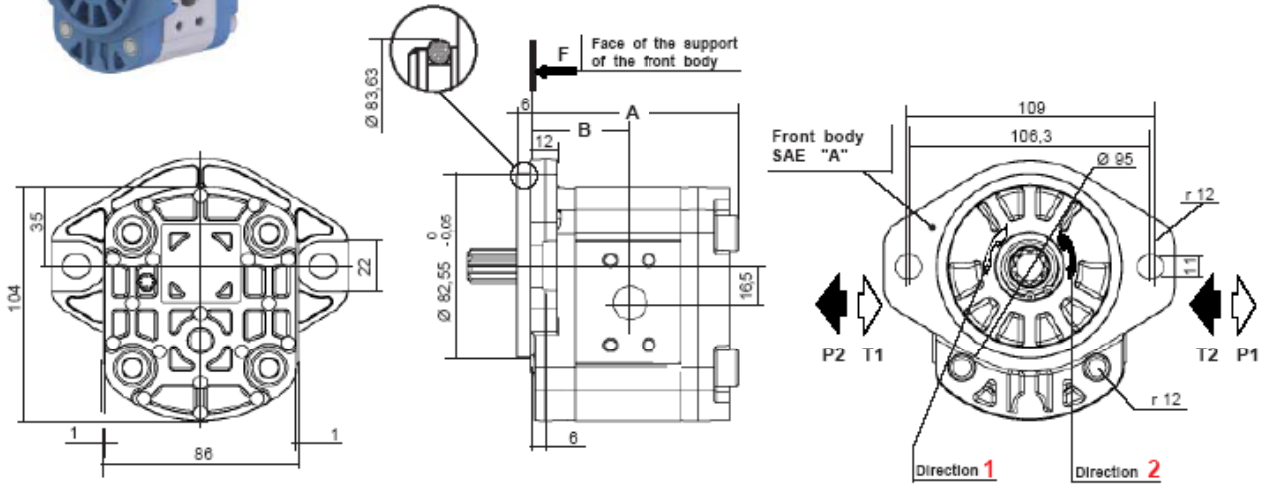


SERIES 2,5 TYPE AAK



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

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



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

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

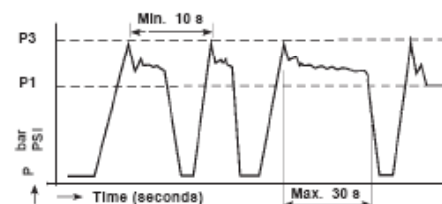
Seal kits:
Nitrile: **K5069810**
Viton: **K5069820**
(For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure ⇒



Consult us for availability



SERIES 2,5 TYPE AAK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

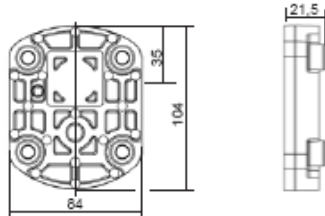


SERIES 2,5 TYPE AAK

REAR BODIES

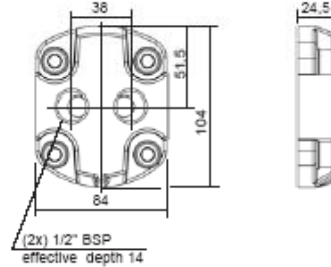
L

Standard



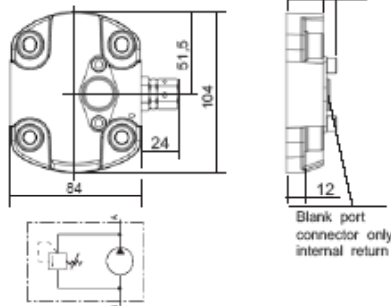
A

with ports



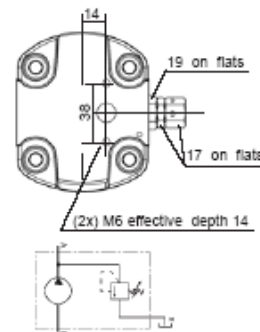
X

High pressure relief valve (Adjustable) Internal return



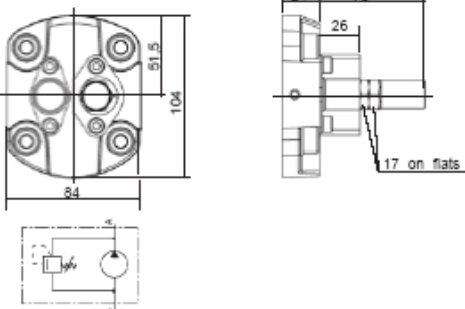
T

High pressure relief valve (Adjustable) External return



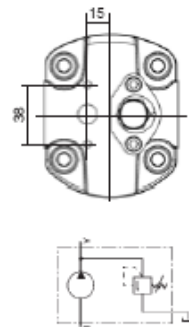
V

Low Pressure relief valve (Adjustable) Internal return



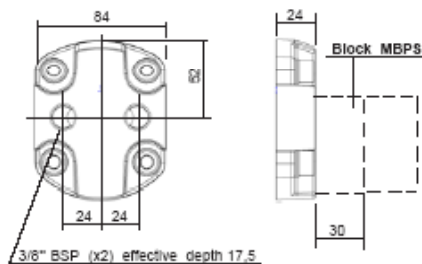
W

Low Pressure relief valve (Adjustable) External return



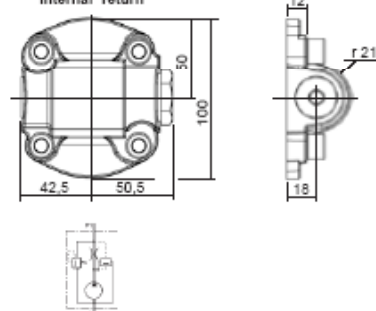
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability

SERIES 2,5 TYPE AAK

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310</p> <p>Mounting with splined shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>		
		<p>D01</p> <p>Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
			<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

Consult us for availability

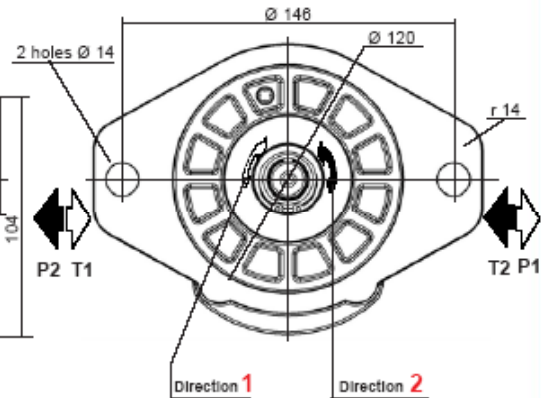
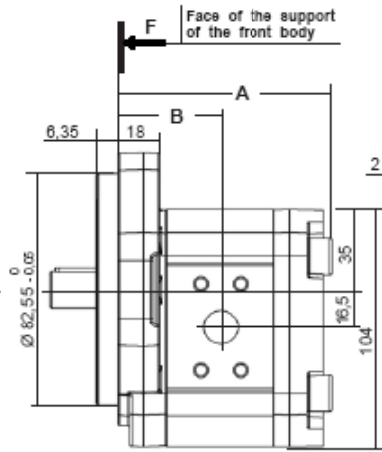
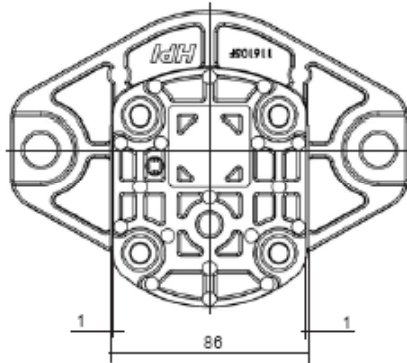


SERIES 2,5 TYPE AFN



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

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



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

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

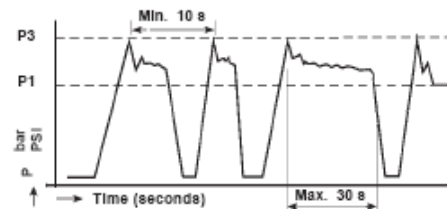
Seal kits:
Nitrile: **K5069810**
Viton: **K5069820**
(For the manufacturing from January 1984)

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

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure ⇒



Consult us for availability



SERIES 2,5 TYPE AFN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

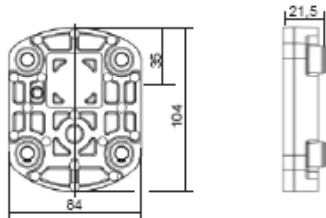
Consult us for availability

SERIES 2,5 TYPE AFN

REAR BODIES

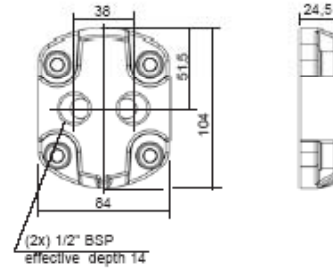
L

Standard



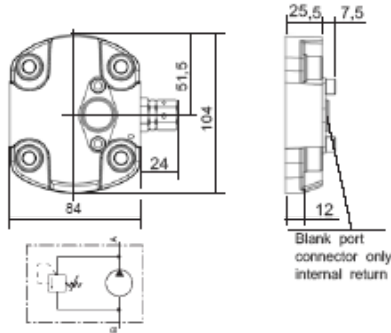
A

with ports



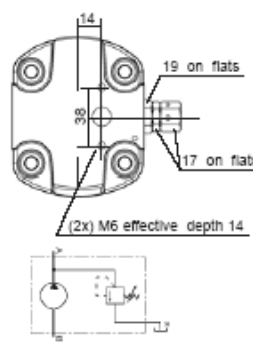
X

High pressure relief valve (Adjustable) Internal return



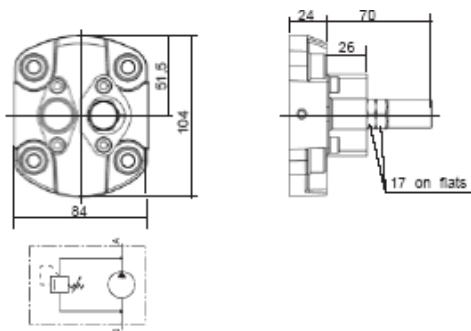
T

High pressure relief valve (Adjustable) External return



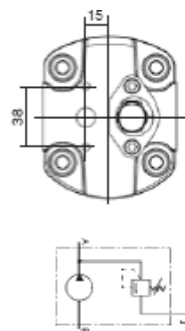
V

Low Pressure relief valve (Adjustable) Internal return



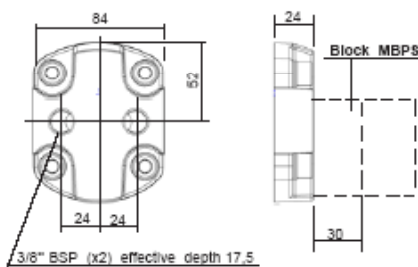
W

Low Pressure relief valve (Adjustable) External return



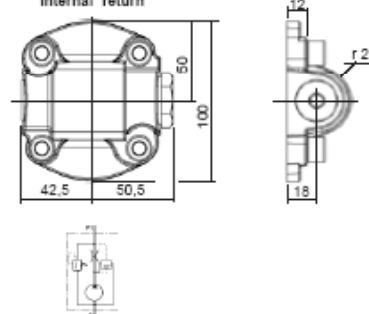
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability



SERIES 2,5 TYPE AFN

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute splined SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310</p> <p>Mounting with splined shaft 30 A01</p> <p>Involute spline SAE standard 5 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>		
		<p>D01</p> <p>Involute splined shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

Consult us for availability

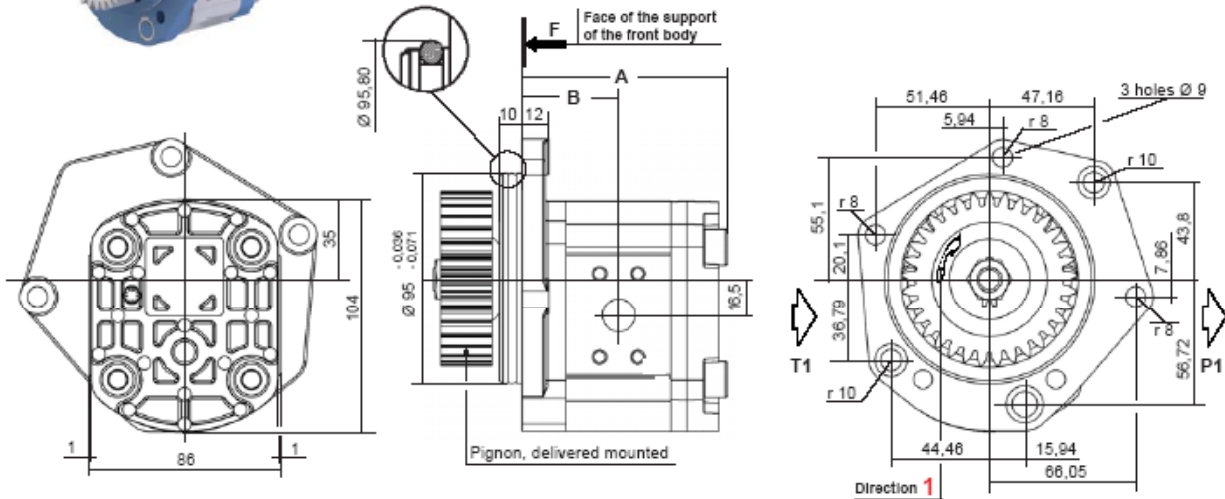


SERIES 2,5 TYPE APK



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

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



CHOICE of the PIGNONS

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

CHOICE of the Capacity

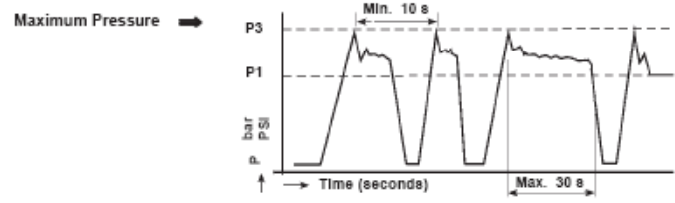
Capacity	Dimensions	
	A	B
12	107	51
15 - 17 - 18 - 22	123	59

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

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

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

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



Consult us for availability



SERIES 2,5 TYPE APK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

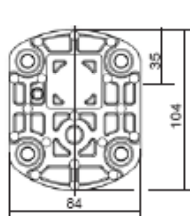


SERIES 2,5 TYPE APK

REAR BODIES

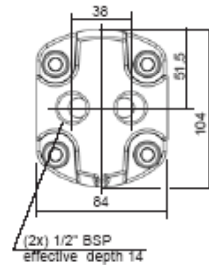
L

Standard



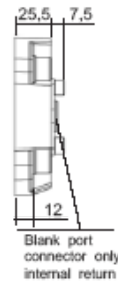
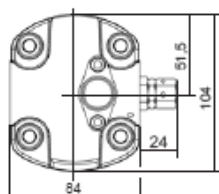
A

with ports



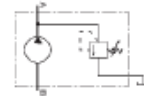
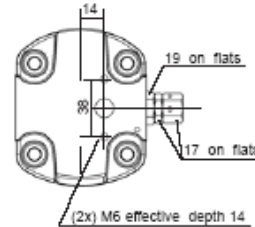
X

High pressure relief valve (Adjustable) internal return



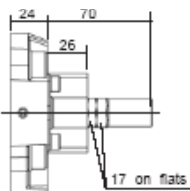
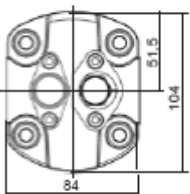
T

High pressure relief valve (Adjustable) External return



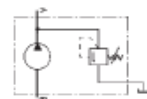
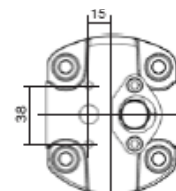
V

Low Pressure relief valve (Adjustable) internal return



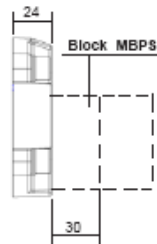
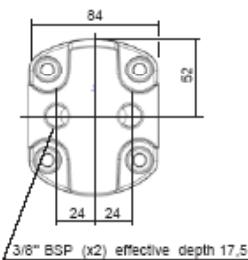
W

Low Pressure relief valve (Adjustable) External return



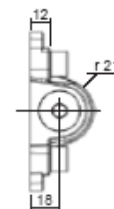
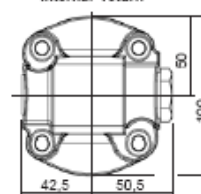
AR

with block configuration MBPS



Q

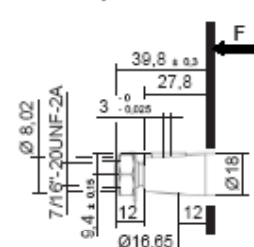
Flow control Internal return



Consult us for availability

SERIES 2,5 TYPE APK

DRIVING SHAFT

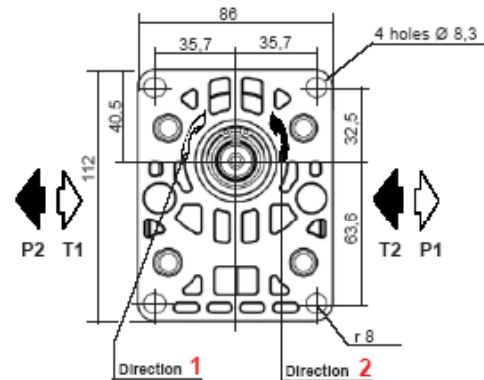
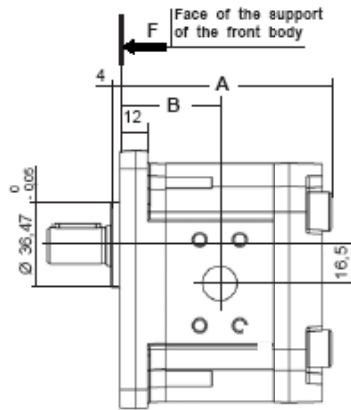
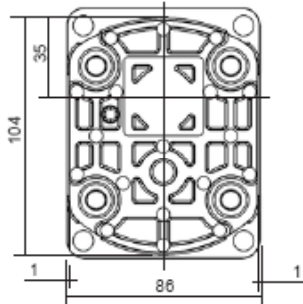
Tapered	Straight keyed	Splined	Tang
10	20	30	40
<p>B02 Taper 1/8</p>  <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>			

SERIES 2,5 TYPE BAN



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

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



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

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

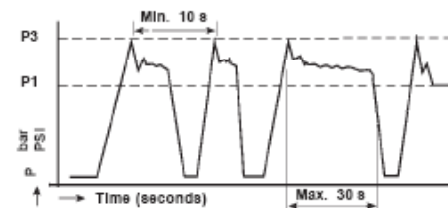
Seal kits:
 Nitrile: **K5069810**
 Viton: **K5069820**
 (For the manufacturings from January 1984)

MODEL	Capacity cc / rev	PEAK PRESSURE		MAX WORKING PRESSURE		Max. speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Max. speed			
							l / min	l / min			
2512	12	300	4350	255	3697	3500	18	42	2,35	22,45	2,3
2515	15,52	300	4350	240	3480	3500	23,25	52,5	3,04	29,03	2,6
2517	17,3	300	4350	220	3190	3500	25,95	60,55	3,30	32,36	2,7
2518	19,12	300	4350	215	3117	3500	28,65	66,8	3,75	35,77	2,7
2522	22,87	300	4350	190	2755	3500	34,2	79,8	4,48	42,78	2,8

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure ⇒



Consult us for availability



SERIES 2,5 TYPE BAN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

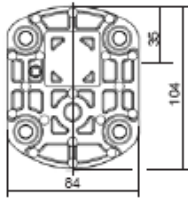
JTEKT
 Consult us for availability

SERIES 2,5 TYPE BAN

REAR BODIES

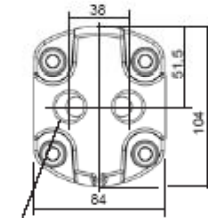
L

Standard



A

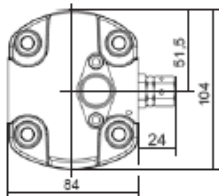
with ports



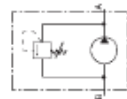
(2x) 1/2" BSP effective depth 14

X

High pressure relief valve (Adjustable) Internal return

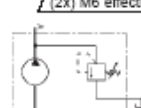
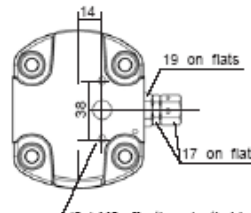


Blank port connector only internal return



T

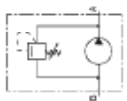
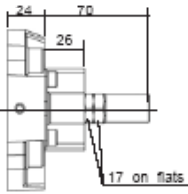
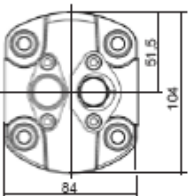
High pressure relief valve (Adjustable) External return



(2x) M6 effective depth 14

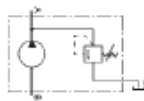
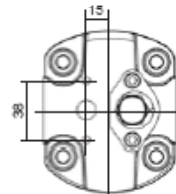
V

Low Pressure relief valve (Adjustable) Internal return



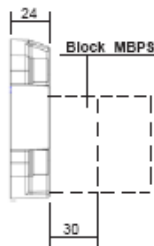
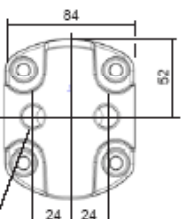
W

Low Pressure relief valve (Adjustable) External return



AR

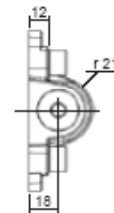
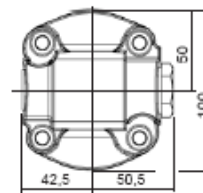
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

Q

Flow control Internal return



Consult us for availability

SERIES 2,5 TYPE BAN

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splinned shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>		
		<p>D01</p> <p>Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

Consult us for availability

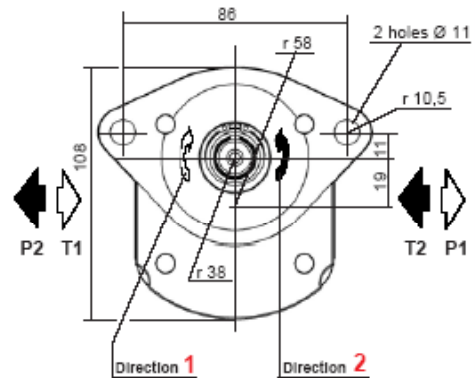
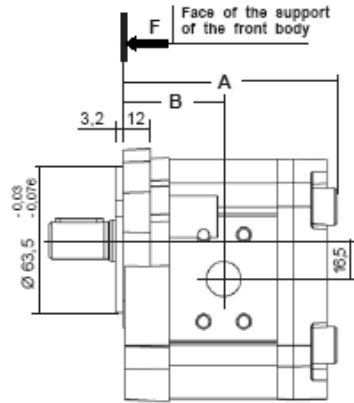
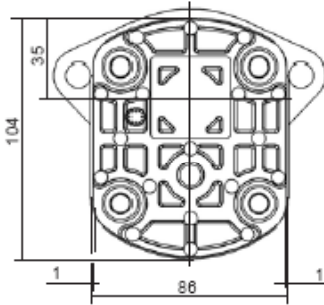


SERIES 2,5 TYPE CAN



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

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



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

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

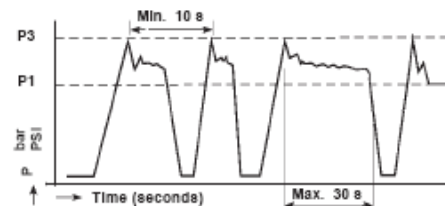
Seal kits:
 Nitrile: **K5069810**
 Viton: **K5069820**
 (For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure ⇒



Consult us for availability



SERIES 2,5 TYPE CAN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

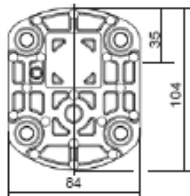
Consult us for availability

SERIES 2,5 TYPE CAN

REAR BODIES

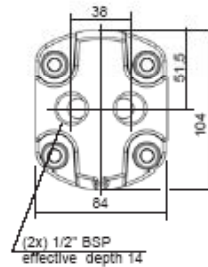
L

Standard



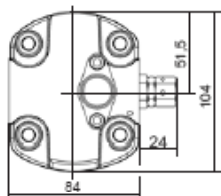
A

with ports

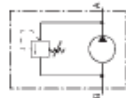


X

High pressure relief valve (Adjustable) Internal return

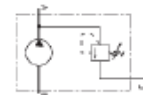
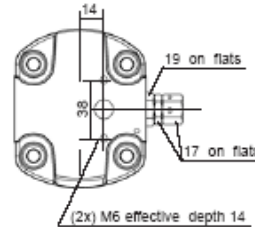


Blank port connector only internal return



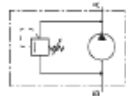
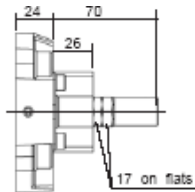
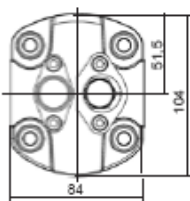
T

High pressure relief valve (Adjustable) External return



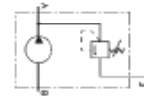
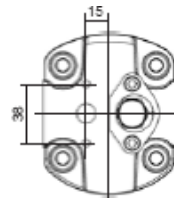
V

Low Pressure relief valve (Adjustable) Internal return



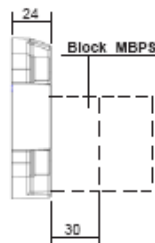
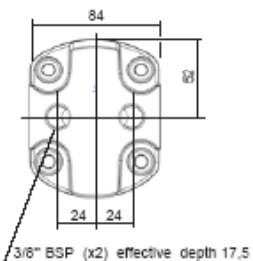
W

Low Pressure relief valve (Adjustable) External return



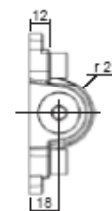
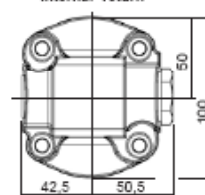
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability

SERIES 2,5 TYPE CAN

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841 <u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle <u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splined shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317 <u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spligot on free flanks <u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>		
		<p>D01</p> <p>Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spligot on free flanks <u>Maxi transmissible torque</u> 100 N.m</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle <u>Maxi transmissible torque</u> 100 N.m</p>

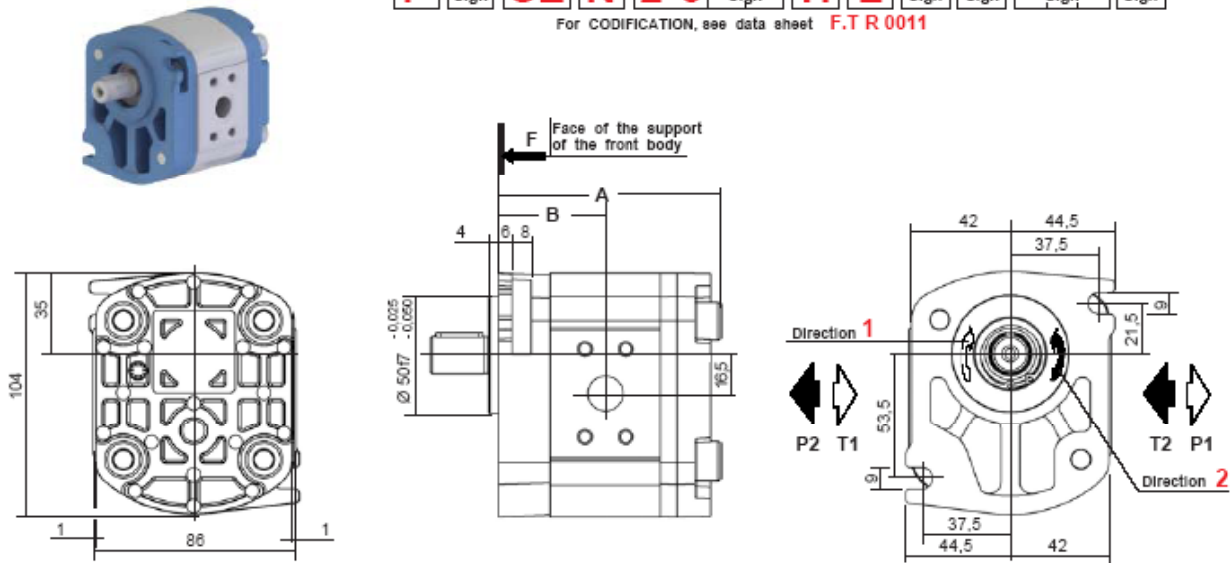
Consult us for availability



SERIES 2,5 TYPE CEN

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

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



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

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

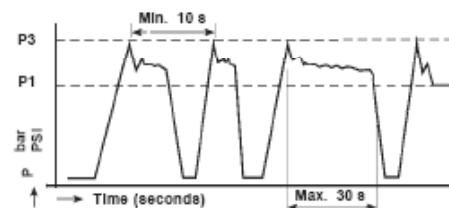
Seal kits:
 Nitrile: **K5069810**
 Viton: **K5069820**
 (For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability



SERIES 2,5 TYPE CEN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

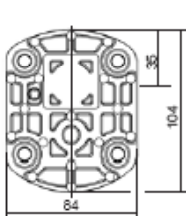


SERIES 2,5 TYPE CEN

REAR BODIES

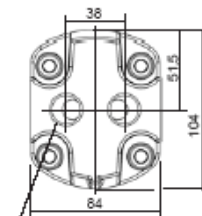
L

Standard



A

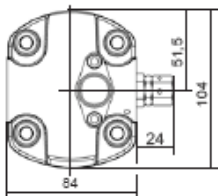
with ports



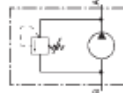
(2x) 1/2" BSP effective depth 14

X

High pressure relief valve (Adjustable) Internal return

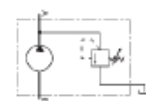
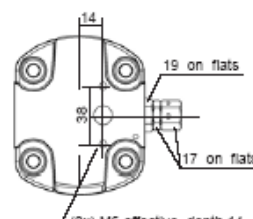


Blank port connector only internal return



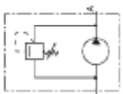
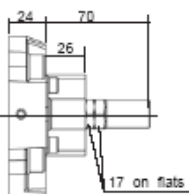
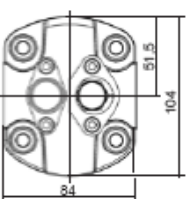
T

High pressure relief valve (Adjustable) External return



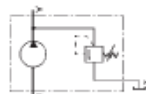
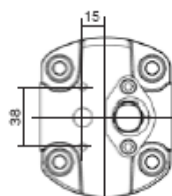
V

Low Pressure relief valve (Adjustable) Internal return



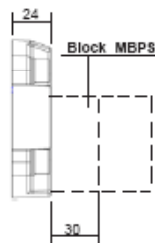
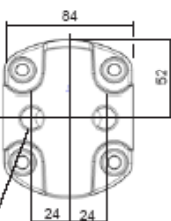
W

Low Pressure relief valve (Adjustable) External return



AR

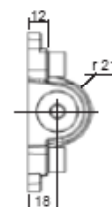
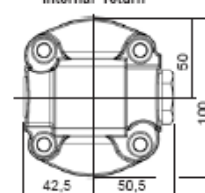
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

Q

Flow control Internal return



Consult us for availability

SERIES 2,5 TYPE CEN

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splined shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>		
		<p>D01</p> <p>Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
			<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

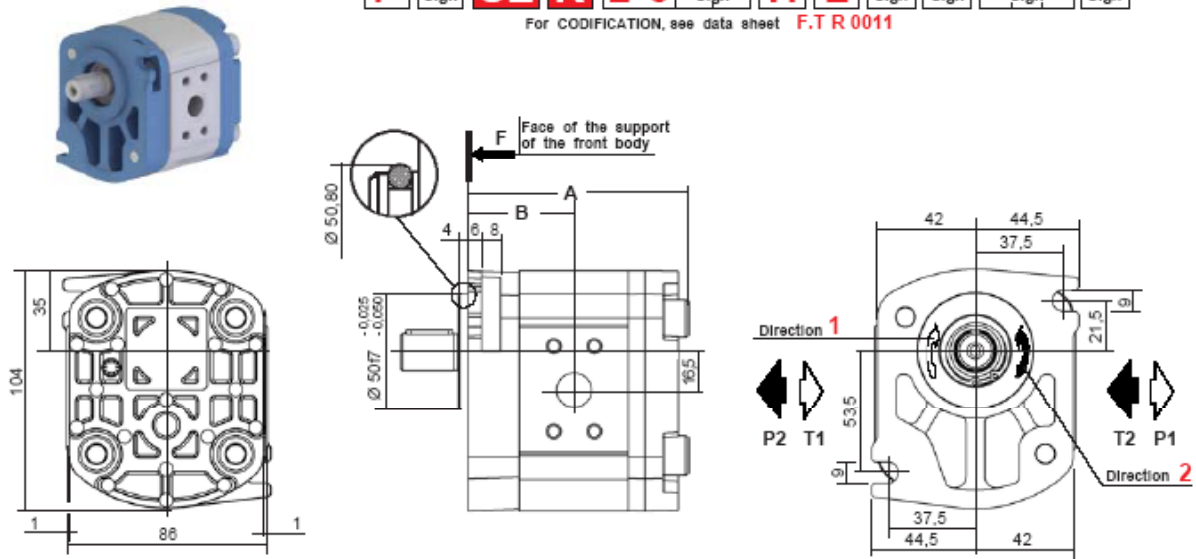
Consult us for availability



SERIES 2,5 TYPE CEK

P II Sign **CEK** **25** VI Sign **HL** IX Sign X Sign I XI Sign XII Sign

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



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

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

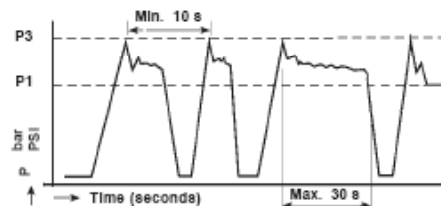
Seal kits:
 Nitrile: **K5069810 + K102238**
 Viton: **K5069820**
 (For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability



SERIES 2,5 TYPE CEK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

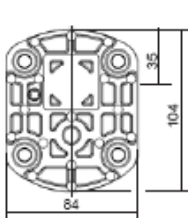
 H (HPI)	Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
		2512 2514 2515 2517 2518 2522	26	47,6	22,4	M6	12	15	17,4	38	M6	12	1" BSP N: 2.500496 V: 2.504117
 C (Square)	2512 2514 2515 2517 2518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

SERIES 2,5 TYPE CEK

REAR BODIES

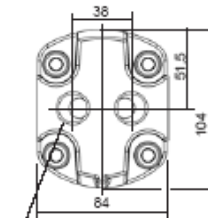
L

Standard



A

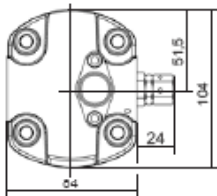
with ports



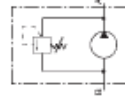
(2x) 1/2" BSP effective depth 14

X

High pressure relief valve (Adjustable) Internal return

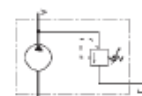
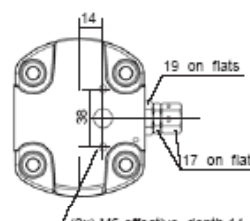


Blank port connector only internal return



T

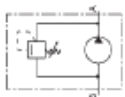
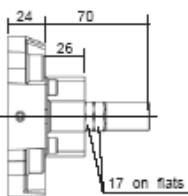
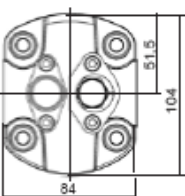
High pressure relief valve (Adjustable) External return



(2x) M6 effective depth 14

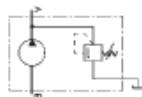
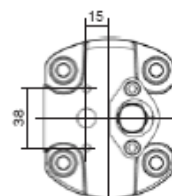
V

Low Pressure relief valve (Adjustable) Internal return



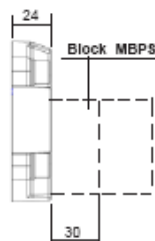
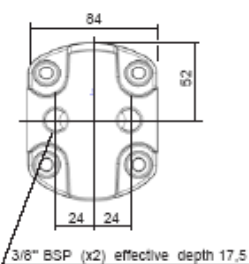
W

Low Pressure relief valve (Adjustable) External return



AR

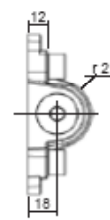
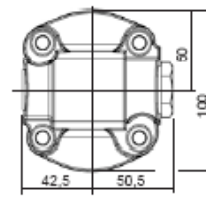
with block configuration MBPS



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

Q

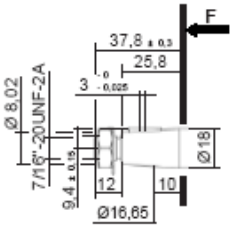
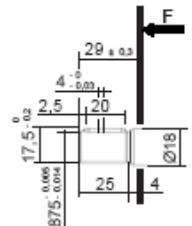
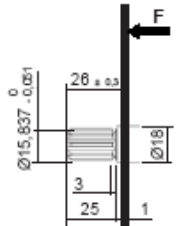
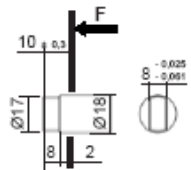
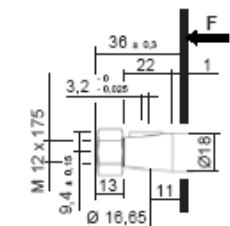
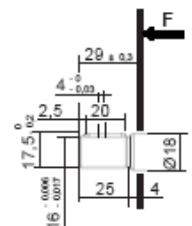
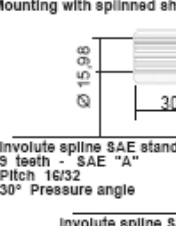


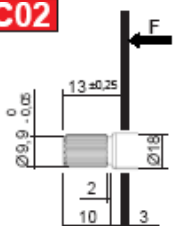
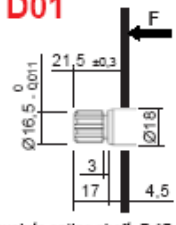
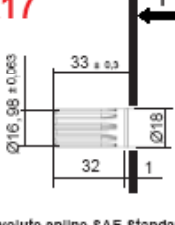
Flow control Internal return




Consult us for availability

SERIES 2,5 TYPE CEK

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p>  <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p>  <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p>  <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>C03</p>  <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p>  <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p>  <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p>  <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>C03</p>  <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>A08</p>  <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p>  <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>D01</p>  <p>Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>A17</p>  <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

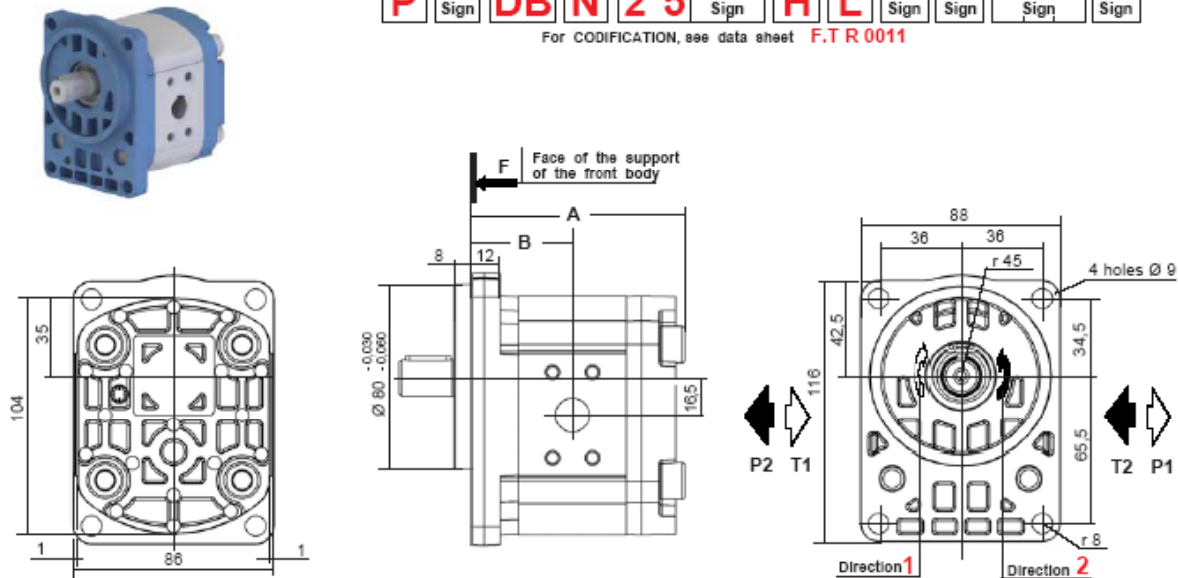
 Consult us for availability



SERIES 2,5 TYPE DBN

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

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



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

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

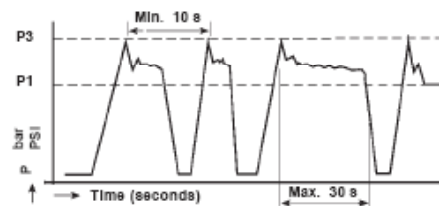
Seal kits:
 Nitrile: **K5069810**
 Viton: **K5069820**
 (For the manufacturings from January 1984)

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

Maximum pressure in continuous duty.

Maximum Pressure ⇒

Allowable peak pressure.



 Consult us for availability



SERIES 2,5 TYPE DBN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

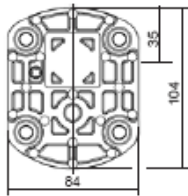
	Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
		H (HPI) Ø F effective depth G	2512 2514 2515 2517 2518 2522	26	47,6	22,4	M6	12	15	17,4	38	M6	12
C (Square) Ø F effective depth G	2512 2514 2515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

SERIES 2,5 TYPE DBN

REAR BODIES

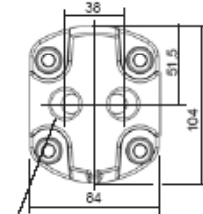
L

Standard



A

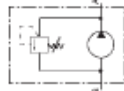
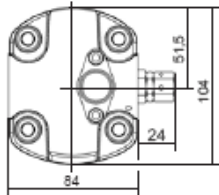
with ports



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

X

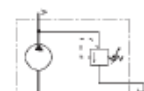
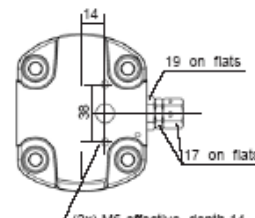
High pressure relief valve (Adjustable) Internal return



Blank port connector only internal return

T

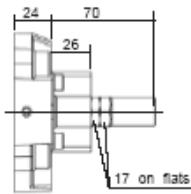
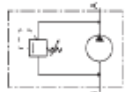
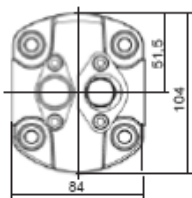
High pressure relief valve (Adjustable) External return



(2x) M6 effective depth 14

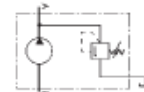
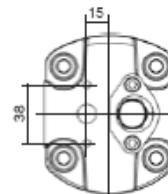
V

Low Pressure relief valve (Adjustable) Internal return



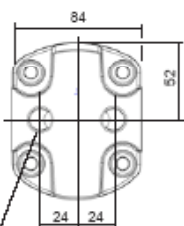
W

Low Pressure relief valve (Adjustable) External return

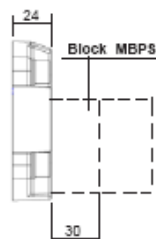


AR

with block configuration MBPS

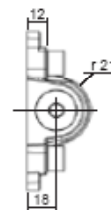
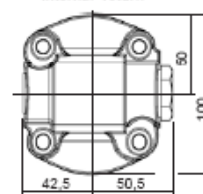


3/8" BSP (x2) effective depth 17.5



Q

Flow control Internal return



Consult us for availability



SERIES 2,5 TYPE DBN

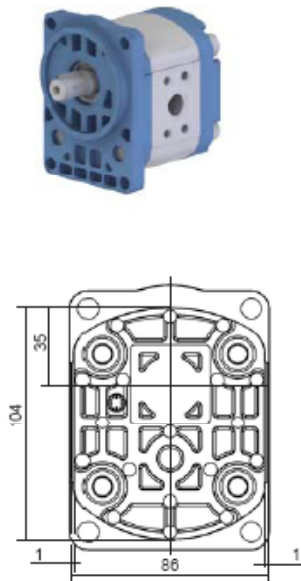
DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
		<p>D01</p> <p>Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

Consult us for availability

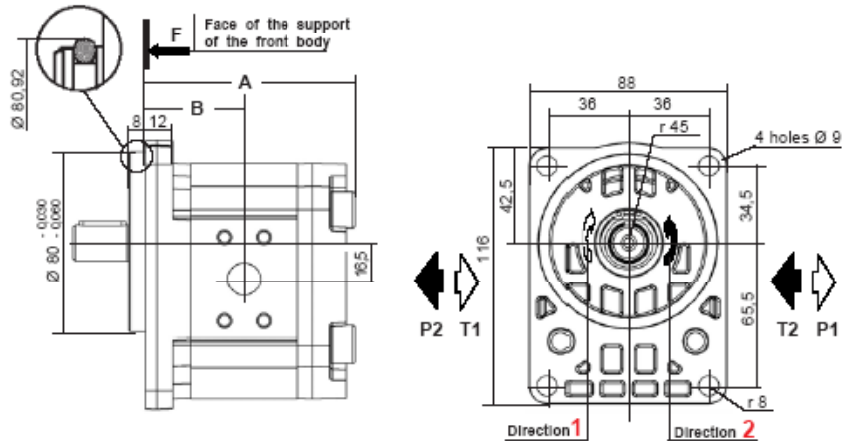


SERIES 2,5 TYPE DBK



P II Sign **DBK** **25** VI Sign **HL** IX Sign X Sign I XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions		
	A	B	C
12	105	49	94
15 - 17 - 18 - 22	121	57	110

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

Seal kits:

Nitrile: **K5069810**

Viton: **K5069820**

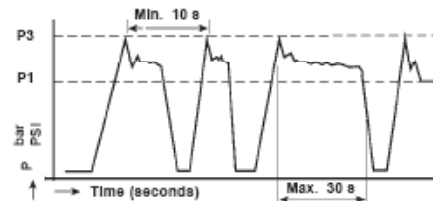
(For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure ⇒



Consult us for availability

SERIES 2,5 TYPE DBK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

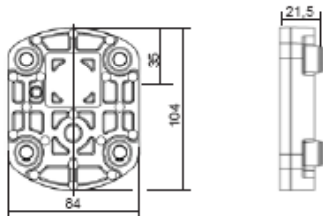


SERIES 2,5 TYPE DBK

REAR BODIES

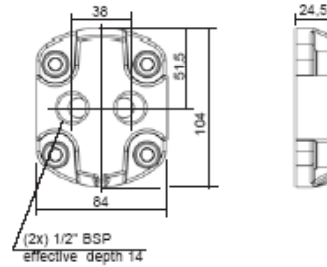
L

Standard



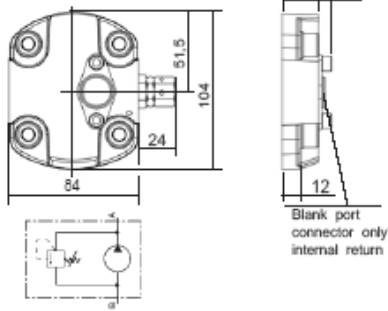
A

with ports



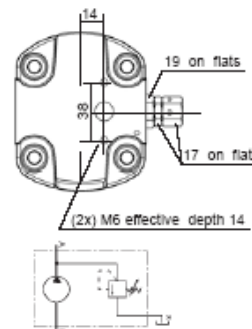
X

High pressure relief valve (Adjustable) Internal return



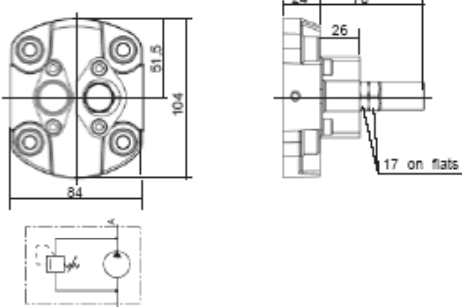
T

High pressure relief valve (Adjustable) External return



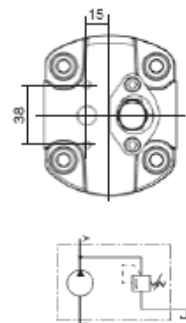
V

Low Pressure relief valve (Adjustable) Internal return



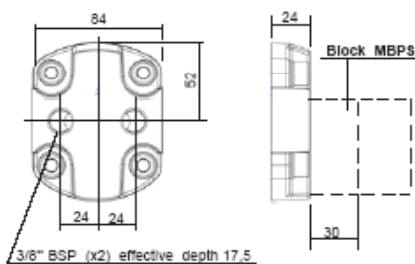
W

Low Pressure relief valve (Adjustable) External return



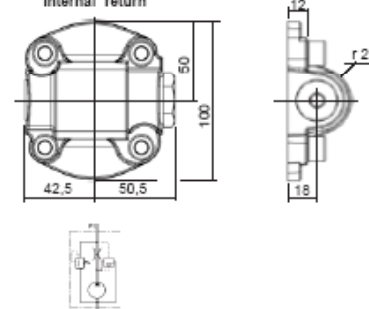
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability

SERIES 2,5 TYPE DBK

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle <u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splined shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks <u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>		
		<p>D01</p> <p>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</p>	
			<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle <u>Maxi transmissible torque</u> 100 N.m</p>

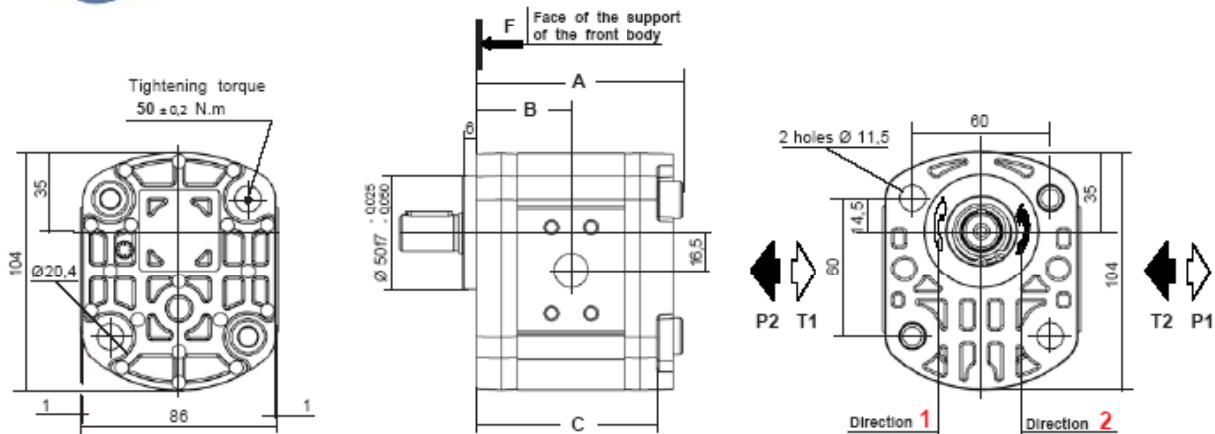
Consult us for availability



SERIES 2,5 TYPE DCN



P II Sign **DCN 25** VI Sign **HL** IX Sign X Sign XI Sign XII Sign
 For CODIFICATION, see data sheet **F.T.R 0011**



CHOICE of the Capacity	Dimensions		
	A	B	C
12	105	49	94
15 - 17 - 18 - 22	121	57	110

Multiple geared pumps, see data sheet **F.T.25 1313**

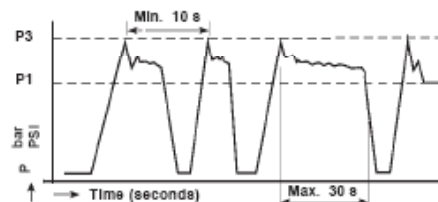
Seal kits:
 Nitrile: **K5069890**
 Viton: **K5069820**
 (For the manufacturing from January 1984)

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

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure \Rightarrow



Consult us for availability



SERIES 2,5 TYPE DCN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

Consult us for availability

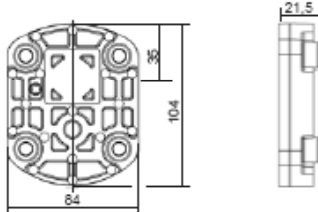
JTEKT
HPI

SERIES 2,5 TYPE DCN

REAR BODIES

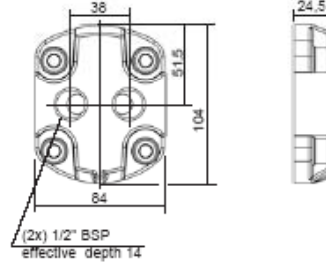
L

Standard



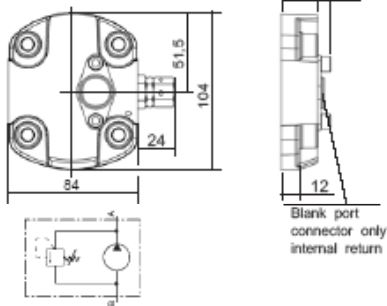
A

with ports



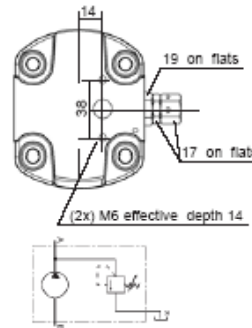
X

High pressure relief valve (Adjustable) Internal return



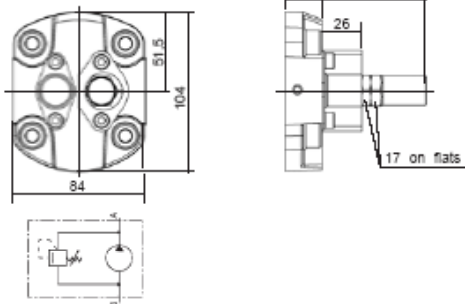
T

High pressure relief valve (Adjustable) External return



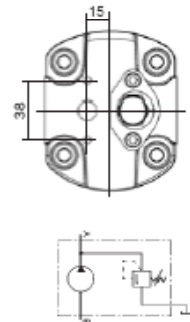
V

Low Pressure relief valve (Adjustable) Internal return



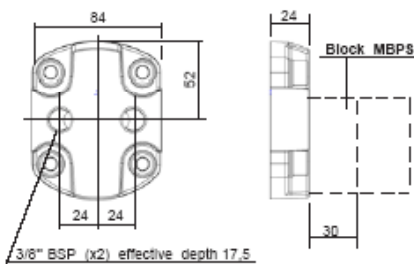
W

Low Pressure relief valve (Adjustable) External return



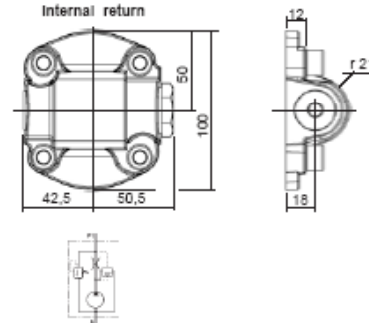
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability

SERIES 2,5 TYPE DCN

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle <u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splined shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks <u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>		
		<p>D01</p> <p>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</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle <u>Maxi transmissible torque</u> 100 N.m</p>

Consult us for availability

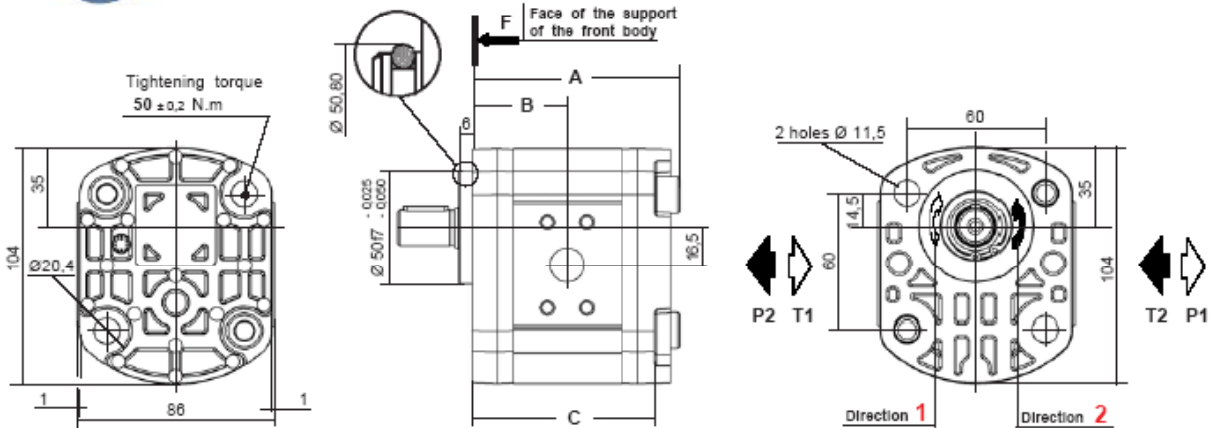


SERIES 2,5 TYPE DCK



P II Sign **DC K 2 5** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions		
	A	B	C
12	105	49	94
15 - 17 - 18 - 22	121	57	110

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

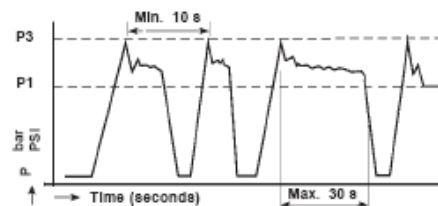
Seal kits:
 Nitrile: **K5069890 + K101513**
 Viton: **K5069820 + K101326**
 (For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability



SERIES 2,5 TYPE DCK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

Consult us for availability

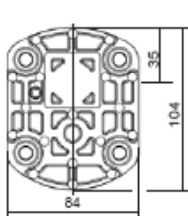
JTEKT

SERIES 2,5 TYPE DCK

REAR BODIES

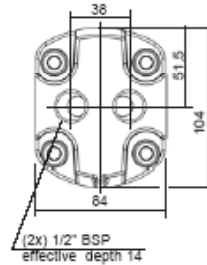
L

Standard



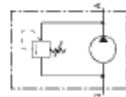
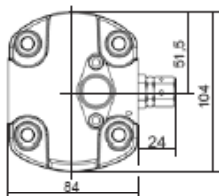
A

with ports



X

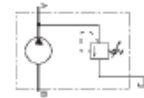
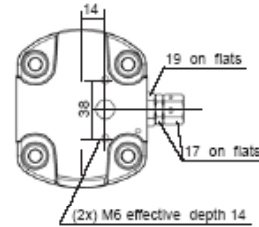
High pressure relief valve (Adjustable) internal return



Blank port connector only internal return

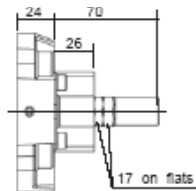
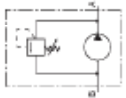
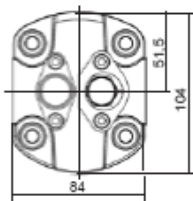
T

High pressure relief valve (Adjustable) External return



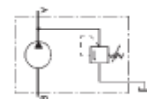
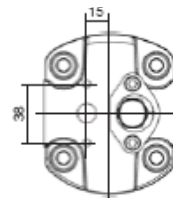
V

Low Pressure relief valve (Adjustable) internal return



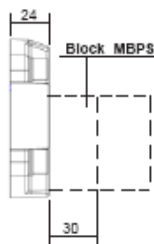
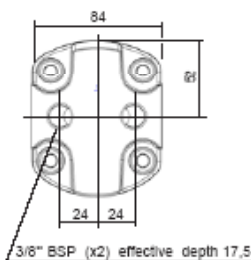
W

Low Pressure relief valve (Adjustable) External return



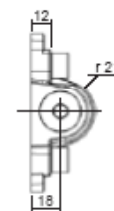
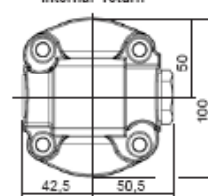
AR

with block configuration MBPS



Q

Flow control internal return



Consult us for availability

SERIES 2,5 TYPE DCK

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100641</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splined shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>		
		<p>D01</p> <p>Involute spline shaft B 17 x 14 5 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
			<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

Consult us for availability

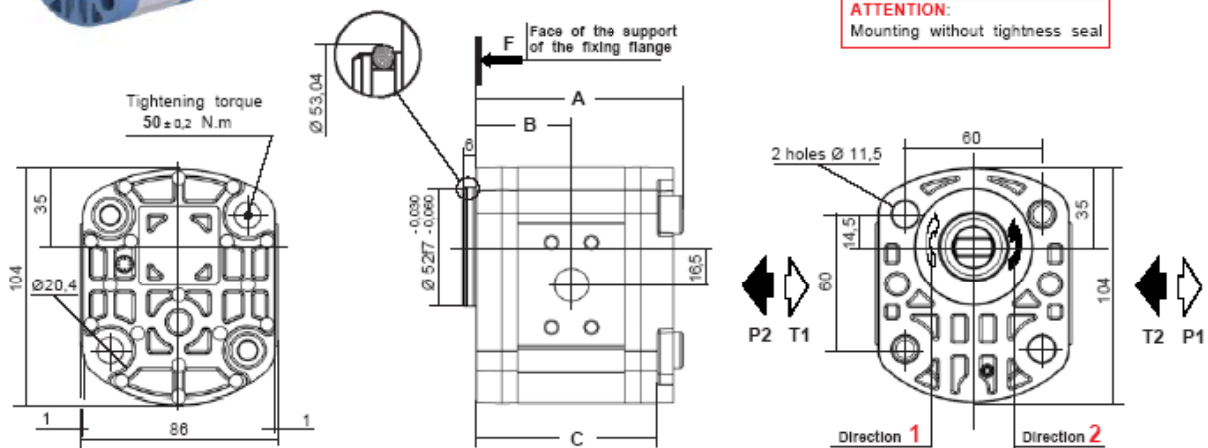


SERIES 2,5 TYPE DUK



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

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



CHOICE of the Capacity	Dimensions		
	A	B	C
12	105	49	94
15 - 17 - 18 - 22	121	57	110

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

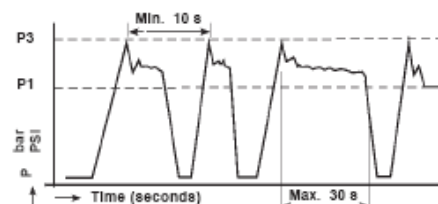
Seal kits:
Nitrile: **K5069830 + K102539**
Viton: **K5069840 + K107013**
(For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure →

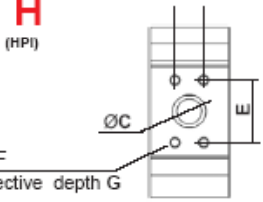
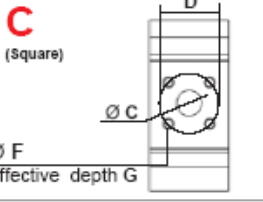
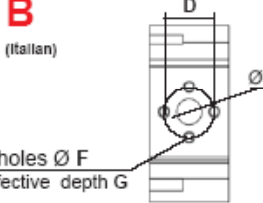
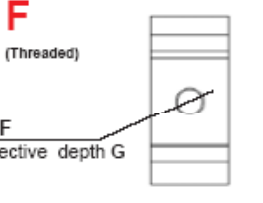
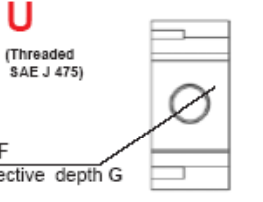
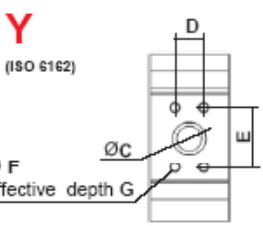
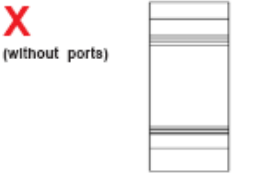


Consult us for availability



SERIES 2,5 TYPE DUK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

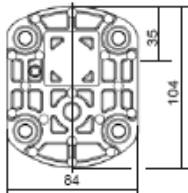
	Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
		H (HPI) 	2512 2514 2515 2517 2518 2522	26	47,6	22,4	M6	12	15	17,4	38	M6	12
C (Square) 	2512 2514 2515 2517 2518 2522	20	40		M6	12	15	35		M6	12	3 / 4" BSP N: 367141.503	1 / 2" BSP N: 367141.703
B (Italian) 	2512 2514 2515 2517 2518 2522	23,5	40		M8	13	15	30		M6	13	1 / 2" BSP N: X.367508.101 3 / 4" BSP N: X.367508.102	3 / 8" BSP N: X.367508.201 1 / 2" BSP N: X.367508.202
F (Threaded) 	2512 2514 2515 2647 2518 2522				1" Gaz	18				1/2" Gaz	14		
U (Threaded SAE J 475) 	2512 2514 2515 2517 2518 2522				1"5/16 12 UNF 2B	20				7/8" 14 UNF 2B	17		
					1"5/16 12 UNF 2B	20				1"1/16 12 UNF 2B	20		
Y (ISO 6162) 	2512 2514 2515 2517 2518 2522	26	47,6	22,4	M10	14	15	17,4	38	M8	14		
		26	52,4	20,2	M10	14	15	17,4	30	M8	14		
X (without ports) 	2512 2514 2515 2517 2518 2522	Only with rear body Type A											

SERIES 2,5 TYPE DUK

REAR BODIES

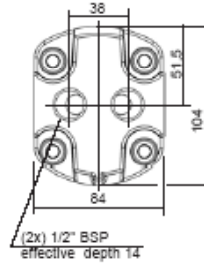
L

Standard



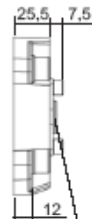
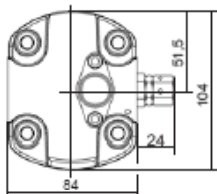
A

with ports

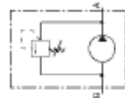


X

High pressure relief valve (Adjustable) Internal return

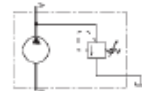
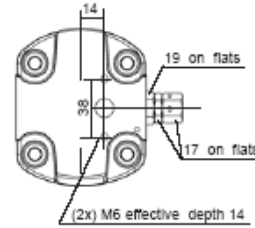


Blank port connector only internal return



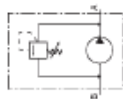
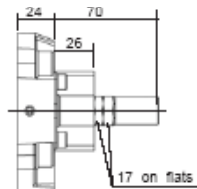
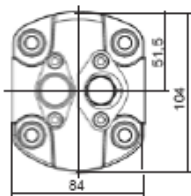
T

High pressure relief valve (Adjustable) External return



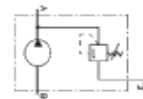
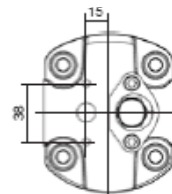
V

Low Pressure relief valve (Adjustable) internal return



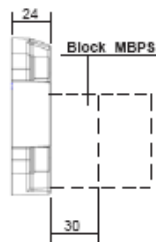
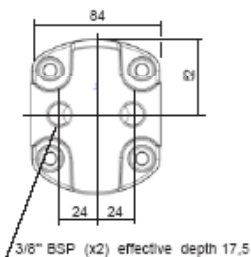
W

Low Pressure relief valve (Adjustable) External return



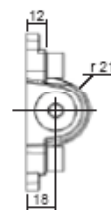
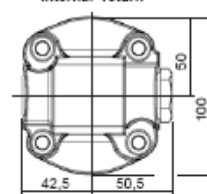
AR

with block configuration MBPS



Q

Flow control Internal return



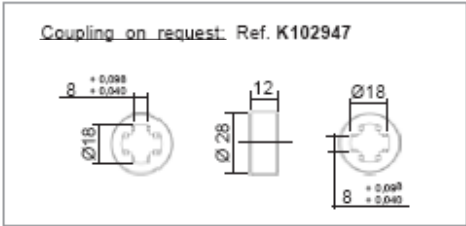
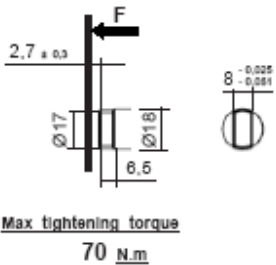
Consult us for availability

SERIES 2,5 TYPE DUK

DRIVING SHAFT (DUK)

Tapered	Straight keyed	Splined	Tang
10	20	30	40

D02

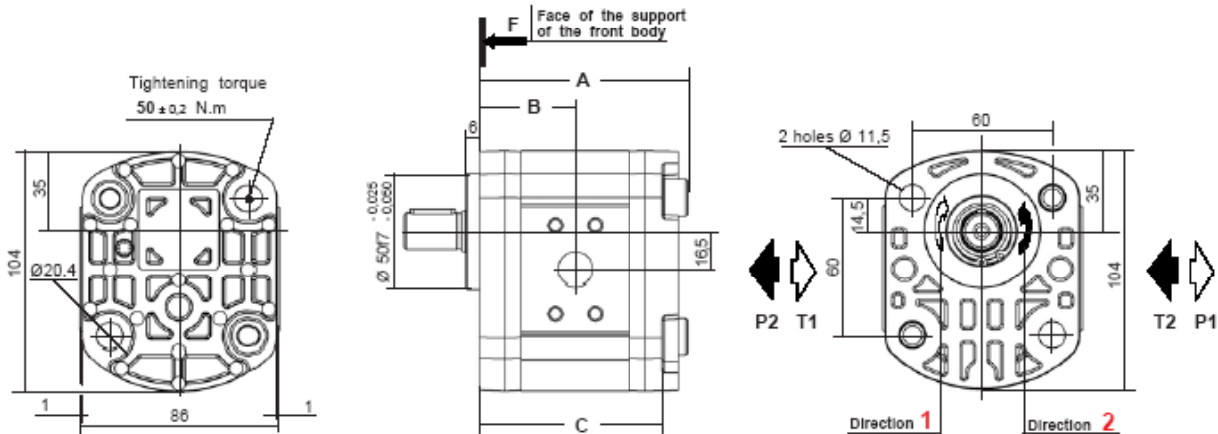


SERIES 2,5 TYPE DWN



P **II** **DW** **N** **2** **5** **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 0011**



CHOICE of the Capacity	Dimensions		
	A	B	C
12	105	49	94
15 - 17 - 18 - 22	121	57	110

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

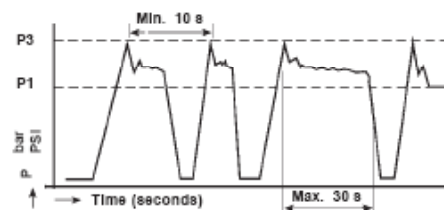
Seal kits:
 Nitrile: **K5069890**
 Viton: **K5069820**
 (For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure ⇒

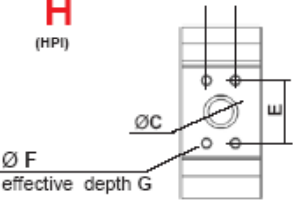
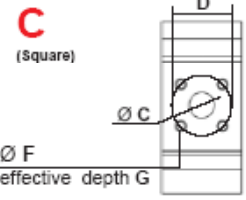
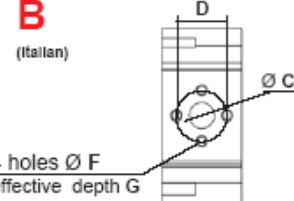
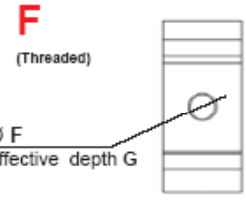
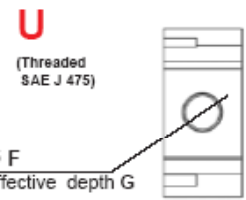
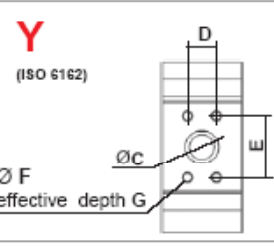
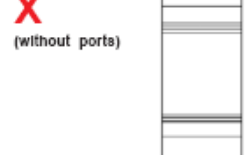


Consult us for availability



SERIES 2,5 TYPE DWN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

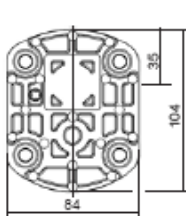
 H (HPI)	Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
	2512 2514 2515 2517 2518 2522	26	47,6	22,4	M6	12	15	17,4	38	M6	12	1" BSP N: 2.500496 V: 2.504117	1/2" BSP N: 2.500055 V: 2.504126
 C (Square)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

SERIES 2,5 TYPE DWN

REAR BODIES

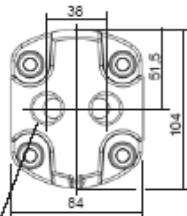
L

Standard



A

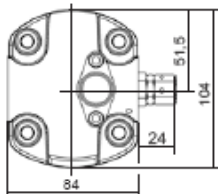
with ports



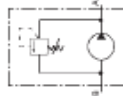
(2x) 1/2" BSP
effective depth 14

X

High pressure relief valve
(Adjustable) Internal return

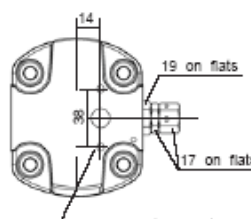


Blank port
connector only
internal return

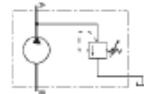


T

High pressure relief valve
(Adjustable) External return

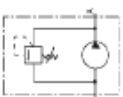
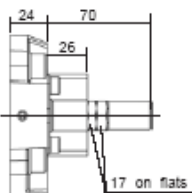
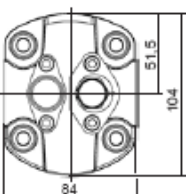


(2x) M6 effective depth 14



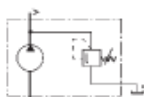
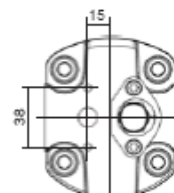
V

Low Pressure relief valve
(Adjustable) Internal return



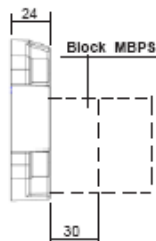
W

Low Pressure relief valve
(Adjustable) External return



AR

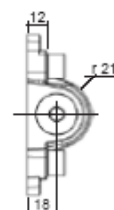
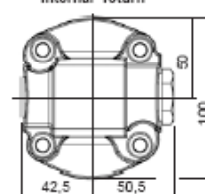
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

Q

Flow control
Internal return



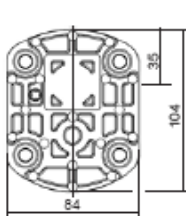
Consult us for availability

SERIES 2,5 TYPE DWN

REAR BODIES

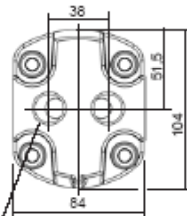
L

Standard



A

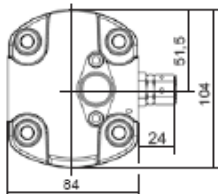
with ports



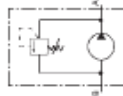
(2x) 1/2" BSP
effective depth 14

X

High pressure relief valve
(Adjustable) Internal return

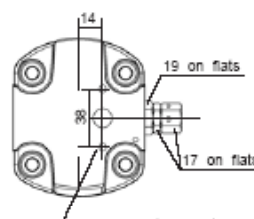


Blank port
connector only
internal return

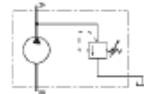


T

High pressure relief valve
(Adjustable) External return

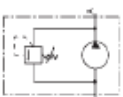
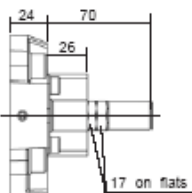
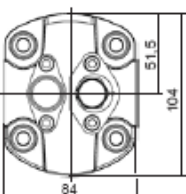


(2x) M6 effective depth 14



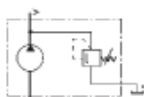
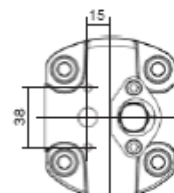
V

Low Pressure relief valve
(Adjustable) Internal return



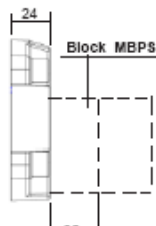
W

Low Pressure relief valve
(Adjustable) External return



AR

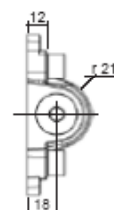
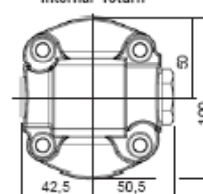
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

Q

Flow control
Internal return



Consult us for availability

SERIES 2,5 TYPE DWN

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B02 Cône 1/8</p> <p>Delivered with nut: K100841</p> <p><u>Maxi transmissible torque</u> 250 N.m</p>	<p>A01</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>A01</p> <p>Involute spline SAE Standard 9 teeth - Pitch 16/32 - Flat root 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p> <p>Sleeve coupling 9 teeth / 13 teeth Ref.: K.5041310 Mounting with splinned shaft 30 A01</p> <p>Involute spline SAE standard 9 teeth - SAE "A" Pitch 16/32 30° Pressure angle</p> <p>Involute spline SAE Standard 13 teeth - SAE "B" Pitch 16/32 30° Pressure angle</p>	<p>C03</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>C02 Cône 1/5</p> <p>Delivered with nut: K106317</p> <p><u>Maxi transmissible torque</u> 220 N.m</p>	<p>C02</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>	<p>C02</p> <p>Involute spline shaft 17x15x1 Standard NF E 22 141 - BNA 455 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	
	<p>A08</p> <p><u>Maxi transmissible torque</u> 50 N.m</p>		
		<p>D01</p> <p>Involute spline shaft B 17 x 14 9 teeth - Standard DIN 5482 - Module 1,6 Spigot on free flanks</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>	<p>A17</p> <p>Involute spline SAE Standard 12 teeth - Pitch 16/32 - Flat root 20° Pressure angle</p> <p><u>Maxi transmissible torque</u> 100 N.m</p>

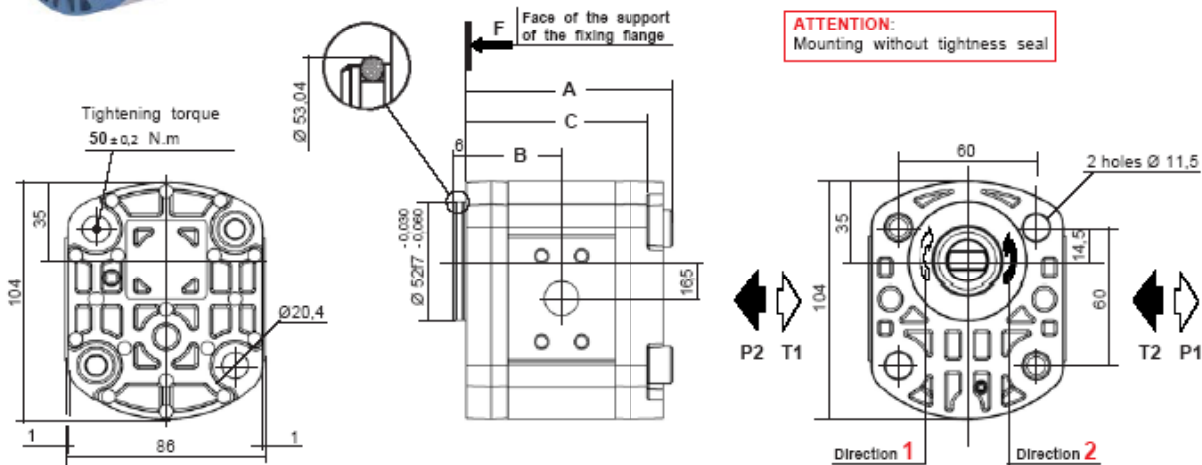
Consult us for availability



SERIES 2,5 TYPE DZK



P II Sign **DZ K 2 5** VI Sign **H L 4 0 D 02** XII Sign
 For CODIFICATION, see data sheet **F.T R 0011**



CHOICE of the Capacity	Dimensions		
	A	B	C
12	105	49	94
15 - 17 - 18 - 22	121	57	110

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

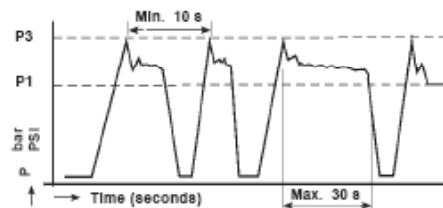
Seal kits:
 Nitrile: **K5069830 + K102539**
 Viton: **K5069840 + K107013**
 (For the manufacturings from January 1984)

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

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure ⇒



Consult us for availability



SERIES 2,5 TYPE DZK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

<p>H (HPI)</p>	Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
		<p>C (Square)</p>	<p>2512 2514 2515 2517 2518 2522</p>	26	47,6	22,4	M6	12	15	17,4	38	M6	12
<p>B (Italian)</p>	<p>2512 2514 2515 2517 2518 2522</p>	20	40		M6	12	15	35		M6	12	3/4" BSP N: 367141.503	1/2" BSP N: 367141.703
<p>F (Threaded)</p>	<p>2512 2514 2515 2517 2518 2522</p>	23,5	40		M8	13	15	30		M6	13	1/2" BSP N: X.367508.101 3/4" BSP N: X.367508.102	3/8" BSP N: X.367508.201 1/2" BSP N: X.367508.202
<p>U (Threaded SAE J 475)</p>	<p>2512 2514 2515 2517 2518 2522</p>												
<p>Y (ISO 6162)</p>	<p>2512 2514 2515 2517 2518 2522</p>												
<p>X (without ports)</p>	<p>2512 2514 2515 2517 2518 2522</p>												



JTEKT

Consult us for availability

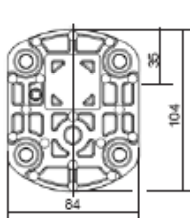


SERIES 2,5 TYPE DZK

REAR BODIES

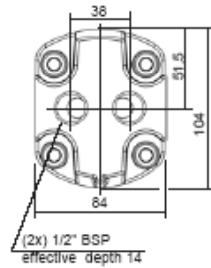
L

Standard



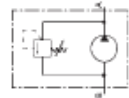
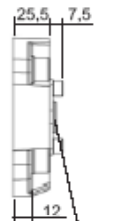
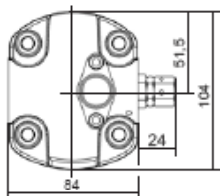
A

with ports



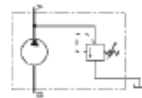
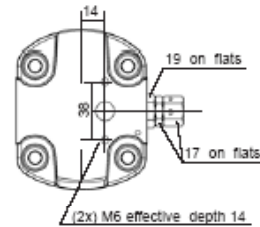
X

High pressure relief valve (Adjustable) Internal return



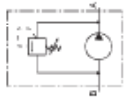
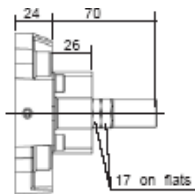
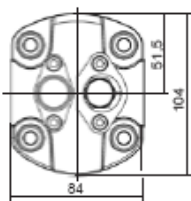
T

High pressure relief valve (Adjustable) External return



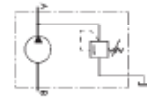
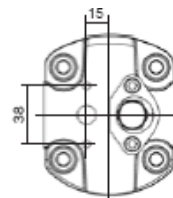
V

Low Pressure relief valve (Adjustable) Internal return



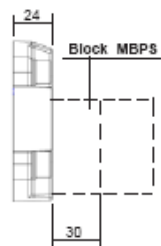
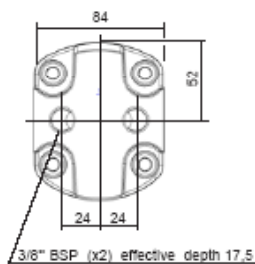
W

Low Pressure relief valve (Adjustable) External return



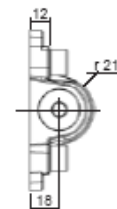
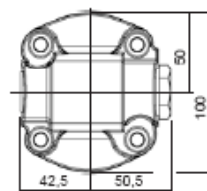
AR

with block configuration MBPS



Q

Flow control Internal return



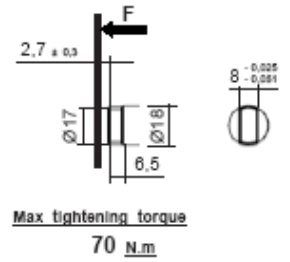
Consult us for availability

SERIES 2,5 TYPE DZK

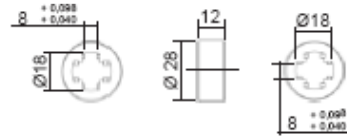
DRIVING SHAFT (DZK)

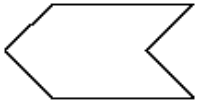
Tapered	Straight keyed	Splined	Tang
10	20	30	40

D02



Coupling on request: Ref. K102947





PUMPS PRESENTATION
SERIES 2 and 2,5

F.T 20 1299

- THICK FRONT BODIES

PUMP

AAP



F.T 251340

PUMP

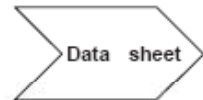
AAR



F.T 25 1342

PUMP

ARP



F.T 25 1344

PUMP

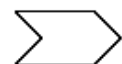
ARK



F.T 25 1346



Consult us for availability



- THICK FRONT BODIES (rest)

PUMP

DBP

F.T 25 1348

PUMP

DBR

F.T 25 1350



F.T 20 1306

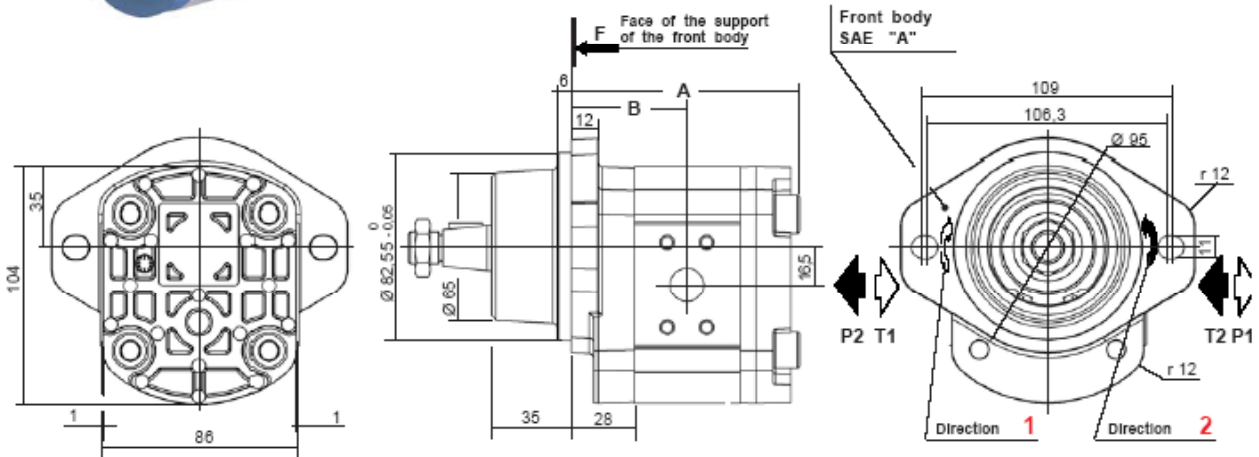
MULTIPLES
PUMPS

SERIES 2,5 TYPE AAP



P II Sign **AA** P **25** VI Sign **H L** IX Sign X Sign **C03** XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
12	115	59
15 - 17 - 18 - 22	131	67

Multiple geared pumps. see data sheet **F.T 20 1306**

Seal kits:

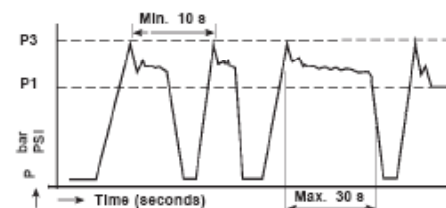
Nitrile: **K5069870 + K5069830**
 Viton: **K5069880 + K5069840**
 (For the manufacturings from february 1986)

MODEL	Capacity cc / rev	PEAK PRESSURE		MAX WORKING PRESSURE		Max. speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Max. speed			
							l / min	l / min			
2512	12	300	4350	255	3697	3500	18	42	2,35	22,45	2,8
2515	15,52	300	4350	240	3480	3500	23,25	52,5	3,04	29,03	3,1
2517	17,3	300	4350	220	3190	3500	25,95	60,55	3,30	32,36	3,2
2518	19,12	300	4350	215	3117	3500	28,65	66,8	3,75	35,77	3,3
2522	22,87	300	4350	190	2755	3500	34,2	79,8	4,48	42,78	3,4

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure ⇒



Consult us for availability



SERIES 2,5 TYPE AAP

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

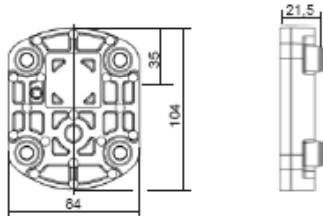
Consult us for availability **JTEKT**
HPI

SERIES 2,5 TYPE AAP

REAR BODIES

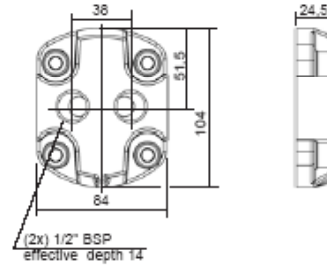
L

Standard



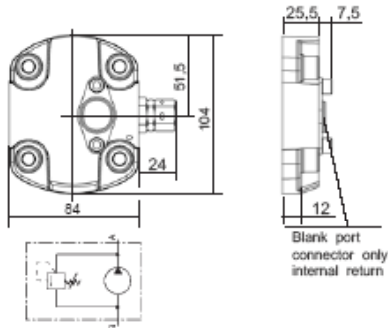
A

with ports



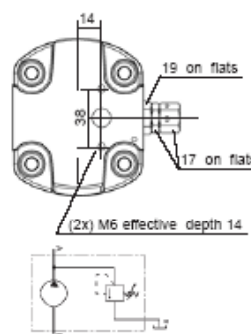
X

High pressure relief valve (Adjustable) Internal return



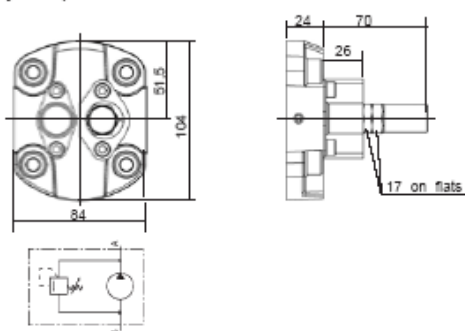
T

High pressure relief valve (Adjustable) External return



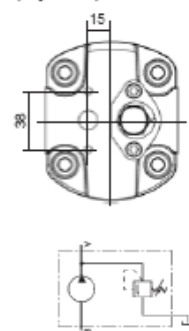
V

Low Pressure relief valve (Adjustable) Internal return



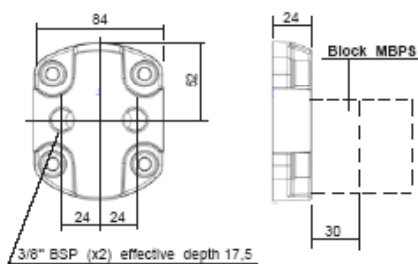
W

Low Pressure relief valve (Adjustable) External return



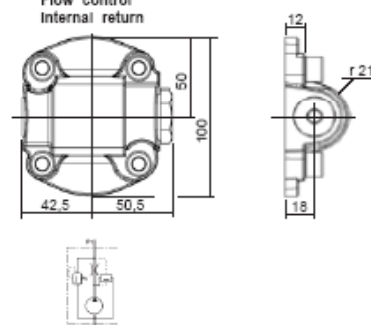
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability

SERIES 2,5 TYPE AAP

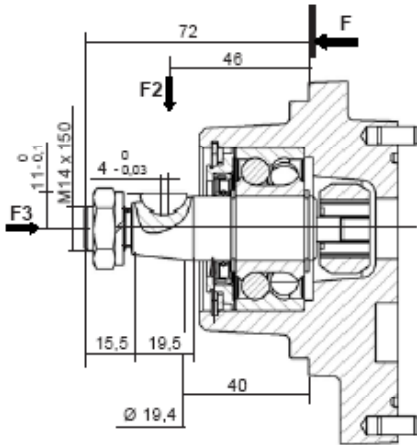
DRIVING SHAFTS

Tapered

10

C03

Taper 1/5



Supplied with nut: 102 045

F2 Maxi: 120 daN

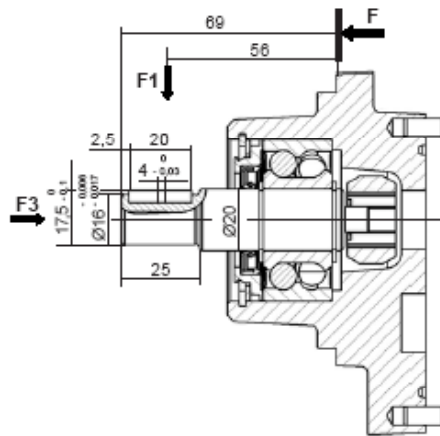
F3 Maxi: 50 daN

Maxi transmissible torque
50 N.m

Straight keyed

20

C03

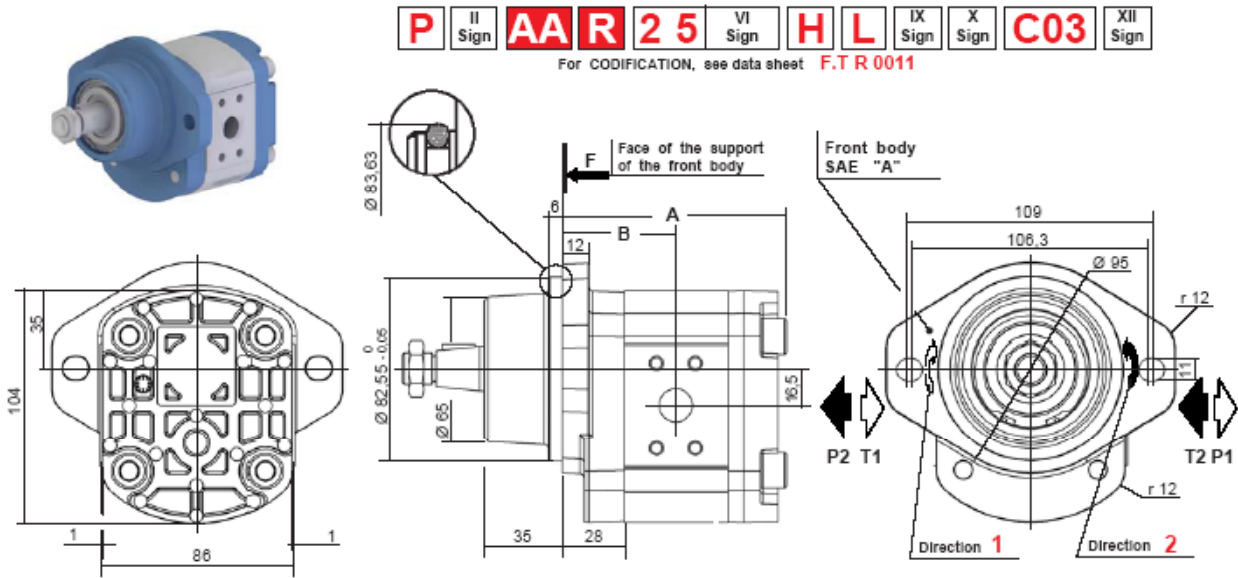


F1 Maxi: 100 daN

F3 Maxi: 50 daN

Maxi transmissible torque
50 N.m

SERIES 2,5 TYPE AAR



P II Sign **AA R 2 5** VI Sign **H L** IX Sign **X** Sign **C03** XII Sign
 For CODIFICATION, see data sheet **F.T R 0011**

CHOICE of the Capacity	Dimensions	
	A	B
12	115	59
15 - 17 - 18 - 22	131	67

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

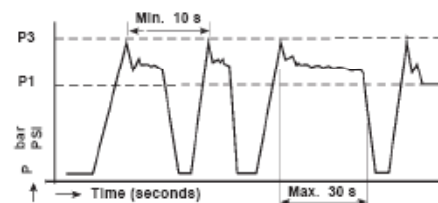
Seal kits:
 Nitrile: **K5069870 + K5069830 + K102901**
 Viton: **K5069880 + K5069840 + K104093**
 (For the manufacturings from february 1986)

MODEL	Capacity cc / rev	PEAK PRESSURE		MAX WORKING PRESSURE		Max. speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Max. speed			
							l / min	l / min			
2512	12	300	4350	255	3697	3500	18	42	2,35	22,45	2,8
2515	15,52	300	4350	240	3480	3500	23,25	52,5	3,04	29,03	3,1
2517	17,3	300	4350	220	3190	3500	25,95	60,55	3,39	32,36	3,2
2518	19,12	300	4350	215	3117	3500	28,65	66,8	3,75	35,77	3,3
2522	22,87	300	4350	190	2755	3500	34,2	79,8	4,48	42,78	3,4

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure →



Consult us for availability

SERIES 2,5 TYPE AAR

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

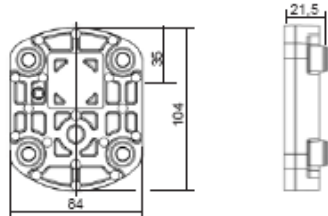
Consult us for availability

SERIES 2,5 TYPE AAR

REAR BODIES

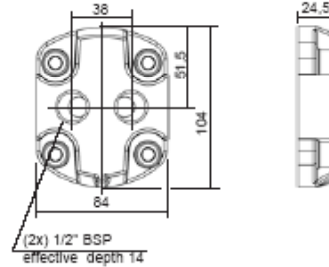
L

Standard



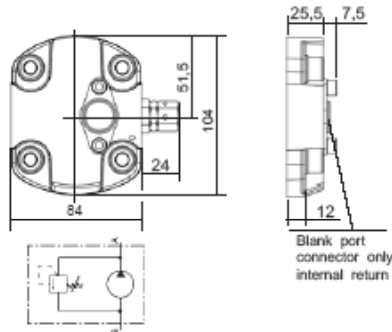
A

with ports



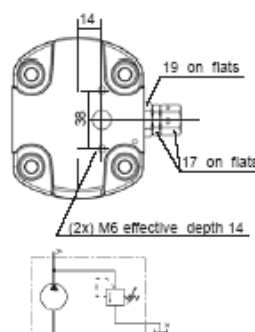
X

high pressure relief valve
(Adjustable) Internal return



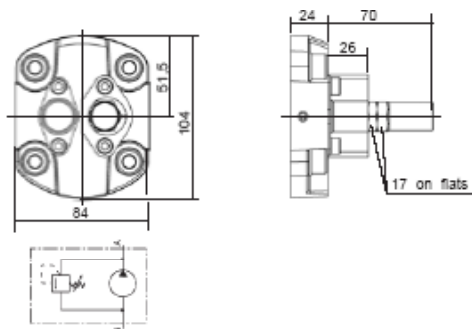
T

high pressure relief valve
(Adjustable) External return



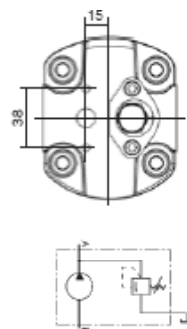
V

Low Pressure relief valve
(Adjustable) Internal return



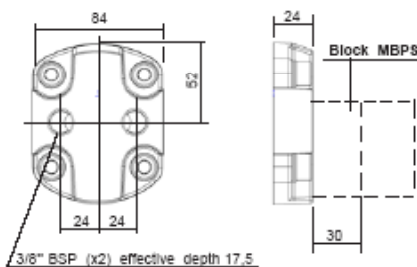
W

Low Pressure relief valve
(Adjustable) External return



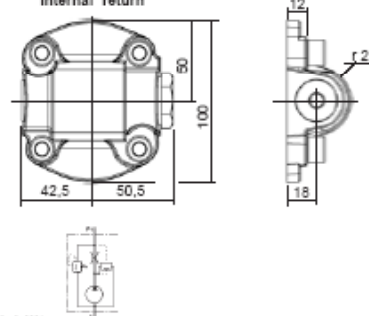
AR

with block configuration MBPS



Q

Flow control
Internal return



Consult us for availability

SERIES 2,5 TYPE AAR

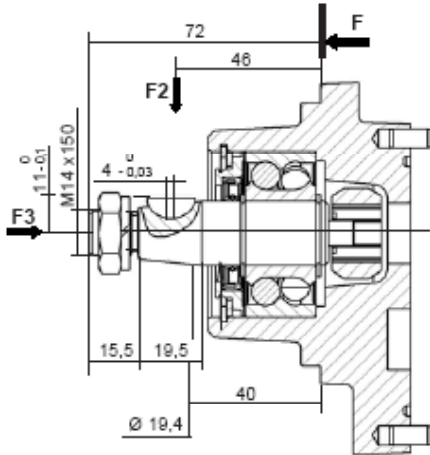
DRIVING SHAFTS

Tapered

10

C03

Taper 1/5



Supplied with nut: 102 046

F2 Maxi: 120 daN

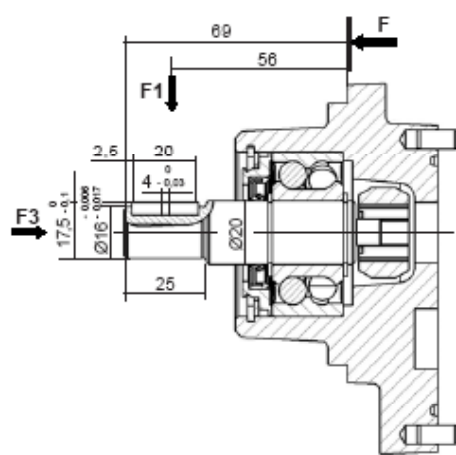
F3 Maxi: 50 daN

Maxi transmissible torque
50 N.m

Straight keyed

20

C03



F1 Maxi: 100 daN

F3 Maxi: 50 daN

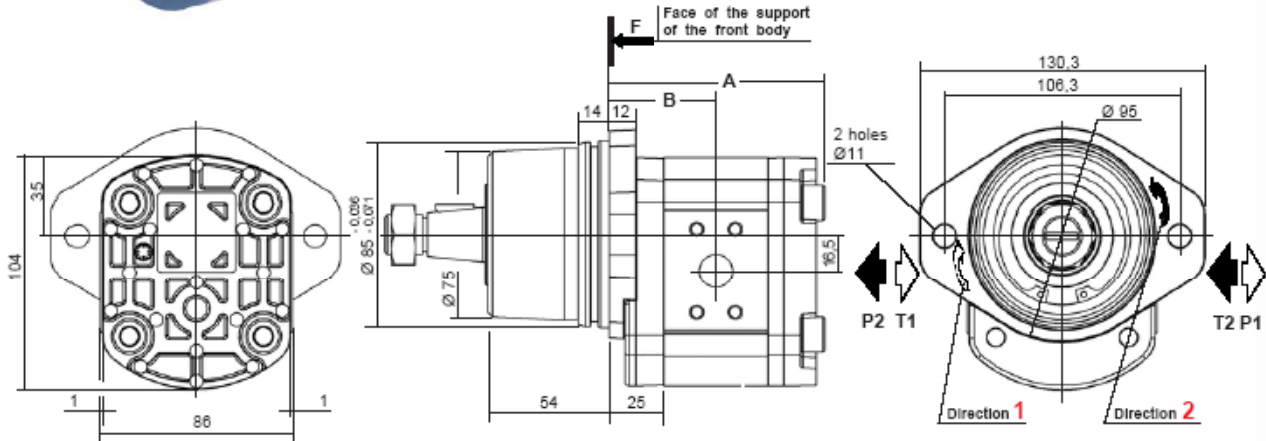
Maxi transmissible torque
50 N.m

SERIES 2,5 TYPE ARP



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

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



CHOICE of the capacity	Dimensions	
	A	B
12	112	56
15 - 17 - 18 - 22	128	64

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

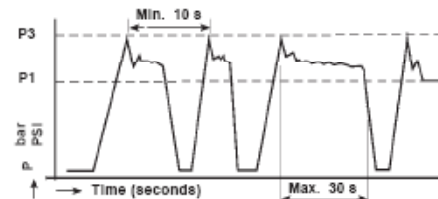
Seal kits:
 Nitrile: **K112366 + K5069830**
 Viton: **K112366 + K5069840**
 (For the manufacturings from february 1986)

MODEL	Capacity cc / rev	PEAK PRESSURE		MAX WORKING PRESSURE		Max. speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Max. speed			
							l / min	l / min			
2512	12	300	4350	255	3697	3500	18	42	2,35	22,45	2,8
2515	15,52	300	4350	240	3480	3500	23,25	52,5	3,04	29,03	3,1
2517	17,3	300	4350	220	3190	3500	25,95	60,55	3,39	32,36	3,2
2518	19,12	300	4350	215	3117	3500	28,65	66,8	3,75	35,77	3,3
2522	22,87	300	4350	190	2755	3500	34,2	79,8	4,48	42,78	3,4

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure →



 Consult us for availability



SERIES 2,5 TYPE ARP

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

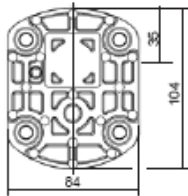
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>H (HPI)</p> </div> <div style="margin-right: 10px;"> <p>C (Square)</p> </div> <div style="margin-right: 10px;"> <p>B (Italian)</p> </div> <div style="margin-right: 10px;"> <p>F (Threaded)</p> </div> <div style="margin-right: 10px;"> <p>U (Threaded SAE J 475)</p> </div> <div style="margin-right: 10px;"> <p>Y (ISO 6162)</p> </div> <div style="margin-right: 10px;"> <p>X (without ports)</p> </div> </div>	Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
		<p>2512 2514 2515 2517 2518 2522</p>	26	47,6	22,4	M6	12	15	17,4	38	M6	12	1" BSP N: 2.500496 V: 2.504117
<p>2512 2514 2515 2517 2518 2522</p>	20	40		M6	12	15	35		M6	12	3/4" BSP N: 367141.503	1/2" BSP N: 367141.703	
<p>2512 2514 2515 2517 2518 2522</p>	23,5	40		M8	13	15	30		M6	13	1/2" BSP N: X.367508.101 3/4" BSP N: X.367508.102	3/8" BSP N: X.367508.201 1/2" BSP N: X.367508.202	
<p>2512 2514 2515 2517 2518 2522</p>				1" Gaz	18				1/2" Gaz	14			
<p>2512 2514 2515 2517 2518 2522</p>				1"5/16 12 UNF 2B	20				7/8" 14 UNF 2B	17			
<p>2514 2515 2517 2518 2522</p>				1"5/16 12 UNF 2B	20				1"1/16 12 UNF 2B	20			
<p>2512 2514 2515 2517 2518 2522</p>	26	47,6	22,4	M10	14	15	17,4	38	M8	14			
<p>2514 2515 2517 2518 2522</p>	26	52,4	26,2	M10	14	15	17,4	38	M8	14			
<p>2512 2514 2515 2517 2518 2522</p>	Only with rear body Type A												

SERIES 2,5 TYPE ARP

REAR BODIES

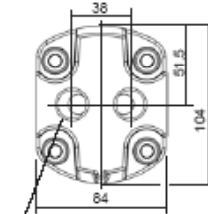
L

Standard



A

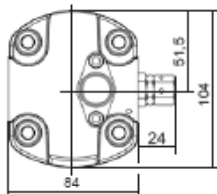
with ports



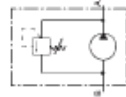
(2x) 1/2" BSP effective depth 14

X

High pressure relief valve (Adjustable) Internal return

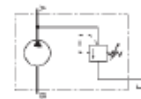
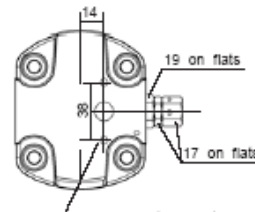


Blank port connector only internal return



T

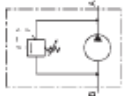
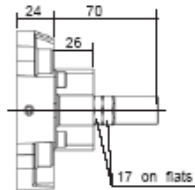
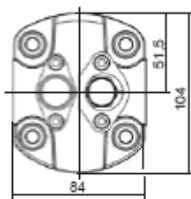
High pressure relief valve (Adjustable) External return



(2x) M6 effective depth 14

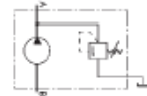
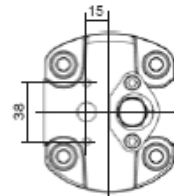
V

Low Pressure relief valve (Adjustable) Internal return



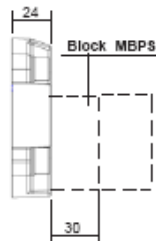
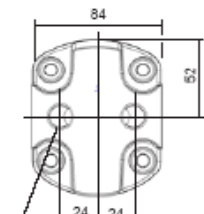
W

Low Pressure relief valve (Adjustable) External return



AR

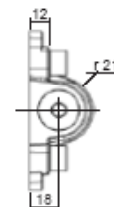
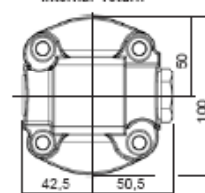
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

Q

Flow control Internal return



Consult us for availability

SERIES 2,5 TYPE ARP

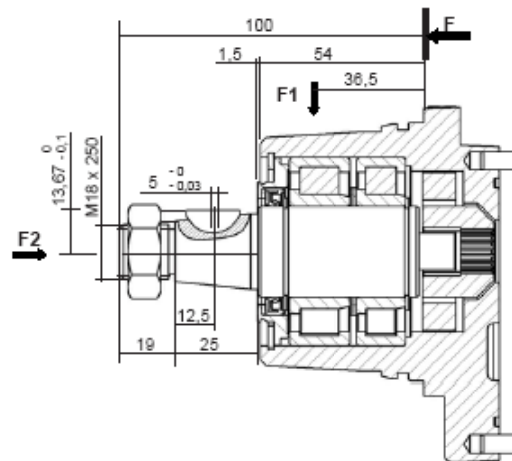
DRIVING SHAFT

Tapered

10

C05

Cône 1/5



Delivered with nut: K106295

F1 Maxi: 350 daN

F2 Maxi: 50 daN

Maxi transmissible torque

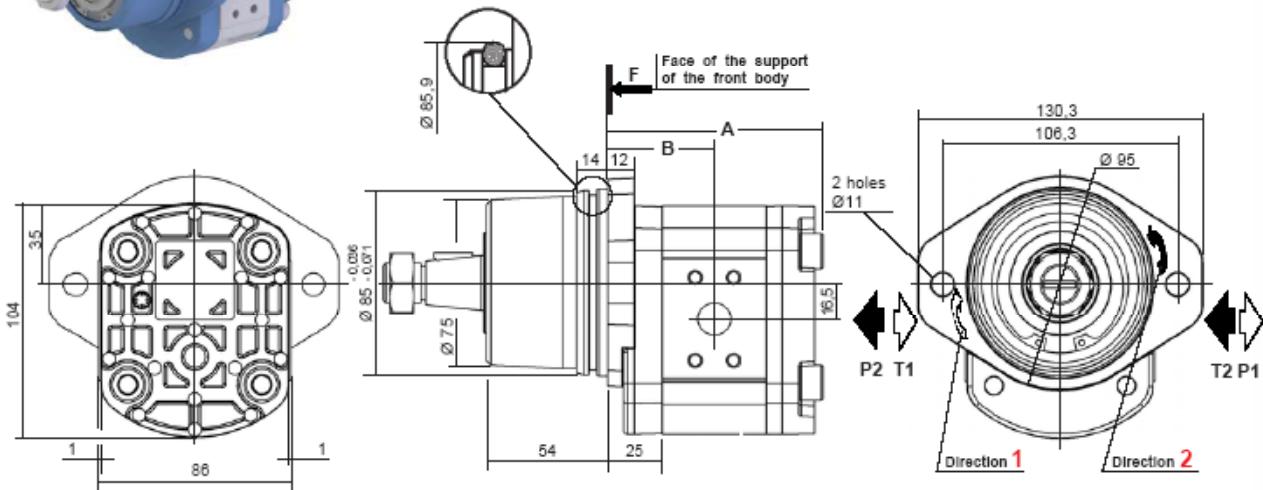
70 N.m

SERIES 2,5 TYPE ARK



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

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



CHOICE of the capacity	Dimensions	
	A	B
12	112	56
15 - 17 - 18 - 22	128	64

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

Seal kits:

Nitrile: **K112366 + K5069830 + K106139**

Viton: **K112366 + K5069840 + K106139**

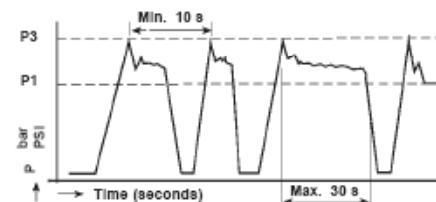
(For the manufacturings from february 1986)

MODEL	Capacity cc / rev	PEAK PRESSURE		MAX WORKING PRESSURE		Max. speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Max. speed			
							l / min	l / min			
2512	12	300	4350	255	3697	3500	18	42	2,35	22,45	2,8
2515	15,52	300	4350	240	3480	3500	23,25	52,5	3,04	29,03	3,1
2517	17,3	300	4350	220	3190	3500	25,95	60,55	3,39	32,36	3,2
2518	19,12	300	4350	215	3117	3500	28,65	66,8	3,75	35,77	3,3
2522	22,87	300	4350	190	2755	3500	34,2	79,8	4,48	42,78	3,4

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure ⇒



Consult us for availability



SERIES 2,5 TYPE ARK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
		<p>H (HPI)</p> <p>Ø F effective depth G</p>	<p>2512 2514 2515 2517 2518 2522</p>	26	47,6	22,4	M6	12	15	17,4	38	M6	12
<p>C (Square)</p> <p>Ø F effective depth G</p>	<p>2512 2514 2515 2517 2518 2522</p>	20	40		M6	12	15	35		M6	12	<p>3 / 4 " BSP N: 367141.503</p>	<p>1 / 2 " BSP N: 367141.703</p>
<p>B (Italian)</p> <p>4 holes Ø F effective depth G</p>	<p>2512 2514 2515 2517 2518 2522</p>	23,5	40		M8	13	15	30		M6	13	<p>1 / 2 " BSP N: X.367508.101 3 / 4 " BSP N: X.367508.102</p>	<p>3 / 8 " BSP N: X.367508.201 1 / 2 " BSP N: X.367508.202</p>
<p>F (Threaded)</p> <p>Ø F effective depth G</p>	<p>2512 2514 2515 2517 2518 2522</p>				1" Gaz	18				1/2" Gaz	14		
<p>U (Threaded SAE J 475)</p> <p>Ø F effective depth G</p>	<p>2512 2514 2515 2517 2518 2522</p>				1"5/16 12 UNF 2B	20				7/8" 14 UNF 2B	17		
<p>Y (ISO 6162)</p> <p>Ø F effective depth G</p>	<p>2512 2514 2515 2517 2518 2522</p>	26	47,6	22,4	M10	14	15	17,4	38	M8	14		
<p>X (without ports)</p>	<p>2512 2514 2515 2517 2518 2522</p>	26	52,4	20,2	M10	14	15	17,4	30	M0	14		
		Only with rear body Type A											

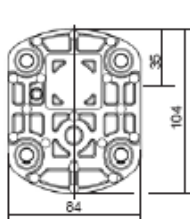
JTEKT
Consult us for availability

SERIES 2,5 TYPE ARK

REAR BODIES

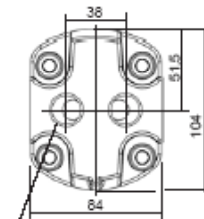
L

Standard



A

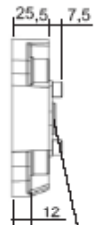
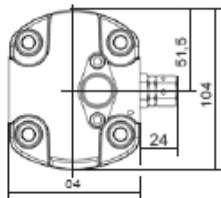
with ports



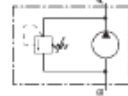
(2x) 1/2" BSP effective depth 14

X

High pressure relief valve (Adjustable) Internal return

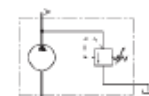
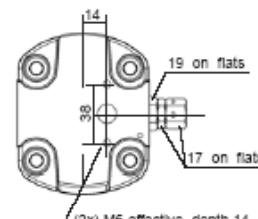


Blank port connector only internal return



T

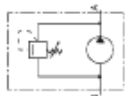
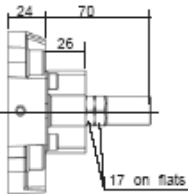
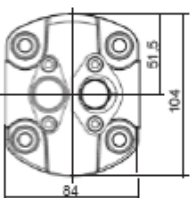
High pressure relief valve (Adjustable) External return



(2x) M6 effective depth 14

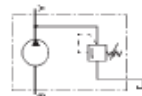
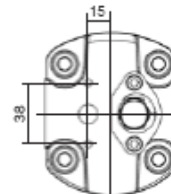
V

Low Pressure relief valve (Adjustable) Internal return



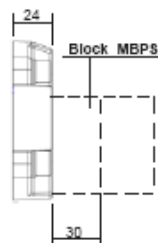
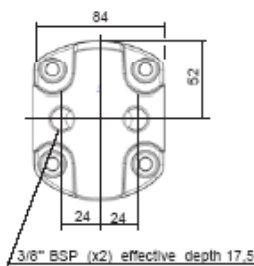
W

Low Pressure relief valve (Adjustable) External return



AR

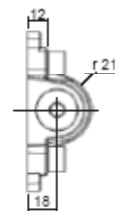
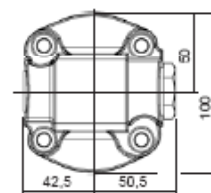
with block configuration MBPS



3/8" BSP (x2) effective depth 17.5

Q

Flow control Internal return



Consult us for availability



SERIES 2,5 TYPE ARK

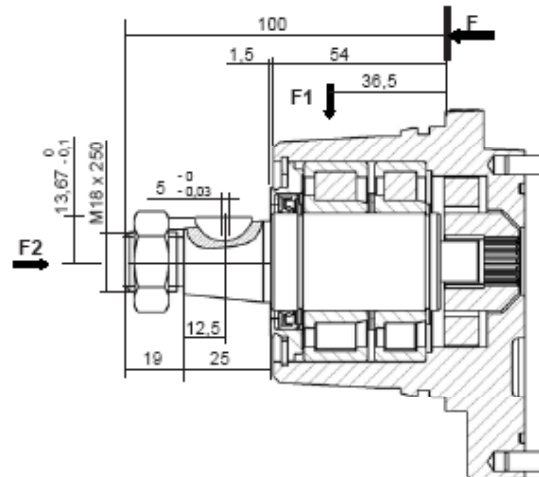
DRIVING SHAFT

Tapered

10

C05

Cône 1/5



Delivered with nut: K106295

F1 Maxi: 350 daN

F2 Maxi: 50 daN

Maxi transmissible torque

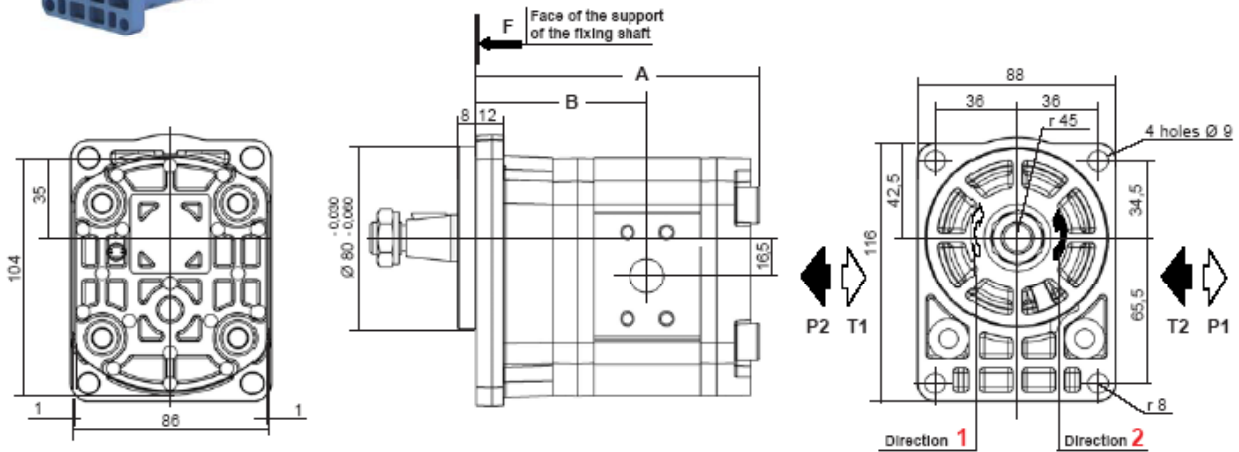
70 N.m

SERIES 2,5 TYPE DBP



P II Sign **DB P 2 5** VI Sign **H L** IX Sign X Sign I XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
12	138	82
15 - 17 - 18 - 22	154	90

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

Seal kits:

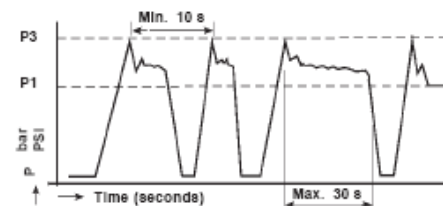
Nitrile: **K5073298 + K5096830**
 Viton: **K5073299 + K5096840**
 (For the manufacturings from may 1986)

MODEL	Capacity cc / rev	PEAK PRESSURE		MAX WORKING PRESSURE		Max. speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Max. speed			
							l / min	l / min			
2512	12	300	4350	255	3697	3500	18	42	2,35	22,45	2,8
2515	15,52	300	4350	240	3480	3500	23,25	52,5	3,04	29,03	3,1
2517	17,3	300	4350	220	3190	3500	25,95	60,55	3,39	32,36	3,2
2518	19,12	300	4350	215	3117	3500	28,65	66,8	3,75	35,77	3,3
2522	22,87	300	4350	190	2755	3500	34,2	79,8	4,48	42,78	3,4

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability

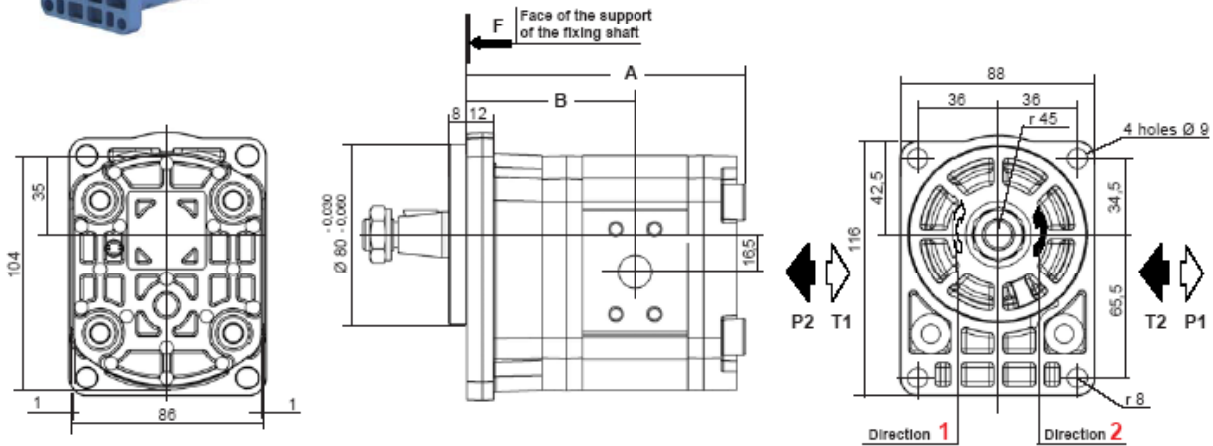


SERIES 2,5 TYPE DBP



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

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



CHOICE of the Capacity	Dimensions	
	A	B
12	138	82
15 - 17 - 18 - 22	154	90

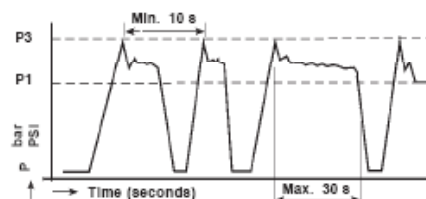
Multiples geared pumps, see data sheet **F.T 20 1306**

Seal kits:
 Nitrile: **K5073298 + K5096830**
 Viton: **K5073299 + K5096840**
 (For the manufacturings from may 1986)

MODEL	Capacity cc / rev	PEAK PRESSURE		MAX WORKING PRESSURE		Max. speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Max. speed			
							l / min	l / min			
2512	12	300	4350	255	3697	3500	18	42	2,35	22,45	2,8
2515	15,52	300	4350	240	3480	3500	23,25	52,5	3,04	29,03	3,1
2517	17,3	300	4350	220	3190	3500	25,95	60,55	3,39	32,36	3,2
2518	19,12	300	4350	215	3117	3500	28,65	66,8	3,75	35,77	3,3
2522	22,87	300	4350	190	2755	3500	34,2	79,8	4,48	42,78	3,4

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

Maximum Pressure ⇒



Consult us for availability

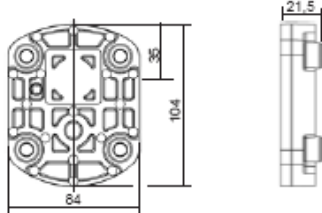


SERIES 2,5 TYPE DBP

REAR BODIES

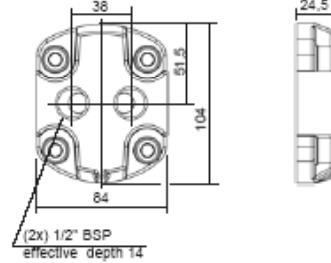
L

Standard



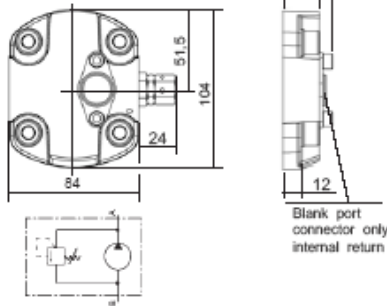
A

with ports



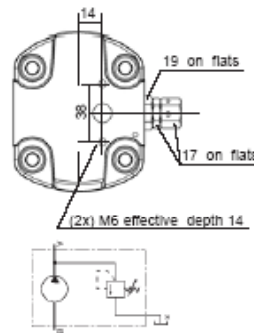
X

High pressure relief valve (Adjustable) Internal return



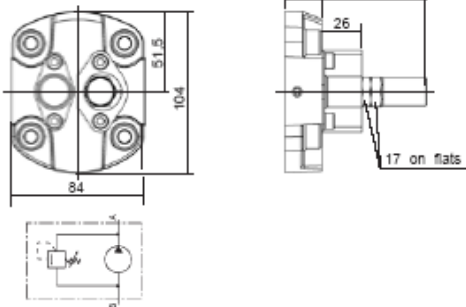
T

High pressure relief valve (Adjustable) External return



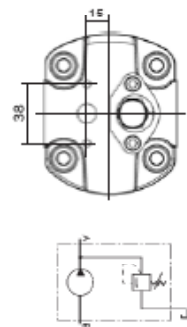
V

Low Pressure relief valve (Adjustable) Internal return



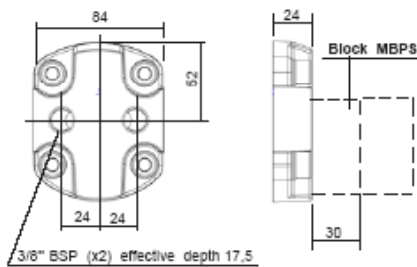
W

Low Pressure relief valve (Adjustable) External return



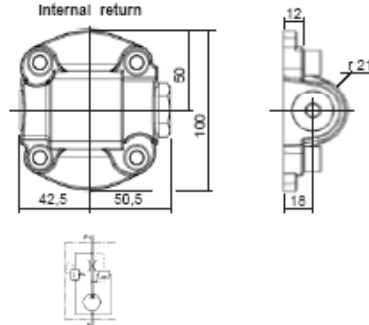
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability

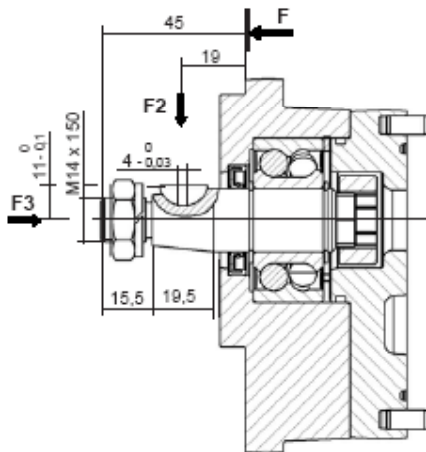
SERIES 2,5 TYPE DBP

DRIVING SHAFTS

Tapered

10

C07 Taper 1 / 5



Delivered with Nut: K102045

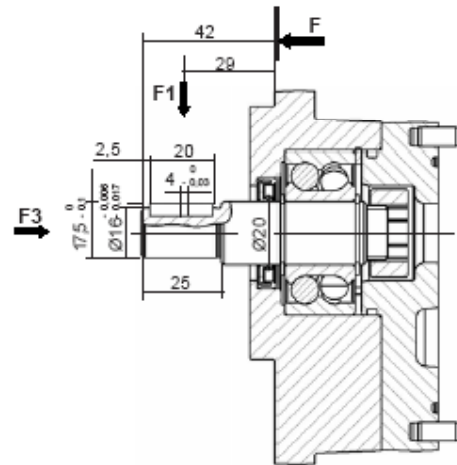
F2 Maxi: 120 daN
F3 Maxi: 50 daN

Maxi transmissible torque
50 N.m

Straight keyed

20

C15



F1 Maxi: 100 daN
F3 Maxi: 50 daN

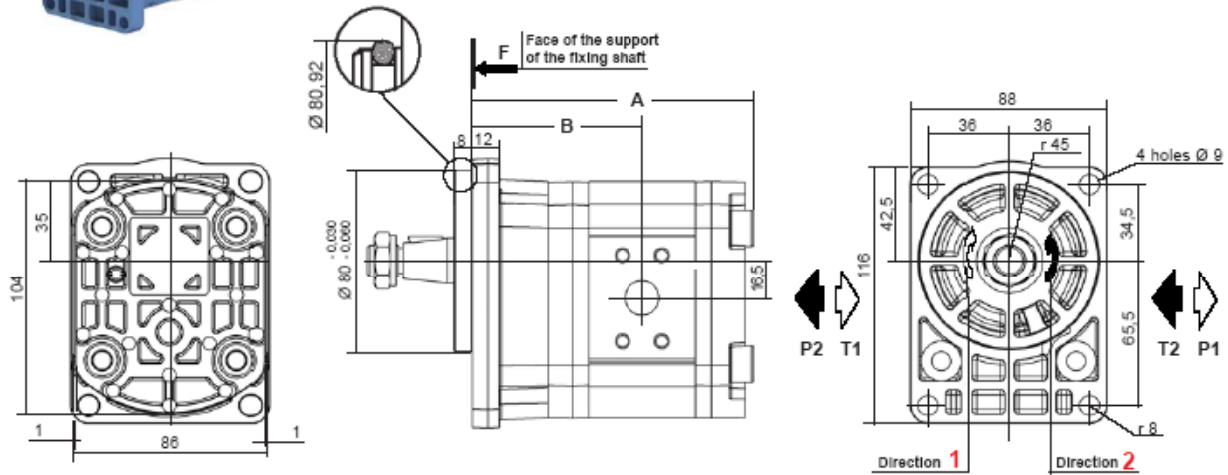
Maxi transmissible torque
50 N.m

SERIES 2,5 TYPE DBR



P II Sign **DBR 25** VI Sign **HL** IX Sign X Sign I XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
12	138	82
15 - 17 - 18 - 22	154	90

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

Seal kits:

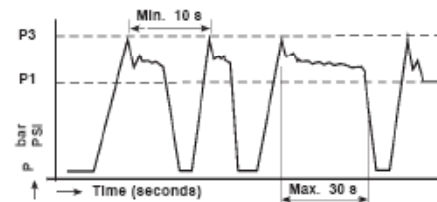
Nitrile: **K5073298 + K5069830 + K101517**
 Viton: **K5073299 + K5069840 + K104406**
 (For the manufacturings from may 1986)

MODEL	Capacity cc / rev	PEAK PRESSURE		MAX WORKING PRESSURE		Max. speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Max. speed			
							l / min	l / min			
2512	12	300	4350	255	3697	3500	18	42	2,35	22,45	2,8
2515	15,52	300	4350	240	3480	3500	23,25	52,5	3,04	29,03	3,1
2517	17,3	300	4350	220	3190	3500	25,95	60,55	3,39	32,36	3,2
2518	19,12	300	4350	215	3117	3500	28,65	66,8	3,75	35,77	3,3
2522	22,87	300	4350	190	2755	3500	34,2	79,8	4,48	42,78	3,4

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure →



Consult us for availability



SERIES 2,5 TYPE DBR

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

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

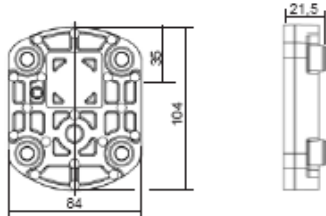
Consult us for availability

SERIES 2,5 TYPE DBR

REAR BODIES

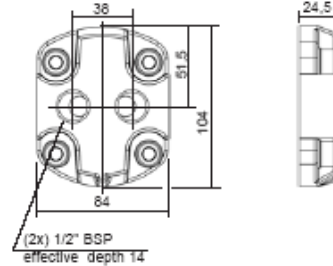
L

Standard



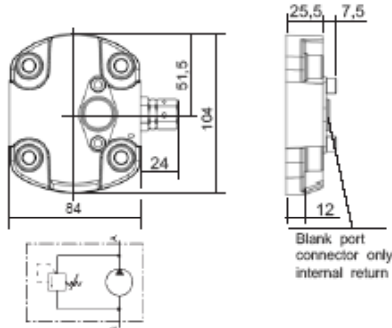
A

with ports



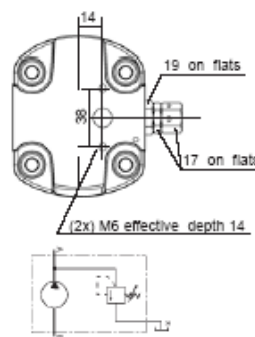
X

High pressure relief valve (Adjustable) Internal return



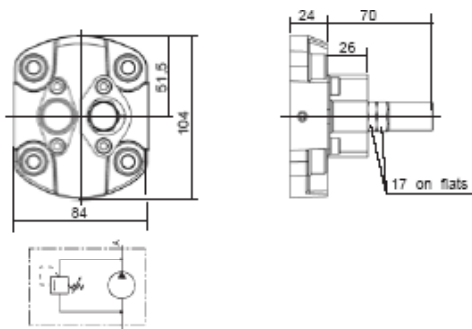
T

High pressure relief valve (Adjustable) External return



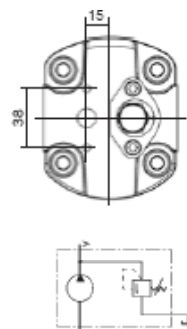
V

Low Pressure relief valve (Adjustable) Internal return



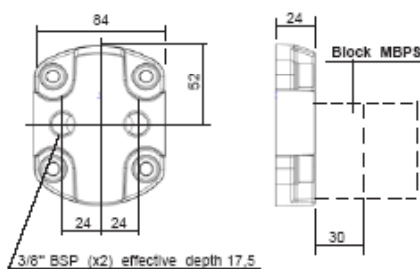
W

Low Pressure relief valve (Adjustable) External return



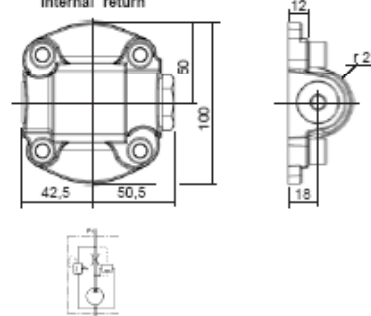
AR

with block configuration MBPS



Q

Flow control Internal return



Consult us for availability

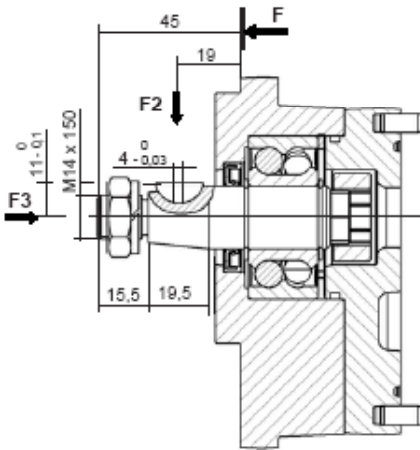
SERIES 2,5 TYPE DBR

DRIVING SHAFTS

Tapered

10

C07 Taper 1 / 5



Delivered with Nut: K102045

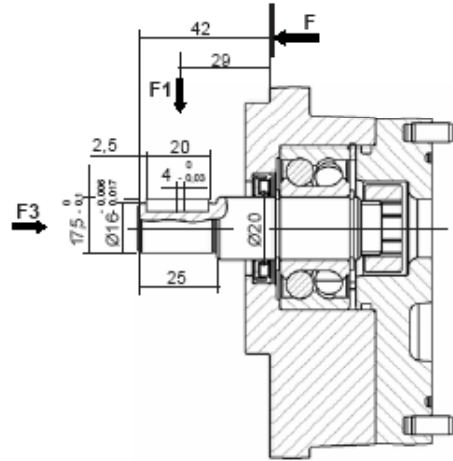
F2 Maxi: 120 daN
F3 Maxi: 50 daN

Maxi transmissible torque
50 N.m

Straight keyed

20

C15



F1 Maxi: 100 daN
F3 Maxi: 50 daN

Maxi transmissible torque
50 N.m

CODIFICATION


F.T R 0268

**PUMPS PRESENTATION
"SPECIAL" SERIES 2**



F.T 20 1409

PUMP **79**


F.T 20 1410

PUMP **86**


F.T 20 1411

PUMP **87**


F.T 20 1412

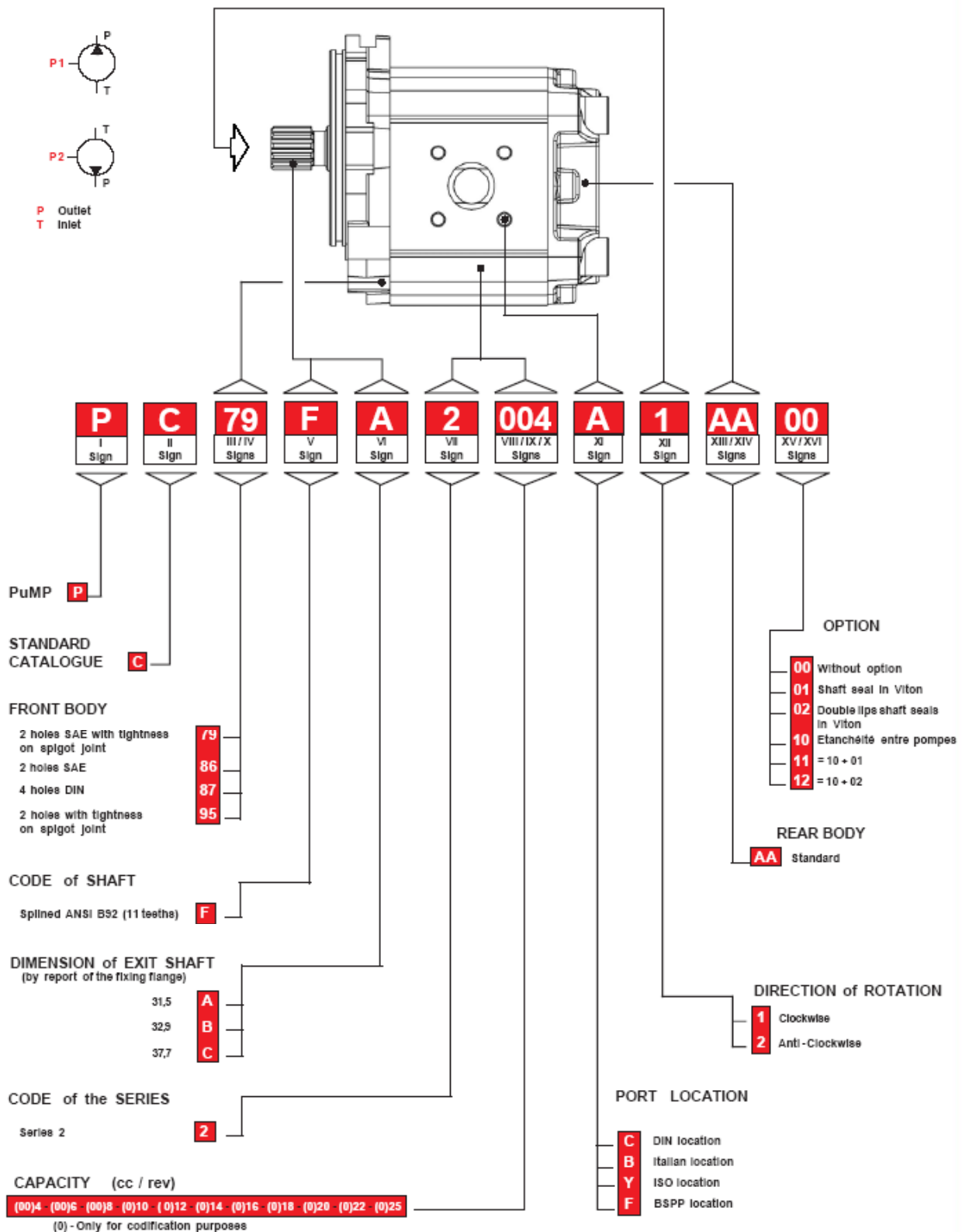
PUMP **95**


F.T 20 1413

 Consult us for availability

JTEKT


CODIFICATION PUMP "SPECIAL" SERIES 2



Consult us for availability

MAIN CHARACTERISTICS

MODEL	Capacity cc / rev	MAX CONTINUOUS PRESSURE in bar	MAX PEAK PRESSURE* in bar	Mini Speed RPM	Max speed RPM	Drive torque at 100 bar 2000 RPM** in N.m
2004	4,1	250	270	1000	6000	8
2006	6,2	250	270	1000	6000	13
2008	8,3	250	270	750	6000	17
2010	10,3	250	270	500	6000	21
2012	12,4	250	270	500	5000	25
2014	14,5	250	270	500	5000	29
2016	16,5	250	270	500	4000	30
2018	18,6	250	270	500	3500	34
2020	20,6	240	260	500	3500	38
2022	22,7	230	250	500	3000	42
2025	24,8	200	220	500	3000	46

* Maximum duration = 0,5 s.

** In the case of multistage pumps, the sum of the driving torque of the stage which simultaneously run, must be less than the maximum torque permitted to the drive shaft.
- Maximum drive torque on the coupling between stages: 70N.m .

General characteristics:

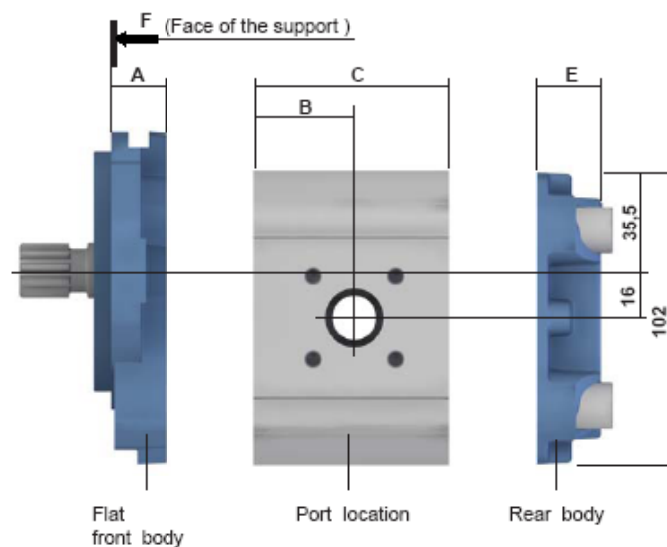
For using beside these limits, please ask our technical department.

FLAT FRONT BODY

Front bodies:	A
79 - 86 - 87	19
95	27

Port location (capacity)	B	C
2004	24	45,95
2006	25,5	48,95
2008	27	51,95
2010	28,5	54,95
2012	30	57,95
2014	31,5	60,95
2016	33	63,95
2018	34,5	66,95
2020	36	69,95
2022	37,5	72,95
2025	39	75,95

Rear bodies:	E
AA	22



 Non Standard Product,
Contact us

AVAILABILITY

P C III - IV Sign F A 2 VIII - XI - X Sign XI Sign XII Sign XIII - XIV Sign XV - XVI Sign

For CODIFICATION, see data sheet **F.T.R 0268**

DIRECTION of ROTATION (XI Sign)	FRONT BODIES (III and IV Sign)	CAPACITY (VIII - IX - X Sign)	PORT LOCATION (XI Sign)				REAR BODIES (XII - XIII Sign)	DRIVING SHAFT (V - VI Sign) SPLINED
			C	B	Y	F		
P 1 P 2							AA	F (11 teeth)

X	X							
X	X		4					
X	X		6					
X	X		8					
X	X		10					
X	X		12					
X	X		14					
X	X		16					
X	X		18					
X	X		20					
X	X		22					
X	X		25					

LEGENDES

PRODUCT TYPE

F = Pump

TECHNOLOGIC VERSION

C = Standard Catalogue

FLAT FRONT BODIES

- 79** = SAE with tightness on spigot joint
- 86** = SAE
- 87** = DIN
- 95** = PERKINS

PORT LOCATION

- C** = DIN implantation
- B** = Italian implantation
- Y** = ISO implantation
- F** = BSP implantation

REAR BODIES

AA = Standard

DRIVING SHAFT

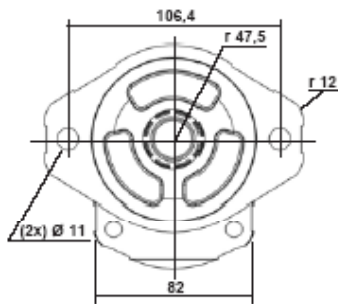
F = Splined ANSI B92 (11 teeth)



FLAT FRONT BODIES

FLAT FRONT BODIES

79

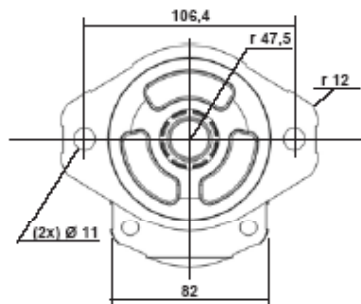


Centering: $\varnothing 82,55^{+0,05}$

Thickness: $6,5^{+0,2}$

79 : F.T 20 1410

86

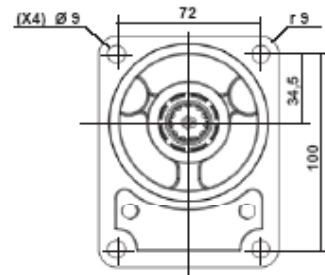


Centering: $\varnothing 82,55^{+0,05}$

Tightness: $6^{+0,2}$

86 : F.T 20 1411

87

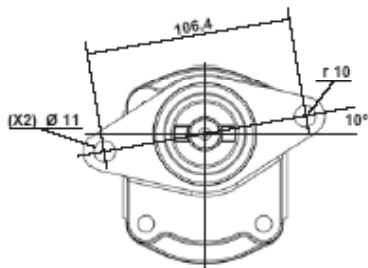


Centering: $\varnothing 80^{+0,055/-0,055}$

Tightness: $7^{+0,2}$

87 : F.T 20 1412

95



Centering: $\varnothing 82,55^{+0,05}$

Tightness: $11 \pm 0,165$

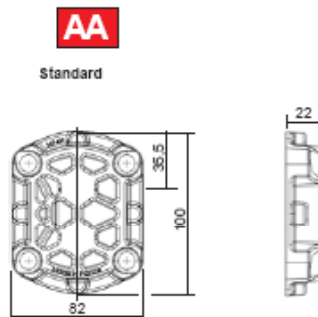
87 : F.T 20 1412

PORT LOCATION AND REAR BODIES

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)				
		ØA	ØB	ØC	D	E	ØA	ØB	ØC	D	E
C (DIN) 	2004 bis 2025	20	M6	40	13		15	M6	35	13	
B (Italian) 	2004 bis 2010	13,5	M6	30	13		13,5	M6	30	13	
	2015 bis 2025	20	M8	40	13		13,5	M6	30	13	
Y (ISO) 	2004 bis 2016	15	M8	17,4	38	14	15	M8	17,4	38	14
	2018 bis 2025	20	M10	47,6	22,4	14	15	M8	38	17,4	14
F (BSP) 	2004 bis 2012		1/2" BSP					1/2" BSP			
	2014 bis 2025		3/4" BSP					1/2" BSP			

REAR BODIES



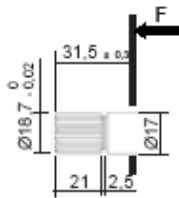
Consult us for availability

DRIVING SHAFT

Splined

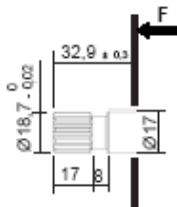
F (11 teeth)

F A



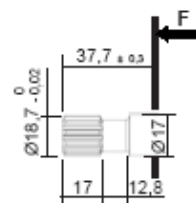
Involute spline to SAE
11 teeth - Pitch 16/32
30° Pressure angle
Max. transmissible torque
70 N.m

F B



Involute spline to SAE
11 teeth - Pitch 16/32
30° Pressure angle
Max. transmissible torque
70 N.m

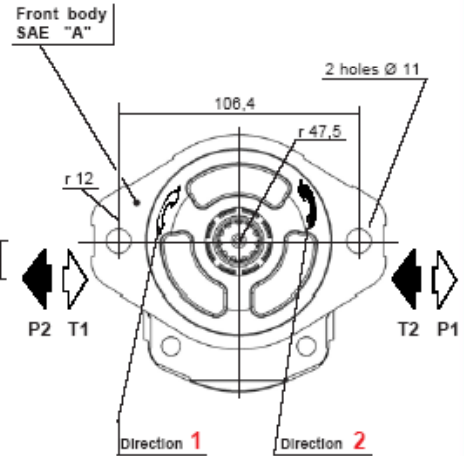
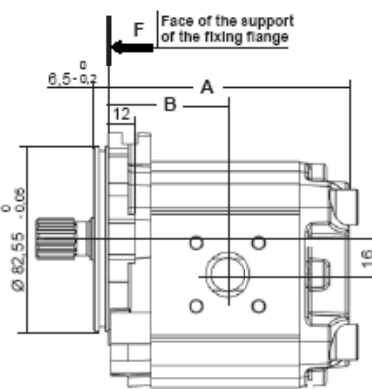
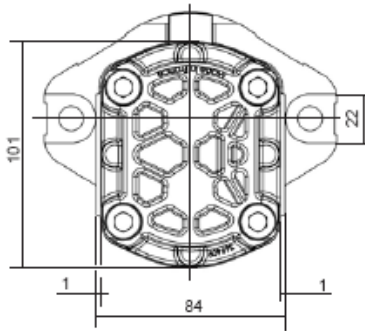
F C



Involute spline to SAE
11 teeth - Pitch 16/32
30° Pressure angle
Max. transmissible torque
70 N.m

SPECIAL SERIES 2 TYPE 79


P C 79 F V Sign 2 VII - VIII - IX Signs C 1 AA 00

 For CODIFICATION, see data sheets **F.T.R 0268**


CHOICE of the Capacity	Dimensions	
	A	B
2004	86,95	65
2006	89,95	66,5
2008	92,95	68
2010	95,95	69,5
2012	98,95	72
2014	101,95	73,5
2016	104,95	75
2018	107,95	76,5
2020	110,95	78
2022	113,95	79,5
2025	116,95	81

MODEL	Capacity cc / rev	MAX CONTINUOUS PRESSURE in bar	MAX PEAK PRESSURE* in bar	Mini Speed RPM	Max speed RPM	Drive torque at 100 bar 2000 RPM** in N.m
2004	4,1	250	270	1000	6000	8
2006	6,2	250	270	1000	6000	13
2008	8,3	250	270	750	6000	17
2010	10,3	250	270	500	6000	21
2012	12,4	250	270	500	5000	25
2014	14,5	250	270	500	5000	29
2016	16,5	250	270	500	4000	30
2018	18,6	250	270	500	3500	34
2020	20,6	240	260	500	3500	38
2022	22,7	230	250	500	3000	42
2025	24,8	200	220	500	3000	46

* Maximum duration = 0,3 s.

 ** In the case of multistage pumps, the sum of the driving torque of the stage which simultaneously run, must be less than the maximum torque permitted to the drive shaft.
 - Maximum drive torque on the coupling between stages: 70N.m .

General characteristics:

For using beside these limits, please ask our technical department.



Consult us for availability

SPECIAL SERIES 2 TYPE 79

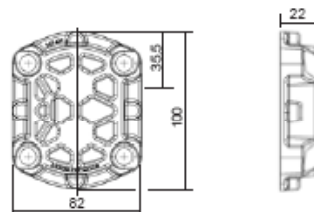
CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)				
		ØA	ØB	ØC	D	E	ØA	ØB	ØC	D	E
<p>C (DIN)</p> <p>Ø B effective depth D</p>	<p>2004 bis 2025</p>	20	M6	40	13		15	M6	35	13	
<p>B (Italian)</p> <p>Ø B effective depth D</p>	<p>2004 bis 2010</p>	13,5	M6	30	13		13,5	M6	30	13	
	<p>2015 bis 2025</p>	20	M8	40	13		13,5	M6	30	13	
<p>Y (ISO)</p> <p>4 holes Ø B effective depth E</p>	<p>2004 bis 2016</p>	15	M8	17,4	38	14	15	M8	17,4	38	14
	<p>2018 bis 2025</p>	20	M10	47,6	22,4	14	15	M8	38	17,4	14
<p>F (BSP)</p> <p>Ø A</p>	<p>2004 bis 2012</p>		1/2" BSP				1/2" BSP				
	<p>2014 bis 2025</p>		3/4" BSP				1/2" BSP				

REAR BODIES

AA

Standard



Consult us for availability

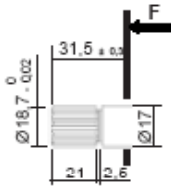
SPECIAL SERIES 2 TYPE 79

DRIVING SHAFT

Splined

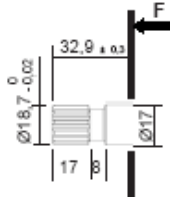
F (11 teeth)

F A



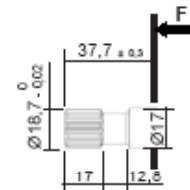
Involute spline to SAE
11 teeth - Pitch 16/32
30° Pressure angle
Max. transmissible torque
70 N.m

F B



Involute spline to SAE
11 teeth - Pitch 16/32
30° Pressure angle
Max. transmissible torque
70 N.m

F C



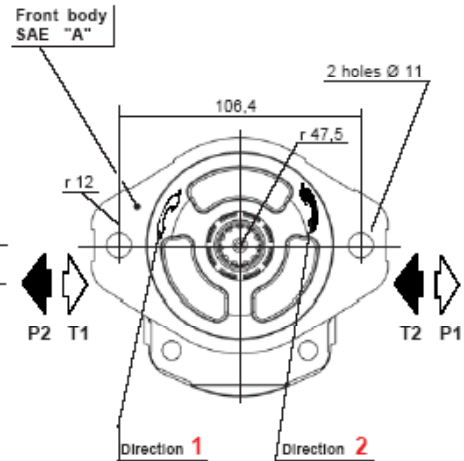
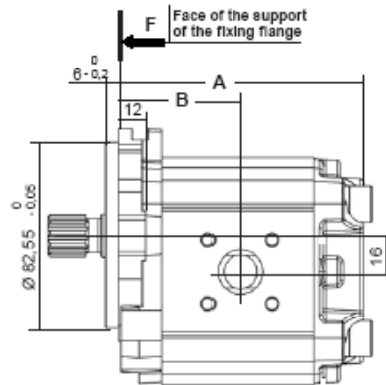
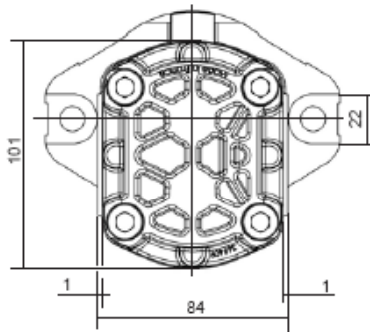
Involute spline to SAE
11 teeth - Pitch 16/32
30° Pressure angle
Max. transmissible torque
70 N.m

SPECIAL SERIES 2 TYPE 86



P C 86 F V Sign 2 VII - VIII - IX Signs C 1 AA 00

For CODIFICATION, see data sheets **F.T R 0268**



CHOICE of the Capacity Dimensions A B

Capacity	A	B
2004	86,95	65
2006	89,95	66,5
2008	92,95	68
2010	95,95	69,5
2012	98,95	72
2014	101,95	73,5
2016	104,95	75
2018	107,95	76,5
2020	110,95	78
2022	113,95	79,5
2025	116,95	81

MODEL	Capacity cc / rev	MAX CONTINUOUS PRESSURE in bar	MAX PEAK PRESSURE* in bar	Mini Speed RPM	Max speed RPM	Drive torque at 100 bar 2000 RPM** in N.m
2004	4,1	250	270	1000	6000	8
2006	6,2	250	270	1000	6000	13
2008	8,3	250	270	750	6000	17
2010	10,3	250	270	500	6000	21
2012	12,4	250	270	500	5000	25
2014	14,5	250	270	500	5000	29
2016	16,5	250	270	500	4000	30
2018	18,6	250	270	500	3500	34
2020	20,6	240	260	500	3500	38
2022	22,7	230	250	500	3000	42
2025	24,8	200	220	500	3000	46

* Maximum duration = 0,5 s.

** In the case of multistage pumps, the sum of the driving torque of the stage which simultaneously run, must be less than the maximum torque permitted to the drive shaft.
- Maximum drive torque on the coupling between stages: 70N.m.

General characteristics:

For using beside these limits, please ask our technical department.

Consult us for availability

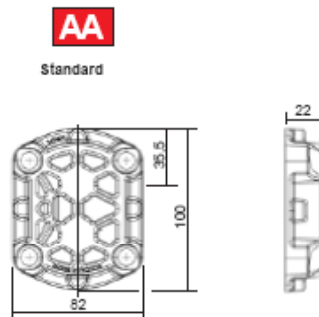


SPECIAL SERIES 2 TYPE 86

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)				
		ØA	ØB	ØC	D	E	ØA	ØB	ØC	D	E
C (DIN) 	2004 bis 2025	20	M6	40	13		15	M6	35	13	
B (Italian) 	2004 bis 2010	13,5	M6	30	13		13,5	M6	30	13	
	2015 bis 2025	20	M8	40	13		13,5	M6	30	13	
Y (ISO) 	2004 bis 2016	15	M8	17,4	38	14	15	M8	17,4	38	14
	2018 bis 2025	20	M10	47,6	22,4	14	15	M8	38	17,4	14
F (BSP) 	2004 bis 2012		1/2" BSP					1/2" BSP			
	2014 bis 2025		3/4" BSP					1/2" BSP			

REAR BODIES



Consult us for availability



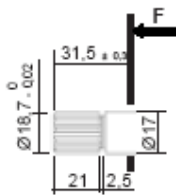
SPECIAL SERIES 2 TYPE 86

DRIVING SHAFT

Splined

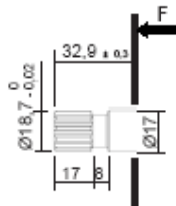
F (11 teeth)

FA



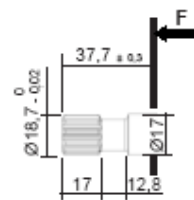
Involute spline to SAE
11 teeth - Pitch 16/32
30° Pressure angle
Max. transmissible torque
70 N.m

FB



Involute spline to SAE
11 teeth - Pitch 16/32
30° Pressure angle
Max. transmissible torque
70 N.m

FC



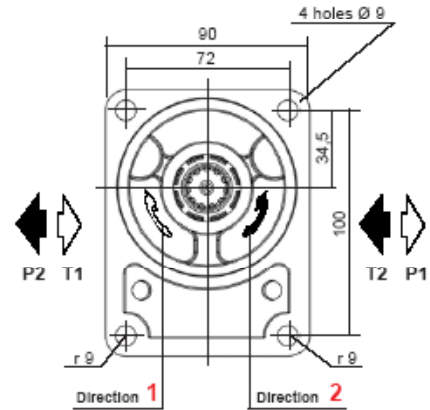
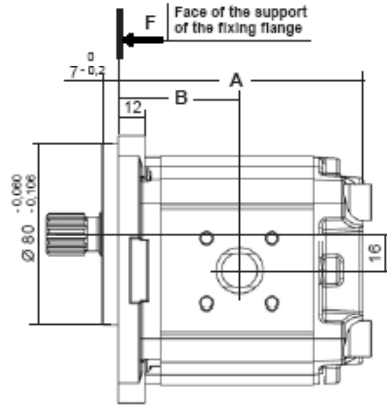
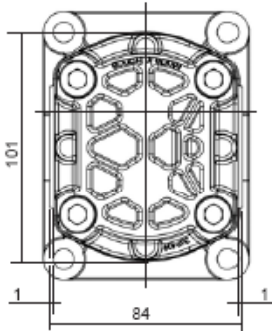
Involute spline to SAE
11 teeth - Pitch 16/32
30° Pressure angle
Max. transmissible torque
70 N.m

SPECIAL SERIES 2 TYPE 87



P C 87 F V Sign 2 VII - VIII - IX Signs C 1 AA 00

For CODIFICATION, see data sheets **F.T R 0268**



CHOICE of the Capacity	Dimensions	
	A	B
2004	86,95	65
2006	89,95	66,5
2008	92,95	68
2010	95,95	69,5
2012	98,95	72
2014	101,95	73,5
2016	104,95	75
2018	107,95	76,5
2020	110,95	78
2022	113,95	79,5
2025	116,95	81

MODEL	Capacity cc / rev	MAX CONTINUOUS PRESSURE in bar	MAX PEAK PRESSURE* in bar	Mini Speed RPM	Max speed RPM	Drive torque at 100 bar 2000 RPM** in N.m
2004	4,1	250	270	1000	6000	8
2006	6,2	250	270	1000	6000	13
2008	8,3	250	270	750	6000	17
2010	10,3	250	270	500	6000	21
2012	12,4	250	270	500	5000	25
2014	14,5	250	270	500	5000	29
2016	16,5	250	270	500	4000	30
2018	18,6	250	270	500	3500	34
2020	20,6	240	260	500	3500	38
2022	22,7	230	250	500	3000	42
2025	24,8	200	220	500	3000	46

* Maximum duration = 0,5 s.

** In the case of multistage pumps, the sum of the driving torque of the stage which simultaneously run, must be less than the maximum torque permitted to the drive shaft.
- Maximum drive torque on the coupling between stages: 70N.m.

General characteristics:

For using beside these limits, please ask our technical department.

Consult us for availability



SPECIAL SERIES 2 TYPE 87

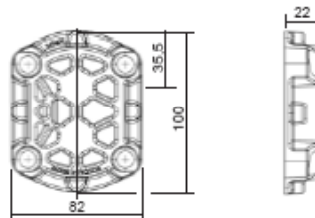
CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)				
		ØA	ØB	ØC	D	E	ØA	ØB	ØC	D	E
<p>C (DIN)</p> <p>Ø B effective depth D</p>	2004 bis 2025	20	M6	40	13		15	M6	35	13	
<p>B (Italian)</p> <p>Ø B effective depth D</p>	2004 bis 2010	13,5	M6	30	13		13,5	M6	30	13	
	2015 bis 2025	20	M8	40	13		13,5	M6	30	13	
<p>Y (ISO)</p> <p>4 holes Ø B effective depth E</p>	2004 bis 2016	15	M8	17,4	38	14	15	M8	17,4	38	14
	2018 bis 2025	20	M10	47,6	22,4	14	15	M8	38	17,4	14
<p>F (BSP)</p> <p>Ø A</p>	2004 bis 2012		1/2" BSP					1/2" BSP			
	2014 bis 2025		3/4" BSP					1/2" BSP			

REAR BODIES

AA

Standard



Consult us for availability



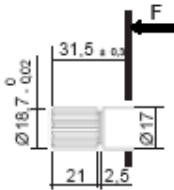
SPECIAL SERIES 2 TYPE 87

DRIVING SHAFT

Splined

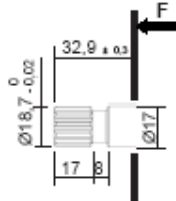
F (11 teeth)

FA



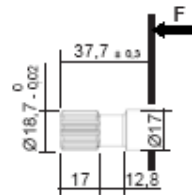
Involute spline to SAE
11 teeth - Pitch 16/32
30° Pressure angle
Max. transmissible torque
70 N.m

FB



Involute spline to SAE
11 teeth - Pitch 16/32
30° Pressure angle
Max. transmissible torque
70 N.m

FC



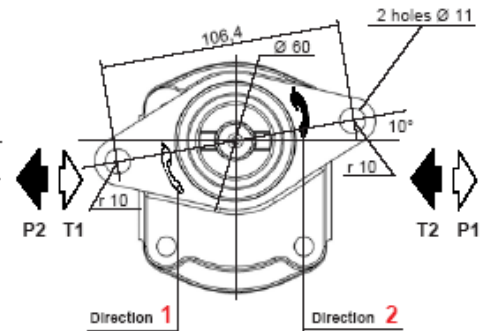
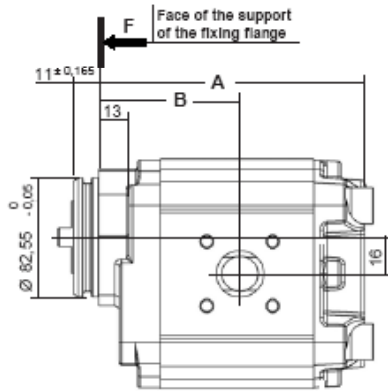
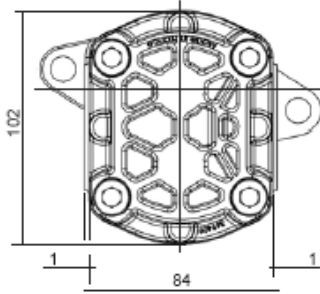
Involute spline to SAE
11 teeth - Pitch 16/32
30° Pressure angle
Max. transmissible torque
70 N.m

SPECIAL SERIES 2 TYPE 95



P C 95 F V Sign 2 VII - VIII - IX Signs C 1 AA 00

For CODIFICATION, see data sheets F.T R 0268



CHOICE of the Capacity	Dimensions	
	A	B
2004	86,95	65
2006	89,95	66,5
2008	92,95	68
2010	95,95	69,5
2012	98,95	72
2014	101,95	73,5
2016	104,95	75
2018	107,95	76,5
2020	110,95	78
2022	113,95	79,5
2025	116,95	81

MODEL	Capacity cc / rev	MAX CONTINUOUS PRESSURE in bar	MAX PEAK PRESSURE* in bar	Mini Speed RPM	Max speed RPM	Drive torque at 100 bar 2000 RPM** in N.m
2004	4,1	250	270	1000	6000	8
2006	6,2	250	270	1000	6000	13
2008	8,3	250	270	750	6000	17
2010	10,3	250	270	500	6000	21
2012	12,4	250	270	500	5000	25
2014	14,5	250	270	500	5000	29
2016	16,5	250	270	500	4000	30
2018	18,6	250	270	500	3500	34
2020	20,6	240	260	500	3500	38
2022	22,7	230	250	500	3000	42
2025	24,8	200	220	500	3000	46

* Maximum duration = 0,5 s.

** In the case of multistage pumps, the sum of the driving torque of the stage which simultaneously run, must be less than the maximum torque permitted to the drive shaft.
- Maximum drive torque on the coupling between stages: 70N.m .

General characteristics:

For using beside these limits, please ask our technical department.

Consult us for availability

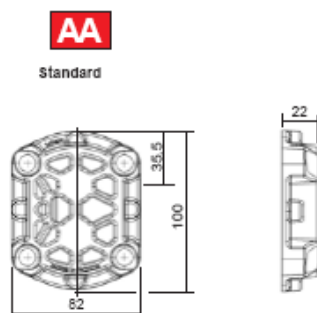


SPECIAL SERIES 2 TYPE 95

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)				
		ØA	ØB	ØC	D	E	ØA	ØB	ØC	D	E
<p>C (DIN)</p> <p>Ø B effective depth D</p>	<p>2004 bis 2025</p>	20	M6	40	13		15	M6	35	13	
<p>B (Italian)</p> <p>Ø B effective depth D</p>	<p>2004 bis 2010</p>	13,5	M6	30	13		13,5	M6	30	13	
	<p>2015 bis 2025</p>	20	M8	40	13		13,5	M6	30	13	
<p>Y (ISO)</p> <p>4 holes Ø B effective depth E</p>	<p>2004 bis 2016</p>	15	M8	17,4	38	14	15	M8	17,4	38	14
	<p>2018 bis 2025</p>	20	M10	47,6	22,4	14	15	M8	38	17,4	14
<p>F (BSP)</p> <p>Ø A</p>	<p>2004 bis 2012</p>		1/2" BSP				1/2" BSP				
	<p>2014 bis 2025</p>		3/4" BSP				1/2" BSP				

REAR BODIES



Consult us for availability

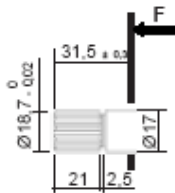
SPECIAL SERIES 2 TYPE 95

DRIVING SHAFT

Splined

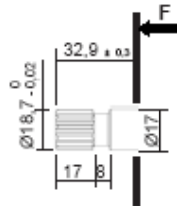
F (11 teeth)

FA



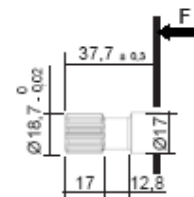
Involute spline to SAE
11 teeth - Pitch 16/32
30° Pressure angle
Max. transmissible torque
70 N.m

FB



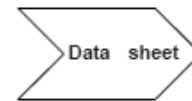
Involute spline to SAE
11 teeth - Pitch 16/32
30° Pressure angle
Max. transmissible torque
70 N.m

FC



Involute spline to SAE
11 teeth - Pitch 16/32
30° Pressure angle
Max. transmissible torque
70 N.m

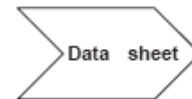
PUMPS PRESENTATION
SERIES 2,6



F.T 26 1314

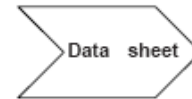
- FLAT FRONT BODIES

PUMP **AA**N



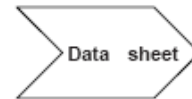
F.T 26 1315

PUMP **AA**K



F.T 26 1351

PUMP **BA**N



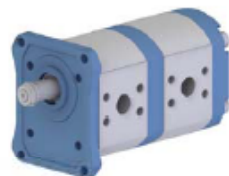
F.T 26 1316

PUMP **CB**N




F.T 26 1317

MULTIPLES PUMPS



F.T 26 1318

 Consult us for availability

JTEKT
HPI

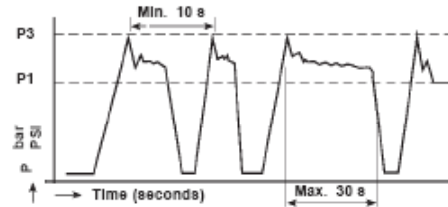
MAIN CHARACTERISTICS SERIES 2,6

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
							l / min	l / min			
2620	19,6	330	4185	280	4060	3000	29,40	58,80	3,70	36,66	8
2625	24,2	330	4185	280	4060	3000	36,30	72,60	4,50	45,27	
2627	27,5	330	4185	280	4060	3000	41,25	82,50	5	51,25	
2630	30,5	330	4185	280	4060	3000	45,75	91,50	5,70	57,05	
2635	34,5	290	4205	250	3625	3000	51,75	103,50	6,40	64,54	
2640	39,8	250	3625	210	3045	3000	59,70	119,40	7,50	74,45	

The pump can only run in one way rotation (Precise the direction of rotation on order).
 The working cycles hereunder are possible with hydraulic mineral oil for viscosities between 12 and 150 cSt (65,2 and 700 SUS).
 The minimum viscosity of 12 cSt (65,2 SUS) is available for a maximum temperature in the hydraulic circuit.
 Working temperature: - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C (284 °F) with Viton shaft seal).
 Full flow filtration: 10 to 15 microns at the pressure port of the pump or on the return circuit.
 Filtration on the suction side: 125 microns.
 Pressure at the inlet of the pump:
 - Minimum 0,7 bar absolute (Maxi depressure 300 millibar with regard to the air pressure).
 - Maximum 2 bar absolute or 1 bar over the air pressure.
 The hereabove characteristics concern the pumps driven by elastic couplings perfectly aligned without any external radial or axial force.
 For any other coupling, see technical data sheet F.T.R 0009.
 For use at maximum working conditions and/or intensive cycles, thanks to consult our technical sales service for validation.

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

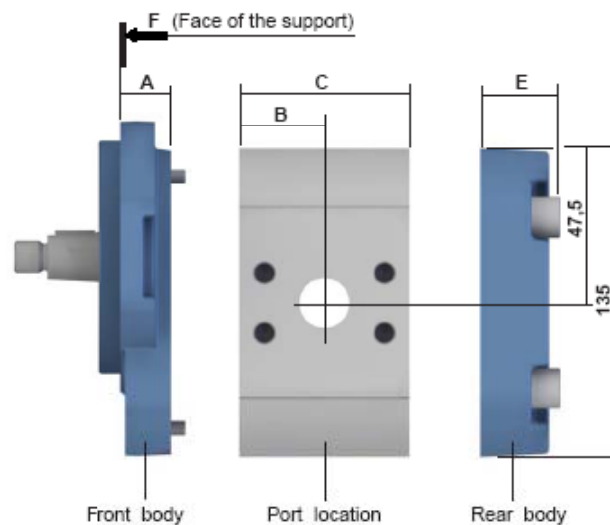
Maximum Pressure **D**



Front bodies:	A
AAN / AAK - BAN - CBN	22

Capacity:	B	C
2620	37	74,1
2625	39,3	78,6
2627	41	82
2630	42,5	85,1
2635	44,5	89,1
2640	47,3	94,6

Rear body:	E
L	31,2






Consult us for availability



MAIN CHARACTERISTICS SERIES 2,6

P	II Sign	III Sign	IV Sign	2 6	VI Sign	VII Sign	L	IX Sign	X Sign	XI Sign	XII Sign
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For CODIFICATION, see data sheet **F.T R 0011**

DIRECTION of ROTATION (II Sign)		FLAT FRONT BODIES (III and IV Sign)	CAPACITY (V and VI Sign)	PORT LOCATION (VII Sign)		REAR BODIES (VIII Sign)		DRIVING SHAFT (IX, X and XI Sign)				
P 1	P 2			Y	F	L	J*	TAPERED	STRAIGHT KEYED	SPLINED	TANG	
X	X	AAN / AAK 	2620 2625									
X	X	BAN 	2627 2630 2635 2640	Y	F	L	J*	10 B09 10 C09		30 A24		
X	X	CBN 										

LEGENDES

DIRECTION of ROTATION

P1 = Clockwise
P2 = Anti clockwise

FRONT BODIES

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

PORT LOCATION

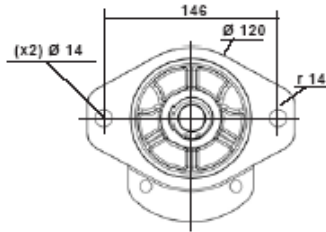
F = Threaded ports
Y = ISO Implantation (Standard 6162)

REAR BODIES

L = Standard
J* = Pre-arrangement for assembling "Module 3" see F.T 26 1354 page

FLAT FRONT BODIES

AAN / AAK

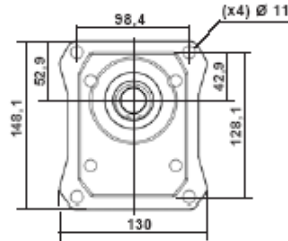


Centering: $\varnothing 101,6^{+0}_{-0,05}$
Thickness: 3,5

AAN : F.T 26 1315

AAK : F.T 26 1351

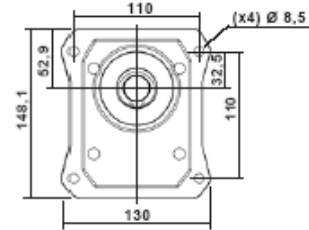
BAN



Centering: $\varnothing 50,76^{+0}_{-0,05}$
Thickness: 5

BAN : F.T 26 1316

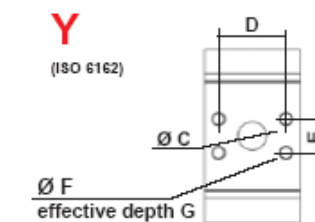
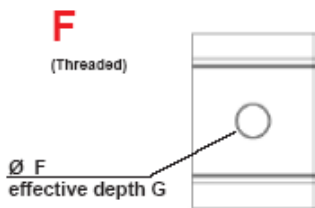
CBN



Centering: $\varnothing 65^{+0}_{-0,05}$
Thickness: 5

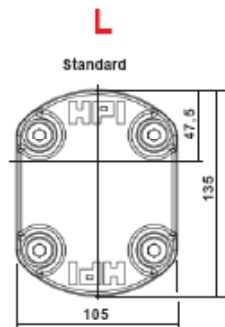
CBN : F.T 26 1317

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
	2620 bis 2627				1" BSP	19						
2630 - 2635				1" BSP	19				3/4" BSP	16		
2640				1" 1/4 BSP	21							
2620 bis 2627	25	52,4	26,2	M8	14						1" BSP N: 368557.002	1" BSP N: 368557.002
2630 - 2635	30	58,7	30,2	M10	14	22	52,4	26,2	M10	14	1" 1/4 BSP N: 368557.003	
2640	32	58,7	30,2	M10	14							

REAR BODY



Consult us for availability

DRIVING SHAFT (FLAT FRONT BODY)

Tapered

Straight keyed

Splined

Tang

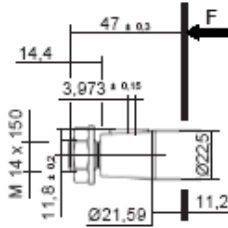
10

20

30

40

B09 Taper 1/8

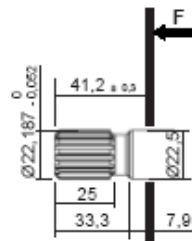


Delivered with nut Ref.: K102045
and washer Ref.: K102100

Maxi transmissible torque

530 N.m

A24

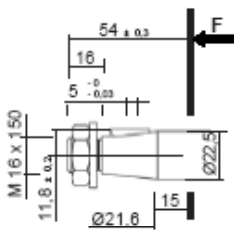


Involute spline SAE "B" - 13 teeth -
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque

310 N.m

C09 Cône 1/5



Delivered with nut Ref.: K106924
and washer Ref.: K102101

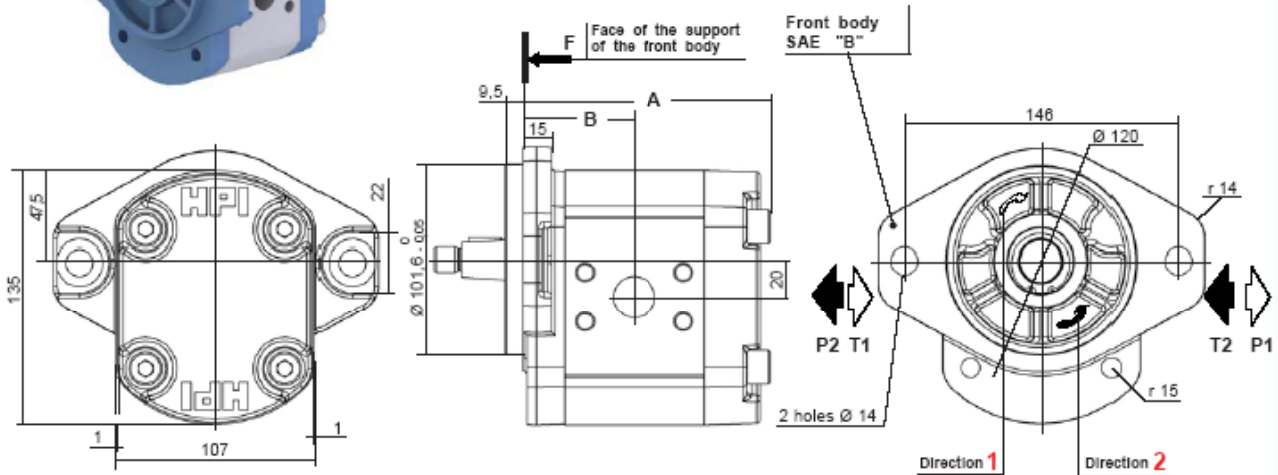
Maxi transmissible torque

550 N.m

SERIES 2,6 TYPE AAN



P II Sign **AA** N **26** VI Sign **Y** L IX Sign X Sign XI Sign XII Sign
 For CODIFICATION, see data sheet **F.T R 0011**



CHOICE of the Capacity	Dimensions	
	A	B
20	127,3	59
25	131,8	61,3
27	135,2	62
30	138,3	64,5
35	142,3	66,5
40	147,8	69,3

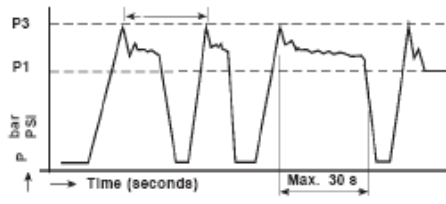
Multiples geared pumps, see data sheet **F.T 26 1318**

Seal kits:
 Nitrile: **K5093201**
 Viton: **K5093202**
 (For the manufacturings from 2002)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
				l / min	l / min						
2620	19,6	330	4185	280	4060	3000	29,40	58,80	3,70	36,66	8
2625	24,2	330	4185	280	4060	3000	36,30	72,60	4,50	45,27	
2627	27,5	330	4185	280	4060	3000	41,25	82,50	5	51,25	
2630	30,5	330	4185	280	4060	3000	45,75	91,50	5,70	57,05	
2635	34,5	290	4205	250	3625	3000	51,75	103,50	6,40	64,54	
2640	39,8	250	3625	210	3045	3000	59,70	119,40	7,50	74,45	

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

Maximum Pressure



Consult us for availability

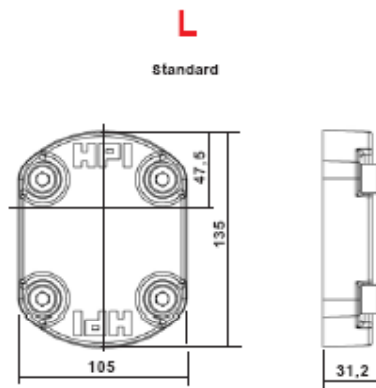


SERIES 2,6 TYPE AAN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

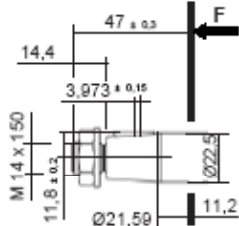
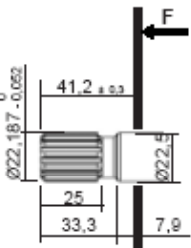
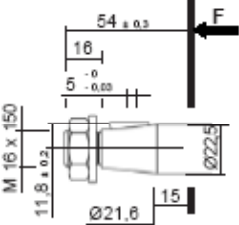
	Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)				
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)			
		<p>F (Threaded)</p> <p>Ø F effective depth G</p>														
	2620 bis 2627				1" BSP	19										
	2630 - 2635				1" BSP	19					3/4" BSP	16				
	2640				1" 1/4 BSP	21										
<p>Y (ISO 6162)</p> <p>Ø F effective depth G</p>																
	2620 bis 2627	25	52,4	26,2	M8	14							1" BSP N: 368557.002			
	2630 - 2635	30	58,7	30,2	M10	14	22	52,4	26,2	M10	14		1" 1/4 BSP N: 368557.003			1" BSP N: 368557.002
	2640	32	58,7	30,2	M10	14										

REAR BODY



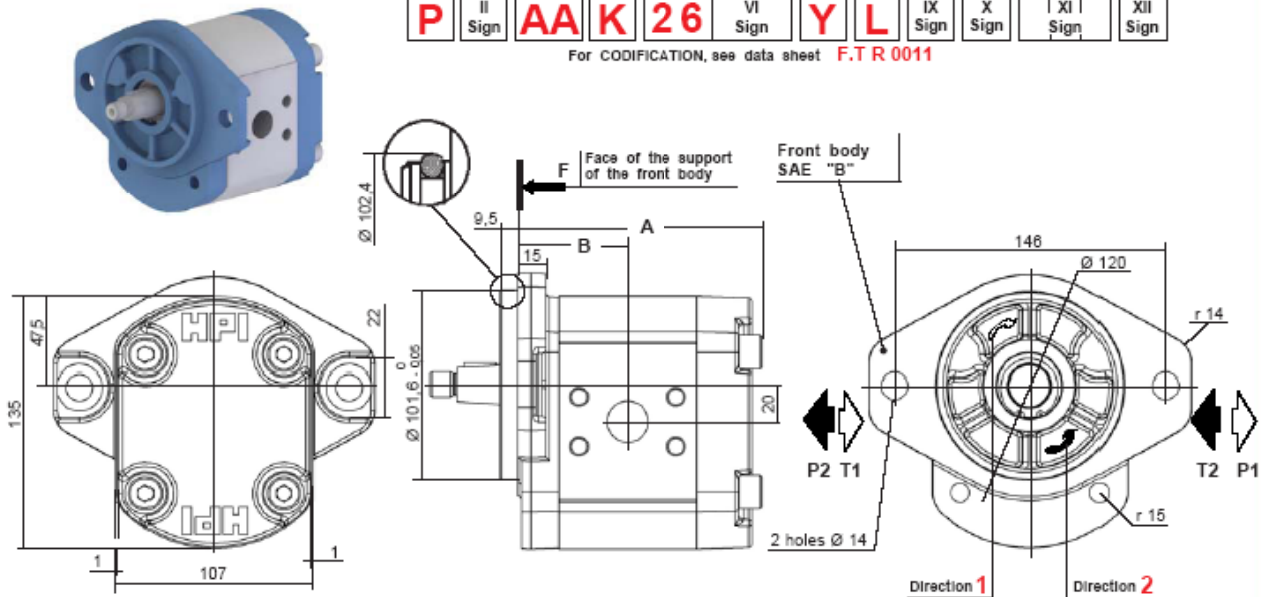
SERIES 2,6 TYPE AAN

DRIVING SHAFT (FLAT FRONT BODY)

Tapered	Straight keyed	Splined	Tang
10	20	30	40
<p>B09 Taper 1/8</p>  <p>Delivered with nut Ref.: K102045 and washer Ref.: K102100</p> <p><u>Maxi transmissible torque</u> 530 N.m</p>		<p>A24</p>  <p>Involute spline SAE "B" - 13 teeth - Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 310 N.m</p>	
<p>C09 Cône 1/5</p>  <p>Delivered with nut Ref.: K106924 and washer Ref.: K102101</p> <p><u>Maxi transmissible torque</u> 550 N.m</p>			

SERIES 2,6 TYPE AAK

P II Sign **AA** **K** **26** VI Sign **Y** **L** IX Sign X Sign XI Sign XII Sign
 For CODIFICATION, see data sheet **F.T R 0011**



CHOICE of the Capacity	Dimensions	
	A	B
20	127,3	59
25	131,8	61,3
27	135,2	62
30	138,3	64,5
35	142,3	66,5
40	147,8	69,3

Multiples geared pumps, see data sheet **F.T 26 1318**

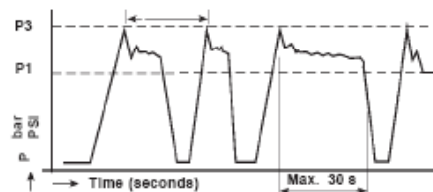
Seal kits:
 Nitrile: **K5093201 + K107081**
 Viton: **K5093202 + K107082**
 (For the manufacturings from 2002)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
		l / min	l / min								
2620	19,6	330	4185	280	4060	3000	29,40	58,80	3,70	36,66	8
2625	24,2	330	4185	280	4060	3000	36,30	72,60	4,50	45,27	
2627	27,5	330	4185	280	4060	3000	41,25	82,50	5	51,25	
2630	30,5	330	4185	280	4060	3000	45,75	91,50	5,70	57,05	
2635	34,5	290	4205	250	3625	3000	51,75	103,50	6,40	64,54	
2640	39,8	250	3625	210	3045	3000	59,70	119,40	7,50	74,45	

P1 Maximum pressure in continuous duty.

Maximum Pressure \Rightarrow

P3 Allowable peack pressure.



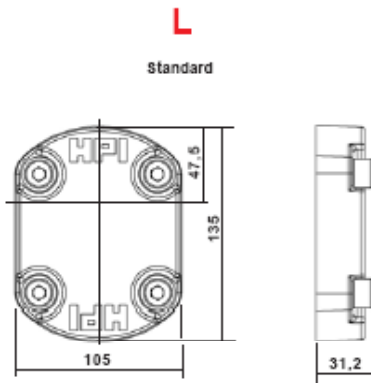
Consult us for availability

SERIES 2,6 TYPE AAK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

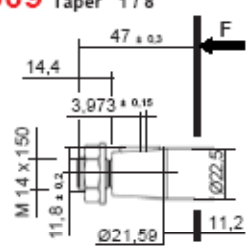
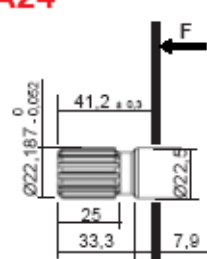
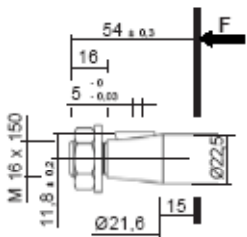
Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
	<p>F (Threaded)</p>				1" BSP	19						
<p>Y (ISO 6162)</p>				1" BSP	19				3/4" BSP	16		
				1" 1/4 BSP	21							
<p>2620 bis 2627</p> <p>2630 - 2635</p> <p>2640</p>												
				M8	14						1" BSP N: 368557.002	1" BSP N: 368557.002
				M10	14	22	52,4	26,2	M10	14	1" 1/4 BSP N: 368557.003	
				M10	14							

REAR BODY



SERIES 2,6 TYPE AAK

DRIVING SHAFT (FLAT FRONT BODY)

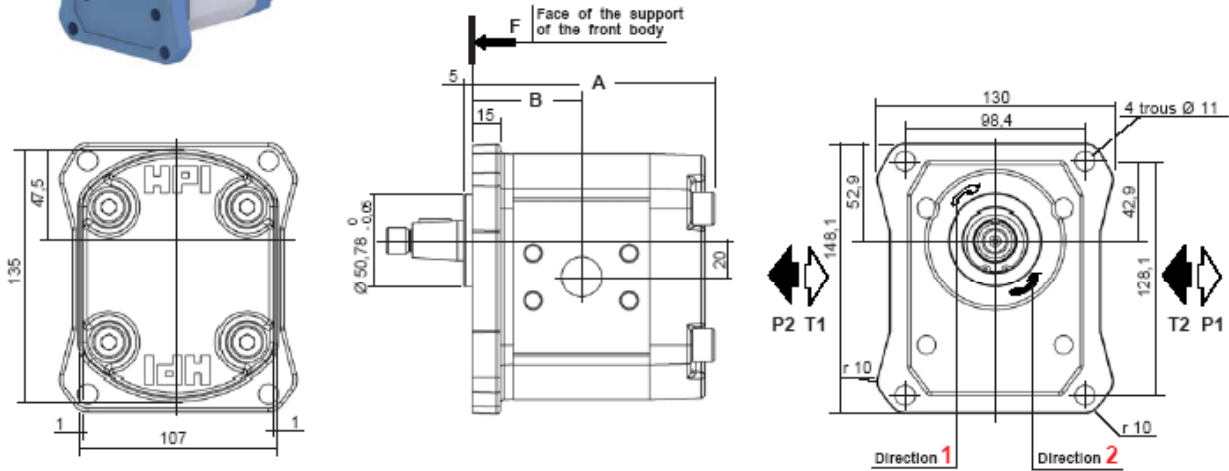
Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B09 Taper 1/8</p>  <p>Delivered with nut Ref.: K102045 and washer Ref.: K102100</p> <p><u>Maxi transmissible torque</u> 530 N.m</p>		<p>A24</p>  <p>Involute spline SAE "B" - 13 teeth - Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 310 N.m</p>	
<p>C09 Cône 1/5</p>  <p>Delivered with nut Ref.: K106S24 and washer Ref.: K102101</p> <p><u>Maxi transmissible torque</u> 550 N.m</p>			

SERIES 2,6 TYPE BAN



P II Sign **BAN 26** VI Sign **Y L** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
20	127,3	59
25	131,8	61,3
27	135,2	62
30	138,3	64,5
35	142,3	66,5
40	147,8	69,3

Multiples geared pumps, see data sheet **F.T 26 1318**

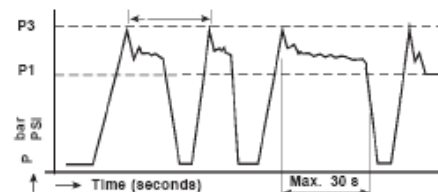
Seal kits:
Nitrile: **K5093201**
Viton: **K5093202**
(For the manufacturings from 2002)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
							l / min	l / min			
2620	19,6	330	4185	280	4060	3000	29,40	58,80	3,70	36,66	8
2625	24,2	330	4185	280	4060	3000	36,30	72,60	4,50	45,27	
2627	27,5	330	4185	280	4060	3000	41,25	82,50	5	51,25	
2630	30,5	330	4185	280	4060	3000	45,75	91,50	5,70	57,05	
2635	34,5	290	4205	250	3625	3000	51,75	103,50	6,40	64,54	
2640	39,8	250	3625	210	3045	3000	59,70	119,40	7,50	74,45	

P1 Maximum pressure in continuous duty.

Maximum Pressure **D**

P3 Allowable peak pressure.



Consult us for availability

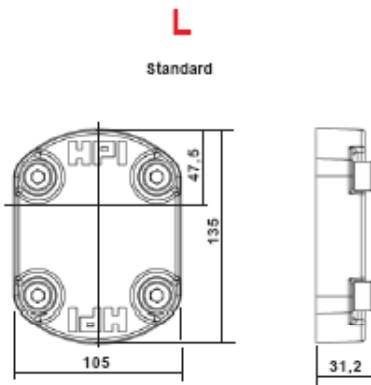


SERIES 2,6 TYPE BAN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

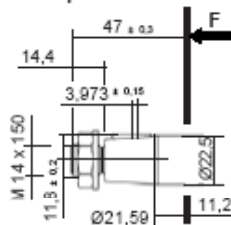
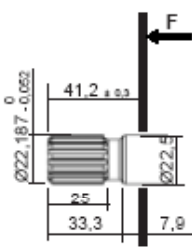
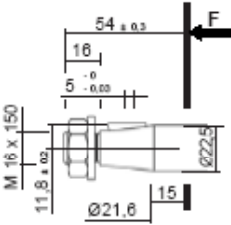
Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
	<p>F (Threaded)</p>				1" BSP	19				3/4" BSP	16	
<p>Y (ISO 6162)</p>				1" BSP	19						1" BSP N: 368557.002	1" BSP N: 368557.002
				1" 1/4 BSP	21							
				M8	14							
				M10	14	22	52,4	26,2	M10	14	1" 1/4 BSP N: 368557.003	
				M10	14							

REAR BODY



SERIES 2,6 TYPE BAN

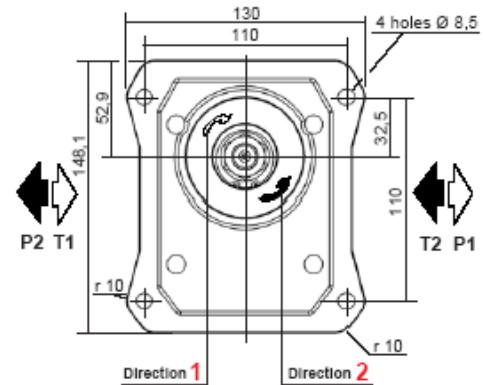
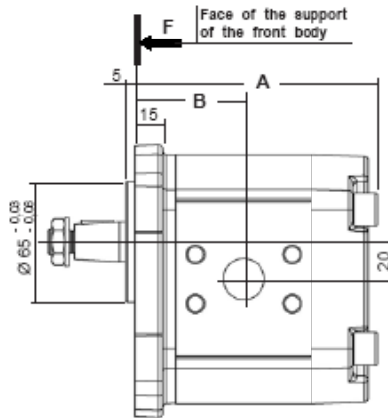
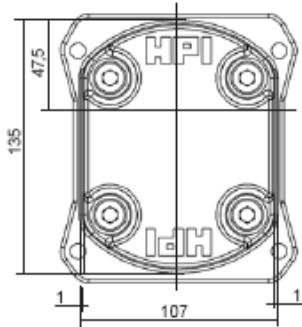
DRIVING SHAFT (FLAT FRONT BODY)

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B09 Taper 1/8</p>  <p>Delivered with nut Ref.: K102045 and washer Ref.: K102100</p> <p><u>Maxi transmissible torque</u> 530 N.m</p>		<p>A24</p>  <p>Involute spline SAE "B" - 13 teeth - Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 310 N.m</p>	
<p>C09 Cône 1/5</p>  <p>Delivered with nut Ref.: K106924 and washer Ref.: K102101</p> <p><u>Maxi transmissible torque</u> 550 N.m</p>			

SERIES 2,6 TYPE CBN



P II Sign **CB N 2 6** VI Sign **Y L** IX Sign X Sign XI Sign XII Sign
 For the CODIFICATION, see data sheet **F.T R 0011**



CHOICE of the Capacity	Dimensions	
	A	B
20	127,3	59
25	131,8	61,3
27	135,2	62
30	138,3	64,5
35	142,3	66,5
40	147,8	69,3

Multiples geared pumps, see data sheet **F.T 26 1318**

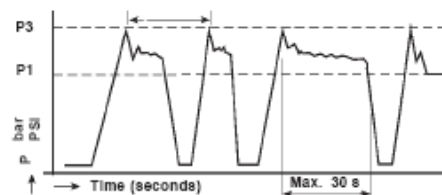
Seal kits:
 Nitrile: **K50S3201**
 Viton: **K50S3202**
 (For the manufacturings from 2002)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
				l / min	l / min						
2620	19,6	330	4185	280	4060	3000	29,40	58,80	3,70	36,66	8
2625	24,2	330	4185	280	4060	3000	36,30	72,60	4,50	45,27	
2627	27,5	330	4185	280	4060	3000	41,25	82,50	5	51,25	
2630	30,5	330	4185	280	4060	3000	45,75	91,50	5,70	57,05	
2635	34,5	290	4205	250	3625	3000	51,75	103,50	6,40	64,54	
2640	39,8	250	3625	210	3045	3000	59,70	119,40	7,50	74,45	

P1 Maximum pressure in continuous duty.

Maximum Pressure **ⓘ**

P3 Allowable peak pressure.



Consult us for availability

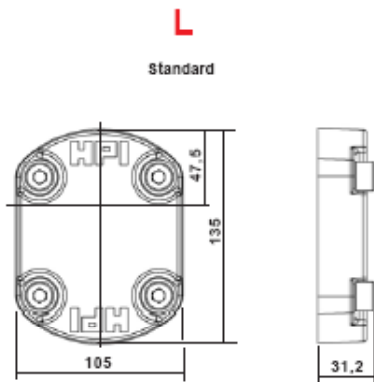


SERIES 2,6 TYPE CBN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

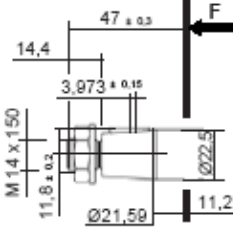
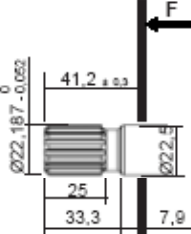
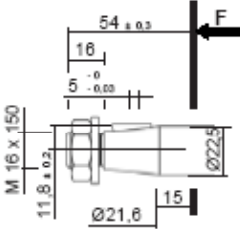
Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
	<p>F (Threaded)</p>				1" BSP	19				3/4" BSP	16	
<p>Y (ISO 6162)</p>				1" BSP	19						1" BSP N: 368557.002	1" BSP N: 368557.002
				1" 1/4 BSP	21						1" 1/4 BSP N: 368557.003	
				M8	14							
				M10	14	22	52,4	26,2	M10	14		
				M10	14							

REAR BODY



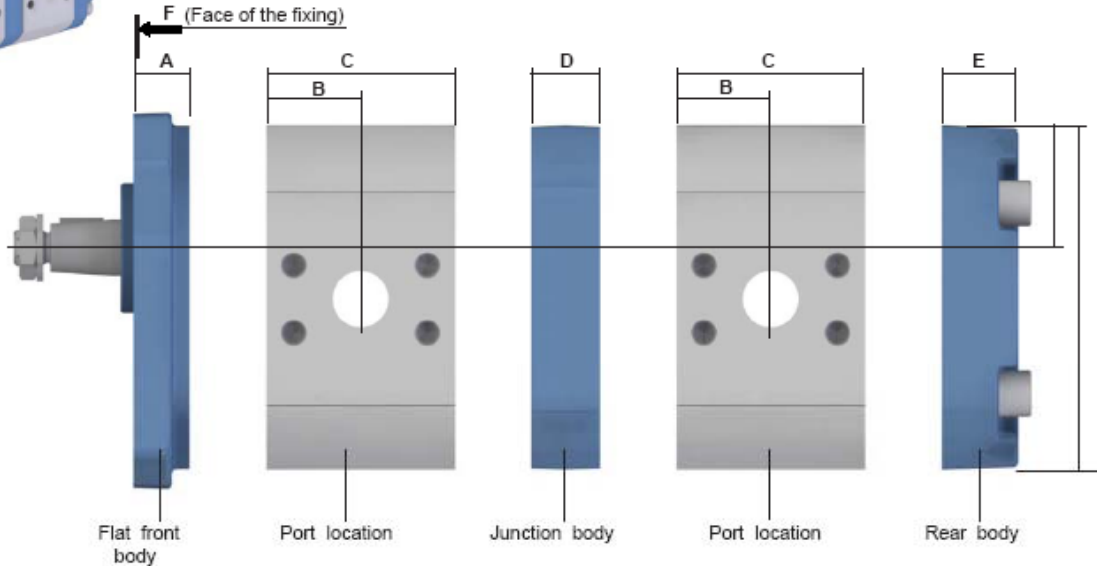
SERIES 2,6 TYPE CBN

DRIVING SHAFT (FLAT FRONT BODY)

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B09 Taper 1/8</p>  <p>Delivered with nut Ref.: K102045 and washer Ref.: K102100</p> <p><u>Maxi transmissible torque</u> 530 N.m</p>		<p>A24</p>  <p>Involute spline SAE "B" - 13 teeth - Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 310 N.m</p>	
<p>C09 Cône 1/5</p>  <p>Delivered with nut Ref.: K106924 and washer Ref.: K102101</p> <p><u>Maxi transmissible torque</u> 550 N.m</p>			

COMPACT VERSION

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



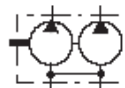
Capacity	B	C	D	E
2620	37	74,1	27	31,2
2625	39,3	78,6		
2627	41	82		
2630	42,5	85,1		
2635	44,5	89,1		
2640	47,3	94,6		

Flat front body	A
AAN / AAK - BAN - CBN	22

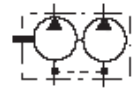
ATTENTION
For common suction.
Tolerated maximum flow, contact us.

JUNCTION BODY (Schematic examples for 2 elements pumps)

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



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



Possible combinations of junctions up to 5 elements

CALCULATION of the TORQUE

Q Capacity in cc / rev
P Pressure in bar
 η_m Méchanical efficiency (see catalogue C10)

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

Example : P 1 BAN 2627 Y D 2620 Y L 10 B09 Pressure: 2627 200 bar Speed: 1500 t/min
2620 150 bar

$\frac{1,59 \times 27 \times 200}{1000 \times 0,87} = 9,86 \text{ N.m}$

$\frac{1,59 \times 20 \times 150}{1000 \times 0,87} = 5,48 \text{ N.m}$

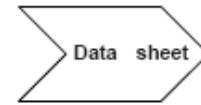
= **15,34 N.m** → Total torque

Consult us for availability



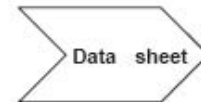
PUMPS PRESENTATION
SERIES 3

- FLAT FRONT BODIES



F.T 30 1312

PUMP **AAAN**



F.T 30 1320

PUMP **AAK**



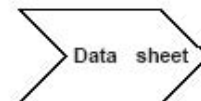
F.T 30 1357

PUMP **BAN**



F.T 30 1321

PUMP **CBN**




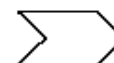
F.T 30 1322

PUMP **CBK**



F.T 30 1358

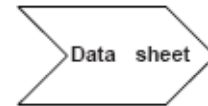
 Consult us for availability



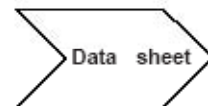
JTEKT
HPI

- FLAT FRONT BODY (rest)

PUMP

DBN**F.T 30 1312**

PUMP

DBK**F.T 30 1320**MULTIPLES
PUMPS**F.T 30 1356**

MAX. WORKING CONDITIONS SERIES 3

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
							l / min	l / min			
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	5,6
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	5,6
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	5,6
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	5,7
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	6,9
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	7,1
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	7,8
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	8

The pump can only run in one way rotation (Precise the direction of rotation on order).

The working cycles hereunder are possible with hydraulic mineral oil for viscosities between 12 and 150 cSt (65,2 and 700 SUS).

The minimum viscosity of 12 cSt (65,2 SUS) is available for a maximum temperature in the hydraulic circuit.

Working temperature: -20 °C (4 °F) to + 80 °C (176 °F) (140 °C (284 °F) with Viton shaft seal).

Full flow filtration: 10 to 15 microns at the pressure port of the pump or on the return circuit.

Filtration on the suction side: 125 microns.

Pressure at the inlet of the pump:

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

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

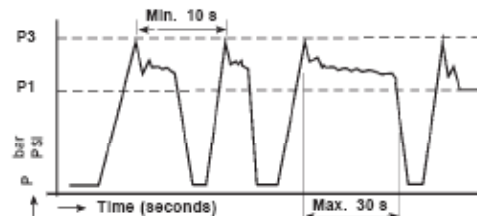
For any other coupling, see technical data sheet F.T.R 0009.

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

P1 Maximum pressure in continuous duty.

Maximum Pressure 

P3 Allowable peak pressure.



Consult us for availability

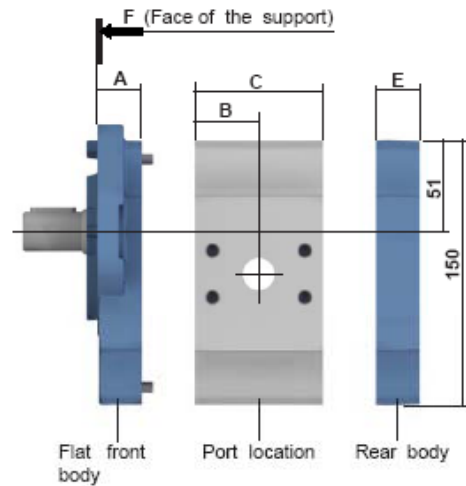
MAIN CHARACTERISTICS SERIES 3

FLAT FRONT BODIES

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

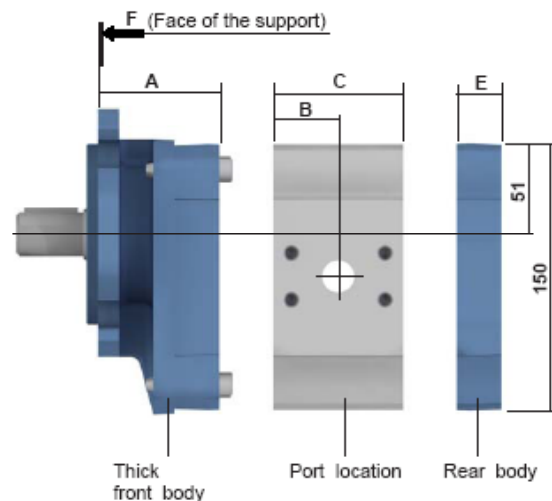


THICK FRONT BODIES

Thick front bodies:	A
AAP / AEP - AAR / AER	68
AAX - ABP / ABR	
ADP / ADR - ADX / ADZ	
ZFC	72

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









































Consult us for availability

AVAILABILITIES SERIES 3

II Sign	III Sign	IV Sign	3 Sign	VI Sign	VII Sign	VIII Sign	IX Sign	X Sign	XI Sign	XII Sign
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For CODIFICATION see data sheet **F.T.R 0011**



FRONT BODIES		CAPACITY (V and VI Sign)		PORT LOCATION (VII Sign)						REAR BODIES (VIII sign)			TAPERED		DRIVING SHAFTS (IX, X and XI Sign)			
				H	C	B	U	X	Y	L	A	V	J*	10	20	30	40	
         	AN / ANK AN BN / CBK DBN / DBK	3020 3025 3031 3040 3050 3060 3071 3080 3090 3100																
	         	         	  	 	 													

LEGENDES

DIRECTION of ROTATION

P1 = Clockwise
P2 = Anti clockwise

FRONT BODIES

A** = Fixing SAE and ISO
BAN = Fixing English and Italian
CBK = Fixing French
UBK = Fixing German
ZFC = Fixing ZF

PORT LOCATION

H = HPI
C = Square location
B = Italian location
U = SAE Inneaded ports (Norm J 47c)
X = without ports
Y = ISO location (Norm 6162)

REAR BODIES

L = Standard
A = External flow control
V = Low pressure relief valve,
internal return
J* = Pre-arrangement for assembling
Module 3
see F.T. 30 1355 page

AVAILABILITIES SERIES 3

P	II Sign	III Sign	IV Sign	3	VI Sign	VII Sign	VIII Sign	IX Sign	X Sign	XI Sign	XII Sign
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For CODIFICATION, see data sheet **F.T.R.0011**



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 SHAFT (IX, X and XI Sign)				
P1	P2														L	A	V	J*	10	20	30	40

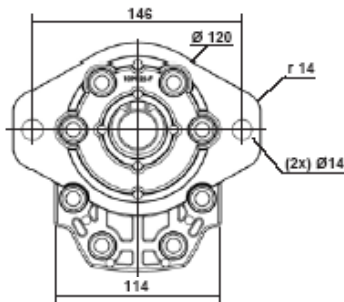
X	X	AAP / AEP AAR / AER - AAX													L	A	V	J*	10	20 A04 20 A05 20 A07	30 A04 30 A05 30 A07			
X	X	ABP - ABR																						
X	X	ADP / ADR																						
X	X																							
X	X																							

LEGENDES

- DIRECTION of ROT**
- P1 = Clockwise
 - P2 = Anti clockwise
- FRONT BODIES**
- SAE and ISO
 - English and Italian
 - French
 - German
 - ZF
- PORT LOCATION**
- H = HPI
 - C = Square location
 - B = Italian location
 - U = SAE Threaded ports (Norm J 475)
 - X = without ports
 - Y = ISO location (Norm 6162)
- REAR BODIES**
- L = Standard
 - A = External flow control
 - V = Low pressure relief valve, internal return
 - J* = Pre-arrangement for assembling eModule 3[®]
- see F.T.30 1355 page

FLAT FRONT BODIES

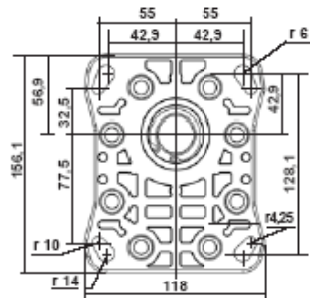
AAN / AAK



Centering: $\varnothing 101,6^{+0,05}$
Thickness: 6,35

AAN : F.T 30 1320
AAK : F.T 30 1357

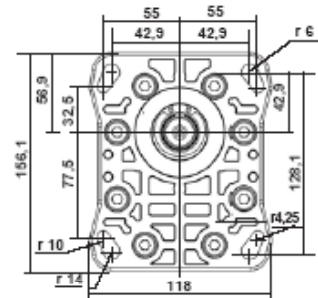
BAN



Centering: $\varnothing 50,78^{+0,05}$
Thickness: 5

BAN : F.T 30 1321

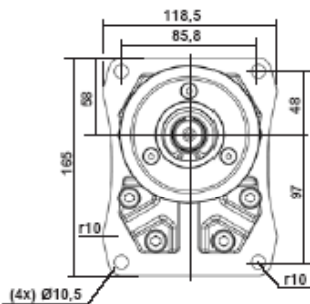
CBN / CBK



Centering: $\varnothing 65^{+0,05}$
Thickness: 5

CBN : F.T 30 1322
CBK : F.T 30 1358

DBN / DBK



Centering: $\varnothing 105^{+0,035}$
Thickness: 8

DBN : F.T 30 1323
DBK : F.T 30 1359

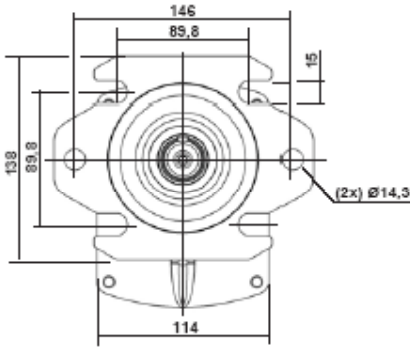


Consult us for availability

AVAILABILITIES SERIES 3

THICK FRONT BODIES

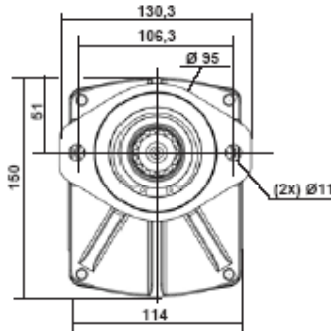
AAP / AEP
AAR / AER
AAX



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

AAP / AEP : F.T 30 1370
AAR / AER : F.T 30 1373
AAX : F.T 30 1414

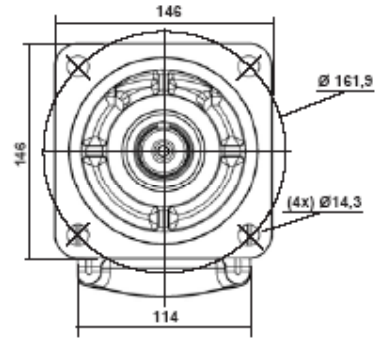
ABP / ABR



Centering: $\varnothing 82,55 \begin{smallmatrix} -0 \\ -0,05 \end{smallmatrix}$
Thickness: 6,35

ABP : F.T 30 1375
ABR : F.T 30 1376

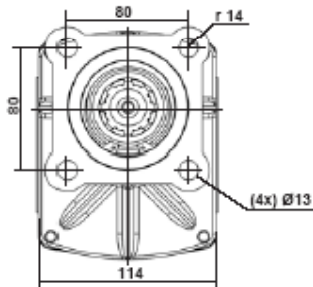
ADP / ADR
ADX / ADZ



Centering: $\varnothing 127 \begin{smallmatrix} -0 \\ -0,05 \end{smallmatrix}$
Thickness: 6,35

ADP : F.T 30 1371
ADR : F.T 30 1374
ADX : F.T 30 1377
ADZ : F.T 30 1378

ZFC



Centering: $\varnothing 80 \begin{smallmatrix} -0,03 \\ -0,05 \end{smallmatrix}$
Thickness: 9

ZFC : F.T 30 1372

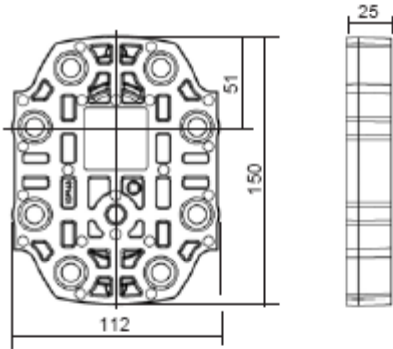
CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
	H (HPI)												3020 1" N: 3.500072 3025 B&S P V: 3.505060 3020 1" 1/4 N: 3.500103 3025 B&S P V: 3.505061	3020 1/2" N: 3.500070 3025 B&S P V: 3.505058 3020 3/4" N: 3.500071 3025 B&S P V: 3.505060
3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066	1" BSP N: 3.500072 V: 3.505060		
3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16				
3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 N: 3.500493 3080 B&S P V: 3.505067	3071 1" N: 3.500072 3080 B&S P V: 3.505060	3090 1" 1/2 N: 3.500493 3100 B&S P V: 3.505067	3090 1" 1/4 N: 3.500103 3100 B&S P V: 3.505061
C (Square)														
3020 to 3040														
3050 3060	28	55		M8	17	18	55		M8	17				
3071 to 3100														
B (Italian)														
3020 to 3040	27	51		M10	17	18	40		M8	17				
3050 3060														
3071 to 3100														
U (Threaded SAE J 475)														
3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
3071 to 3100														
Y (ISO 6162)														
3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
3071 to 3100														
X (without port)														
3020 to 3040											Only with rear body Type A			
3050 3060														
3071 to 3100														

REAR BODIES

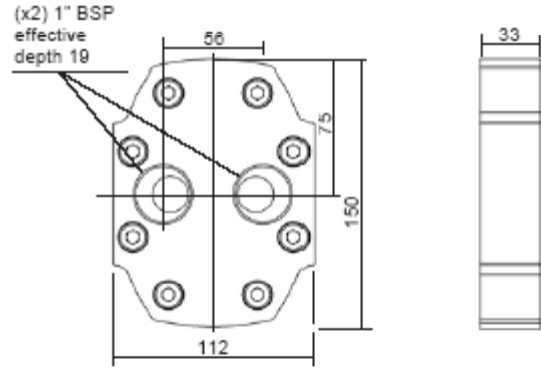
L

Standard



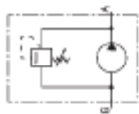
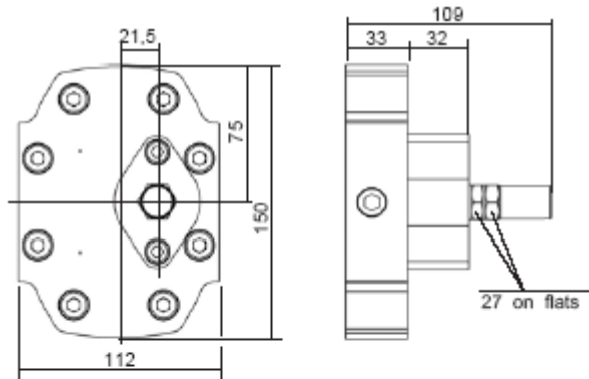
A

with ports



V

Low pressure relief valve
(Adjustable) internal return

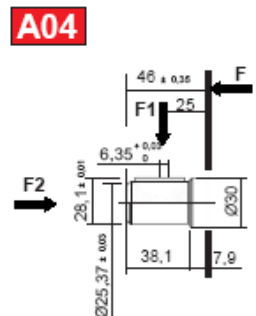


CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

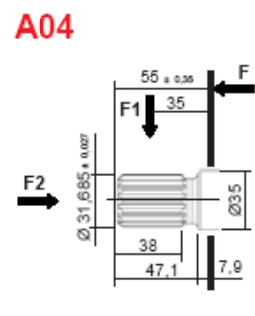
Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
	H (HPI)												3020 1" N: 3.500072 3025 B&S P V: 3.505060 3020 1" 1/4 N: 3.500103 3025 B&S P V: 3.505061	3020 1/2" N: 3.500070 3025 B&S P V: 3.505058 3020 3/4" N: 3.500071 3025 B&S P V: 3.505060
3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066	1" BSP N: 3.500072 V: 3.505060		
3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16				
3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 N: 3.500493 3080 B&S P V: 3.505067	3071 1" N: 3.500072 3080 B&S P V: 3.505060		
C (Square)														
3020 to 3040	28	55		M8	17	18	55		M8	17				
3050 3060														
3071 to 3100														
B (Italian)														
3020 to 3040	27	51		M10	17	18	40		M8	17				
3050 3060														
3071 to 3100														
U (Threaded SAE J 475)														
3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
3071 to 3100														
Y (ISO 6162)														
3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
3071 to 3100														
X (without port)														
3020 to 3040	Only with rear body Type A													
3050 3060														
3071 to 3100														

DRIVING SHAFT (THICK FRONT BODY)

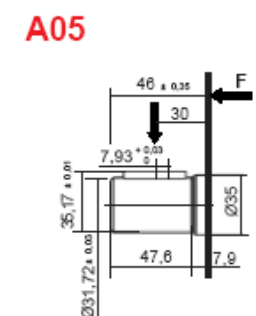
Tapered 10	Straight keyed 20	Splined 30	Tang 40
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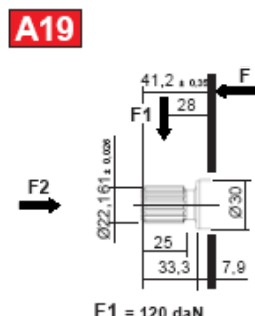
F1 = 120 daN
F2 = 50 daN
Maxi transmissible torque
340 N.m



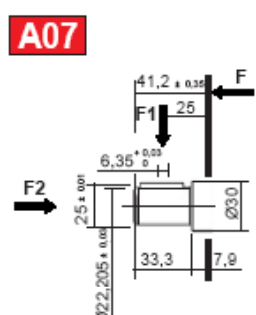
F1 = 120 daN
F2 = 50 daN
Involute spline SAE standard
14 teeth - 1" 1/4-
Diametral Pitch 16/32
30° Pressure angle
Maxi transmissible torque
500 N.m



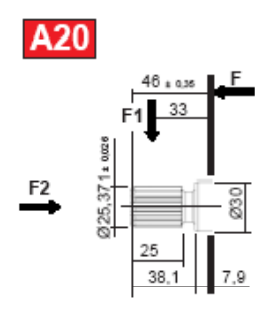
F1 = 120 daN
F2 = 50 daN
Maxi transmissible torque
320 N.m



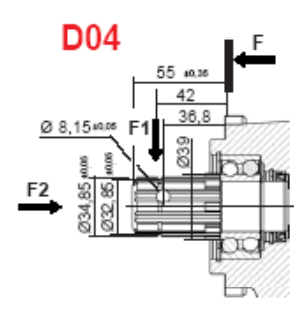
F1 = 120 daN
F2 = 50 daN
Involute spline SAE standard
13 teeth - 7/8"
Diametral Pitch 16/32
30° Pressure angle
Maxi transmissible torque
310 N.m



F1 = 140 daN
F2 = 50 daN
Maxi transmissible torque
290 N.m



F1 = 120 daN
F2 = 50 daN
Involute spline SAE Standard
15 teeth - 1"
Diametral Pitch 16/32
30° Pressure angle
Maxi transmissible torque
490 N.m



F1 = 140 daN
F2 = 50 daN
Parallel spline side
8 x 32 x 36 to Norm NF E 22 141
Pushing Minor diameter
Maxi transmissible torque
480 N.m

Consult us for availability

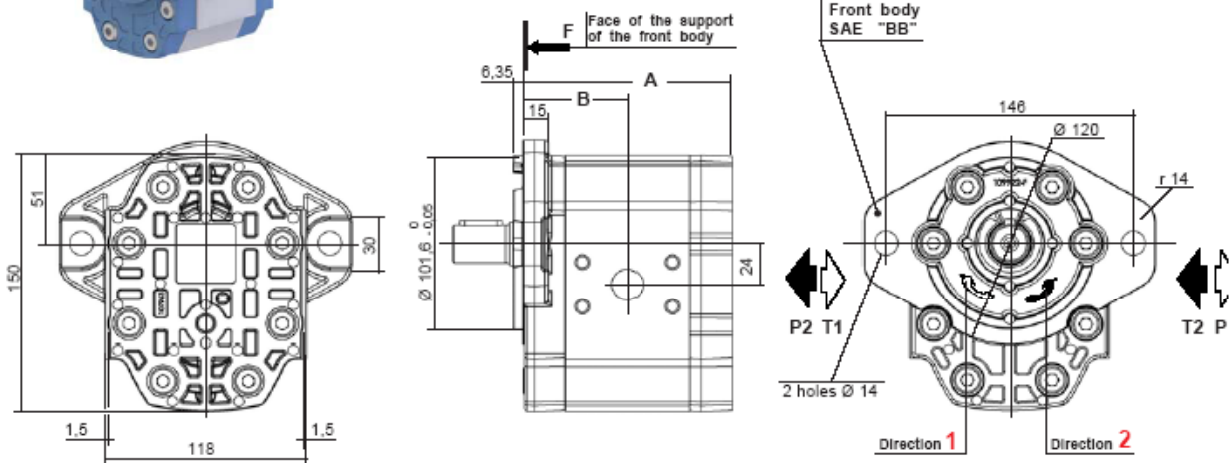
JTEKT
HPI

SERIES 3 TYPE AAN



P II Sign **AA** **N** **3** VI Sign **H** **L** IX Sign X Sign I XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	122,7	61,3
050 - 060	149,2	74,5
071 - 080 - 090 - 100	169,2	84,2

Multiple geared pumps, see data sheet **F.T 30 1356**

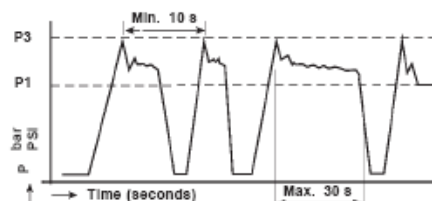
Seal kits:
Nitrile: **K5074041**
Viton: **K5074042**
(For the manufacturings from october 1991)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
							l / min	l / min			
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	5,6
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	5,6
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	5,6
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	5,7
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	6,9
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	7,1
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	7,8
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	8

P1 Maximum pressure in continuous duty.

Maximum Pressure \Rightarrow

P3 Allowable peak pressure.



SERIES 3 TYPE AAN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
H (HPI) Ø F effective depth G	3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	3020 1" N: 3.500072 3025 BSP V: 3.505060	3020 1/2" N: 3.500070 3025 BSP V: 3.505058		
	3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066		1" BSP N: 3.500072 V: 3.505060	
	3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 N: 3.500493 3080 BSP V: 3.505067	3071 1" N: 3.500072 3080 BSP V: 3.505060	3090 1" 1/2 N: 3.500493 3100 BSP V: 3.505067	3090 1" 1/4 N: 3.500103 3100 BSP V: 3.505061
C (Square) 4 holes Ø F effective depth G	3020 to 3040														
	3050 3060	28	55		M8	17	18	55		M8	17				
	3071 to 3100														
B (Italian) 4 holes Ø F effective depth G	3020 to 3040	27	51		M10	17	18	40		M8	17				
	3050 3060														
	3071 to 3100														
U (Threaded SAE J 475) Ø F effective depth G	3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
	3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
	3071 to 3100														
Y (ISO 6162) Ø F effective depth G	3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
	3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
	3071 to 3100														
X (without port) 	3020 to 3040	Only with rear body Type A													
	3050 3060														
	3071 to 3100														

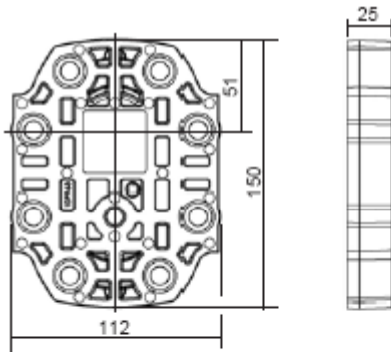
Consult us for availability



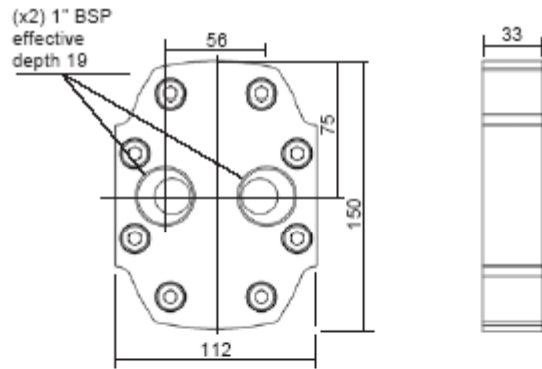
SERIES 3 TYPE AAN

REAR BODIES

L
Standard

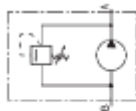
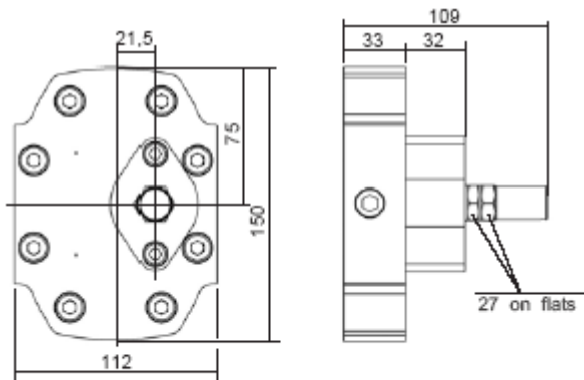


A
with ports



V

Low pressure relief valve
(Adjustable) Internal return



SERIES 3 TYPE AAN

DRIVING SHAFTS

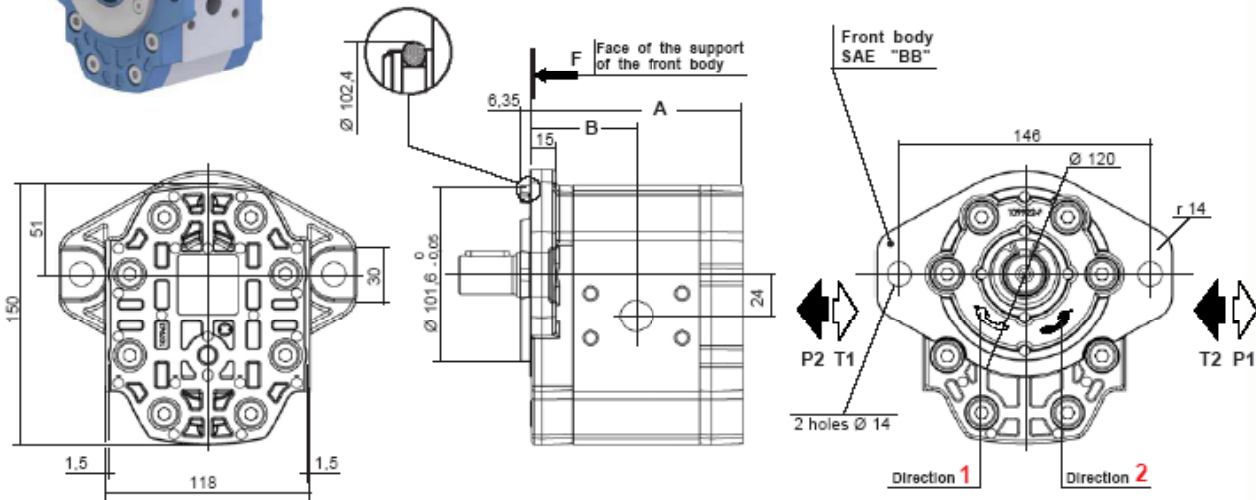
Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B03 Taper 1/8</p> <p>Delivered with Nut and lock washer Ref.: K100734 Ref.: K103945</p> <p><u>Maxi transmissible torque</u> 530 N.m</p>	<p>A02</p> <p><u>Maxi transmissible torque</u> 290 N.m</p>	<p>A02</p> <p>Involute spline SAE Standard 13 teeth - 7/8" - Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 390 N.m</p>	<p>C04</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>B04 Taper 1/8</p> <p>Delivered with Nut Ref.: K101877</p> <p><u>Maxi transmissible torque</u> 800 N.m</p>	<p>C04</p> <p><u>Maxi transmissible torque</u> 320 N.m</p>		
<p>C04 Taper 1/5</p> <p>Delivered with Nut Ref.: K101712</p> <p><u>Maxi transmissible torque</u> 750 N.m</p>			

SERIES 3 TYPE AAK



P II Sign **AAK** **3** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	122,7	61,3
050 - 060	149,2	74,5
071 - 080 - 090 - 100	169,2	84,2

Multiples geared pumps. see data sheet **F.T 30 1356**

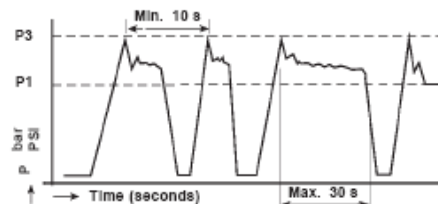
Saál kltá:
 Nitrile: **K5074041 + K107081**
 Viton: **K5074042 + K107045**
 (For the manufacturing from october 1991)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
				l / min	l / min						
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	5,6
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	5,6
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	5,6
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	5,7
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	6,9
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	7,1
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	7,8
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	8

P1 Maximum pressure in continuous duty.

Maximum Pressure \Rightarrow

P3 Allowable peak pressure.

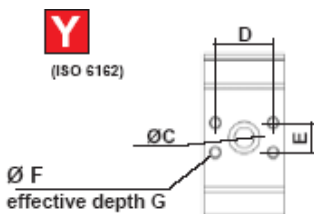
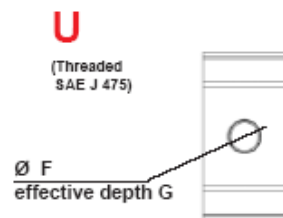
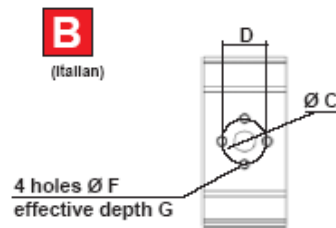
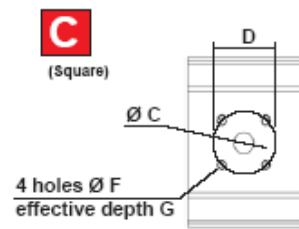
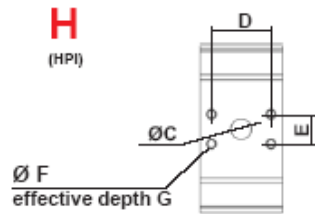


Consult us for availability



SERIES 3 TYPE AAK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	3020 1" N: 3.500072 3025 BSP V: 3.505060	3020 1/2" N: 3.500070 3025 BSP V: 3.505058		
3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066		1" BSP N: 3.500072 V: 3.505060	
3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 N: 3.500493 3080 BSP V: 3.505067	3071 1" N: 3.500072 3080 BSP V: 3.505060	3090 1" 1/2 N: 3.500493 3100 BSP V: 3.505067	3090 1" 1/4 N: 3.500103 3100 BSP V: 3.505061
3020 to 3040	28	55		M8	17	18	55		M8	17				
3050 3060														
3071 to 3100														
3020 to 3040	27	51		M10	17	18	40		M8	17				
3050 3060														
3071 to 3100														
3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
3071 to 3100														
3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
3071 to 3100														
3020 to 3040	Only with rear body Type A													
3050 3060														
3071 to 3100														

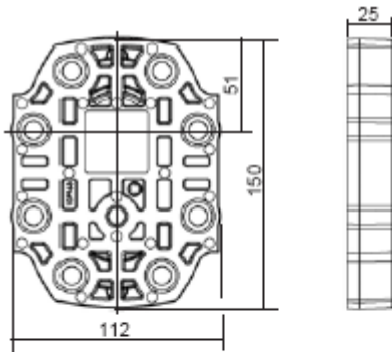
Consult us for availability



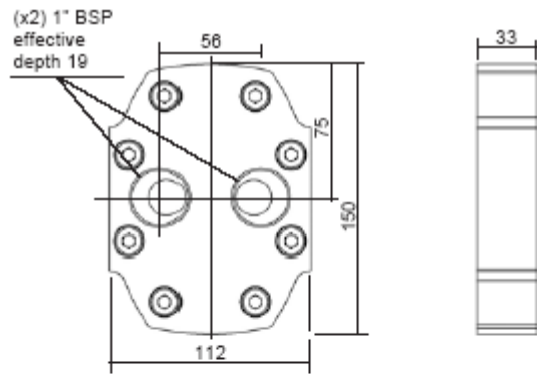
SERIES 3 TYPE AAK

REAR BODIES

L
Standard

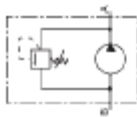
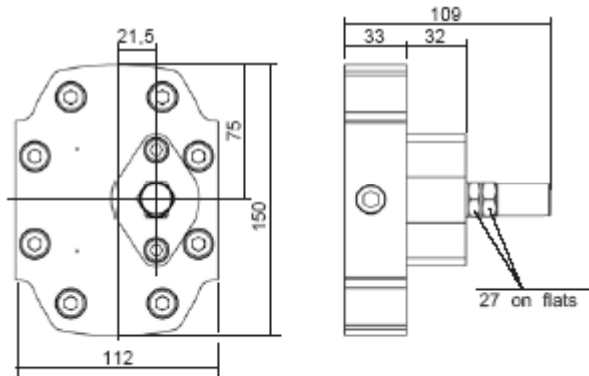


A
with ports



V

Low pressure relief valve
(Adjustable) Internal return



SERIES 3 TYPE AAK

DRIVING SHAFTS

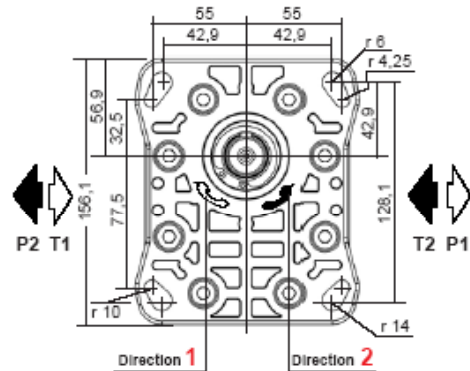
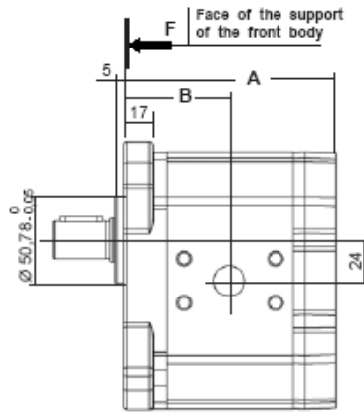
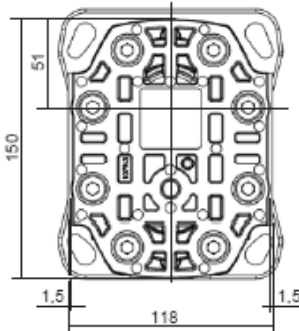
Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B03 Taper 1/8</p> <p>Delivered with Nut and lock washer Ref.: K100734 Ref.: K103945</p> <p><u>Maxi transmissible torque</u> 530 N.m</p>	<p>A02</p> <p><u>Maxi transmissible torque</u> 290 N.m</p>	<p>A02</p> <p>Involute spline SAE Standard 13 teeth - 7/8" - Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 390 N.m</p>	<p>C04</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>B04 Taper 1/8</p> <p>Delivered with Nut Ref.: K101877</p> <p><u>Maxi transmissible torque</u> 800 N.m</p>	<p>C04</p> <p><u>Maxi transmissible torque</u> 320 N.m</p>		
<p>C04 Taper 1/5</p> <p>Delivered with Nut Ref.: K101712</p> <p><u>Maxi transmissible torque</u> 750 N.m</p>			

SERIES 3 TYPE BAN



P II Sign **BAN 3** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	122,7	61,3
050 - 060	149,2	74,5
071 - 080 - 090 - 100	169,2	84,2

Multiple geared pumps, see data sheet **F.T 30 1356**

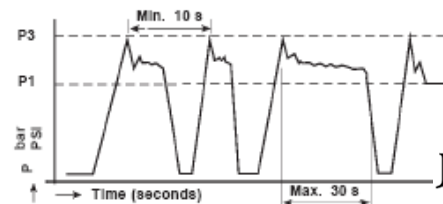
Saal kita:
 Nitrile: **K5074041**
 Viton: **K5074042**
 (For the manufacturings from october 1991)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
							l / min	l / min			
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	5,6
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	5,6
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	5,6
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	5,7
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	6,9
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	7,1
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	7,8
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	8

P1 Maximum pressure in continuous duty.

Maximum Pressure

P3 Allowable peak pressure.



SERIES 3 TYPE BAN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
H (HPI) 	3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	3020 1" BSP N: 3.500072 V: 3.505060	3025 1/2" BSP N: 3.500070 V: 3.505058	3020 3/4" BSP N: 3.500071 V: 3.505060	3025 1" BSP N: 3.500072 V: 3.505060
	3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066		1" BSP N: 3.500072 V: 3.505060	
	3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 BSP N: 3.500493 V: 3.505067	3080 1" BSP N: 3.500072 V: 3.505060	3090 1" 1/4 BSP N: 3.500103 V: 3.505061	3100 1" BSP N: 3.500072 V: 3.505060
C (Square) 	3020 to 3040														
	3050 3060	28	55		M8	17	18	55		M8	17				
	3071 to 3100														
B (Italian) 	3020 to 3040	27	51		M10	17	18	40		M8	17				
	3050 3060														
	3071 to 3100														
U (Threaded SAE J 475) 	3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
	3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
	3071 to 3100														
Y (ISO 6162) 	3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
	3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
	3071 to 3100														
X (without port) 	3020 to 3040	Only with rear body Type A													
	3050 3060	Only with rear body Type A													
	3071 to 3100	Only with rear body Type A													

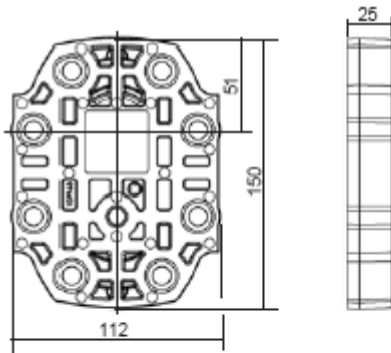
Consult us for availability



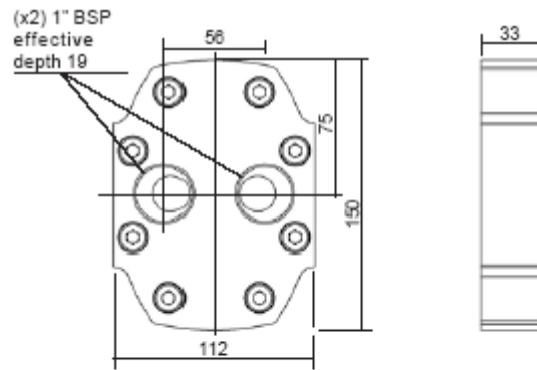
SERIES 3 TYPE BAN

REAR BODIES

L
Standard

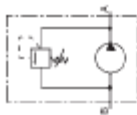
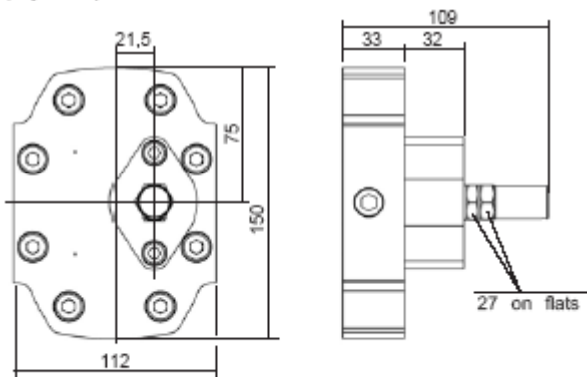


A
with ports



V

Low pressure relief valve
(Adjustable) Internal return



SERIES 3 TYPE BAN

DRIVING SHAFTS

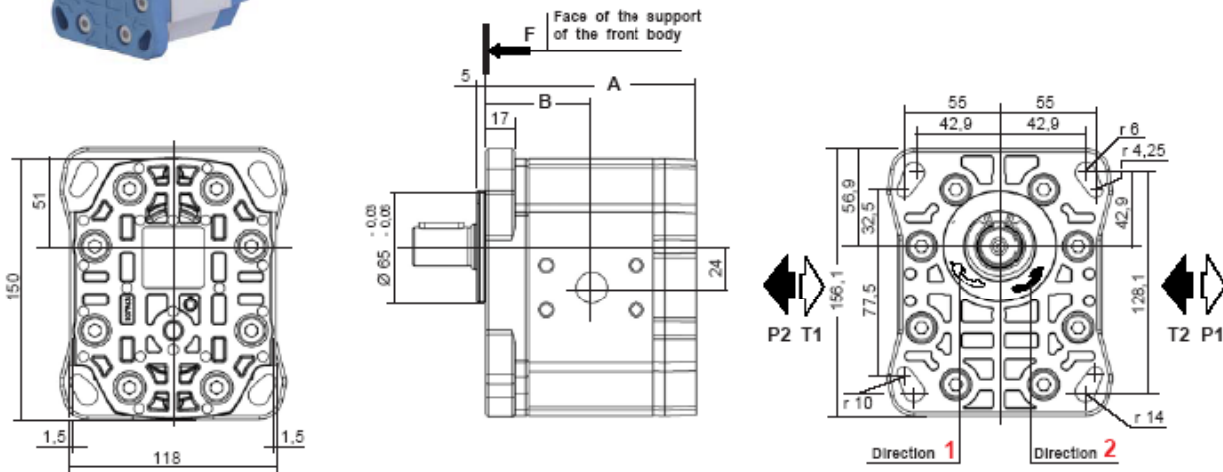
Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B03 Taper 1/8</p> <p>Delivered with Nut and lock washer Ref.: K100734 Ref.: K103945</p> <p><u>Maxi transmissible torque</u> 530 N.m</p>	<p>A02</p> <p><u>Maxi transmissible torque</u> 290 N.m</p>	<p>A02</p> <p>Involute spline SAE Standard 13 teeth - 7/8" - Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 390 N.m</p>	<p>C04</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>B04 Taper 1/8</p> <p>Delivered with Nut Ref.: K101877</p> <p><u>Maxi transmissible torque</u> 800 N.m</p>	<p>C04</p> <p><u>Maxi transmissible torque</u> 320 N.m</p>		
<p>C04 Taper 1/5</p> <p>Delivered with Nut Ref.: K101712</p> <p><u>Maxi transmissible torque</u> 750 N.m</p>			

SERIES 3 TYPE CBN



P II Sign **CB N 3** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	122,7	61,3
050 - 060	149,2	74,5
071 - 080 - 090 - 100	169,2	84,2

Multiples geared pumps, see data sheet **F.T 30 1356**

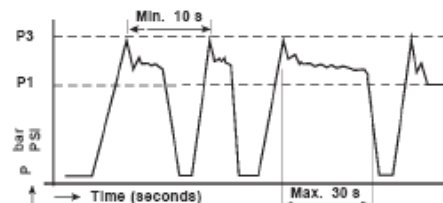
Seal kits:
 Nitrile: **K5074041**
 Viton: **K5074042**
 (For the manufacturings from october 1991)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
				l / min	l / min						
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	5,6
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	5,6
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	5,6
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	5,7
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	6,9
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	7,1
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	7,8
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	8

P1 Maximum pressure in continuous duty.

Maximum Pressure \Rightarrow

P3 Allowable peak pressure.



SERIES 3 TYPE CBN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
H (HPI) Ø F effective depth G	3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	3020 1" N: 3.500072 3025 B&P V: 3.505060	3020 1/2" N: 3.500070 3025 B&P V: 3.505058		
	3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066	1" BSP N: 3.500072 V: 3.505060		
	3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 N: 3.500433 3080 B&P V: 3.505067	3071 1" N: 3.500072 3080 B&P V: 3.505060	3090 1" 1/4 N: 3.500103 3100 B&P V: 3.505061	
C (Square) 4 holes Ø F effective depth G	3020 to 3040														
	3050 3060	28	55		M8	17	18	55		M8	17				
	3071 to 3100														
B (Italian) 4 holes Ø F effective depth G	3020 to 3040	27	51		M10	17	18	40		M8	17				
	3050 3060														
	3071 to 3100														
U (Threaded SAE J 475) Ø F effective depth G	3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
	3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
	3071 to 3100														
Y (ISO 6162) Ø F effective depth G	3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
	3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
	3071 to 3100														
X (without port) 	3020 to 3040	Only with rear body Type A													
	3050 3060														
	3071 to 3100														



Consult us for availability

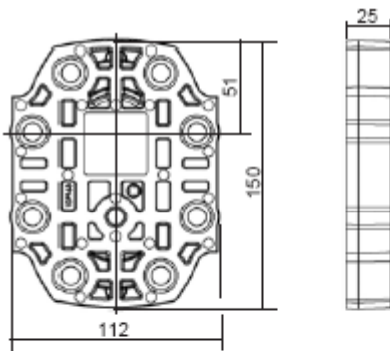


SERIES 3 TYPE CBN

REAR BODIES

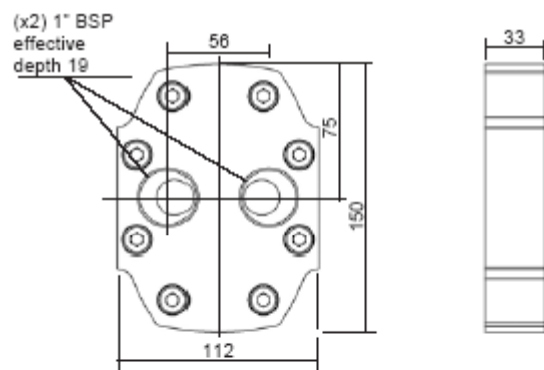
L

Standard



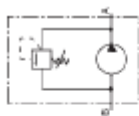
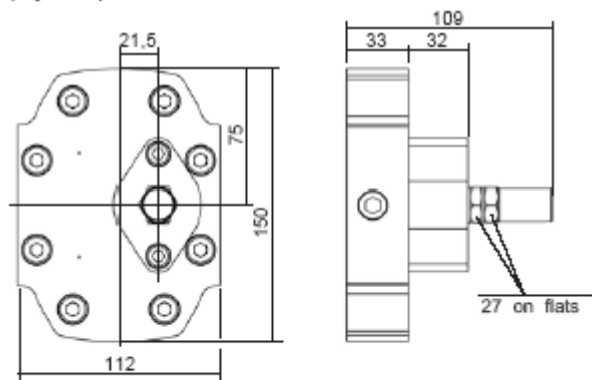
A

with ports



V

Low pressure relief valve
(Adjustable) internal return

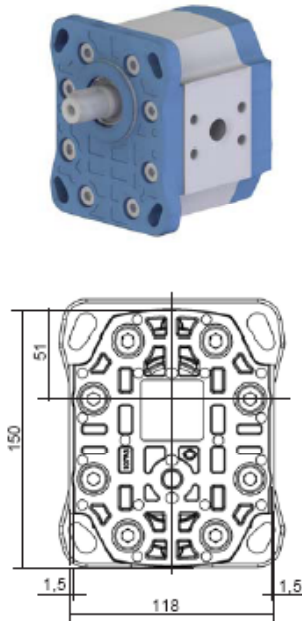


SERIES 3 TYPE CBN

DRIVING SHAFTS

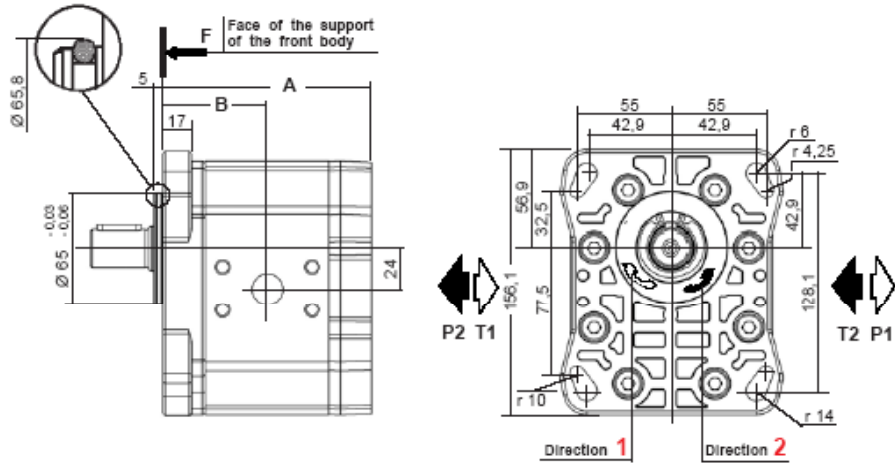
Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B03 Taper 1/8</p> <p>Delivered with Nut and lock washer Ref.: K100734 Ref.: K103945</p> <p><u>Maxi transmissible torque</u> 530 N.m</p>	<p>A02</p> <p><u>Maxi transmissible torque</u> 290 N.m</p>	<p>A02</p> <p>Involute spline SAE Standard 13 teeth - 7/8" - Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 390 N.m</p>	<p>C04</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>B04 Taper 1/8</p> <p>Delivered with Nut Ref.: K101877</p> <p><u>Maxi transmissible torque</u> 800 N.m</p>	<p>C04</p> <p><u>Maxi transmissible torque</u> 320 N.m</p>		
<p>C04 Taper 1/5</p> <p>Delivered with Nut Ref.: K101712</p> <p><u>Maxi transmissible torque</u> 750 N.m</p>			

SERIES 3 TYPE CBK



P II Sign **CBK 3** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	122,7	61,3
050 - 060	149,2	74,5
071 - 080 - 090 - 100	169,2	84,2

Multiples geared pumps, see data sheet **F.T 30 1356**

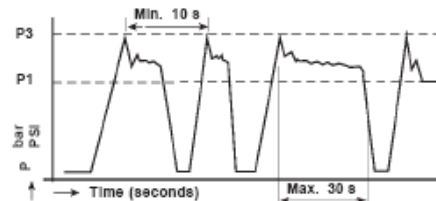
Seal kits:
 Nitrile: **K5074041 + K106675**
 Viton: **K5074042 + K106676**
 (For the manufacturings from october 1991)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		input power (kW) at 1000 RPM and 100 bar	input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
							l / min	l / min			
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	5,6
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	5,6
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	5,6
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	5,7
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	6,9
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	7,1
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	7,8
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	8

P1 Maximum pressure in continuous duty.

Maximum Pressure \Rightarrow

P3 Allowable peak pressure.



 Consult us for availability



SERIES 3 TYPE CBK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
H (HPI) Ø F effective depth G	3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	3020 1" N: 3.500072 3025 BSP V: 3.505060	3020 1/2" N: 3.500070 3025 BSP V: 3.505058	3020 1" N: 3.500072 3025 BSP V: 3.505060	3025 3/4" N: 3.500071 3025 BSP V: 3.505060
	3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066	1" BSP N: 3.500072 V: 3.505060		
	3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 N: 3.500493 3080 BSP V: 3.505067	3071 1" N: 3.500072 3080 BSP V: 3.505060	3090 1" 1/4 N: 3.500103 3100 BSP V: 3.505061	3090 1" 1/4 N: 3.500103 3100 BSP V: 3.505061
C (Square) 4 holes Ø F effective depth G	3020 to 3040														
	3050 3060	28	55		M8	17	18	55		M8	17				
	3071 to 3100														
B (Italian) 4 holes Ø F effective depth G	3020 to 3040	27	51		M10	17	18	40		M8	17				
	3050 3060														
	3071 to 3100														
U (Threaded SAE J 475) Ø F effective depth G	3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
	3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
	3071 to 3100														
Y (ISO 6162) Ø F effective depth G	3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
	3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
	3071 to 3100														
X (without port) 	3020 to 3040	Only with rear body Type A													
	3050 3060														
	3071 to 3100														

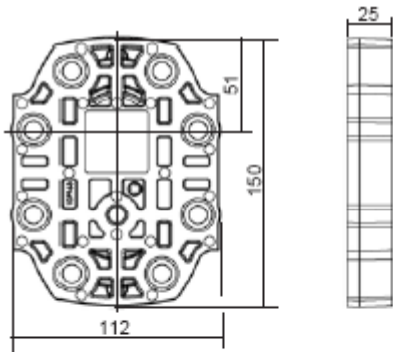
Consult us for availability



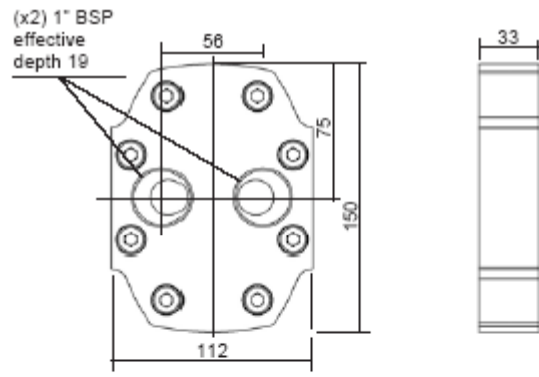
SERIES 3 TYPE CBK

REAR BODIES

L
Standard

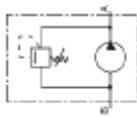
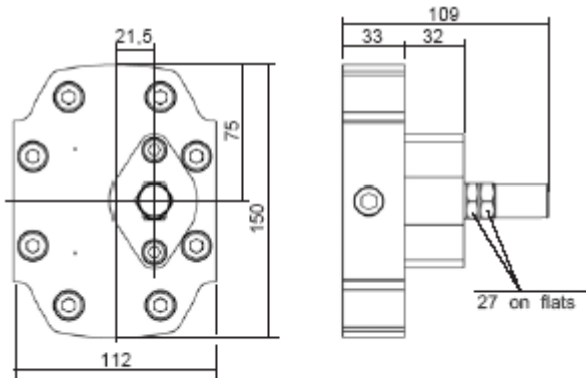


A
with ports



V

Low pressure relief valve
(Adjustable) Internal return



SERIES 3 TYPE CBK

DRIVING SHAFTS

Tapered	Straight keyed	Splined	Tang
10	20	30	40
<p>B03 Taper 1 / 8</p> <p>Delivered with Nut and lock washer Ref.: K100734 Ref.: K103945</p> <p><u>Maxi transmissible torque</u> 530 N.m</p>	<p>A02</p> <p><u>Maxi transmissible torque</u> 290 N.m</p>	<p>A02</p> <p>Involute spline SAE Standard 13 teeth - 7/8" - Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 390 N.m</p>	<p>C04</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>B04 Taper 1 / 8</p> <p>Delivered with Nut Ref.: K101877</p> <p><u>Maxi transmissible torque</u> 800 N.m</p>	<p>C04</p> <p><u>Maxi transmissible torque</u> 320 N.m</p>		
<p>C04 Taper 1 / 5</p> <p>Delivered with Nut Ref.: K101712</p> <p><u>Maxi transmissible torque</u> 750 N.m</p>			

Consult us for availability

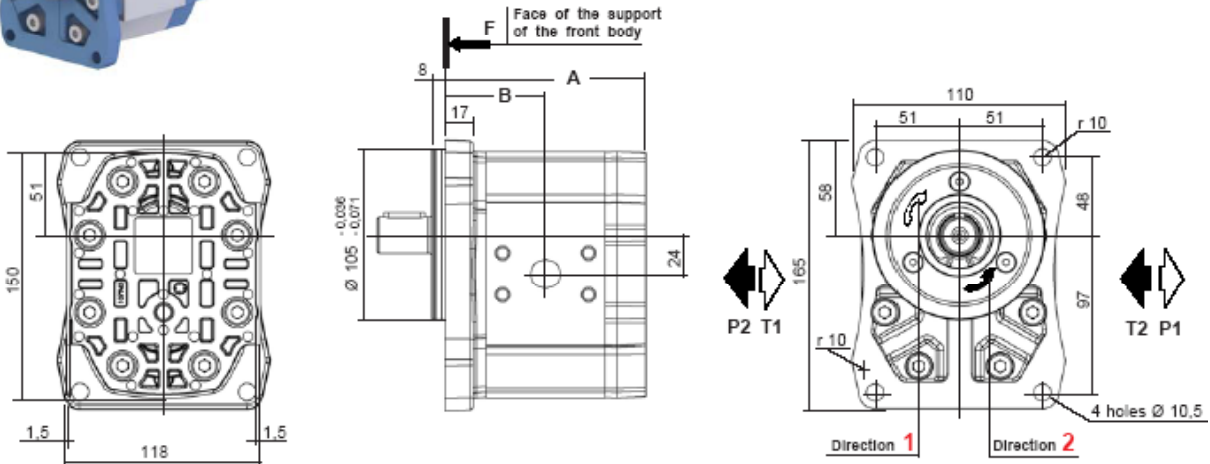


SERIES 3 TYPE DBN



P II Sign **DBN** **3** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	122,7	61,3
050 - 060	149,2	74,5
071 - 080 - 090 - 100	169,2	84,2

Multiples geared pumps. see data sheet **F.T 30 1356**

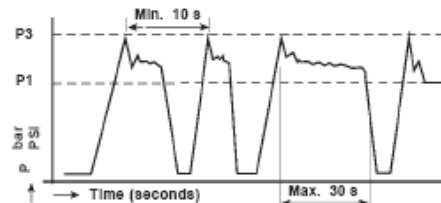
Seal kits:
Nitrile: **K5074041**
Viton: **K5074042**
(For the manufacturings from october 1991)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
				l / min	l / min						
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	5,6
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	5,6
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	5,6
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	5,7
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	6,9
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	7,1
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	7,8
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	8

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



SERIES 3 TYPE DBN

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
												3020 1" N: 3.500072 3025 BSP V: 3.505060		3020 1/2" N: 3.500070 3025 BSP V: 3.505058	
H (HPI) Ø F effective depth G	3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	3020 1" 1/4 N: 3.500103 3025 BSP V: 3.505061		3020 3/4" N: 3.500071 3025 BSP V: 3.505060	
	3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066		1" BSP N: 3.500072 V: 3.505060	
	3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 N: 3.500493 3080 BSP V: 3.505067		3071 1" N: 3.500072 3080 BSP V: 3.505060	
C (Square) 4 holes Ø F effective depth G	3020 to 3040														
	3050 3060	28	55		M8	17	18	55		M8	17				
	3071 to 3100														
B (Italian) 4 holes Ø F effective depth G	3020 to 3040	27	51		M10	17	18	40		M8	17				
	3050 3060														
	3071 to 3100														
U (Threaded SAE J 475) Ø F effective depth G	3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
	3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
	3071 to 3100														
Y (ISO 6162) Ø F effective depth G	3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
	3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
	3071 to 3100														
X (without port) 	3020 to 3040	Only with rear body Type A													
	3050 3060														
	3071 to 3100														

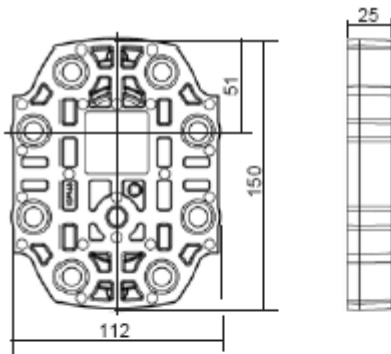
Consult us for availability



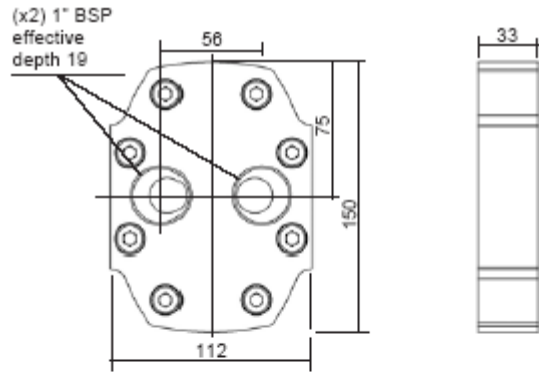
SERIES 3 TYPE DBN

REAR BODIES

L
Standard

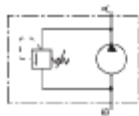
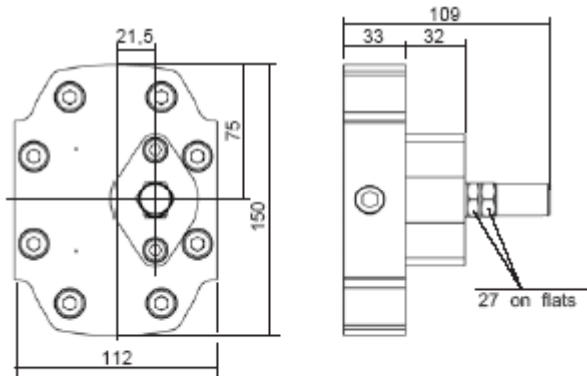


A
with ports



V

Low pressure relief valve
(Adjustable) Internal return



SERIES 3 TYPE DBN

DRIVING SHAFTS

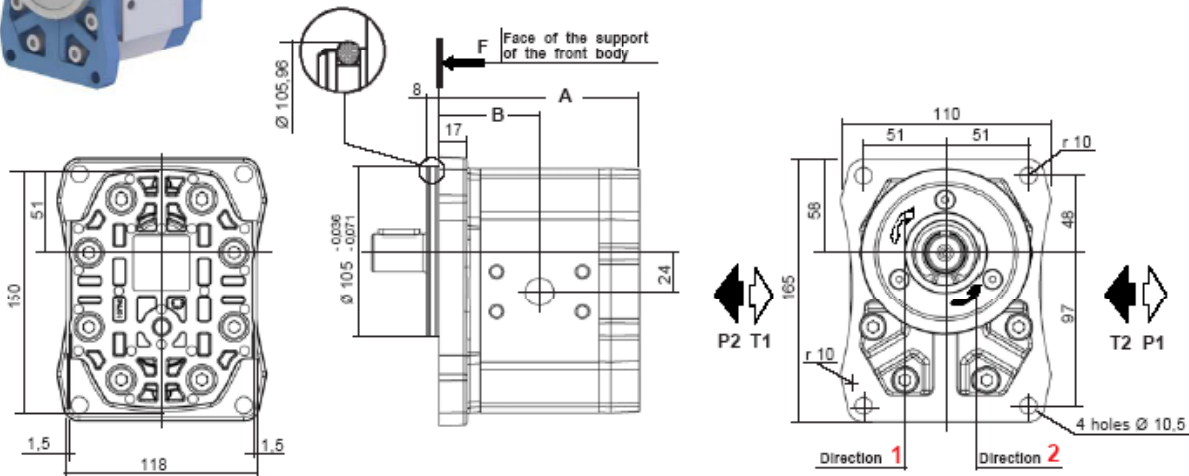
Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B03 Taper 1/8</p> <p>Delivered with Nut Ref.: K100734 and lock washer Ref.: K103945</p> <p><u>Maxi transmissible torque</u> 530 N.m</p>	<p>A02</p> <p><u>Maxi transmissible torque</u> 290 N.m</p>	<p>A02</p> <p>Involute spline SAE Standard 13 teeth - 7/8" - Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 390 N.m</p>	<p>C04</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>B04 Taper 1/8</p> <p>Delivered with Nut Ref.: K101877</p> <p><u>Maxi transmissible torque</u> 800 N.m</p>	<p>C04</p> <p><u>Maxi transmissible torque</u> 320 N.m</p>		
<p>C04 Taper 1/5</p> <p>Delivered with Nut Ref.: K101712</p> <p><u>Maxi transmissible torque</u> 750 N.m</p>			

SERIES 3 TYPE DBK



P II Sign **DBK 3** VI Sign **HL** IX Sign X Sign I XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	122,7	61,3
050 - 060	149,2	74,5
071 - 080 - 090 - 100	169,2	84,2

Multiples geared pumps, see data sheet **F.T 30 1356**

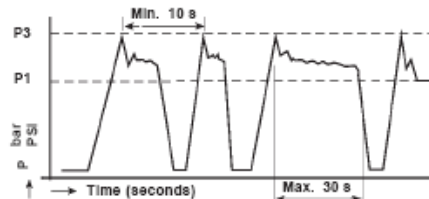
Seal kits:
 Nitrile: **K5074041 + K106598**
 Viton: **K5074042 + K108357**
 (For the manufacturings from october 1991)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
							l / min	l / min			
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	5,6
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	5,6
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	5,6
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	5,7
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	6,9
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	7,1
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	7,8
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	8

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.

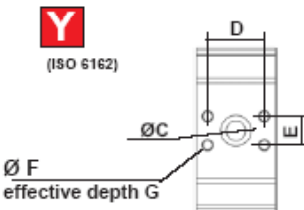
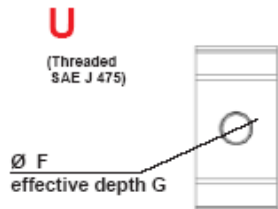
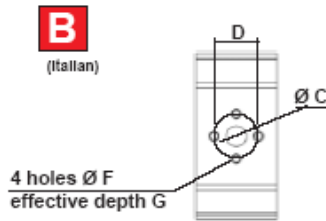
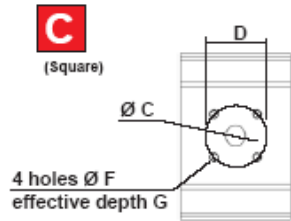
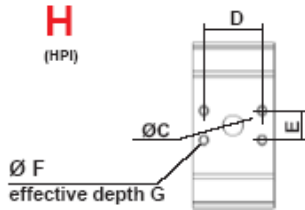


Consult us for availability



SERIES 3 TYPE DBK

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
											3020 to 3040	3050 3060	3071 to 3100	3020 3025
	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	1" N: 3.500072 BSP V: 3.505060	1/2" N: 3.500070 BSP V: 3.505058	3020 3025	3020 3025
	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066	1" BSP N: 3.500072 V: 3.505060	3071 3080 3090 3100	3071 3080 3090 3100
	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	1" 1/2 N: 3.500493 BSP V: 3.505067	1" N: 3.500072 BSP V: 3.505060	3071 3080 3090 3100	3071 3080 3090 3100
	27	51		M10	17	18	40		M8	17				
				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
											Only with rear body Type A			

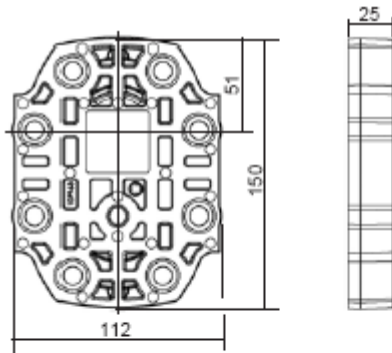
Consult us for availability



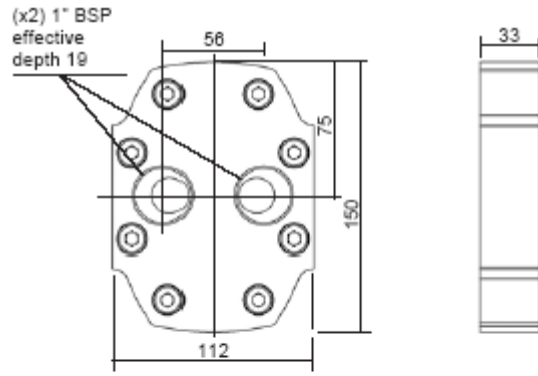
SERIES 3 TYPE DBK

REAR BODIES

L
Standard

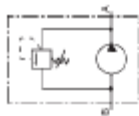
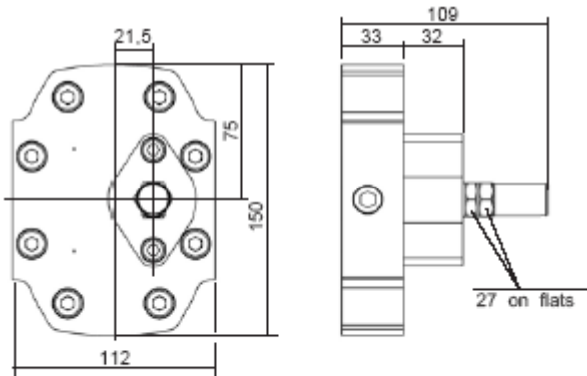


A
with ports



V

Low pressure relief valve
(Adjustable) Internal return



SERIES 3 TYPE DBK

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B03 Taper 1/8</p> <p>Delivered with Nut and lock washer Ref.: K100734 Ref.: K103945</p> <p><u>Maxi transmissible torque</u> 530 N.m</p>	<p>A02</p> <p><u>Maxi transmissible torque</u> 290 N.m</p>	<p>A02</p> <p>Involute spline SAE Standard 13 teeth - 7/8" - Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 390 N.m</p>	<p>C04</p> <p><u>Maxi transmissible torque</u> 70 N.m</p>
<p>B04 Taper 1/8</p> <p>Delivered with Nut Ref.: K101877</p> <p><u>Maxi transmissible torque</u> 800 N.m</p>	<p>C04</p> <p><u>Maxi transmissible torque</u> 320 N.m</p>		
<p>C04 Taper 1/5</p> <p>Delivered with Nut Ref.: K101712</p> <p><u>Maxi transmissible torque</u> 750 N.m</p>			



**PUMPS PRESENTATION**
SERIES 3**F.T 30 1312****- THICK FRONT BODIES**

PUMP

AAP / AEP

Data sheet

F.T 30 1370

PUMP

AAR / AER

Data sheet

F.T 30 1373

PUMP

AAX

Data sheet

F.T 30 1414

PUMP

ABP


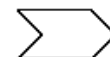
Data sheet

F.T 30 1375

PUMP

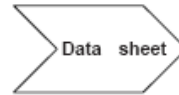
ABR

Data sheet

F.T 30 1376 Consult us for availability

- THICK FRONT BODIES (rest)

PUMP

ADP

F.T 30 1371

PUMP

ADR

F.T 30 1374

PUMP

ADX

F.T 30 1377

PUMP

ADZ

F.T 30 1378

PUMP

ZFC

F.T 30 1372

MULTIPLES
PUMPS

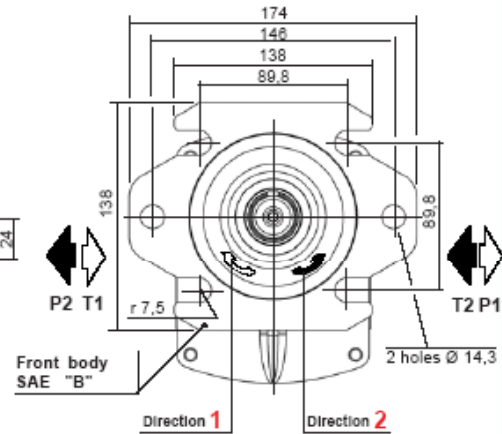
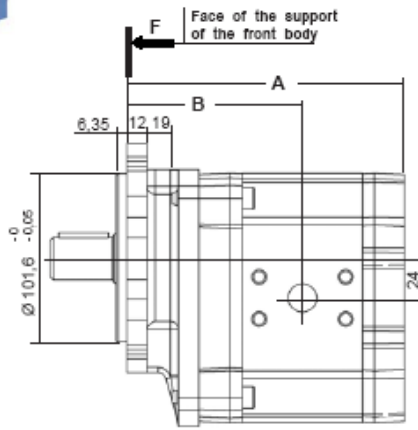
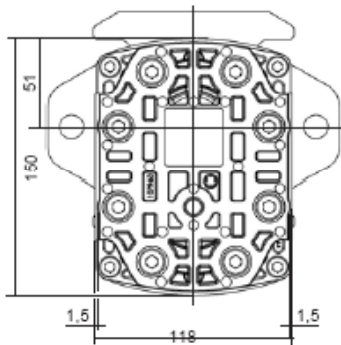
F.T 30 1306

SERIES 3 TYPE AAP/AEP



P II Sign **A . P 3** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	165,7	104,3
050 - 060	192,2	117,5
071 - 080 - 090 - 100	212,2	127,2

Multiples geared pumps, see data sheet **F.T 30 1356**

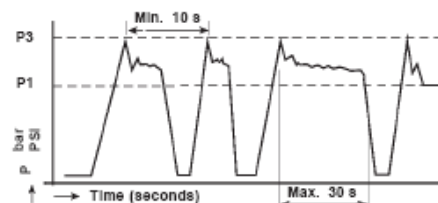
Seal kits:
 Nitrile: **K5083019 - K5074043**
 Viton: **K5083020 - K5074044**
 (For the manufacturings from february 1998)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
							l / min	l / min			
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	11,3
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	11,3
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	11,3
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	11,4
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	12,6
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	12,7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	12,7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	12,8
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	13,5
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	13,7

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peack pressure.

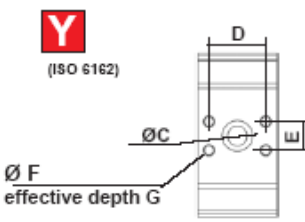
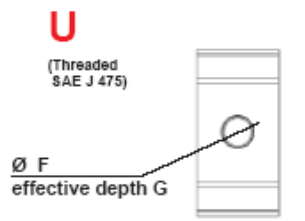
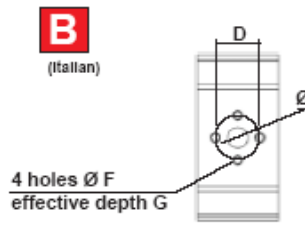
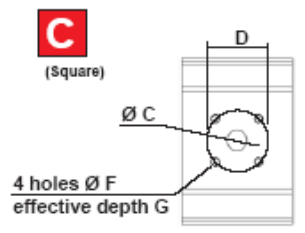
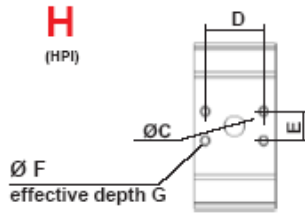


Consult us for availability



SERIES 3 TYPE AAP/AEP

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70					
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)					
											INLET (T)		OUTLET (P)			
3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	3020 1" N: 3.500072 3025 BSP V: 3.505060	3020 1/2" N: 3.500070 3025 BSP V: 3.505058				
3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066		1" BSP N: 3.500072 V: 3.505060			
3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 N: 3.500493 3080 BSP V: 3.505067	3071 1" N: 3.500072 3080 BSP V: 3.505060	3090 1" 1/2 N: 3.500493 3100 BSP V: 3.505067	3090 1" 1/4 N: 3.500103 3100 BSP V: 3.505061		
3020 to 3040	28	55		M8	17	18	55		M8	17						
3050 3060																
3071 to 3100																
3020 to 3040	27	51		M10	17	18	40		M8	17						
3050 3060																
3071 to 3100																
3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19						
3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19						
3071 to 3100																
3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17						
3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17						
3071 to 3100																
3020 to 3040	Only with rear body Type A															
3050 3060																
3071 to 3100																

Consult us for availability

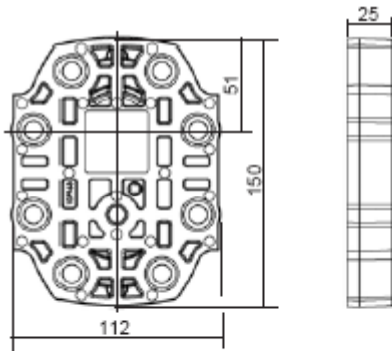


SERIES 3 TYPE AAP/AEP

REAR BODIES

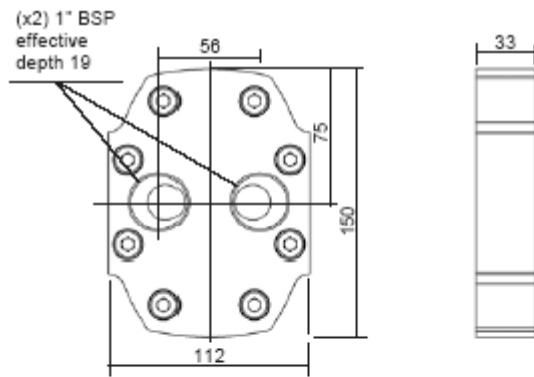
L

Standard



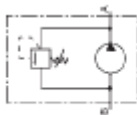
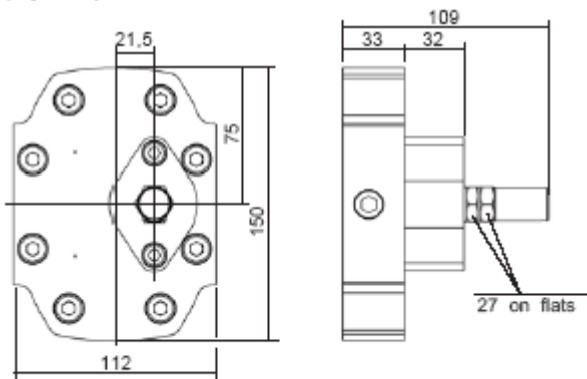
A

with ports



V

Low pressure relief valve
(Adjustable) internal return



SERIES 3 TYPE AAP/AEP

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
	<p>A04 SAE "BB"</p> <p>F1 = 140 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 340 N.m</p>	<p>A04</p> <p>F1 = 120 daN F2 = 50 daN</p> <p>Involute spline to SAE "C" 14 teeth - 1" 1/4- Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 500 N.m</p>	
	<p>A05 SAE "C"</p> <p>F1 = 140 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 430 N.m</p>	<p>A19</p> <p>F1 = 120 daN F2 = 50 daN</p> <p>Involute spline to SAE "B" 13 teeth - 7/8" Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 310 N.m</p>	
	<p>A07 SAE "B"</p> <p>F1 = 140 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 290 N.m</p>	<p>A20</p> <p>F1 = 120 daN F2 = 50 daN</p> <p>Involute spline to SAE "BB" 15 teeth - 1" Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 490 N.m</p>	

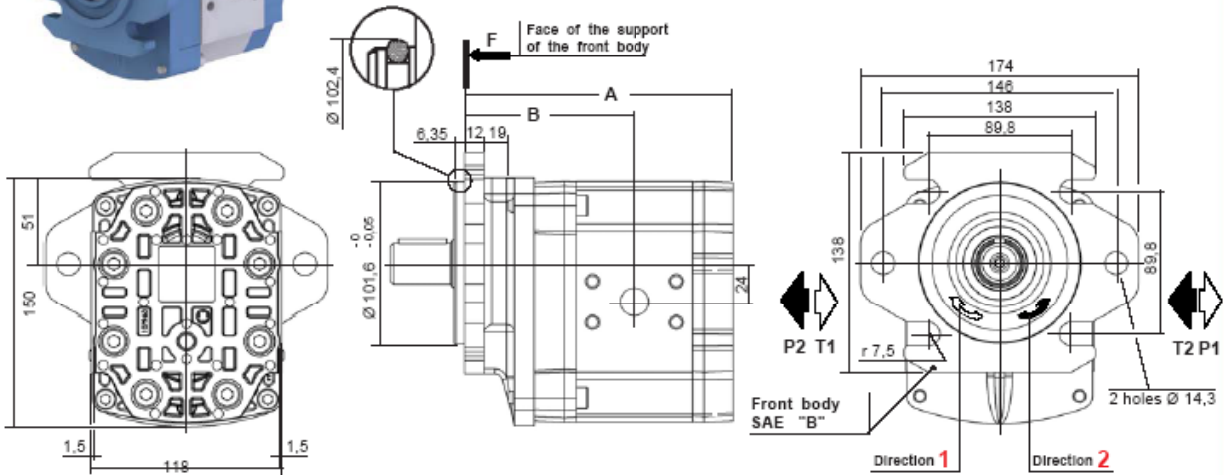
Consult us for availability

SERIES 3 TYPE AAR/AER



P II Sign **A . R 3** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	165,7	104,3
050 - 060	192,2	117,5
071 - 080 - 090 - 100	212,2	127,2

Multiple geared pumps, see data sheet **F.T 30 1356**

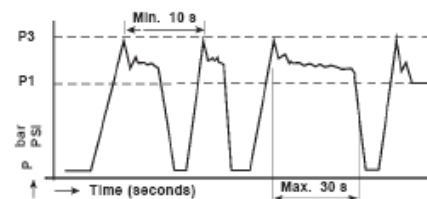
Seal kits:
 Nitrile: **K5083019 + K5074043 + K107081**
 Viton: **K5083020 + K5074044 + K107045**
 (For the manufacturings from february 1998)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and Nm	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
		l / min	l / min								
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	11,3
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	11,3
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	11,3
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	11,4
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	12,6
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	12,7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	12,7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	12,8
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	13,5
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	13,7

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability



SERIES 3 TYPE AAR/AER

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
H (HPI) effective depth G	3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	3020 1" BSP N: 3.500072 V: 3.505060	3020 1/2" BSP N: 3.500070 V: 3.505058	3025 1" BSP N: 3.500103 V: 3.505061	3025 3/4" BSP N: 3.500071 V: 3.505060
	3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066		1" BSP N: 3.500072 V: 3.505060	
	3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 BSP N: 3.500493 V: 3.505067	3071 1" BSP N: 3.500072 V: 3.505060	3080 1" 1/4 BSP N: 3.500493 V: 3.505067	3100 1" 1/4 BSP N: 3.500103 V: 3.505061
C (Square) 4 holes Ø F effective depth G	3020 to 3040														
	3050 3060	28	55		M8	17	18	55		M8	17				
	3071 to 3100														
B (Italian) 4 holes Ø F effective depth G	3020 to 3040	27	51		M10	17	18	40		M8	17				
	3050 3060														
	3071 to 3100														
U (Threaded SAE J 475) Ø F effective depth G	3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
	3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
	3071 to 3100														
Y (ISO 6162) ØF effective depth G	3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
	3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
	3071 to 3100														
X (without port) 	3020 to 3040	Only with rear body Type A													
	3050 3060														
	3071 to 3100														

Consult us for availability

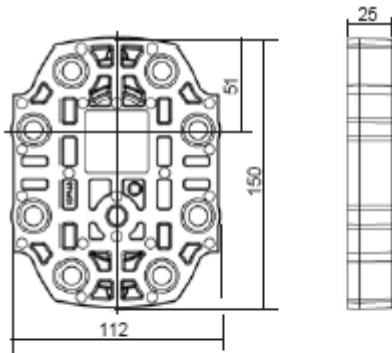


SERIES 3 TYPE AAR/AER

REAR BODIES

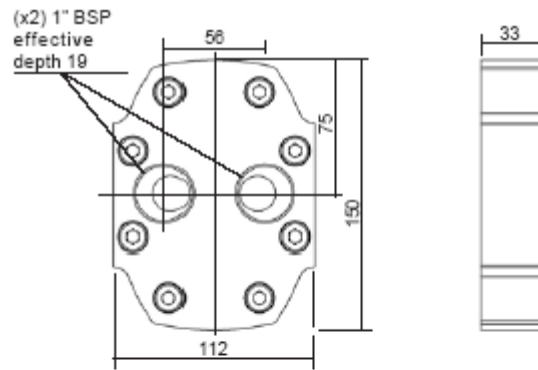
L

Standard



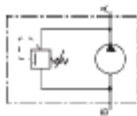
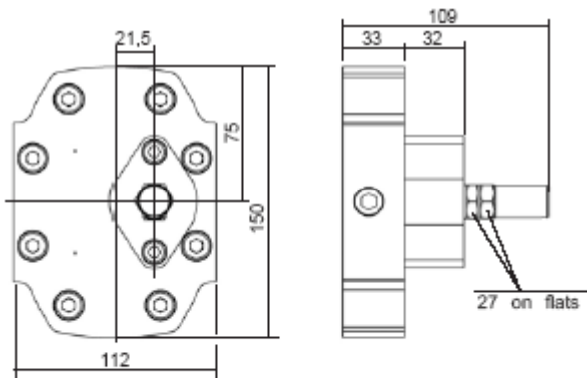
A

with ports



V

Low pressure relief valve
(Adjustable) internal return



SERIES 3 TYPE AAR/AER

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

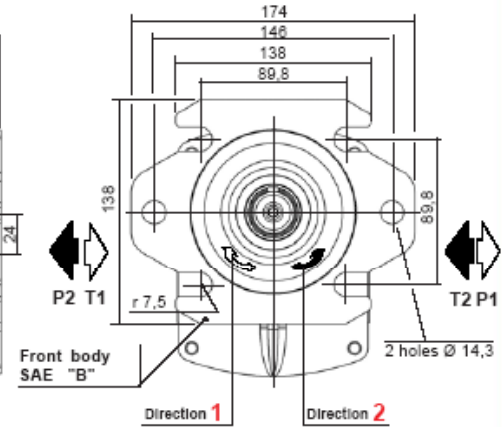
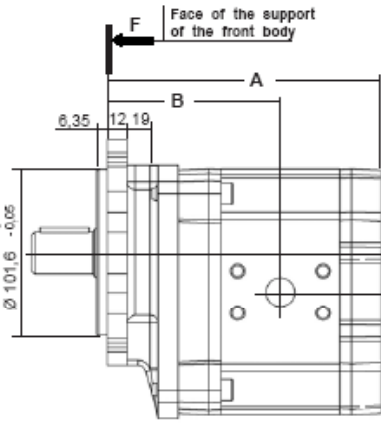
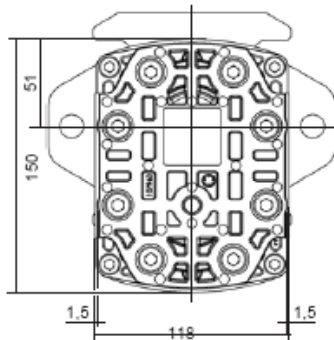
Consult us for availability

SERIES 3 TYPE AAX



P II Sign **AA X 3** VI Sign **HL** IX Sign X Sign I XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	165,7	104,3
050 - 060	192,2	117,5
071 - 080 - 090 - 100	212,2	127,2

Multiple geared pumps, see data sheet **F.T 30 1356**

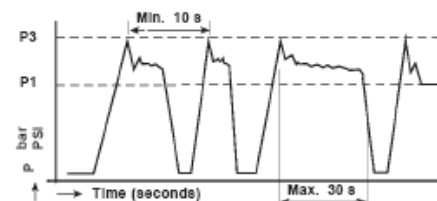
Seal kits:
 Nitrile: **K5083019 + K5074043**
 Viton: **K5083020 + K5074044**
 (For the manufacturings from february 1998)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
							l / min	l / min			
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	11,3
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	11,3
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	11,3
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	11,4
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	12,6
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	12,7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	12,7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	12,8
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	13,5
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	13,7

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



SERIES 3 TYPE AAX

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
H (HPI) Ø F effective depth G	3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	3020 1" N: 3.500072 3025 BSP V: 3.505060	3020 1/2" N: 3.500070 3025 BSP V: 3.505058		
	3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066		1" BSP N: 3.500072 V: 3.505060	
	3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 N: 3.500493 3080 BSP V: 3.505067	3071 1" N: 3.500072 3080 BSP V: 3.505060	3090 1" 1/2 N: 3.500493 3100 BSP V: 3.505067	3090 1" 1/4 N: 3.500103 3100 BSP V: 3.505061
C (Square) 4 holes Ø F effective depth G	3020 to 3040														
	3050 3060	28	55		M8	17	18	55		M8	17				
	3071 to 3100														
B (Italian) 4 holes Ø F effective depth G	3020 to 3040	27	51		M10	17	18	40		M8	17				
	3050 3060														
	3071 to 3100														
U (Threaded SAE J 475) Ø F effective depth G	3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
	3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
	3071 to 3100														
Y (ISO 6162) Ø F effective depth G	3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
	3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
	3071 to 3100														
X (without port) 	3020 to 3040	Only with rear body Type A													
	3050 3060														
	3071 to 3100														

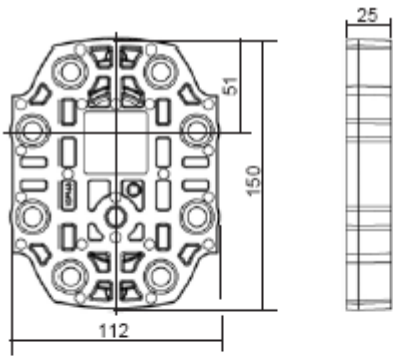
Consult us for availability



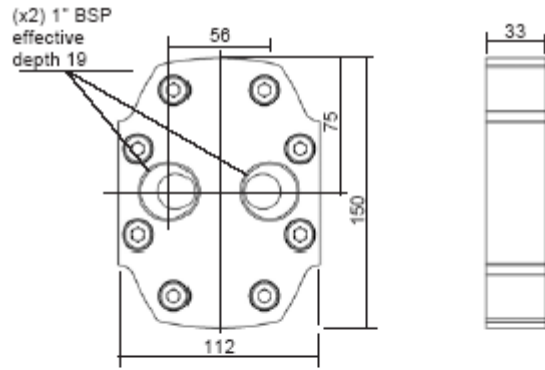
SERIES 3 TYPE AAX

REAR BODIES

L
Standard

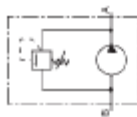
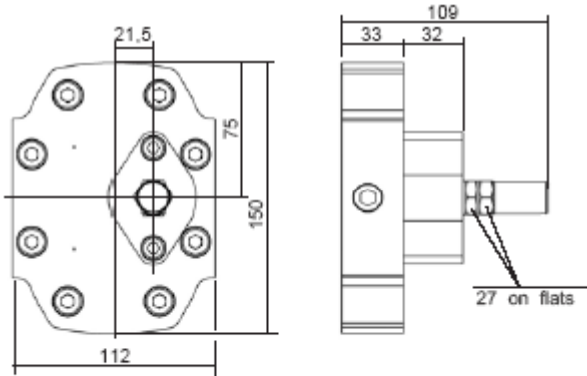


A
with ports



V

Low pressure relief valve
(Adjustable) Internal return



SERIES 3 TYPE AAX

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
	<p>A04 SAE "BB"</p> <p>F1 = 0 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 340 N.m</p>	<p>A04</p> <p>F1 = 0 daN F2 = 50 daN</p> <p>Involute spline to SAE "C" 14 teeth - 1" - 1/4 - Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 500 N.m</p>	
	<p>A05 SAE "C"</p> <p>F1 = 0 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 430 N.m</p>	<p>A19</p> <p>F1 = 0 daN F2 = 50 daN</p> <p>Involute spline to SAE "B" 13 teeth - 7/8" - Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 310 N.m</p>	
	<p>A07 SAE "B"</p> <p>F1 = 0 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 290 N.m</p>	<p>A20</p> <p>F1 = 0 daN F2 = 50 daN</p> <p>Involute spline to SAE "BB" 15 teeth - 1" - Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 490 N.m</p>	

Consult us for availability

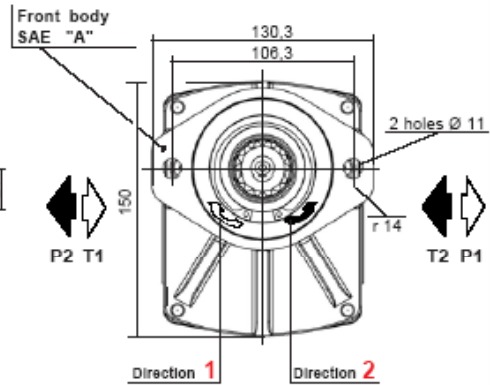
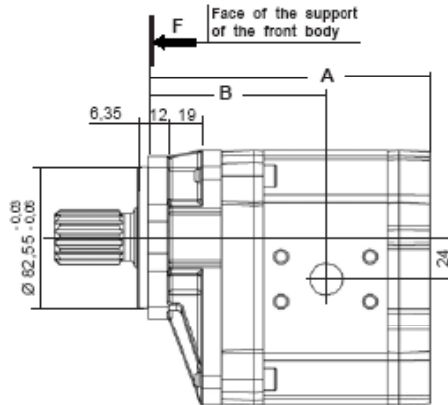
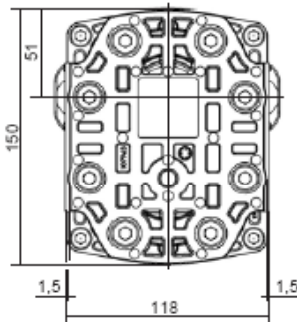
JTEKT
HPI

SERIES 3 TYPE ABP



P II Sign **ABP 3** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	165,7	104,3
050 - 060	192,2	117,5
071 - 080 - 090 - 100	212,2	127,2

Multiples geared pumps, see data sheet **F.T 30 1356**

Seal kits:

Nitrile: **K5083019 + K5074043**

Viton: **K5083020 + K5074044**

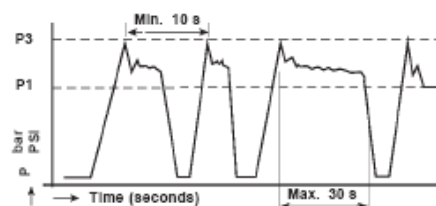
(For the manufacturings from february 1998)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
				l / min	l / min						
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	11,3
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	11,3
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	11,3
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	11,4
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	12,6
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	12,7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	12,7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	12,8
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	13,5
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	13,7

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability



SERIES 3 TYPE ABP

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
H (HPI) Ø F effective depth G	3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	3020 1" N: 3.500072 3025 BSP V: 3.505060	3020 1/2" N: 3.500070 3025 BSP V: 3.505058	3020 1" N: 3.500072 3025 BSP V: 3.505060	3020 3/4" N: 3.500071 3025 BSP V: 3.505060
	3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066		1" BSP N: 3.500072 V: 3.505060	
	3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 N: 3.500493 3080 BSP V: 3.505067	3071 1" N: 3.500072 3080 BSP V: 3.505060	3090 1" 1/2 N: 3.500493 3100 BSP V: 3.505067	3090 1" 1/4 N: 3.500103 3100 BSP V: 3.505061
C (Square) 4 holes Ø F effective depth G	3020 to 3040														
	3050 3060	28	55		M8	17	18	55		M8	17				
	3071 to 3100														
B (Italian) 4 holes Ø F effective depth G	3020 to 3040	27	51		M10	17	18	40		M8	17				
	3050 3060														
	3071 to 3100														
U (Threaded SAE J 475) Ø F effective depth G	3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
	3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
	3071 to 3100														
Y (ISO 6162) Ø F effective depth G	3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
	3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
	3071 to 3100														
X (without port) 	3020 to 3040	Only with rear body Type A													
	3050 3060														
	3071 to 3100														

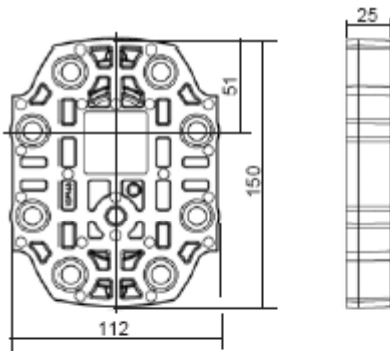
Consult us for availability



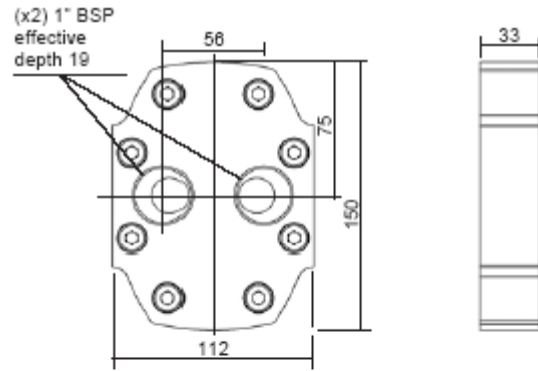
SERIES 3 TYPE ABP

REAR BODIES

L
Standard

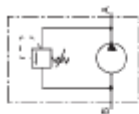
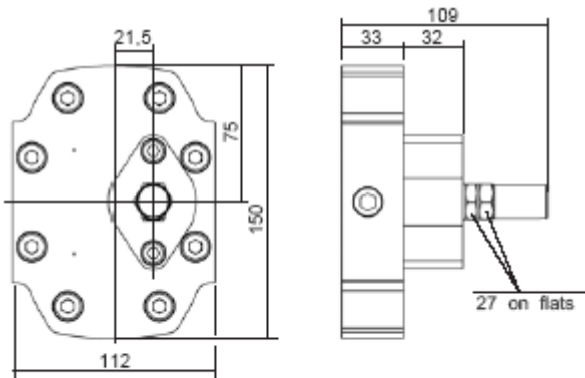


A
with ports



V

Low pressure relief valve
(Adjustable) Internal return



SERIES 3 TYPE ABP

DRIVING SHAFTS

Tapered	Straight keyed	Splined	Tang
10	20	30	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

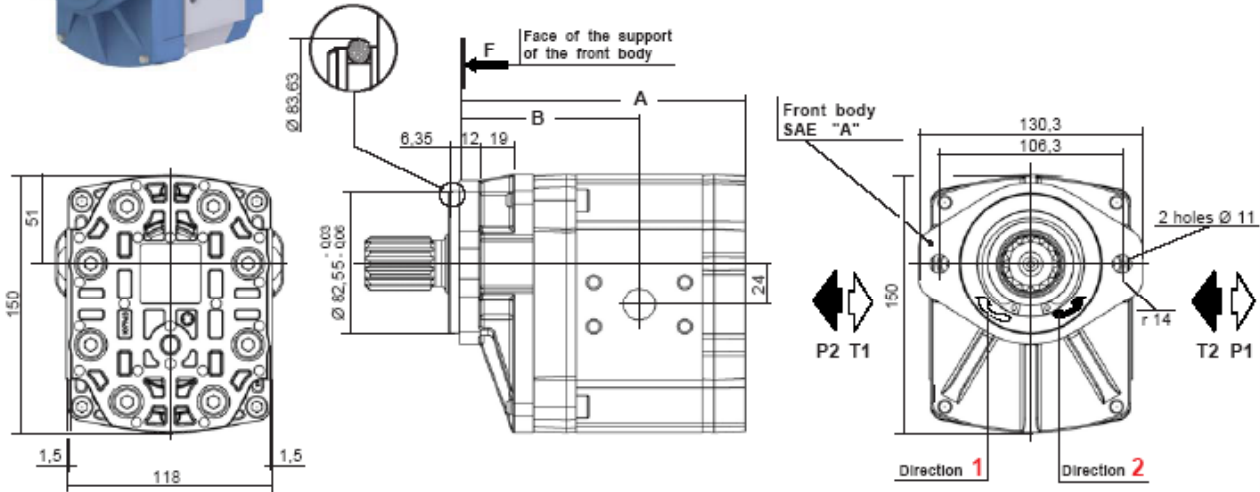
Maxi transmissible torque
490 N.m

SERIES 3 TYPE ABR



P II Sign **ABR** **3** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	165,7	104,3
050 - 060	192,2	117,5
071 - 080 - 090 - 100	212,2	127,2

Multiple geared pumps, see data sheet **F.T 30 1356**

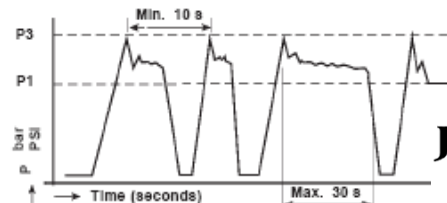
Seal kits:
 Nitrile: K5083019 + K5074043 + K102901
 Viton: K5083020 + K5074044 + K104093
 (For the manufacturing from february 1998)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
				l / min	l / min						
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	11,3
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	11,3
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	11,3
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	11,4
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	12,6
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	12,7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	12,7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	12,8
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	13,5
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	13,7

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

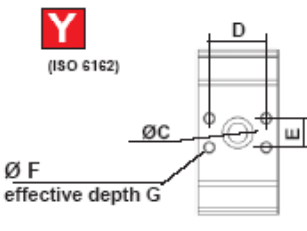
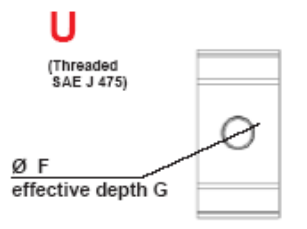
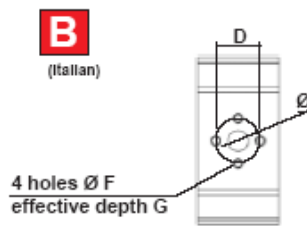
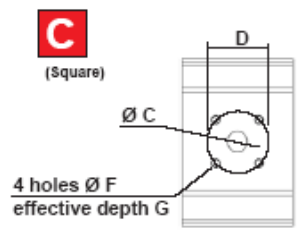
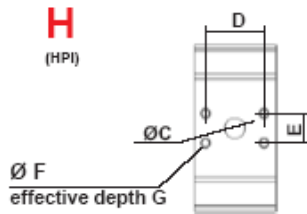
P3 Allowable peak pressure.



Consult us for availability

SERIES 3 TYPE ABR

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



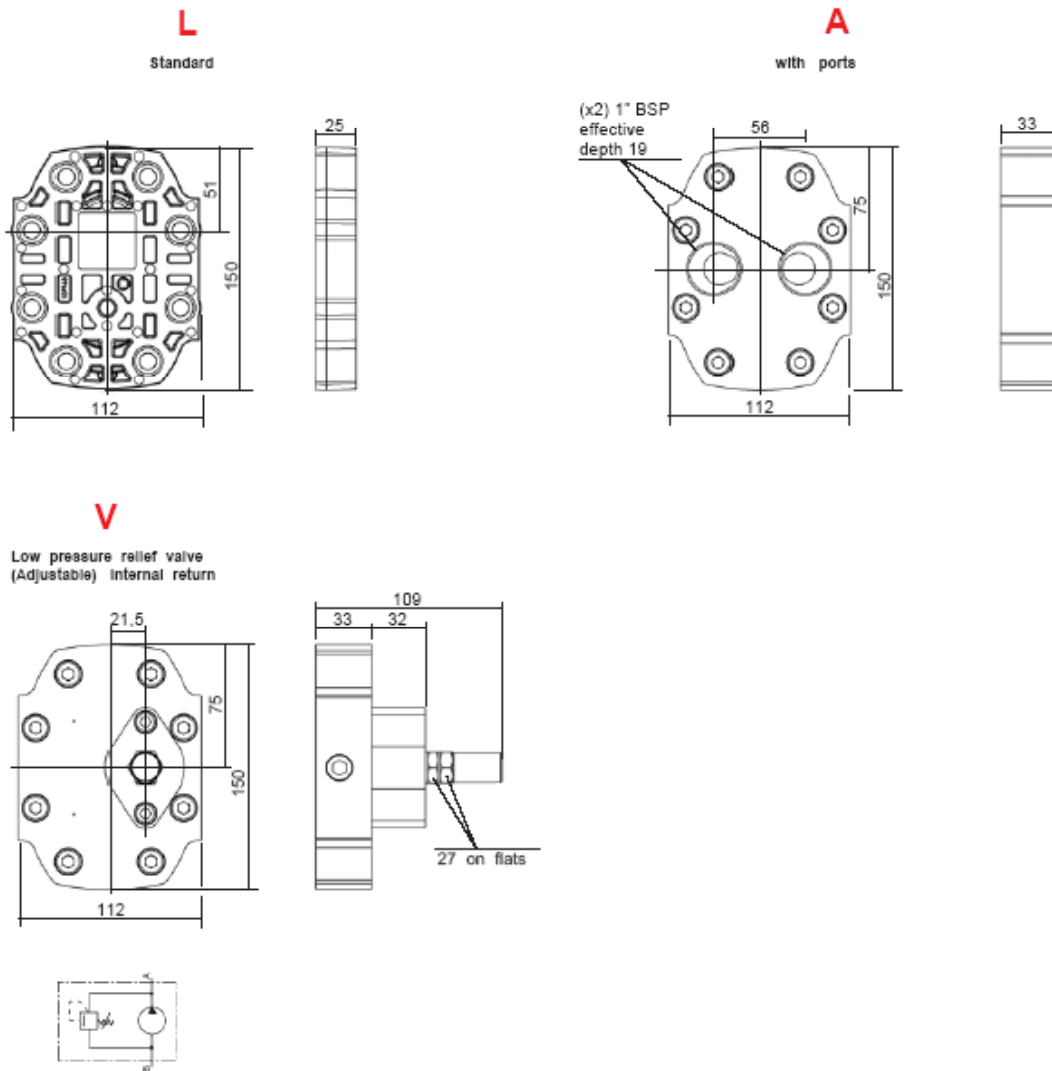
Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	3020 1" N: 3.500072 3025 BSP V: 3.505060	3020 1/2" N: 3.500070 3025 BSP V: 3.505058		
3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066		1" BSP N: 3.500072 V: 3.505060	
3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 N: 3.500493 3080 BSP V: 3.505067	3071 1" N: 3.500072 3080 BSP V: 3.505060	3090 1" 1/2 N: 3.500493 3100 BSP V: 3.505067	3090 1" 1/4 N: 3.500103 3100 BSP V: 3.505061
3020 to 3040	28	55		M8	17	18	55		M8	17				
3050 3060														
3071 to 3100														
3020 to 3040	27	51		M10	17	18	40		M8	17				
3050 3060														
3071 to 3100														
3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
3050 3060				1" 5/8 -12 UNF	19				1" 1" 5/16 -12 UNF	19				
3071 to 3100														
3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
3071 to 3100														
3020 to 3040											Only with rear body Type A			
3050 3060														
3071 to 3100														


Consult us for availability



SERIES 3 TYPE ABR

REAR BODIES



 Consult us for availability

SERIES 3 TYPE ABR

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
	<p>A04 SAE "BB"</p> <p>F1 = 140 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 340 N.m</p>	<p>A04</p> <p>F1 = 120 daN F2 = 50 daN</p> <p>Involute spline to SAE "C" 14 teeth - 1" 1/4- Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 500 N.m</p>	
	<p>A05 SAE "C"</p> <p>F1 = 140 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 430 N.m</p>	<p>A19</p> <p>F1 = 120 daN F2 = 50 daN</p> <p>Involute spline to SAE "B" 13 teeth - 7/8" Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 310 N.m</p>	
	<p>A07 SAE "B"</p> <p>F1 = 140 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 290 N.m</p>	<p>A20</p> <p>F1 = 120 daN F2 = 50 daN</p> <p>Involute spline to SAE "BB" 15 teeth - 1" Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 490 N.m</p>	

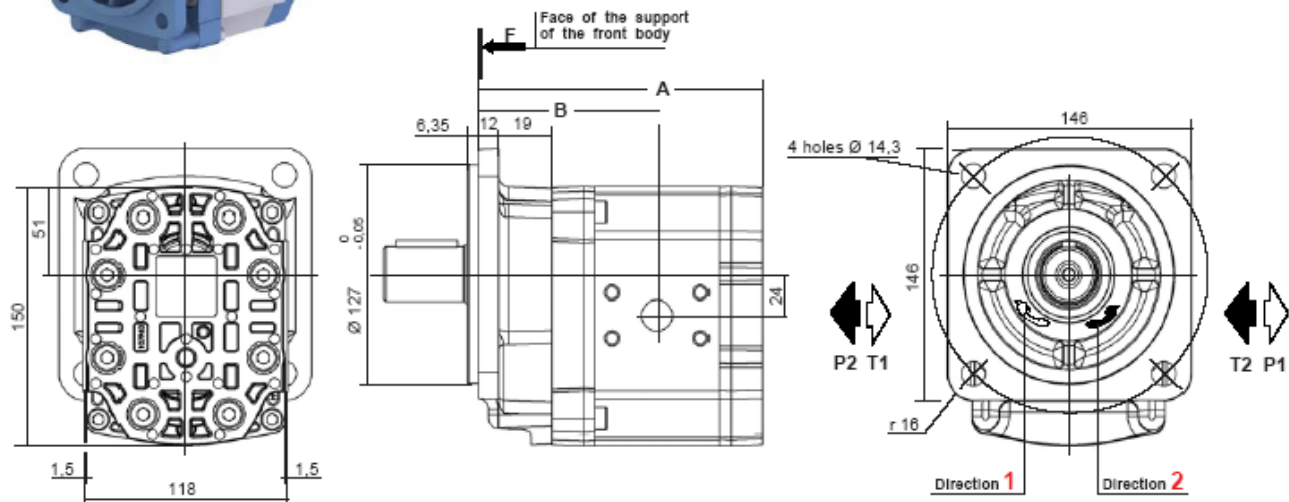
JTEKT
 Consult us for availability

SERIES 3 TYPE ADP



P II Sign **AD P 3** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	165,7	104,3
050 - 060	192,2	117,5
071 - 080 - 090 - 100	212,2	127,2

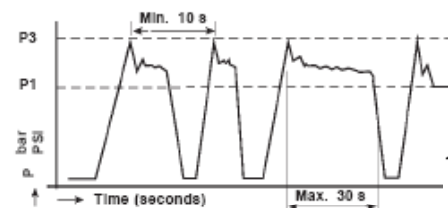
Multiple geared pumps, see data sheet **F.T 30 1356**

Seal kits:
 Nitrile: **K5083019 - K5074043**
 Viton: **K5083020 - K5074044**
 (For the manufacturings from february 1998)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
				l / min	l / min						
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	11,3
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	11,3
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	11,3
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	11,4
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	12,6
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	12,7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	12,7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	12,8
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	13,5
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	13,7

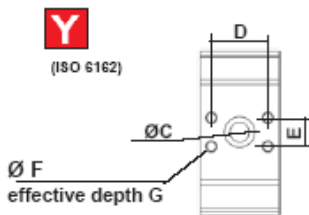
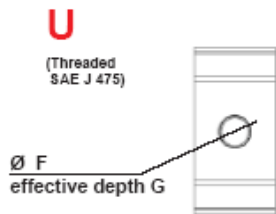
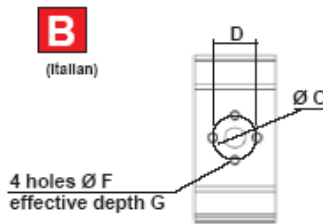
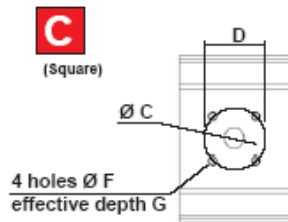
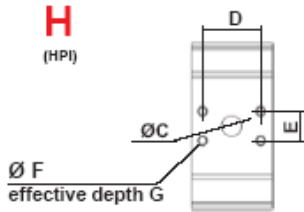
P1 Maximum pressure in continuous duty.
 $P1 = 0,75 \times P3$
P3 Allowable peak pressure.

Maximum Pressure \Rightarrow



SERIES 3 TYPE ADP

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	3020 1" N: 3.500072 3025 BSP V: 3.505060	3020 1/2" N: 3.500070 3025 BSP V: 3.505058		
3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066	1" BSP N: 3.500072 V: 3.505060		
3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 N: 3.500493 3080 BSP V: 3.505067	3071 1" N: 3.500072 3080 BSP V: 3.505060	3090 1" 1/4 N: 3.500103 3100 BSP V: 3.505061	3090 3/4" N: 3.500071 3100 BSP V: 3.505060
3020 to 3040	28	55		M8	17	18	55		M8	17				
3050 3060														
3071 to 3100														
3020 to 3040	27	51		M10	17	18	40		M8	17				
3050 3060														
3071 to 3100														
3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
3071 to 3100														
3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
3071 to 3100														
3020 to 3040	Only with rear body Type A													
3050 3060														
3071 to 3100														

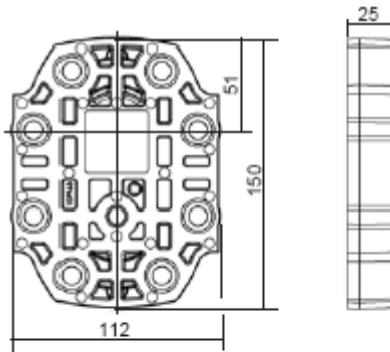
Consult us for availability



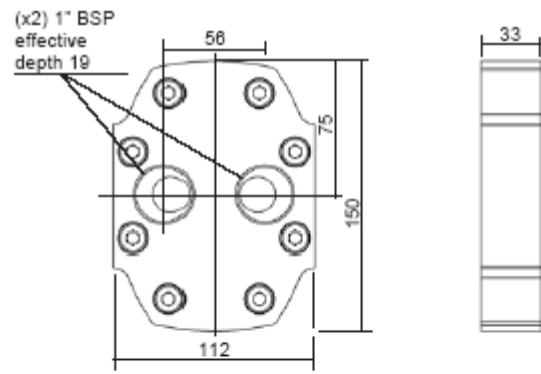
SERIES 3 TYPE ADP

REAR BODIES

L
standard

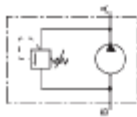
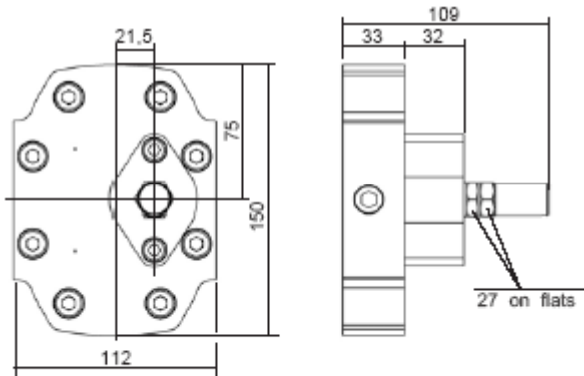


A
with ports



V

Low pressure relief valve
(Adjustable) Internal return



SERIES 3 TYPE ADP

DRIVING SHAFTS

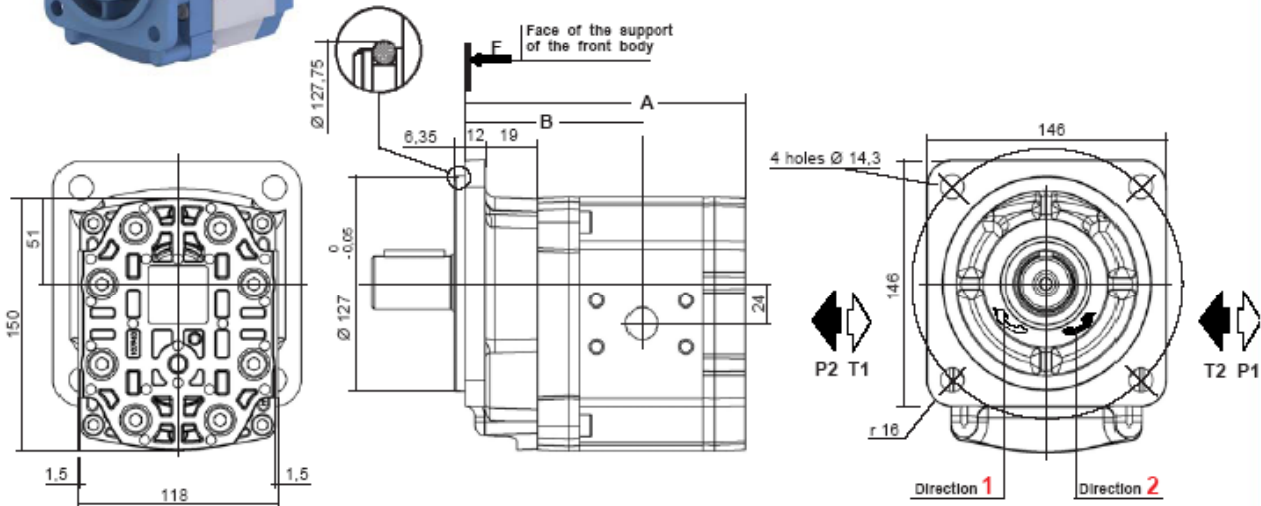
10	Straight keyed 20	Splined 30	Tang 40
	<p>A04 SAE "BB"</p> <p>F1 = 140 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 340 <u>N.m</u></p>	<p>A04</p> <p>F1 = 120 daN F2 = 50 daN</p> <p>Involute spline to SAE "C" 14 teeth - 1" 1/4" Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 500 <u>N.m</u></p>	
	<p>A05 SAE "C"</p> <p>F1 = 140 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 430 <u>N.m</u></p>	<p>A19</p> <p>F1 = 120 daN F2 = 50 daN</p> <p>Involute spline to SAE "B" 13 teeth - 7/8" Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 310 <u>N.m</u></p>	
	<p>A07 SAE "B"</p> <p>F1 = 140 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 290 <u>N.m</u></p>	<p>A20</p> <p>F1 = 120 daN F2 = 50 daN</p> <p>Involute spline to SAE "BB" 15 teeth - 1" Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 490 <u>N.m</u></p>	

SERIES 3 TYPE ADR



P II Sign **AD R 3** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	165,7	104,3
050 - 060	192,2	117,5
071 - 080 - 090 - 100	212,2	127,2

Multiple geared pumps, see data sheet **F.T 30 1356**

Seal kits:

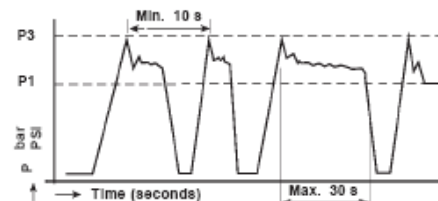
Nitrile: **K5083019 + K5074043 + K107089**
 Viton: **K5083020 + K5074043 + K107090**
 (For the manufacturings from february 1998)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
							l / min	l / min			
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	11,3
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	11,3
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	11,3
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	11,4
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	12,6
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	12,7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	12,7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	12,8
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	13,5
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	13,7

P1 Maximum pressure in continuous duty.

Maximum Pressure →

P3 Allowable peak pressure.

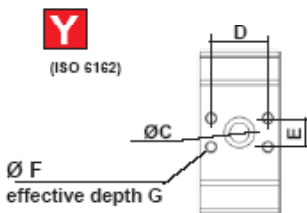
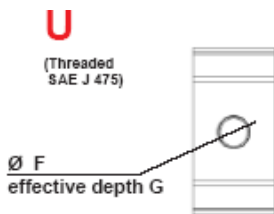
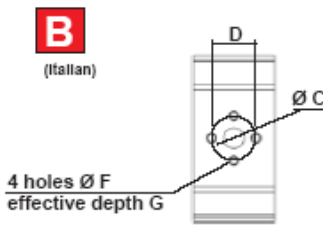
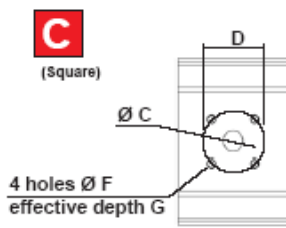
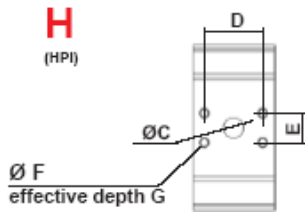


Consult us for availability



SERIES 3 TYPE ADR

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
	3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	3020 1" N: 3.500072 3025 BSP V: 3.505060	3020 1/2" N: 3.500070 3025 BSP V: 3.505058	3020 3/4" N: 3.500071 3025 BSP V: 3.505060
3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066		1" BSP N: 3.500072 V: 3.505060	
3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 N: 3.500493 3080 BSP V: 3.505067	3071 1" N: 3.500072 3080 BSP V: 3.505060	3090 1" 1/4 N: 3.500103 3100 BSP V: 3.505067	3100 1" N: 3.500072 3100 BSP V: 3.505061
3020 to 3040														
3050 3060	28	55		M8	17	18	55		M8	17				
3071 to 3100														
3020 to 3040	27	51		M10	17	18	40		M8	17				
3050 3060														
3071 to 3100														
3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
3071 to 3100														
3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
3071 to 3100														
3020 to 3040											Only with rear body Type A			
3050 3060														
3071 to 3100														

Consult us for availability

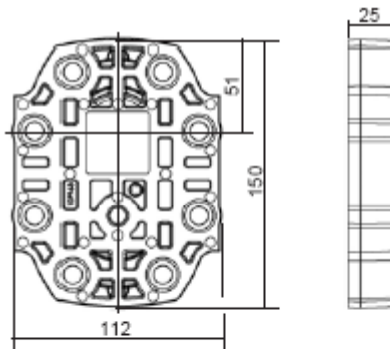


SERIES 3 TYPE ADR

REAR BODIES

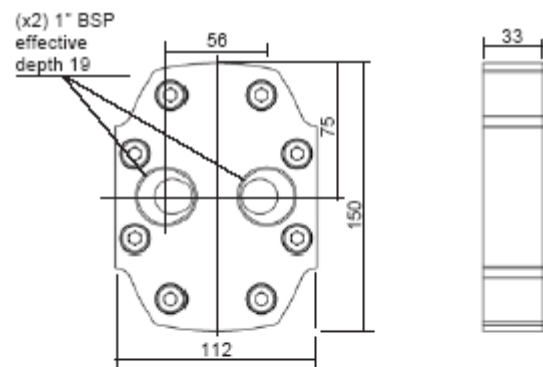
L

Standard



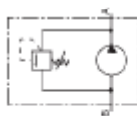
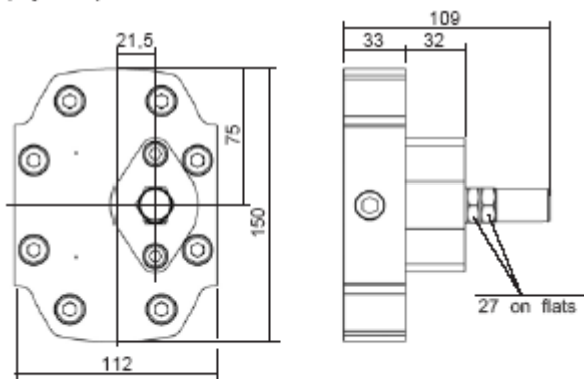
A

with ports



V

Low pressure relief valve
(Adjustable) internal return



SERIES 3 TYPE ADR

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40	
	<p>A04 SAE "BB"</p> <p>F1 = 140 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 340 N.m</p>	<p>A04</p> <p>F1 = 120 daN F2 = 50 daN</p> <p>Involute spline to SAE "C" 14 teeth - 1" 1/4- Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 500 N.m</p>		
	<p>A05 SAE "C"</p> <p>F1 = 140 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 430 N.m</p>	<p>A19</p> <p>F1 = 120 daN F2 = 50 daN</p> <p>Involute spline to SAE "B" 13 teeth - 7/8" Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 310 N.m</p>		
	<p>A07 SAE "B"</p> <p>F1 = 140 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 290 N.m</p>	<p>A20</p> <p>F1 = 120 daN F2 = 50 daN</p> <p>Involute spline to SAE "BB" 15 teeth - 1" Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 490 N.m</p>		

Consult us for availability

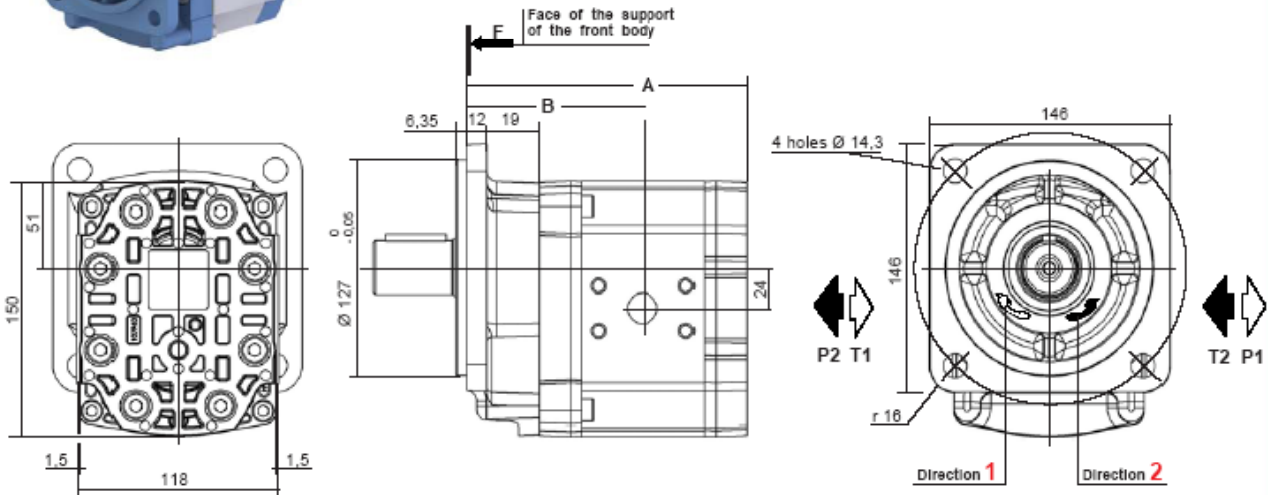
JTEKT
HPI

SERIES 3 TYPE ADX



P II Sign **AD X 3** VI Sign **H L** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	165,7	104,3
050 - 060	192,2	117,5
071 - 080 - 090 - 100	212,2	127,2

Multiples geared pumps, see data sheet **F.T 30 1356**

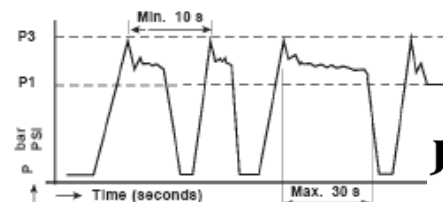
Seal kits:
 Nitrile: **K5083019 + K5074043**
 Viton: **K5083020 + K5074044**
 (For the manufacturings from february 1998)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
							l / min	l / min			
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	11,3
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	11,3
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	11,3
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	11,4
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	12,6
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	12,7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	12,7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	12,8
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	13,5
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	13,7

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure ⇒



Consult us for availability



SERIES 3 TYPE ADX

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
												3020 to 3040	3050 3060	3071 to 3100	3020 to 3040
H (HPI) 	3020 to 3040 3050 3060 3071 to 3100	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	3020 1" N: 3.500072 3025 BSP V: 3.505060 3020 1" 1/4 N: 3.500103 3025 BSP V: 3.505061	3020 1/2" N: 3.500070 3025 BSP V: 3.505058 3020 3/4" N: 3.500071 3025 BSP V: 3.505060		
C (Square) 	3020 to 3040 3050 3060 3071 to 3100	28	55		M8	17	18	55		M8	17	1" 1/4 BSP N: 3.500492 V: 3.505066	1" BSP N: 3.500072 V: 3.505060		
B (Italian) 	3020 to 3040 3050 3060 3071 to 3100	27	51		M10	17	18	40		M8	17				
U (Threaded SAE J 475) 	3020 to 3040 3050 3060 3071 to 3100				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
Y (ISO 6162) 	3020 to 3040 3050 3060 3071 to 3100	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
X (without port) 	3020 to 3040 3050 3060 3071 to 3100	Only with rear body Type A													

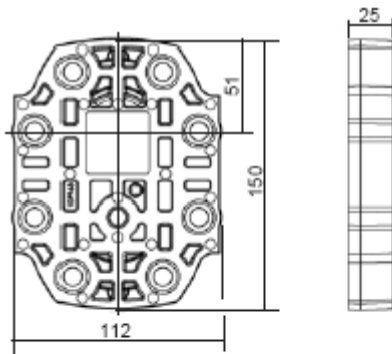
Consult us for availability



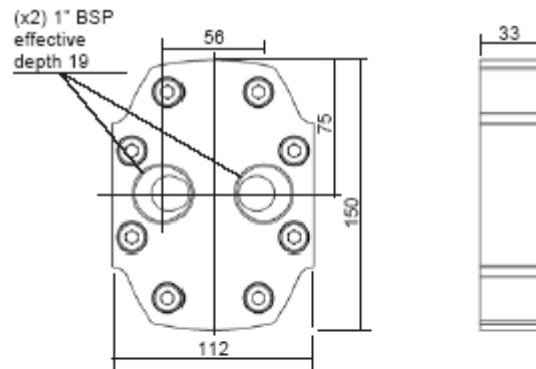
SERIES 3 TYPE ADX

REAR BODIES

L
Standard

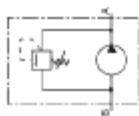
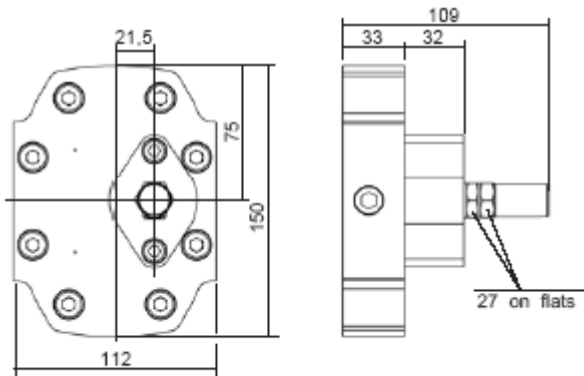


A
with ports



V

Low pressure relief valve
(Adjustable) Internal return



SERIES 3 TYPE ADX

DRIVING SHAFTS

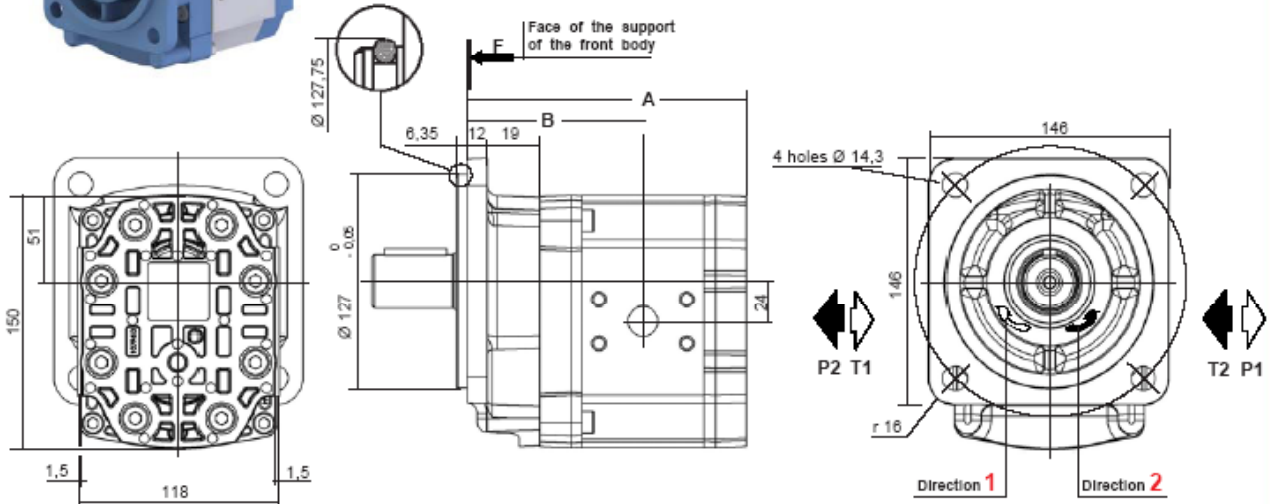
Tapered 10	Straight keyed 20	Splined 30	Tang 40
	<p>A04 SAE "BB"</p> <p>F1 = 0 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 340 N.m</p>	<p>A04</p> <p>F1 = 0 daN F2 = 50 daN</p> <p>Involute spline to SAE "C" 14 teeth - 1" - 1/4" Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 500 N.m</p>	
	<p>A05 SAE "C"</p> <p>F1 = 0 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 430 N.m</p>	<p>A19</p> <p>F1 = 0 daN F2 = 50 daN</p> <p>Involute spline to SAE "B" 13 teeth - 7/8" Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 310 N.m</p>	
	<p>A07 SAE "B"</p> <p>F1 = 0 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 290 N.m</p>	<p>A20</p> <p>F1 = 0 daN F2 = 50 daN</p> <p>Involute spline to SAE "BB" 15 teeth - 1" Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 490 N.m</p>	

SERIES 3 TYPE ADZ



P II Sign **ADZ** **3** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	165,7	104,3
050 - 060	192,2	117,5
071 - 080 - 090 - 100	212,2	127,2

Multiples geared pumps, see data sheet **F.T 30 1356**

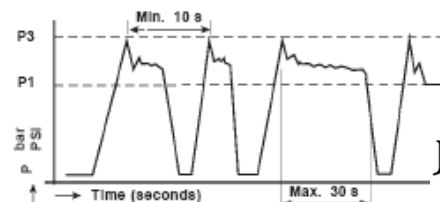
Seal kits:
 Nitrile: **K5083019 + K5074043 + K107089**
 Viton: **K5083020 + K5074044 + K107090**
 (For the manufacturings from february 1998)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
				l / min	l / min						
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	11,3
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	11,3
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	11,3
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	11,4
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	12,6
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	12,7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	12,7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	12,8
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	13,5
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	13,7

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



Consult us for availability



SERIES 3 TYPE ADZ

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

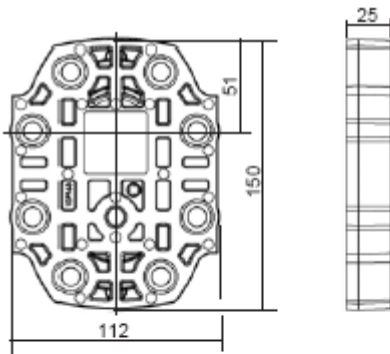
	Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
												3020 to 3040	3050 3060	3071 to 3100	3020 1" N: 3.500072 3025 BSP V: 3.505060
H (HPI) 	3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066	1" BSP N: 3.500072 V: 3.505060		
C (Square) 	3020 to 3040														
	3050 3060	28	55		M8	17	18	55		M8	17				
	3071 to 3100														
B (Italian) 	3020 to 3040	27	51		M10	17	18	40		M8	17				
	3050 3060														
	3071 to 3100														
U (Threaded SAE J 475) 	3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
	3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
	3071 to 3100														
Y (ISO 6162) 	3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
	3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
	3071 to 3100														
X (without port) 	3020 to 3040	Only with rear body Type A													
	3050 3060														
	3071 to 3100														

Consult us for availability

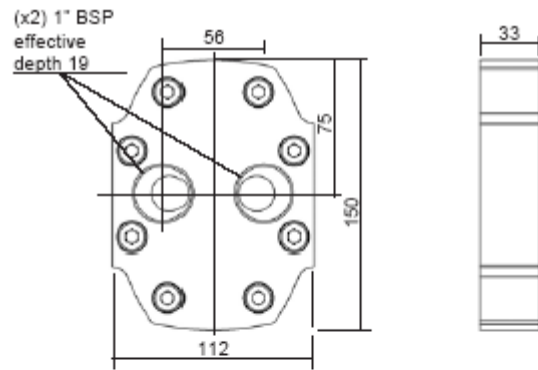
SERIES 3 TYPE ADZ

REAR BODIES

L
Standard

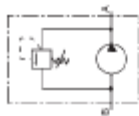
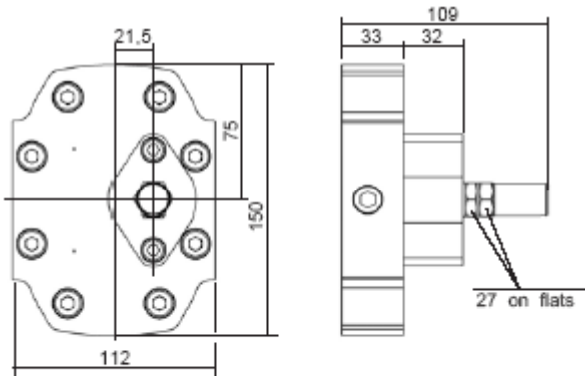


A
with ports



V

Low pressure relief valve
(Adjustable) Internal return



SERIES 3 TYPE ADZ

DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
----------------------	-----------------------------	----------------------	-------------------

A04 SAE "BB"

F1 = 0 daN
F2 = 50 daN

Maxi transmissible torque
340 N.m

A04

F1 = 0 daN
F2 = 50 daN

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 = 0 daN
F2 = 50 daN

Maxi transmissible torque
430 N.m

A19

F1 = 0 daN
F2 = 50 daN

Involute spline to SAE "B"
13 teeth - 7/8"
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
310 N.m

A07 SAE "B"

F1 = 0 daN
F2 = 50 daN

Maxi transmissible torque
290 N.m

A20

F1 = 0 daN
F2 = 50 daN

Involute spline to SAE "BB"
15 teeth - 1"
Diametral Pitch 16/32
30° Pressure angle

Maxi transmissible torque
490 N.m

Consult us for availability

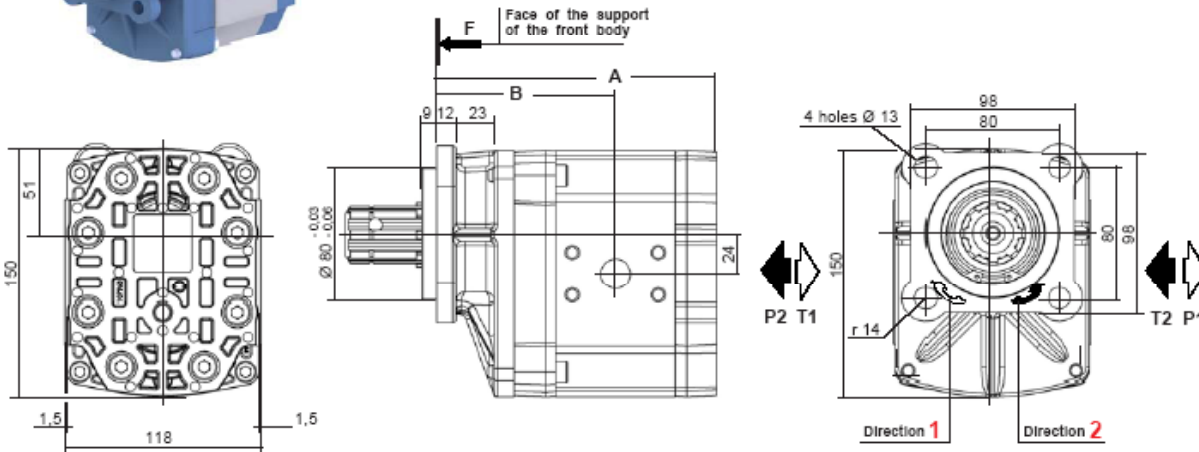
JTEKT
HPI

SERIES 3 TYPE ZFC



P II Sign **ZF C 3** VI Sign **H L 3 0 D04** XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
020 - 025 - 031 - 040	169,7	
050 - 060	196,2	121,5
071 - 080 - 090 - 100	216,2	131,2

Multiples geared pumps, see data sheet **F.T 30 1356**

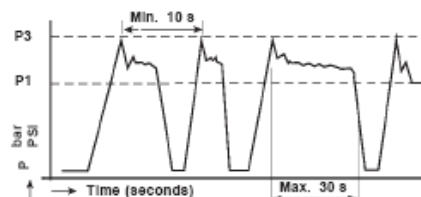
Seal kits:
 Nitrile: **K5074077 + K5074043**
 Viton: **K5074078 + K5074044**
 (For the manufacturings from october 1991)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM	at Maxi speed			
				l / min	l / min						
3020	21,1	275	3987	235	235	3000	31,65	63,3	4	3,74	5,6
3025	25,8	275	3987	235	235	3000	38,7	77,4	4,90	4,63	5,6
3031	32,1	275	3987	235	235	3000	48,15	96,3	6,10	5,73	5,6
3040	41,5	275	3987	235	235	3000	62,25	124,5	7,85	7,37	5,7
3050	51,65	250	3625	215	215	3000	77,47	154,9	9,77	9,21	6,9
3060	62,6	225	3262	190	190	2500	93,9	156,5	11,85	11,05	7
3071	73,55	225	3262	190	190	2500	110,32	183,8	13,92	13,08	7
3080	82,95	200	2900	170	170	2200	124,42	182,4	15,59	14,60	7,1
3090	92,95	150	2175	130	130	2000	139,42	185,9	17,47	16,47	7,8
3100	103,9	150	2175	130	130	2000	155,85	207,8	19,40	18,17	8

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peak pressure.



SERIES 3 TYPE ZFC

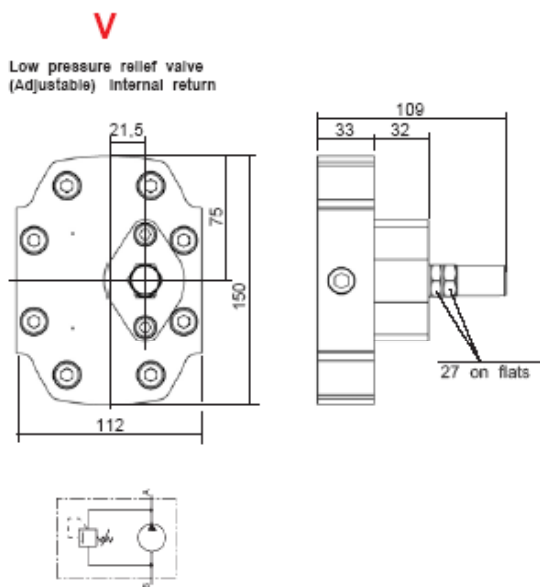
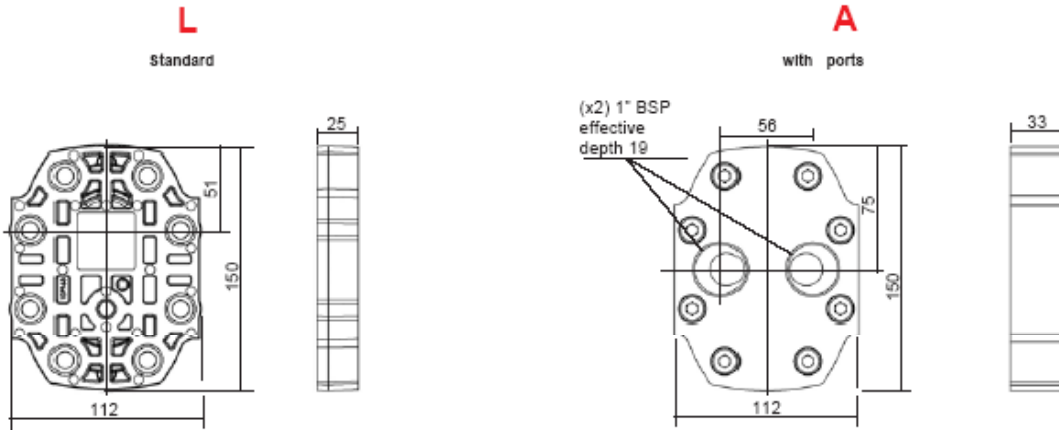
CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
H (HPI) Ø F effective depth G	3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	3020 1" N: 3.500072 3025 BSP V: 3.505060	3020 1/2" N: 3.500070 3025 BSP V: 3.505058		
	3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066		1" BSP N: 3.500072 V: 3.505060	
	3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 N: 3.500493 3080 BSP V: 3.505067	3071 1" N: 3.500072 3080 BSP V: 3.505060	3090 1" 1/4 N: 3.500103 3100 BSP V: 3.505061	3090 1" 1/4 N: 3.500103 3100 BSP V: 3.505061
C (Square) 4 holes Ø F effective depth G	3020 to 3040														
	3050 3060	28	55		M8	17	18	55		M8	17				
	3071 to 3100														
B (Italian) 4 holes Ø F effective depth G	3020 to 3040	27	51		M10	17	18	40		M8	17				
	3050 3060														
	3071 to 3100														
U (Threaded SAE J 475) Ø F effective depth G	3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
	3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
	3071 to 3100														
Y (ISO 6162) Ø F effective depth G	3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
	3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
	3071 to 3100														
X (without port) 	3020 to 3040	Only with rear body Type A													
	3050 3060														
	3071 to 3100														

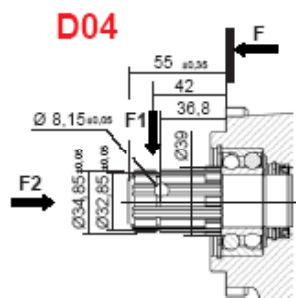
Non Standard Product, Contact us

SERIES 3 TYPE ZFC

REAR BODIES



DRIVING SHAFT (ZFC) SPLINED L30



Parallel spline shaft
6 x 32 x 36 - to Norm NF E 22 141
Pushing minor diameter

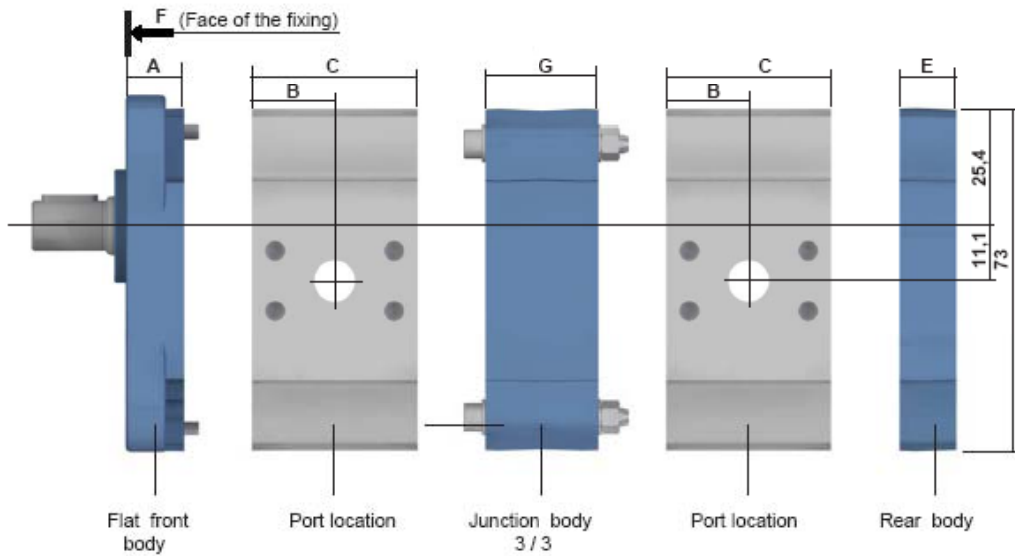
Maxi transmissible torque
480 N.m

F1 = 140 daN
F2 = 50 daN



“MODULE 3” VERSION

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



ATTENTION
 For common suctions.
 The flow of the pump, or pumps preceding or following the section including the suction must not exceed 22 l / min.

Flat front bodies	A
AAN / AAK - BAN CBN / CBK - DBN / DBK	20

Thick front bodies	A
AAP / AEP - AAR / AER AAZ - ABP / ABR ADP / ADR - ADX / ADZ ZFC	68 72

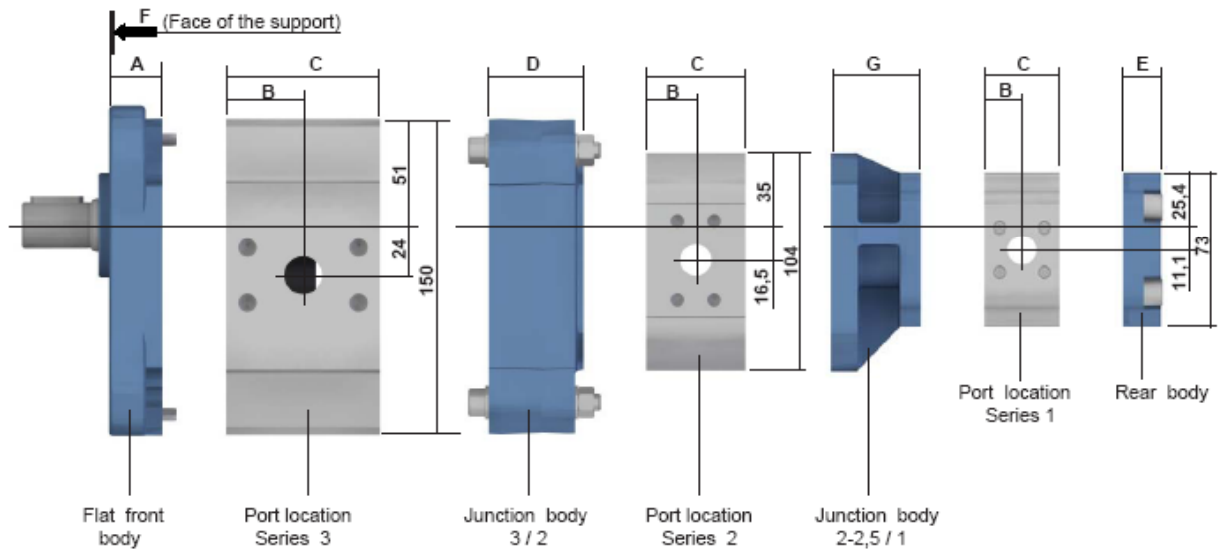
Capacity	B	C	D	E
3020 to 3040	36,3	72,7		
3050 - 3060	49,5	99,2	24	25,5
3071 to 3100	59,2	119,2		

Consult us for availability

“COMPACT” VERSION



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



ATTENTION
 For common suctions.
 The flow of the pump, or pumps preceding or following the section including the suction must not exceed 22 l/min.

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

	Capacity	B	C	D	E	G
Series 3	3020 to 3040	36,3	72,7			
	3050 - 3060	49,5	99,2	50		
	3071 to 3100	59,2	119,2			
Series 2 - 2,5	2004 to 2012	23,5	47			42
	2014 to 2022	31	61,6			
	2512					
	2026 - 2030 2515 to 2522	38,8	77,7			
Series 1	1001 to 1003	17,9	35,8		18	
	1004 to 1006	22,7	45,6			

Flat front bodies	A
AAN / AAK - BAN CBN / CBK - DBN / DBK	20
Thick front bodies	A
AAP / AEP - AAR / AER AAZ - ABP / ABR ADP / ADR - ADX / ADZ ZFC	68 72

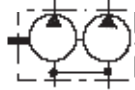
Consult us for availability



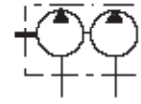
“COMPACT” VERSION

JUNCTION BODY (Schematic examples for 2 elements pumps)

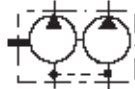
Code A Communication between suction ports
(Capacity of the pump without suction \geq half of the capacity of the front section)



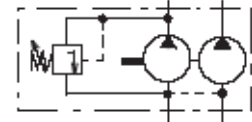
Code E Tightness between ports



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



Code X Adjustable relief valve internal return in preceding pump



Possible combinations of junctions up to 5 elements

CALCULATION of the TORQUE

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

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

Example : P 1 CBN 3060 H A 2008 H A 1004 C L 30 A01 Pressure : 3060 200 bar Speed : 2000 RPM
2008 150 bar
1004 150 bar

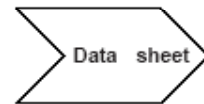
$$\frac{1,59 \times 60 \times 200}{1000 \times 0,88} = 21,68 \text{ N.m}$$

$$\frac{1,59 \times 8 \times 150}{1000 \times 0,87} = 2,24 \text{ N.m}$$

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

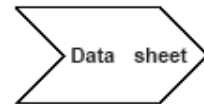
$$= \boxed{25,01 \text{ N.m}} \rightarrow \text{Total torque}$$

CODIFICATION PUMPS
"MODULE 3"



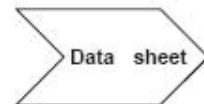
F.T R 0146

PUMP **Series 1**



F.T 10 1352

PUMP **Series 2 / 2,5**



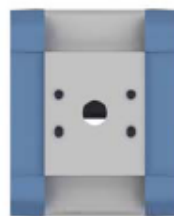
F.T 20 1353

PUMP **Series 2,6**



F.T 26 1354

PUMP **Series 3**



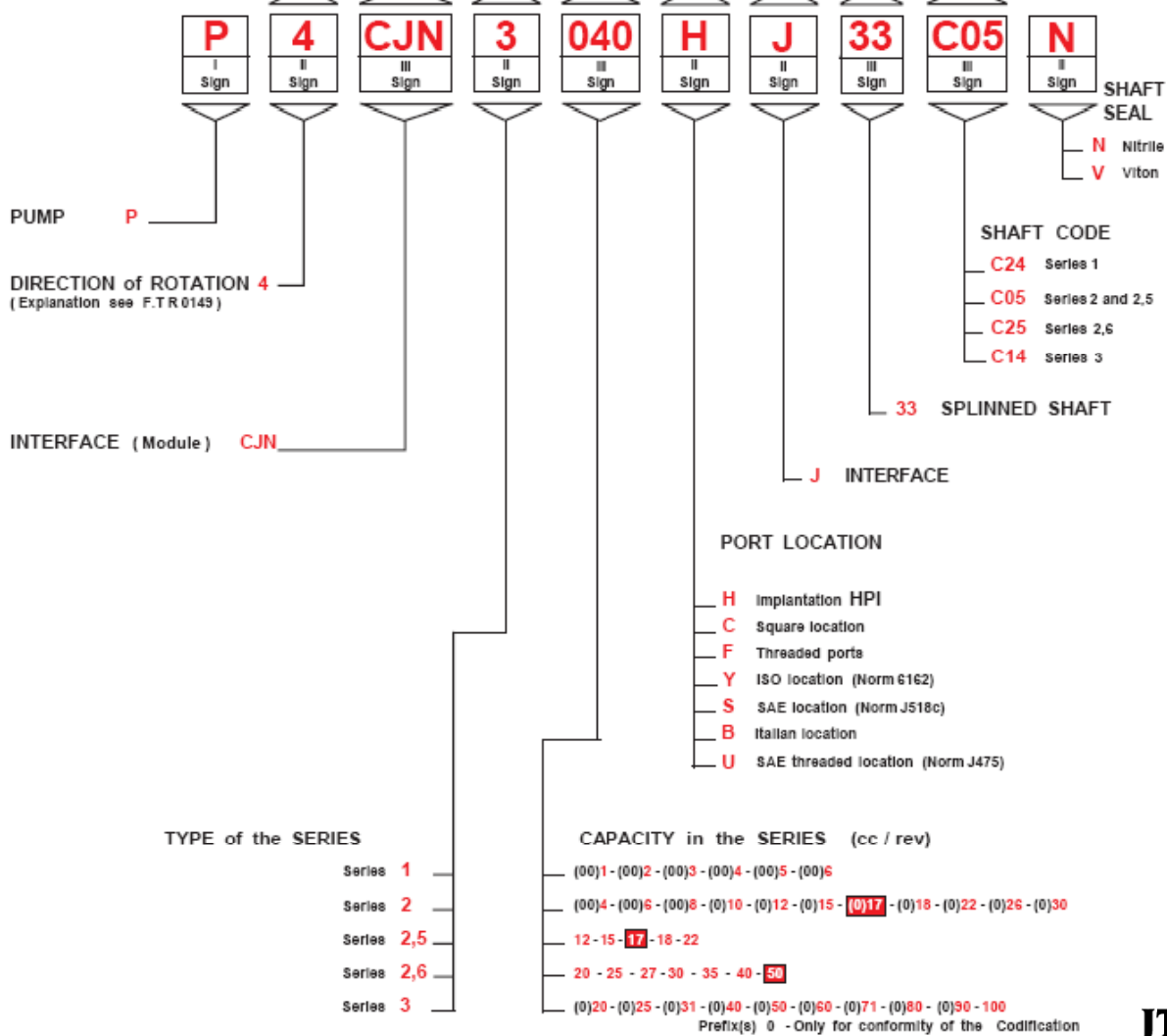
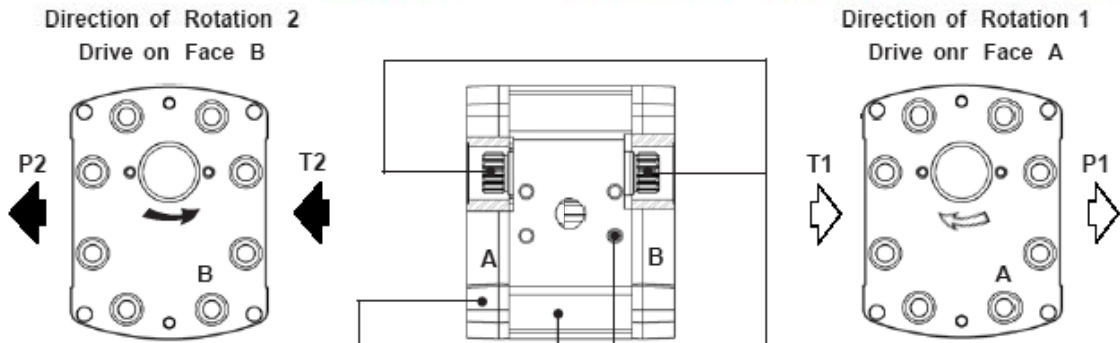
F.T 30 1355



Consult us for availability

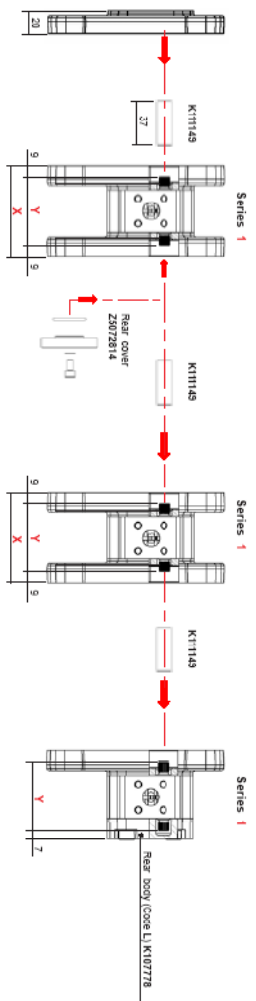
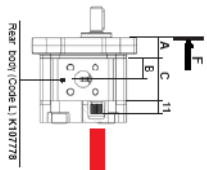
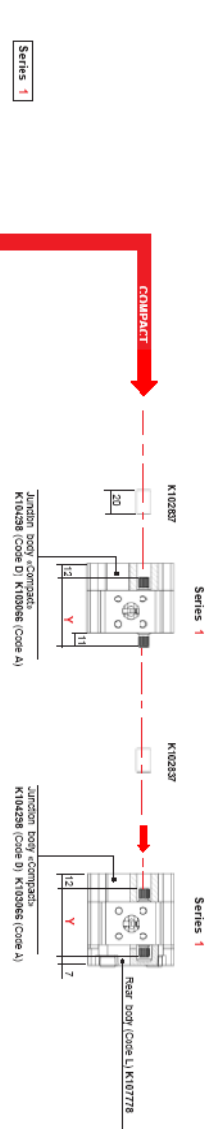
JTEKT
HPI

"MODULE 3"



 Consult us for availability





References of MODULE 3 Series 1*

Model	Capacity in bar	Main pressure in bar	Implantation references Ports C
1001	1,02	300	C:5074539
1002	2,05	300	C:5074530
1003	3,07	300	C:5074531
1004	4,09	220	C:5074532
1005	5,12	200	C:5074533
1006	6,14	200	C:5074534

FIXING SCREWS

For CONNECTIONS between	References
Module 3 - Series 1 - Module 3 - Series 1	E:5074536

Flat front body A

AAV / AAK - BAN 18
 CBN / CBK
 DCN / DCK

Capacity	B	C	X	Y
1001 to 1003	17,9	35,8	76,8	57,8
1004 to 1006	22,7	45,6	85,6	67,6

Driving shaft

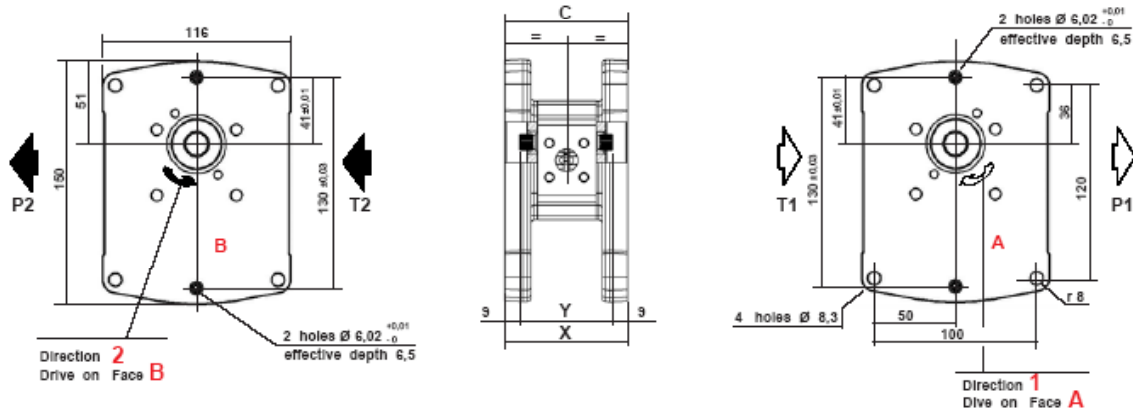
33 C24
 Involute spline to shaft
 10 x 16 x 0,5 - BMA 455
 Standard NF E 22 141 - BMA 455
 Max. Transmissible Torque: 25 N.m

Consult us for availability



P II Sign **CJ** **N 1** VI Sign **CL 3 3** **C24** XII Sign

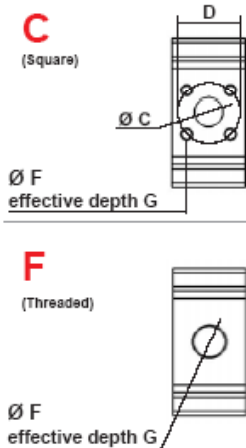
For CODIFICATION, see data sheet **F.T.R 0146**



CHOICE of the Capacity	Dimensions		
	C	Y	X
1001 - 1002 - 1003	35,8	57,8	75,8
1004 - 1005 - 1006	45,6	67,6	85,6

Seals kits:
 Nitrile: **K5074104**
 Viton: **K5074105**
 (For manufacture to since October 1994)

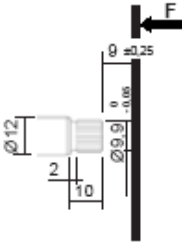
CHOICE of IMPLANTATION of PORTS and of RECOMMENDED FLANGES



Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
	1001 to 1003 1004 to 1006	14	30		M6	13	14	30		M6	13	1 / 4 " BSP N: 1.500292 V: 1.504770
1001 to 1003 1004 to 1006				3/8" BSP	11				3/8" BSP	12	3 / 8 " BSP N: 1.500293 V: 1.505027	1 / 4 " BSP N: 1.500292 V: 1.504770



DRIVING SHAFT

Straight keyed	Tightening torque	Splined	Tang
10	20	30	40
		<p style="color: red; font-weight: bold; margin: 0;">C24</p>  <p style="margin: 0;">Involute spline shaft 10 x 18 x 0,5 to Norm NF E 22 141 - BNA 455</p> <p style="margin: 0;"><u>Maxi transmissible torque</u> 25 N.m</p>	

POSSIBLE COMBINATIONS

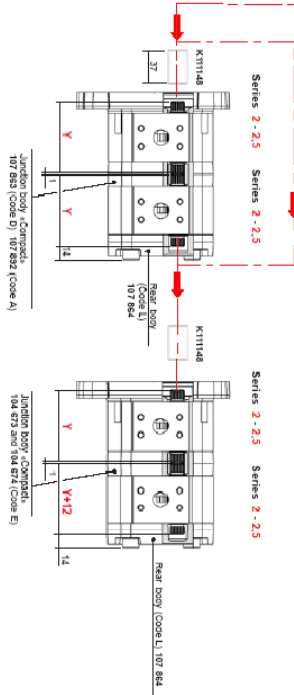
Model	Capacity	Maxi pressure in bar	Implantation Ports H	reference Ports C
2004	4,05	250	C.5074501	C.5074515
2006	6,45	250	C.5074502	C.5074516
2008	8,25	250	C.5074503	C.5074517
2010	10,12	250	C.5074504	C.5074518
2012	12	250	C.5074505	C.5074519
2014	13,8	250		
2015	15,62	250	C.5074506	C.5074520
2017	17,3	200	C.5074507	C.5074521
2018	18,12	200	C.5074508	C.5074522
2022	22,87	175	C.5074509	C.5074523
2026	27,6	175	C.5074510	C.5074524
2030	31,2	300	C.5074511	C.5074525
2312	12	300	C.5074512	C.5074526
2315	15,62	250		
2317	17,3	250		

References of «MODULE 3 Series 2 & 2.5»



Model	Capacity	Maxi pressure in bar	Implantation reference Ports C
1001	1,02	300	C.5074529
1002	2,05	300	C.5074530
1003	3,07	300	C.5074531
1004	4,09	250	C.5074532

References of «MODULE 3 Series 1»



FIXING SCREWS

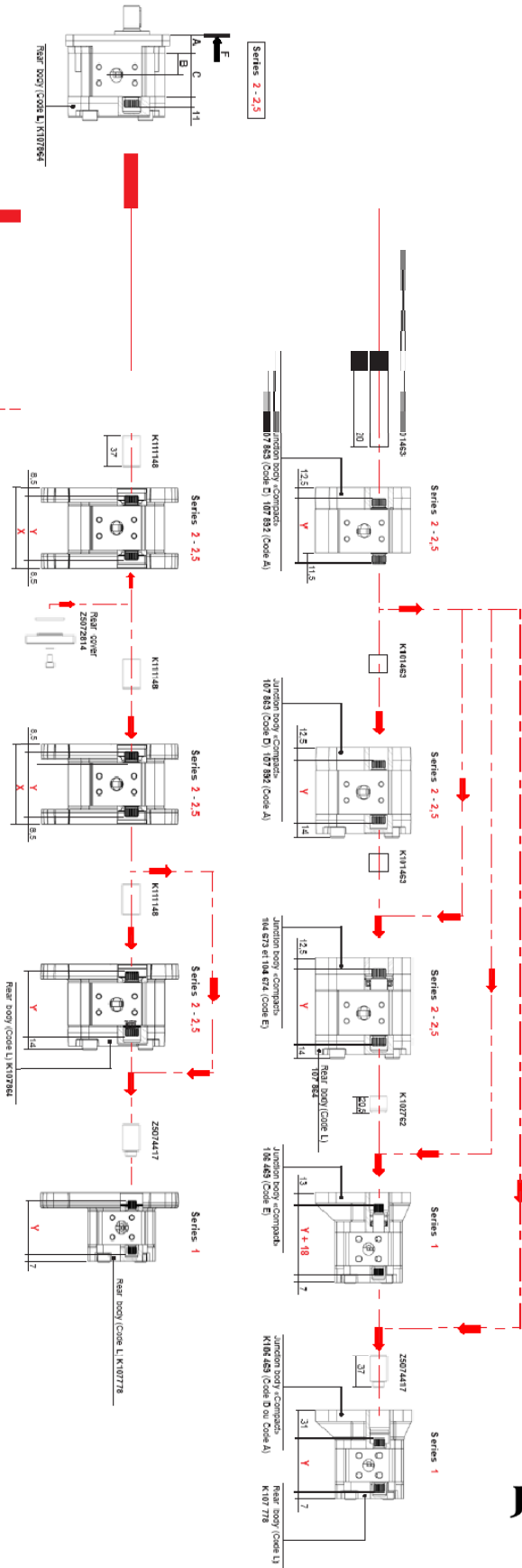
For CONNECTIONS between	References
Module 3 - Series 2 & 2.5 - Module 3 - Series 2 & 2.5	E.5074538
Module 3 - Series 2 & 2.5 - Module 3 - Series 1	E.5074538
Module 3 - Series 1 - Module 3 - Series 1	E.5074538

POSSIBLES COMPOSITION OF THE «COMPACT'S» PUMPS :

Consult us for availability

capacity	B	C	X	Y
Series 2004 to 2012	23,5	47	87	70
Series 2014 to 2022	31	61,6	101,6	84,6
Series 2026 - 2030	38,8	77,7	117,7	100,7
Series 2315 to 2322				
Series 1001 to 1003	17,9	35,8	75,8	57,8
Series 1004 to 1006	22,7	45,6	85,6	67,6

Series	Front body	A
Series 2004 - 2012	AAU / AAK - BAN - CAN	20
Series 2014 - 2022	CEU	22
Series 2026 - 2030	DBU / DBK -	22
Series 2315 - 2322	DCH / DCK - DUK - DWN	18
Series 1001 - 1003	ARP / ARK	28
Series 1004 - 1006	DGP / DBK	26
		51

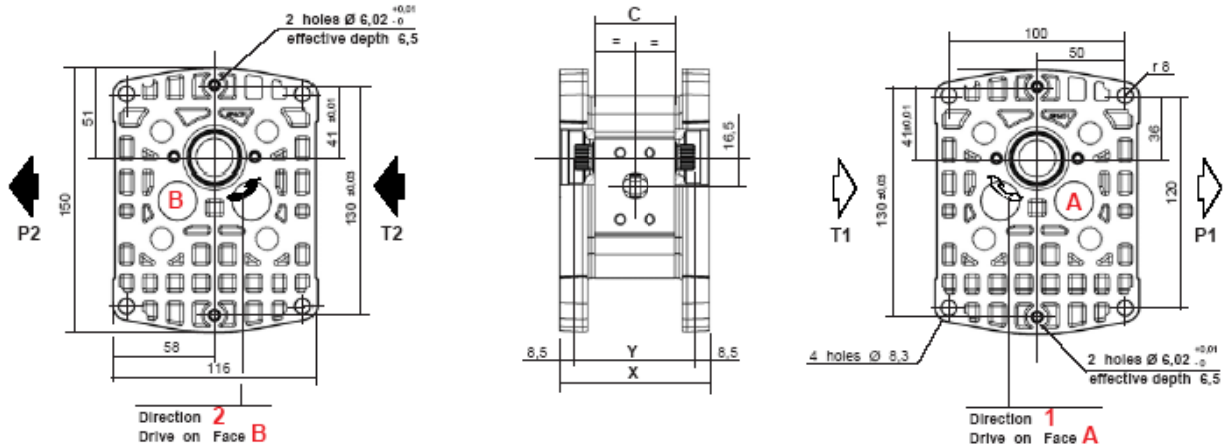


MULTIPLE GEARED PUMPS SERIES 2-2.5 "MODULE 3" VERSION



P II Sign **CJ** **N** **2** VI Sign **HL** **3** **3** **C05** XII Sign

For CODIFICATION, see data sheet **F.T.R 0146**



CHOICE of the Capacity	Dimensions		
	C	Y	X
2004 - 2006 - 2008 2010 - 2012	47	70	87
2014 - 2015 - 2017 2018 - 2022 2512	61,6	84,6	101,6
2026 - 2030 - 2515 - 2517 - 2518 2522	77,7	100,7	117,7

Seals kits:
Nitrile: **K5074065**
Viton: **K5074066**
(For manufacture to since December 1993)

Consult us for availability

CHOICE of the DRIVING SHAFT

Tapered	Straight keyed	Splined	Tang
10	20	30	40
		C05	
		<p>Involute spline shaft 15 x 18 x 0,75 to Norm NFE 22 141 - BNA 455</p> <p><u>Maxi transmissible torque</u> 9,5 N.m</p>	



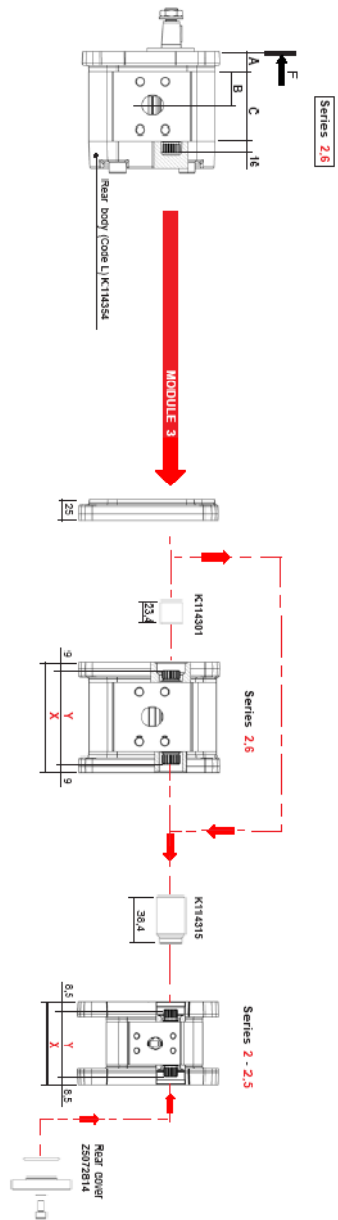
IMPLANTATION OF PORTS SERIES 2-2.5

CHOICE of the IMPLANTATION of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
H (HPI) Ø F effective depth G	2004 to 2012	20	17,4	38	M6	12	15	17,4	38	M6	15	1/2" BSP N: 2.500055 V: 2.504126	3/8" BSP N: 2.500054 V: 2.505994
	2014 to 2030 2512 to 2522	26	47,6	22,4	M6	12	15	17,4	38	M6	12	1" BSP N: 2.500496 V: 2.504117	1/2" BSP N: 2.500055 V: 2.504126
C (Square) Ø F effective depth G	2004 to 2012											1/2" BSP N: 367141.502	3/8" BSP N: 367141.702
	2014 to 2030 2512 to 2522	20	40		M6	12	15	35		M6	12	3/4" BSP N: 367141.503	1/2" BSP N: 367141.703
B (Italian) 4 holes Ø F effective depth G	2004 to 2012	15	30		M6	13	15	30		M6	13	3/8" BSP N: X.367508.201 1/2" BSP N: X.367508.202	3/8" BSP N: X.367508.201 1/2" BSP N: X.367508.202
	2014 to 2030 2512 to 2522	20	40		M6	13	15	30		M6	13	1/2" BSP N: X.367508.101 3/4" BSP N: X.367508.102	3/8" BSP N: X.367508.201 1/2" BSP N: X.367508.202
F (Threaded) Ø F effective depth G	2004 to 2012				3/4" BSP	16				3/8" BSP	12		
	2014 to 2030 2512 to 2522				1" BSP	18				1/2" BSP	14		
U (Threaded SAE J 475) Ø F effective depth G	2004 to 2012				1"1/16 12 UNF 2B	20				7/8" 14 UNF 2B	17		
	2014 to 2022 2512				1"5/16 12 UNF 2B	20				7/8" 14 UNF 2B	17		
	2026-2030 2515 to 2522				1"5/16 12 UNF 2B	20				1"1/16 12 UNF 2B	20		
Y (ISO 6162) Ø F effective depth G	2004 to 2012	20	17,4	38	M8	14	15	17,4	38	M8	14		
	2014 to 2022 2512	26	47,6	22,4	M10	14	15	17,4	38	M8	14		
	2026-2030 2515 to 2522	26	52,4	26,2	M10	14	15	17,4	38	M8	14		

Consult us for availability

POSSIBLE COMBINATIONS



Front body	A
Series 2.5	AA1 / AA2 BAN - CBN
	Z2

Capacity	B	C	X	Y
2520	37	74.1	118.2	100.2
2525	38.3	78.6	122.7	104.7
Series 2.5	2827	41	82	126.1
	2830	42.5	85.1	129.2
	2835	44.5	89.1	133.2
	2840	47.3	94.0	138.7

Series 2004 to 2012	23.5	47	87	70
Series 2014 to 2022	31	61.8	101.6	84.8
Series 2 - 2.5	2512	38.8	77.7	117.7
	2515 to 2522	38.8	77.7	117.7

Series 1	1001 to 1003	17.0	35.6	76.8	57.6
	1004 to 1006	22.7	45.6	96.0	67.6

Driving shaft

Series 2.5	33 C25 Involuta spina shaft to Norm NF E 22 141 - BNA 455 Spigot on Free Flange Maxi Transmissible Torque: 280 N.M
Series 2 - 2.5	33 C05 Involuta spina shaft 15 x 18 x 0.75 to Norm NF E 22 141 - BNA 455 Spigot on Free Flange Maxi Transmissible Torque: 35 N.M
Series 1	33 C24 Involuta spina shaft 10 x 18 x 0.5 to Norm NF E 22 141 - BNA 455 Maxi Transmissible Torque: 28 N.M

POSSIBLES COMPOSITIONS of the «COMP» FT 10 1238 Page 472 / 00

FT 20 1306 Page 475 / 00

POSSIBLES COMPOSITIONS of the «COMP» FT 10 1332 Page 333 / 00

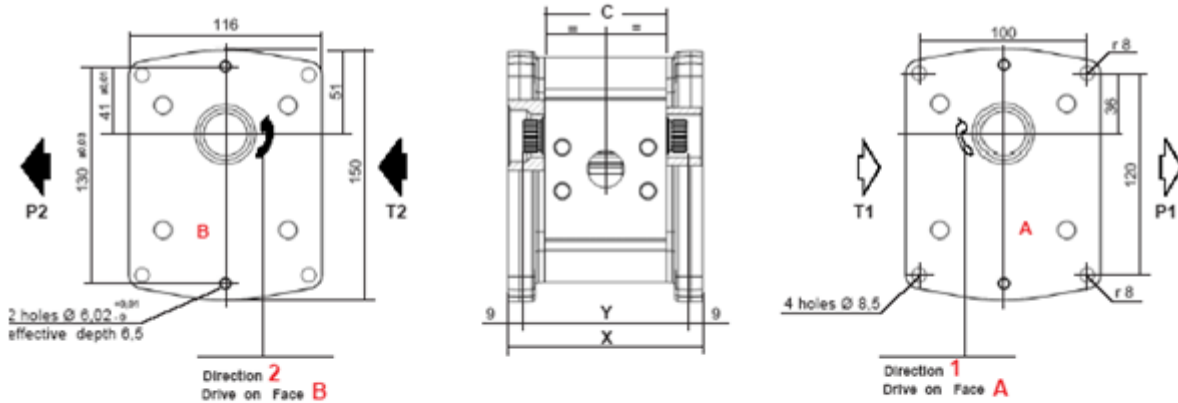
FT 20 1333 Page 337 / 00

MULTIPLE GEARED PUMPS SERIES 2,6 "MODULE 3" VERSION



P 4 C J N 26 VI Sign **Y L 3 3 C 25** XII Sign

For CODIFICATION, see data sheet **F.T.R 0146**

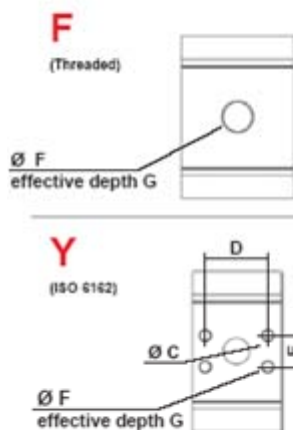


CHOICE of the Capacity	Dimensions		
	C	Y	X
2620	74,1	100,2	118,2
2625	78,6	104,7	122,7
2627	82	108,1	126,1
2630	85,1	111,2	129,2
2635	89,1	115,2	133,2
2640	94,6	120,7	138,7
2650			

Seals kits:
 Nitrile: **K5093263**
 Viton: **K5093264**
 (For manufacture to since 2002)

Consult us for availability

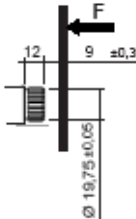
CHOICE of the IMPLANTATION of PORTS and RECOMMENDED FLANGES



Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)	
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)
	2620 bis 2627				1" BSP	19						
2630 - 2635				1" 1/4 BSP	21				3/4" BSP	16		
2640				1" 1/4 BSP	21							
2620 bis 2627	25	52,4	26,2	M8	14						1" BSP N: 368557.002	
2630 - 2635	30	58,7	30,2	M10	14	22	52,4	26,2	M10	14		1" BSP N: 368557.002
2640	32	58,7	30,2	M10	14							



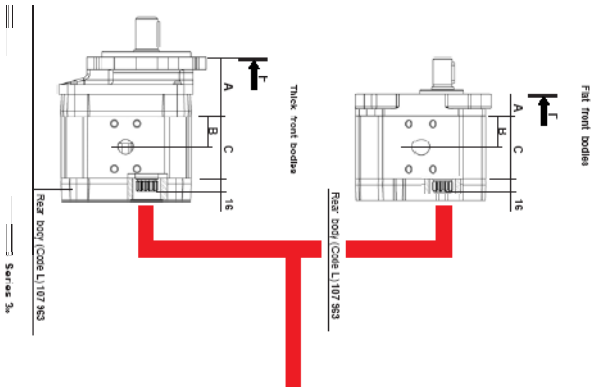
CHOICE of the DRIVING SHAFT

Tapered	Straight keyed	Splined	Tang
10	20	30	40
		<p>C25</p>  <p>Involute spline shaft 20 x 18 x 1 to Norm NF E 22 141</p> <p><u>Maxi transmissible torque</u> 25 N.m</p>	

POSSIBLE COMBINATIONS

Series 2 & 2.5	Series 3	Series 1
C.3074507	C.3074521	C.3074510
C.3074508	C.3074522	C.3074511
C.3074509	C.3074523	C.3074512
C.3074510	C.3074524	C.3074525
C.3074511	C.3074525	C.3074526
C.3074512	C.3074526	
C.3074513	C.3074527	
C.3074514	C.3074528	
C.3074515	C.3074529	
C.3074516	C.3074530	
C.3074517	C.3074531	
C.3074518	C.3074532	
C.3074519	C.3074533	
C.3074520	C.3074534	

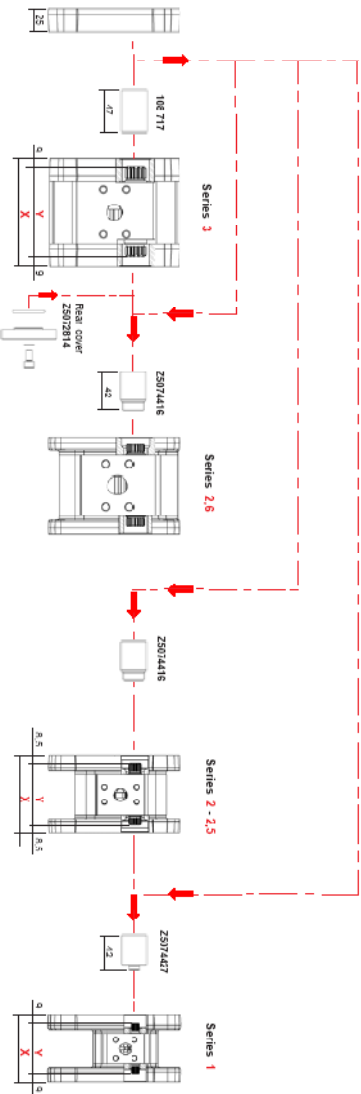
Series 3	Series 2 & 2.5
Implantation references Ports H	C.3072074
C.3072074	C.3072077
C.3072075	C.3072078
C.3072076	C.3072079
C.3072077	C.3072080
C.3072078	C.3072081
C.3072079	C.3072082
C.3072080	C.3072083
C.3072081	C.3072084
C.3072082	C.3072085



Series 3

Model	Capacity	Max pressure in Bar	Implantation references Ports C
1001	1,02	300	C.3074539
1002	2,06	300	C.3074530
1003	3,07	300	C.3074531
1004	4,09	250	C.3074532
1005	5,12	200	C.3074533
1006	0,14	200	C.3074534

References of «MODULE 3» Sprack 1»



FINING SCREWS

For CONNECTIONS between	References
C-3 J - Module 3 - Series 3	E.5074176
C-3 J - Module 3 - Series 2 & 2.5	E.5074187
C-3 J - Module 3 - Series 1	E.5074187
Module 3 - Series 3 - Module 3 - Series 3	E.5072087
Module 3 - Series 3 - Module 3 - Series 2 & 2.5	E.5072087
Module 3 - Series 2 & 2.5 - Module 3 - Series 3	E.5074535
Module 3 - Series 2 & 2.5 - Module 3 - Series 2 & 2.5	E.5074535
Module 3 - Series 1 - Module 3 - Series 1	E.5074535

POSSIBLE COMPOSITION of the «COMPACT» PUMPS :

Series 1	Series 2 & 2.5	Series 3
see FT 10 1032 Page 353/100	see FT 20 1032 Page 371/100	see FT 30 1032 Page 387/100
see FT 10 1032 Page 353/100	see FT 20 1032 Page 371/100	see FT 30 1032 Page 387/100
Series 2 & 2.5	Series 2 & 2.5	Series 3
see FT 25 1034 Page 401/100	see FT 25 1034 Page 401/100	see FT 25 1034 Page 401/100

Consult us for availability

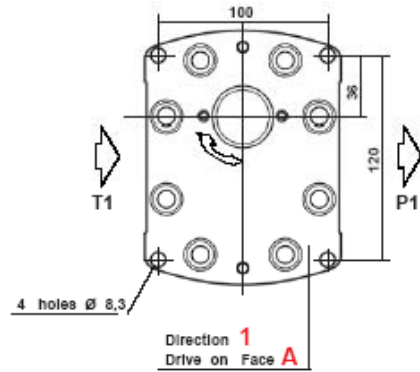
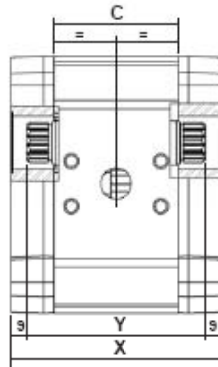
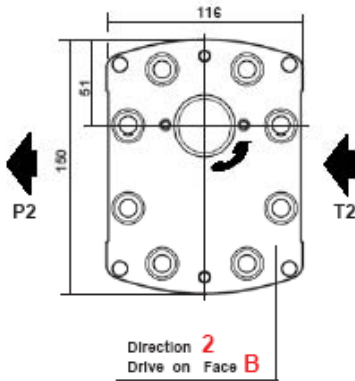
Series 3	Series 2.5	Series 1
Capacity	37	74.1
B	39.3	78.6
C	78.6	122.7
X	122.7	104.7
Y	104.7	108.1
Series 3	2427	41
Series 2.5	2430	42.5
Series 1	2435	44.5
	2440	47.3
	2450	49.6
	2460	51.9
	2470	54.2
	2480	56.5
	2490	58.8
	2500	61.1
	2510	63.4
	2520	65.7
	2530	68.0
	2540	70.3
	2550	72.6
	2560	74.9
	2570	77.2
	2580	79.5
	2590	81.8
	2600	84.1
	2610	86.4
	2620	88.7
	2630	91.0
	2640	93.3
	2650	95.6
	2660	97.9
	2670	100.2
	2680	102.5
	2690	104.8
	2700	107.1
	2710	109.4
	2720	111.7
	2730	114.0
	2740	116.3
	2750	118.6
	2760	120.9
	2770	123.2
	2780	125.5
	2790	127.8
	2800	130.1
	2810	132.4
	2820	134.7
	2830	137.0
	2840	139.3
	2850	141.6
	2860	143.9
	2870	146.2
	2880	148.5
	2890	150.8
	2900	153.1
	2910	155.4
	2920	157.7
	2930	160.0
	2940	162.3
	2950	164.6
	2960	166.9
	2970	169.2
	2980	171.5
	2990	173.8
	3000	176.1
	3010	178.4
	3020	180.7
	3030	183.0
	3040	185.3
	3050	187.6
	3060	189.9
	3070	192.2
	3080	194.5
	3090	196.8
	3100	199.1
	3110	201.4
	3120	203.7
	3130	206.0
	3140	208.3
	3150	210.6
	3160	212.9
	3170	215.2
	3180	217.5
	3190	219.8
	3200	222.1
	3210	224.4
	3220	226.7
	3230	229.0
	3240	231.3
	3250	233.6
	3260	235.9
	3270	238.2
	3280	240.5
	3290	242.8
	3300	245.1
	3310	247.4
	3320	249.7
	3330	252.0
	3340	254.3
	3350	256.6
	3360	258.9
	3370	261.2
	3380	263.5
	3390	265.8
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	3410	270.4
	3420	272.7
	3430	275.0
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	3450	279.6
	3460	281.9
	3470	284.2
	3480	286.5
	3490	288.8
	3500	291.1
	3510	293.4
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	3530	298.0
	3540	300.3
	3550	302.6
	3560	304.9
	3570	307.2
	3580	309.5
	3590	311.8
	3600	314.1
	3610	316.4
	3620	318.7
	3630	321.0
	3640	323.3
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	3660	327.9
	3670	330.2
	3680	332.5
	3690	334.8
	3700	337.1
	3710	339.4
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	3740	346.3
	3750	348.6
	3760	350.9
	3770	353.2
	3780	355.5
	3790	357.8
	3800	360.1
	3810	362.4
	3820	364.7
	3830	367.0
	3840	369.3
	3850	371.6
	3860	373.9
	3870	376.2
	3880	378.5
	3890	380.8
	3900	383.1
	3910	385.4
	3920	387.7
	3930	390.0
	3940	392.3
	3950	394.6
	3960	396.9
	3970	399.2
	3980	401.5
	3990	403.8
	4000	406.1
	4010	408.4
	4020	410.7
	4030	413.0
	4040	415.3
	4050	417.6
	4060	419.9
	4070	422.2
	4080	424.5
	4090	426.8
	4100	429.1
	4110	431.4
	4120	433.7
	4130	436.0
	4140	438.3
	4150	440.6
	4160	442.9
	4170	445.2
	4180	447.5
	4190	449.8
	4200	452.1
	4210	454.4
	4220	456.7
	4230	459.0
	4240	461.3
	4250	463.6
	4260	465.9
	4270	468.2
	4280	470.5
	4290	472.8
	4300	475.1
	4310	477.4
	4320	479.7
	4330	482.0
	4340	484.3
	4350	486.6
	4360	488.9
	4370	491.2
	4380	493.5
	4390	495.8
	4400	498.1
	4410	500.4
	4420	502.7
	4430	505.0
	4440	507.3
	4450	509.6
	4460	511.9
	4470	514.2
	4480	516.5
	4490	518.8
	4500	521.1
	4510	523.4
	4520	525.7
	4530	528.0
	4540	530.3
	4550	532.6
	4560	534.9
	4570	537.2
	4580	539.5
	4590	541.8
	4600	544.1
	4610	546.4
	4620	548.7
	4630	551.0
	4640	553.3
	4650	555.6
	4660	557.9
	4670	560.2
	4680	562.5
	4690	564.8
	4700	567.1
	4710	569.4
	4720	571.7
	4730	574.0
	4740	576.3
	4750	578.6
	4760	580.9
	4770	583.2
	4780	585.5
	4790	587.8
	4800	590.1
	4810	592.4
	4820	594.7
	4830	597.0
	4840	599.3
	4850	601.6
	4860	603.9
	4870	606.2
	4880	608.5
	4890	610.8
	4900	613.1
	4910	615.4
	4920	617.7
	4930	620.0
	4940	622.3
	4950	624.6
	4960	626.9
	4970	629.2
	4980	631.5
	4990	633.8
	5000	636.1
	5010	638.4
	5020	640.7
	5030	643.0
	5040	645.3
	5050	647.6
	5060	649.9
	5070	652.2
	5080	654.5
	5090	656.8
	5100	659.1
	5110	661.4
	5120	663.7
	5130	666.0
	5140	668.3
	5150	670.6
	5160	672.9
	5170	675.2
	5180	677.5
	5190	679.8
	5200	682.1

MULTIPLE GEARED PUMPS SERIES 3 "MODULE 3" VERSION



P 4 C J N 3 VI Sign **H L 3 3 C14** XII Sign

For CODIFICATION, see data sheet **F.T R 0146**



CHOICE of the Capacity	Dimensions		
	C	Y	X
3020 - 3025 - 3031 - 3040	72,7	104,7	122,7
3050 - 3060	99,2	131,2	149,2
3071 - 3080 - 3090 - 3100	119,2	151,2	169,2

Seals kits:

Nitrile: **K5074071**

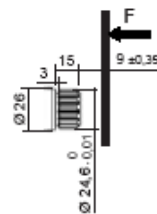
Viton: **K5074072**

(For manufacture to since January 1993)

CHOICE of the DRIVING SHAFT

Tapered	Straight keyed	Splinned	Tang
10	20	30	40

C14



Involute spline shaft
25 x 13 x 1,667
to Norm NF E 22 141 - BNA 455

Maxi transmissible torque
500 N.m



IMPLANTATION OF PORTS

CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES

	Capacity	INLET (T)					OUTLET (P)					CATALOGUE ° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
		ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
H (HPI) Ø F effective depth G	3020 to 3040	28	52,4	26,2	M8	16	18	52,4	26,2	M8	16	3020 1" N: 3.500072 3025 BSP V: 3.505060	3020 1/2" N: 3.500070 3025 BSP V: 3.505058		
	3050 3060	42	35,6	69,8	M8	16	22	52,4	26,2	M8	16	1" 1/4 BSP N: 3.500492 V: 3.505066	1" BSP N: 3.500072 V: 3.505060		
	3071 to 3100	42	35,6	69,8	M8	16	24	52,4	26,2	M8	16	3071 1" 1/2 N: 3.500433 3080 BSP V: 3.505067 3090 1" 1/2 N: 3.500433 3100 BSP V: 3.505067	3071 1" N: 3.500072 3080 BSP V: 3.505060 3090 1" 1/4 N: 3.500103 3100 BSP V: 3.505061		
C (Square) 4 holes Ø F effective depth G	3020 to 3040														
	3050 3060	28	55		M8	17	18	55		M8	17				
	3071 to 3100														
B (Italian) 4 holes Ø F effective depth G	3020 to 3040	27	51		M10	17	18	40		M8	17				
	3050 3060														
	3071 to 3100														
U (Threaded SAE J 475) Ø F effective depth G	3020 to 3040				1" 5/16 -12 UNF	19				1" 1/16 -12 UNF	19				
	3050 3060				1" 5/8 -12 UNF	19				1" 5/16 -12 UNF	19				
	3071 to 3100														
Y (ISO 6162) Ø F effective depth G	3020 to 3040	28	52,4	26,2	M10	17	18	52,4	26,2	M10	17				
	3050 3060	42	69,8	35,6	M14	17	34	52,4	26,2	M10	17				
	3071 to 3100														

 Consult us for availability



PUMPS PRESENTATION
SERIES 5

- FLAT FRONT BODY



F.T 50 1364

PUMP

BAN



F.T 50 1365

- THICK FRONT BODIES

PUMP

AAP



F.T 50 1408

PUMP

AAR




F.T 50 1407

PUMP

ADP



F.T 50 1416

 Consult us for availability

MAIN CHARACTERISTICS PUMPS SERIES 5

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM l / min	at Maxi speed l / min			
5043	43,06	300	4350	255	3700	3000	64,59	129	8,44	80,55	14,2
5052	52,91	300	4350	255	3700	3000	79,36	158,5	10,37	98,97	14,2
5062	62,75	300	4350	255	3700	3000	94,12	188	12,30	117,38	14,4
5072	72,59	300	4350	255	3700	3000	108,88	217,5	14,23	135,79	14,6
5083	83,67	280	4060	240	3480	2700	125,50	226	16,41	156,51	15,1
5093	93,51	250	3625	210	3045	2700	140,26	252,5	18,34	174,92	15,2
5103	103,3	250	3625	210	3045	2700	154,95	279	20,25	193,23	15,2
5125	125,5	250	3625	210	3045	2600	188,25	326	24,61	234,76	15,7
5140	140,2	250	3625	210	3045	2500	210,30	350,5	27,49	262,26	15,7
5153	153	250	3625	210	3045	2400	229,50	367,5	30	286,20	16

The pump can only run in one way rotation (Precise the direction of rotation on order).

The working cycles hereunder are possible with hydraulic mineral oil for viscosities between 12 and 150 cSt (65,2 and 700 SUS).

The minimum viscosity of 12 cSt (65,2 SUS) is available for a maximum temperature in the hydraulic circuit . Working temperature: - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C (284 °F) with Viton shaft seal).

Full flow filtration: 10 to 15 microns at the pressure port of the pump or on the return circuit.

Filtration on the suction side: 125 microns.

Pressure at the inlet of the pump:

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

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

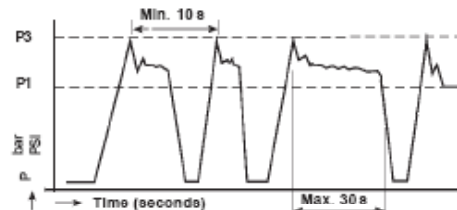
For any other coupling, see technical data sheet F.T R 0009.

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

P1 Maximum pressure in continuous duty.

Maximum Pressure →

P3 Allowable peak pressure.



Consult us for availability

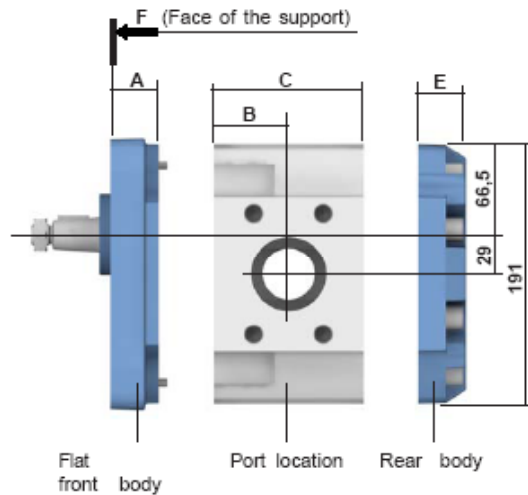
GENERAL DIMENSIONS PUMPS SERIES 5

FLAT FRONT BODY

Front body: A
BAN 34

Port location (capacity):	B	C
5043 - 5052 - 5062 - 5072	54,7	109,7
5083 - 5093 - 5103 -	61	122,2
5125 - 5140 - 5153 -	71,6	143,2

Rear body: E
L 35

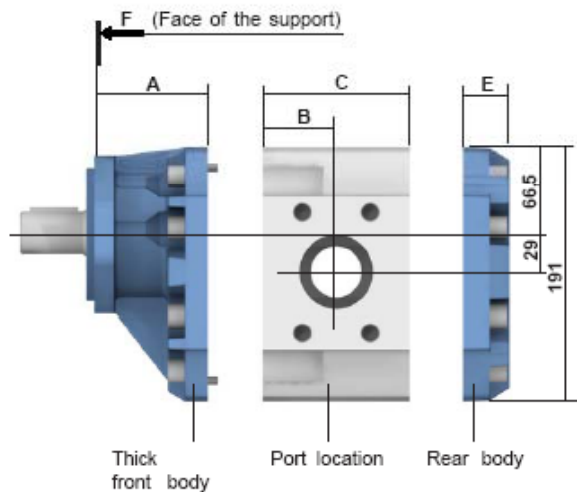


THICK FRONT BODY

Front bodies: A
AAP AAR
ADP 85

Port location (capacity):	B	C
5043 - 5052 - 5062 - 5072	54,7	109,7
5083 - 5093 - 5103 -	61	122,2
5125 - 5140 - 5153 -	71,6	143,2

Rear body: E
L 35



Consult us for availability

AVAILABILITIES PUMPS SERIES 5

P	II Sign	III Sign	IV Sign	5	VI Sign	VII Sign	VIII Sign	IX Sign	X Sign	XI Sign	XII Sign
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For CODIFICATION, see data sheet **F.T.R 0011**

DIRECTION of ROTATION (II Sign) P 1 P 2	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)		
					TAPERED	STRAIGHT KEYED	SPLINED
			H	L	10	20	30

FLAT FRONT BODY

X	X	 BAN	5043 5052 5062 5072 5083 5093 5103 5125 5140 5153	 H	 L	 10 B05	 20 C05	
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THICK FRONT BODIES

X	X	 AAP AAR	5043 5052 5062 5072 5083 5093 5103 5125 5140 5153	 H	 L	 20 A05	 30 A04										
									X	X	 ADP	5043 5052 5062 5072 5083 5093 5103 5125 5140 5153	 H	 L	 20 A05	 30 A04	

LEGENDES

DIRECTION of ROTATION

P1 = Clockwise
P2 = Anti clockwise

FRONT BODIES

BA* = Fixing English and Italian
AA*/AD*= Fixing SAE and ISO

PORT LOCATION

H = HPI

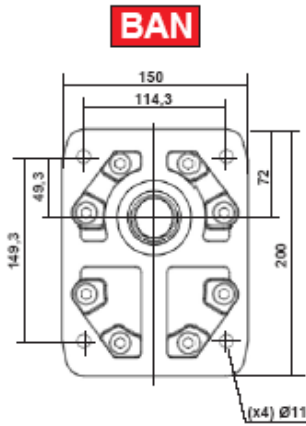
REAR BODY

L = Standard

Consult us for availability

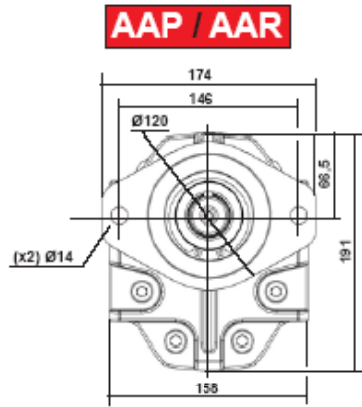


FRONT BODIES



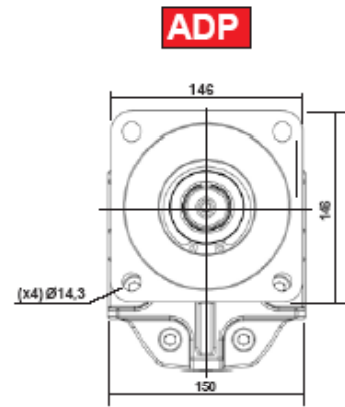
Centering: $\varnothing 60,3 \begin{smallmatrix} -0,00 \\ -0,06 \end{smallmatrix}$
Thickness: 8

BAN : F.T 35 1365



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

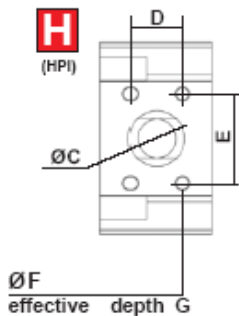
AAP : F.T 35 1408
AAR : F.T 35 1416



Centering: $\varnothing 127 \begin{smallmatrix} 0 \\ 0,05 \end{smallmatrix}$
Thickness: 6

ADP : F.T 35 1416

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES



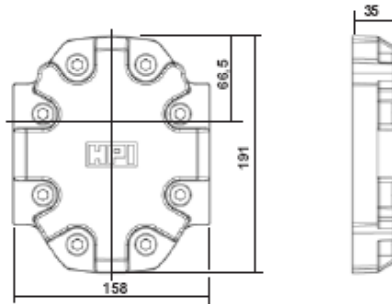
Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)			
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)		OUTLET (P)	
	5043 to 5072	55	50,8	89	M14	25	38	35,6	69,8	M14	25	5043 1" 1/4 BSP N: 3.550026 V: 3.550397	3/4" BSP N: 3.550022 V: 3.550392	5052 5062 1" BSP N: 3.550027 V: 3.550398
5083 to 5153	65	50,8	89	M14	25	38	35,6	69,8	M14	25	5072 1" 1/2 BSP N: 3.550027 V: 3.550398	1" BSP N: 3.550023 V: 3.550393	5083 1" 1/2 BSP N: 3.550027 V: 3.550398	1" BSP N: 3.550023 V: 3.550393
											5093 5103 1" 1/4 BSP N: 3.550027 V: 3.550398	1" 1/4 BSP N: 3.550026 V: 3.550397	5125 5140 2" BSP N: 3.550028 V: 3.5510399	1" 1/4 BSP N: 3.550026 V: 3.550397
											5153 2" 1/2 BSP N: 3.550034 V: 3.550400	1" 1/4 BSP N: 3.550026 V: 3.550397		

Consult us for availability



REAR BODY

L Standard



DRIVING SHAFTS

Tapered 10	Straight keyed 20	Splined 30	Tang 40
<p>B05 Cône 1/8</p> <p style="text-align: center;"><u>Maxi transmissible torque</u> 800 N.m</p>	<p>C05</p> <p style="text-align: center;"><u>Maxi transmissible torque</u> 400 N.m</p> <p>A05</p> <p style="text-align: center;"><u>Maxi transmissible torque</u> 430 N.m</p>	<p>A04</p> <p style="text-align: center;"><u>Maxi transmissible torque</u> 690 N.m</p> <p style="text-align: center;">F1 = 150 daN F2 = 50 daN</p> <p style="text-align: center;">Involute spline to SAE 14 teeth - 1" 1/4 Diametral Pitch 16/32 30° Pressure angle</p>	

 Consult us for availability

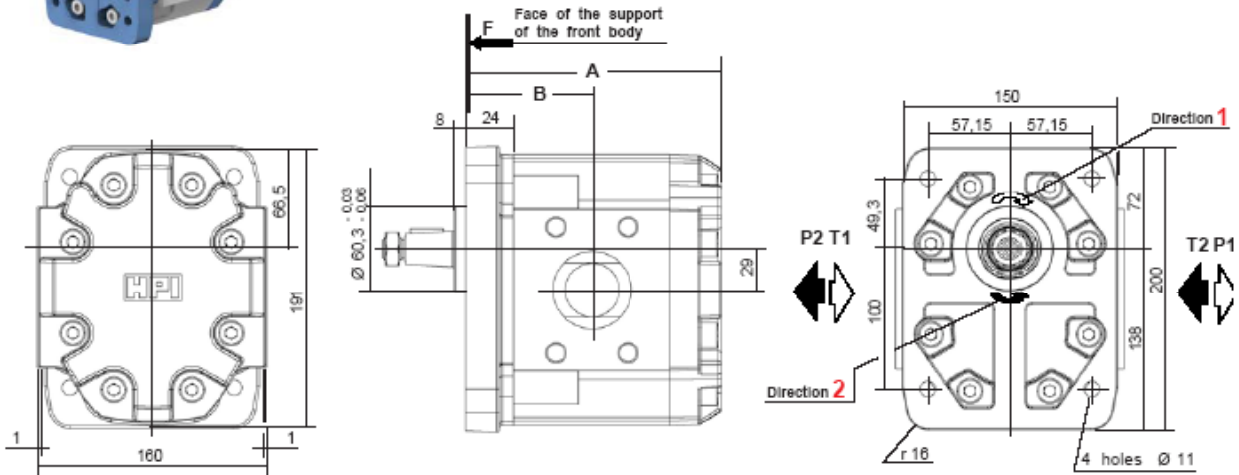


SERIES 5 TYPE BAN



P II Sign **BA N 5** VI Sign **H L** IX Sign X Sign I XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
043 - 052 - 062 - 072	179	88,7
083 - 093 - 103	191	95
125 - 140 - 153	212,2	105,5

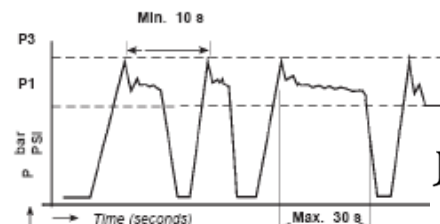
Seal kits:
 Nitrile: **K5502240**
 Viton: **K5502250**
 (For the manufacturings from september 1981)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM l / min	at Maxi speed l / min			
5043	43,06	300	4350	255	3700	3000	64,59	129	8,44	80,55	13,4
5052	52,91	300	4350	255	3700	3000	79,36	158,5	10,37	98,97	13,4
5062	62,75	300	4350	255	3700	3000	94,12	188	12,30	117,38	13,6
5072	72,59	300	4350	255	3700	3000	108,88	217,5	14,23	135,79	13,8
5083	83,67	280	4060	240	3480	2700	125,50	226	16,41	156,51	14,3
5093	93,51	250	3625	210	3045	2700	140,26	252,5	18,34	174,92	14,4
5103	103,3	250	3625	210	3045	2700	154,95	279	20,25	193,23	14,4
5125	125,5	250	3625	210	3045	2600	188,25	326	24,61	234,76	14,9
5140	140,2	250	3625	210	3045	2500	210,30	350,5	27,49	262,26	14,9
5153	153	250	3625	210	3045	2400	229,50	367,5	30	286,20	15,2

P1 Maximum pressure in continuous duty.

Maximum pressure ⇒

P3 Allowable peak pressure.



Consult us for availability

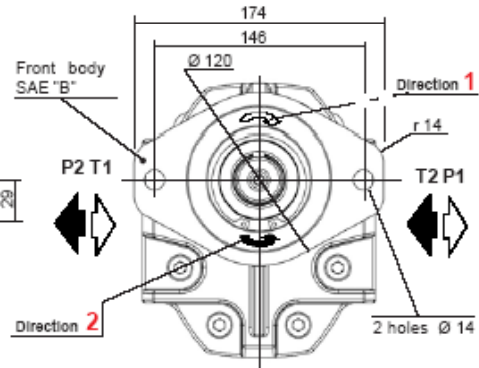
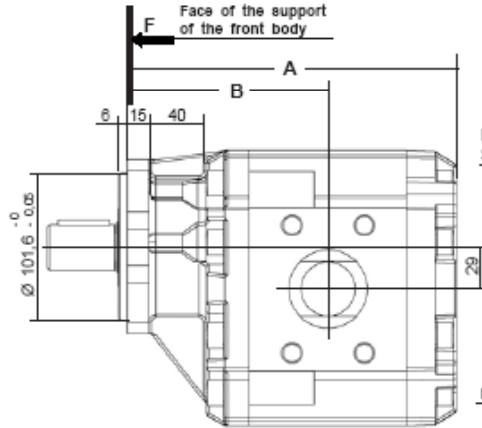
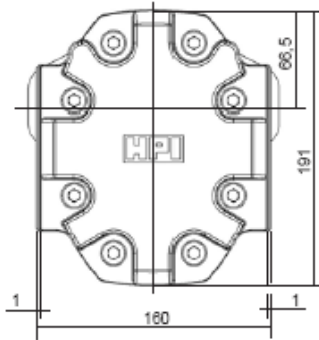


SERIES 5 TYPE AAP



P II Sign **AA** **P 5** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
043 - 052 - 062 - 072	230	139,7
083 - 093 - 103	242	146
125 - 140 - 153	263,2	156,5

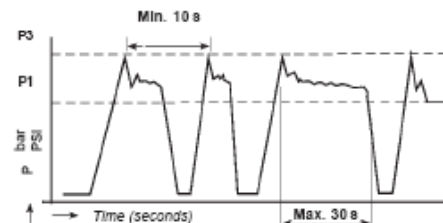
Seal kits:
 Nitrile: **K5501200 + K5502240**
 Viton: **K5501210 + K5502250**
 (For the manufacturings from september 1981)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM l / min	at Maxi speed l / min			
5043	43,06	300	4350	255	3700	3000	64,59	129	8,44	80,55	14,2
5052	52,91	300	4350	255	3700	3000	79,36	158,5	10,37	98,97	14,2
5062	62,75	300	4350	255	3700	3000	94,12	188	12,30	117,38	14,4
5072	72,59	300	4350	255	3700	3000	108,88	217,5	14,23	135,79	14,6
5083	83,67	280	4060	240	3480	2700	125,50	226	16,41	156,51	15,1
5093	93,51	250	3625	210	3045	2700	140,26	252,5	18,34	174,92	15,2
5103	103,3	250	3625	210	3045	2700	154,95	279	20,25	193,23	15,2
5125	125,5	250	3625	210	3045	2600	188,25	326	24,61	234,76	15,7
5140	140,2	250	3625	210	3045	2500	210,30	350,5	27,49	262,26	15,7
5153	153	250	3625	210	3045	2400	229,50	367,5	30	286,20	16

P1 Maximum pressure in continuous duty.

Maximum pressure ⇒

P3 Allowable peak pressure.

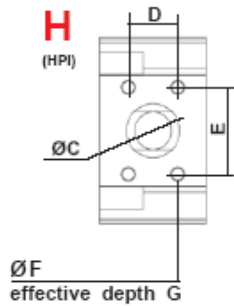


Consult us for availability



SERIES 5 TYPE AAP

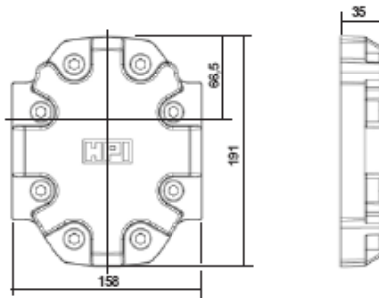
CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 RPM)		
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)	
5043 to 5072	55	50,8	89	M14	25	38	35,6	69,8	M14	25	5043	1" 1/4 BSP N: 3.550026 V: 3.550397	3/4" BSP N: 3.550022 V: 3.550392
											5052	1" 1/2 BSP N: 3.550027 V: 3.550398	1" BSP N: 3.550023 V: 3.550393
											5062	1" 1/2 BSP N: 3.550027 V: 3.550398	1" BSP N: 3.550023 V: 3.550393
5083 to 5153	65	50,8	89	M14	25	38	35,6	69,8	M14	25	5072	1" 1/2 BSP N: 3.550027 V: 3.550398	1" BSP N: 3.550023 V: 3.550393
											5083	1" 1/2 BSP N: 3.550027 V: 3.550398	1" BSP N: 3.550023 V: 3.550393
											5093	1" 1/2 BSP N: 3.550027 V: 3.550398	1" 1/4 Gaz N: 3.550026 V: 3.550397
											5103	2" BSP N: 3.550028 V: 3.5510399	1" 1/4 BSP N: 3.550026 V: 3.550397
											5125 5140 5153	2" 1/2 BSP N: 3.550034 V: 3.550400	1" 1/4 BSP N: 3.550026 V: 3.550397

REAR BODY

L Standard



DRIVING SHAFT (FLAT FRONT BODY)

Tapered

10

Straight keyed

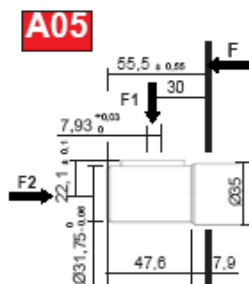
20

Splined

30

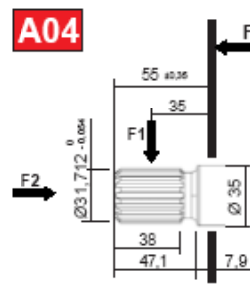
Tang

40



F1 = 150 daN
F2 = 50 daN

Maxi transmissible torque
430 N.m



F1 = 150 daN
F2 = 50 daN

Involute spline to SAE
14 teeth - 1" 1/4
Diametral Pitch 16/32
30° Pressure angle
Maxi transmissible torque
690 N.m

Consult us for availability

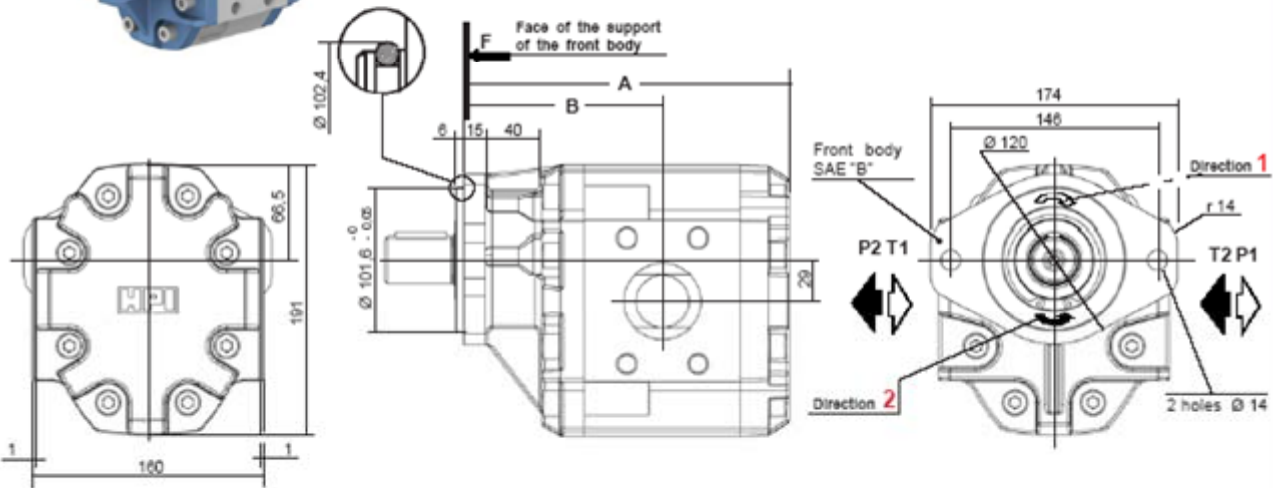


SERIES 5 TYPE AAR



P II Sign **AA** **R** **5** VI Sign **HL** IX Sign X Sign XI Sign XII Sign

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



CHOICE of the Capacity			Dimensions	
	A	B	A	B
043 052 062 072	230	139,7		
083 093 103	242	146		
125 140 153	263,2	156,5		

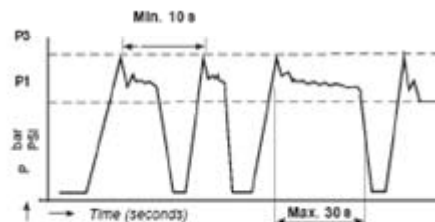
Seal kit:
 Nitrile: **K5501200 + K5502240**
 Viton: **K5501210 + K5502250**
 (For the manufacturings from september 1991)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM l / min	at Maxi speed l / min			
5043	43,06	300	4350	255	3700	3000	64,59	129	8,44	80,55	14,2
5052	52,91	300	4350	255	3700	3000	79,36	158,5	10,37	98,97	14,2
5062	62,75	300	4350	255	3700	3000	94,12	188	12,30	117,38	14,4
5072	72,59	300	4350	255	3700	3000	108,88	217,5	14,23	135,79	14,6
5083	83,67	280	4060	240	3480	2700	125,50	226	16,41	156,51	15,1
5093	93,51	250	3625	210	3045	2700	140,26	252,5	18,34	174,92	15,2
5103	103,3	250	3625	210	3045	2700	154,95	279	20,25	193,23	15,2
5125	125,5	250	3625	210	3045	2600	188,25	326	24,61	234,76	15,7
5140	140,2	250	3625	210	3045	2500	210,30	350,5	27,49	262,26	15,7
5153	153	250	3625	210	3045	2400	229,50	367,5	30	286,20	16

P1 Maximum pressure in continuous duty.

Maximum pressure → P3

P3 Allowable peak pressure.

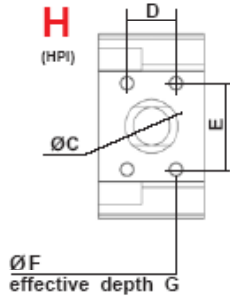


 Consult us for availability



SERIES 5 TYPE AAR

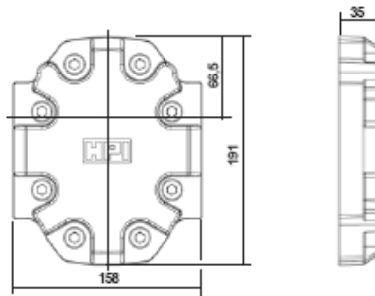
CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 RPM)		
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)	
	5043 to 5072	55	50,8	89	M14	25	38	35,6	69,8	M14	25	5043 1" 1/4 BSP N: 3.550026 V: 3.550397	3/4" BSP N: 3.550022 V: 3.550392
5083 to 5153	65	50,8	89	M14	25	38	35,6	69,8	M14	25	5052 5062 1" 1/2 BSP N: 3.550027 V: 3.550398	1" BSP N: 3.550023 V: 3.550393	
											5072 1" 1/2 BSP N: 3.550027 V: 3.550398	1" BSP N: 3.550023 V: 3.550393	
											5083 1" 1/2 BSP N: 3.550027 V: 3.550398	1" BSP N: 3.550023 V: 3.550393	
											5093 5103 1" 1/2 BSP N: 3.550027 V: 3.550398	1" 1/4 G82 N: 3.550026 V: 3.550397	
											5125 5140 2" BSP N: 3.550028 V: 3.5510399	1" 1/4 BSP N: 3.550026 V: 3.550397	
5153 2" 1/2 BSP N: 3.550034 V: 3.550400	1" 1/4 BSP N: 3.550026 V: 3.550397												

REAR BODY

L Standard



DRIVING SHAFT (FLAT FRONT BODY)

Tapered	Straight keyed	Splined	Tang
10	20	30	40
	<p>A05</p> <p>F1 = 150 daN F2 = 50 daN</p> <p><u>Maxi transmissible torque</u> 430 N.m</p>	<p>A04</p> <p>F1 = 150 daN F2 = 50 daN</p> <p>Involute epiline to SAE 14 teeth - 1" 1/4 Diametral Pitch 16/32 30° Pressure angle</p> <p><u>Maxi transmissible torque</u> 690 N.m</p>	

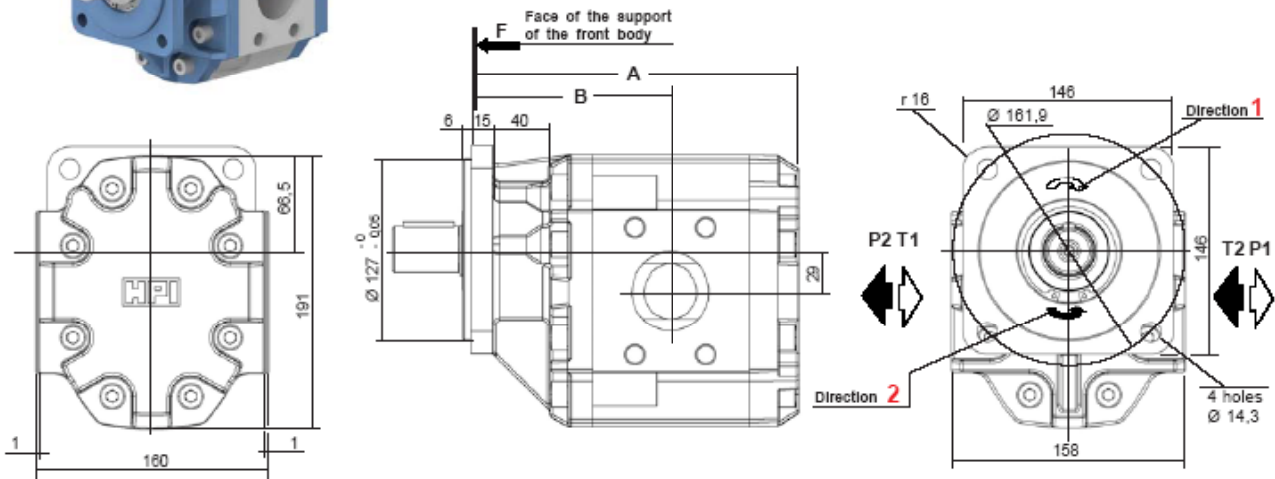
Consult us for availability

SERIES 5 TYPE ADP



P **II** **AD** **P** **5** **VI** **H** **L** **IX** **X** **XI** **XII**
 Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
043 - 052 - 062 - 072	230	139,7
083 - 093 - 103	242	146
125 - 140 - 153	263,2	156,5

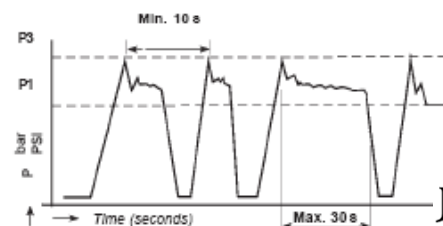
Seal kits:
 Nitrile: **K5501200 + K5502240**
 Viton: **K5501210 + K5502250**
 (For the manufacturings from september 1981)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM l / min	at Maxi speed l / min			
5043	43,06	300	4350	255	3700	3000	64,59	129	8,44	80,55	14,2
5052	52,91	300	4350	255	3700	3000	79,36	158,5	10,37	98,97	14,2
5062	62,75	300	4350	255	3700	3000	94,12	188	12,30	117,38	14,4
5072	72,59	300	4350	255	3700	3000	108,88	217,5	14,23	135,79	14,6
5083	83,67	280	4060	240	3480	2700	125,50	226	16,41	156,51	15,1
5093	93,51	250	3625	210	3045	2700	140,26	252,5	18,34	174,92	15,2
5103	103,3	250	3625	210	3045	2700	154,95	279	20,25	193,23	15,2
5125	125,5	250	3625	210	3045	2600	188,25	326	24,61	234,76	15,7
5140	140,2	250	3625	210	3045	2500	210,30	350,5	27,49	262,26	15,7
5153	153	250	3625	210	3045	2400	229,50	367,5	30	286,20	16

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

P3 Allowable peak pressure.

Maximum pressure \Rightarrow

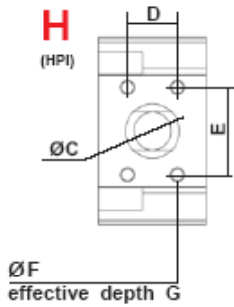


Consult us for availability



SERIES 5 TYPE ADP

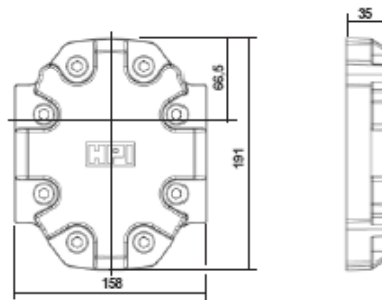
CHOICE of the IMPLANTATIONS of PORTS and RECOMMENDED FLANGES



Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 RPM)		
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)	
5043 to 5072	55	50,8	89	M14	25	38	35,6	69,8	M14	25	5043	1" 1/4 BSP N: 3.550026 V: 3.550397	3/4" BSP N: 3.550022 V: 3.550392
											5052 5062	1" 1/2 BSP N: 3.550027 V: 3.550398	1" BSP N: 3.550023 V: 3.550393
											5072	1" 1/2 BSP N: 3.550027 V: 3.550398	1" BSP N: 3.550023 V: 3.550393
5083 to 5153	65	50,8	89	M14	25	38	35,6	69,8	M14	25	5083	1" 1/2 BSP N: 3.550027 V: 3.550398	1" BSP N: 3.550023 V: 3.550393
											5093 5103	1" 1/2 BSP N: 3.550027 V: 3.550398	1" 1/4 Gaz N: 3.550026 V: 3.550397
											5125 5140	2" BSP N: 3.550028 V: 3.5510399	1" 1/4 BSP N: 3.550026 V: 3.550397
											5153	2" 1/2 BSP N: 3.550034 V: 3.550400	1" 1/4 BSP N: 3.550026 V: 3.550397

REAR BODY

L Standard



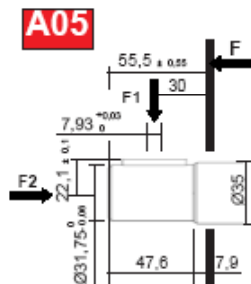
DRIVING SHAFT (FLAT FRONT BODY)

Tapered
10

Straight keyed
20

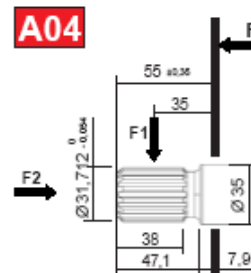
Splined
30

Tang
40



F1 = 150 daN
F2 = 50 daN

Maxi transmissible torque
430 N.m



F1 = 150 daN
F2 = 50 daN

Involute spline to SAE
14 teeth - 1" 1/4
Diametral Pitch 16/32
30° Pressure angle
Maxi transmissible torque
690 N.m

Consult us for availability



PUMPS PRESENTATION
SERIES 4



F.T 40 1417

- FLAT FRONT BODY

PUMP

CBN



F.T 40 1416

PUMP

CBK



F.T 40 1419


- THICK FRONT BODY

PUMP

ADP



F.T 40 1418

 Consult us for availability

JTEKT


MAIN CHARACTERISTICS PUMPS SERIES 4

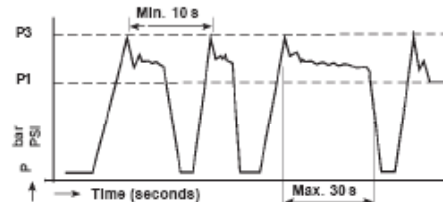
MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM l / min	at Maxi speed l / min			
4075	075	200	2900	170	2465	2500	112,5	187,5	19,37	141	17
4110	110	200	2900	170	2465	2500	165	275	28,42	206	17,2
4150	150	200	2900	170	2465	2500	225	375	28,60	281	17,4
4175	175	175	2625	150	2175	2500	262,5	437,5	34,31	327,35	19
4212	212	150	2175	130	1885	2500	318	530	41,57	396,56	19,4
4250	250	125	1812	105	1522	2000	375	500	49,02	467,65	20

The pump can only run in one way rotation (Precise the direction of rotation on order).
 The working cycles hereunder are possible with hydraulic mineral oil for viscosities between 12 and 150 cSt (65,2 and 700 SUS).
 The minimum viscosity of 12 cSt (65,2 SUS) is available for a maximum temperature in the hydraulic circuit .
 Working temperature: - 20 °C (4 °F) to + 80 °C (176 °F) (140 °C (284 °F) with Viton shaft seal).
 Full flow filtration: 10 to 15 microns at the pressure port of the pump or on the return circuit.
 Filtration on the suction side: 125 microns.
 Pressure at the inlet of the pump:
 - Minimum 0,7 bar absolute (Maxi depressure 300 millibar with regard to the air pressure).
 - Maximum 2 bar absolute or 1 bar over the air pressure.
 The hereabove characteristics concern the pumps driven by elastic couplings perfectly aligned without any external radial or axial force.
 For any other coupling, see technical data sheet F.T R 0009.
 For use at maximum working conditions and/or intensive cycles, thanks to consult our technical sales service for validation.

P1 Maximum pressure in continuous duty.

Maximum Pressure ⇒

P3 Allowable peack pressure.

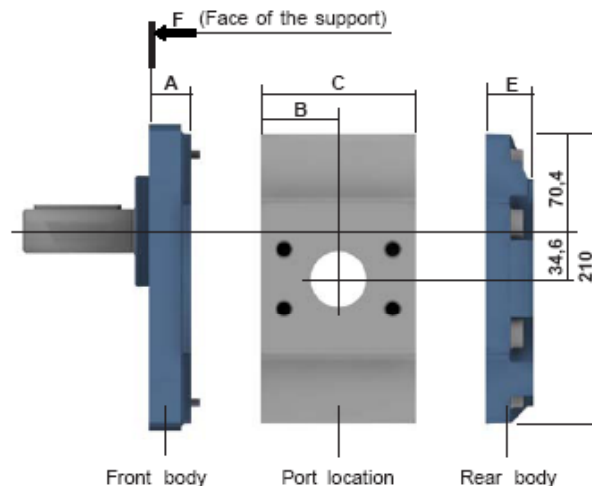


FLAT FRONT BODY

Front body: A
CBN / CBK 30

Port location (capacity):	B	C
4075 - 4110 - 4150	55,5	111
4175 - 4212 - 4250	69,5	139,2

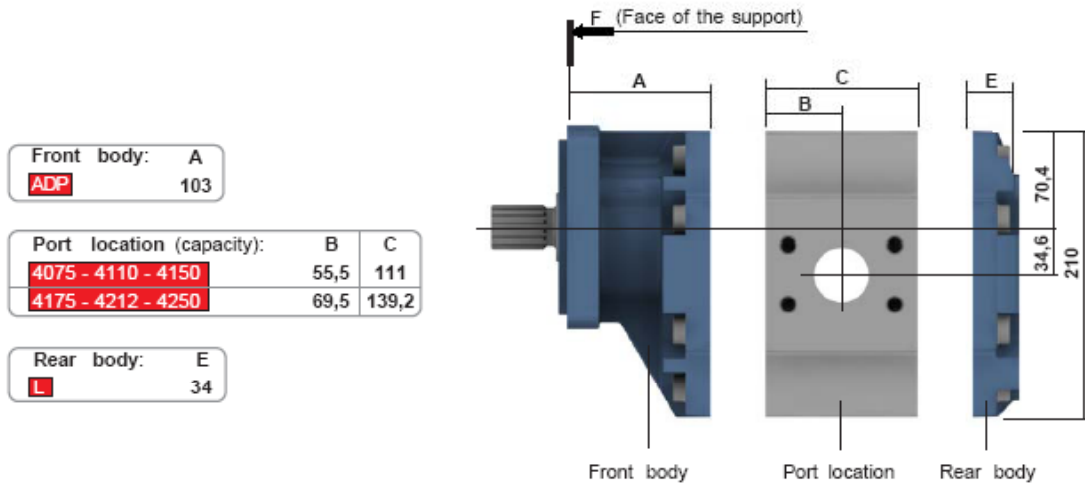
Rear body: E
L 34



Consult us for availability

GENERAL DIMENSIONS AND AVAILABILITIES PUMPS SERIES 4

THICK FRONT BODY



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

DIRECTION of ROTATION (II Sign)	FLAT / THICK 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)	
					STRAIGHT KEYED	SPLINED
P1 P2			H	L	20	30

FLAT FRONT BODY		CBN		4075 4110 4150 4175 4212 4250		20 C06		30 C06	
X	X								

THICK FRONT BODY		ADP		4075 4110 4150 4175 4212 4250				30 A07	
X	X								

LEGENDES

DIRECTION of ROTATION

P1 = Clockwise
 P2 = Anti clockwise

FRONT BODIES

CB* = Fixing French
 AD* = Fixing SAE and ISO

PORT LOCATION

H = HPI

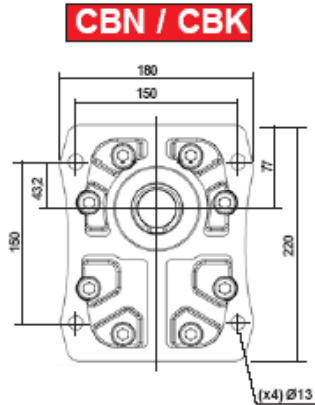
REAR BODY

L = Standard

■ Consult us for availability

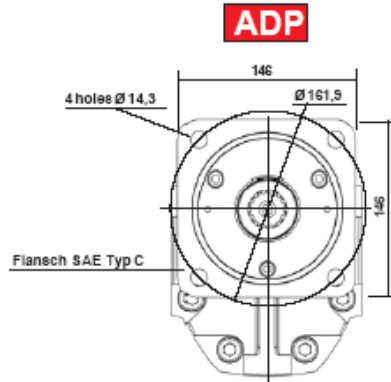


FRONT BODIES



Centering: $\varnothing 80 \begin{smallmatrix} -0,03 \\ -0,06 \end{smallmatrix}$
Thickness: 10

CBN F.T 40 1416
CBK F.T 40 1419

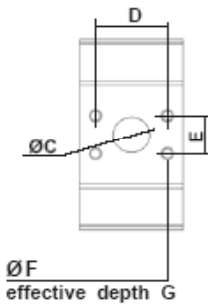


Centering: $\varnothing 127 \begin{smallmatrix} -0,05 \\ -0,05 \end{smallmatrix}$
Thickness: 6,35

ADP F.T 40 418

CHOICE of IMPLANTATIONS of PORTS and of RECOMMENDED FLANGES

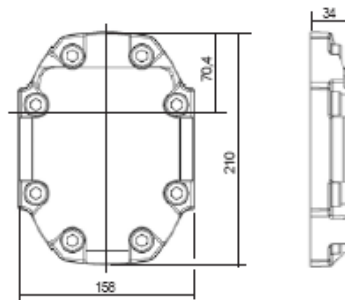
H
(HPI)



Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70		
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)		
											INLET (T)	OUTLET (P)	
4075 to 4150	60	77,8	42,6	M12	45	40	77,8	42,9	M12	22	4075	1" 1/4 BSP N: 4.500438 V: 4.505071	1" BSP N: 4.500437 V: 4.505070
											4110	1" 1/2 BSP N: 4.500439 V: 4.504871	1" 1/4 BSP N: 4.500438 V: 4.505071
											4150	2" BSP N: 4.500440 V: 4.505072	1" 1/2 BSP N: 4.500439 V: 4.504871
4175 to 4250	70	89	50,8	M12	45	38	77,8	42,9	M12	22	4175	2" BSP N: 4.500440 V: 4.505072	1" 1/2 BSP N: 4.500439 V: 4.504871
											4212	2" 1/2 BSP N: 4.500443 V: 4.505074	1" 1/2 BSP N: 4.500439 V: 4.504871
											4250	2" 1/2 BSP N: 4.500443 V: 4.505074	2" BSP N: 4.500440 V: 4.505072

CORPS ARRIERE

L
Standard



 Consult us for availability



DRIVING SHAFTS

Tapered	Straight keyed	Splined	Tang
10	20	30	40

C06

Couple maxi transmissible
700 N.m

C06

Involute spline shaft
30 x 10 x 2,5
to standard NF E 22 141 - BNA 455
Spigot on free flanks

Maxi transmissible torque
140 N.m

A07

F1 = 280 daN
F2 = 100 daN

Involute spline to SAE
Standard - 14 teeth 1^o 1/4 -
Pitch 16/32 - Flat root
30° Pressure angle

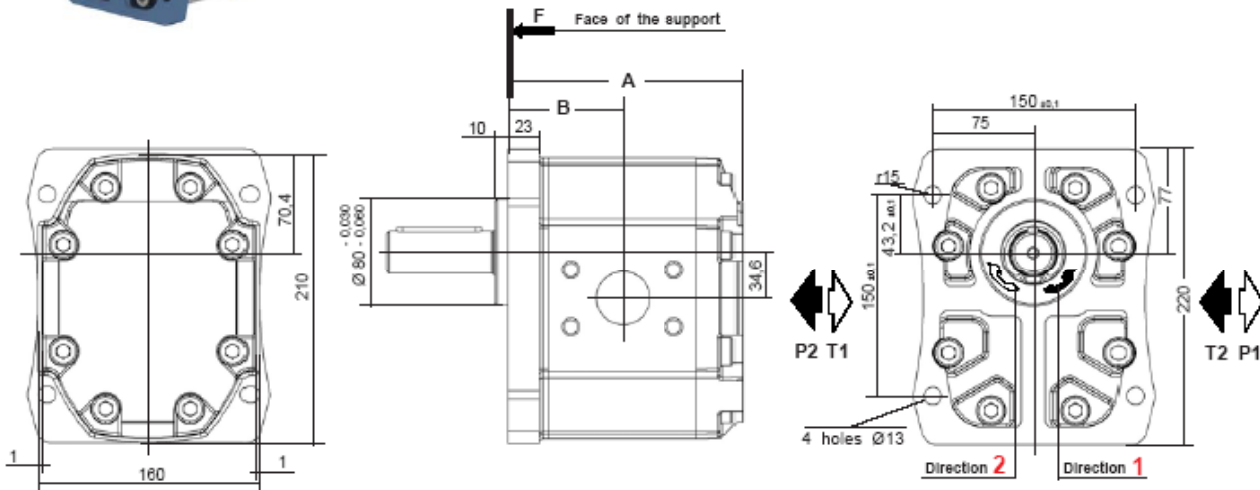
Maxi transmissible torque
700 N.m

SERIES 4 TYPE CBN



P **II Sign** **CB N 4** **VI Sign** **HL** **IX Sign** **X Sign** **IXI Sign** **XII Sign**

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

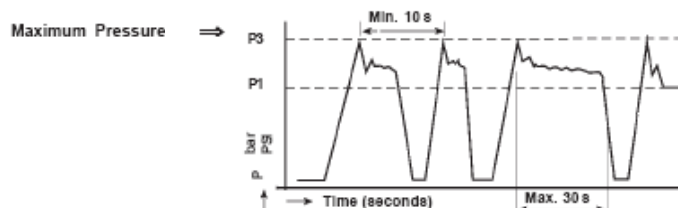


CHOICE of the Capacity	Dimensions	
	A	B
075 - 110 - 150	175	85,5
175 - 212 - 250	203	99,5

Seal kits:
 Nitrile: **K5008300**
 Viton: **K5015730**
 (For the manufacturings from 1978)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM l / min	at Maxi speed l / min			
4075	075	200	2900	170	2465	2500	112,5	187,5	19,37	141	17
4110	110	200	2900	170	2465	2500	165	275	28,42	206	17,2
4150	150	200	2900	170	2465	2500	225	375	28,60	281	17,4
4175	175	175	2625	150	2175	2500	262,5	437,5	34,31	327,35	19
4212	212	150	2175	130	1885	2500	318	530	41,57	396,56	19,4
4250	250	125	1812	105	1522	2000	375	500	49,02	467,65	20

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



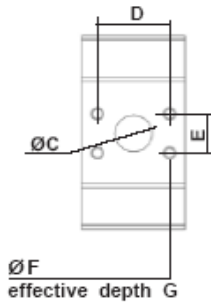
Consult us for availability



SERIES 4 TYPE CBN

CHOICE of the IMPLANTATION of PORTS and RECOMMENDED FLANGES

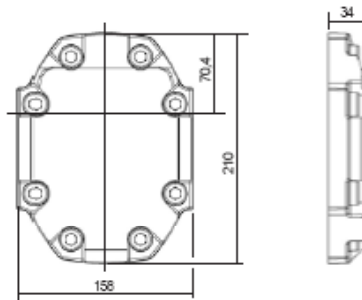
H
(HPI)



Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)		
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)	
4075 to 4150	60	77,8	42,6	M12	45	40	77,8	42,9	M12	22	4075	1" 1/4 BSP N: 4.500438 V: 4.505071	1" BSP N: 4.500437 V: 4.505070
											4110	1" 1/2 BSP N: 4.500439 V: 4.504871	1" 1/4 BSP N: 4.500438 V: 4.505071
											4150	2" BSP N: 4.500440 V: 4.505072	1" 1/2 BSP N: 4.500439 V: 4.504871
4175 to 4250	70	89	50,8	M12	45	38	77,8	42,9	M12	22	4175	2" BSP N: 4.500440 V: 4.505072	1" 1/2 BSP N: 4.500439 V: 4.504871
											4212	2" 1/2 BSP N: 4.500443 V: 4.505074	1" 1/2 BSP N: 4.500439 V: 4.504871
											4250	2" 1/2 BSP N: 4.500443 V: 4.505074	2" BSP N: 4.500440 V: 4.505072

REAR BODY

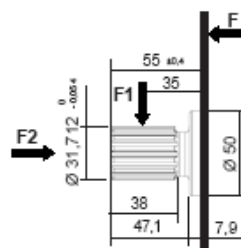
L
Standard



DRIVING SHAFTS

Tapered	Straight keyed	Splined	Tang
10	20	30	40

A07



F1 = 280 daN
F2 = 100 daN

Involute spline to SAE
Standard - 14 teeth - 1" 1/4 SAE
Pitch 16/32 - Flat root
30° Pressure angle

Maxi transmissible torque
700 N.m



Consult us for availability

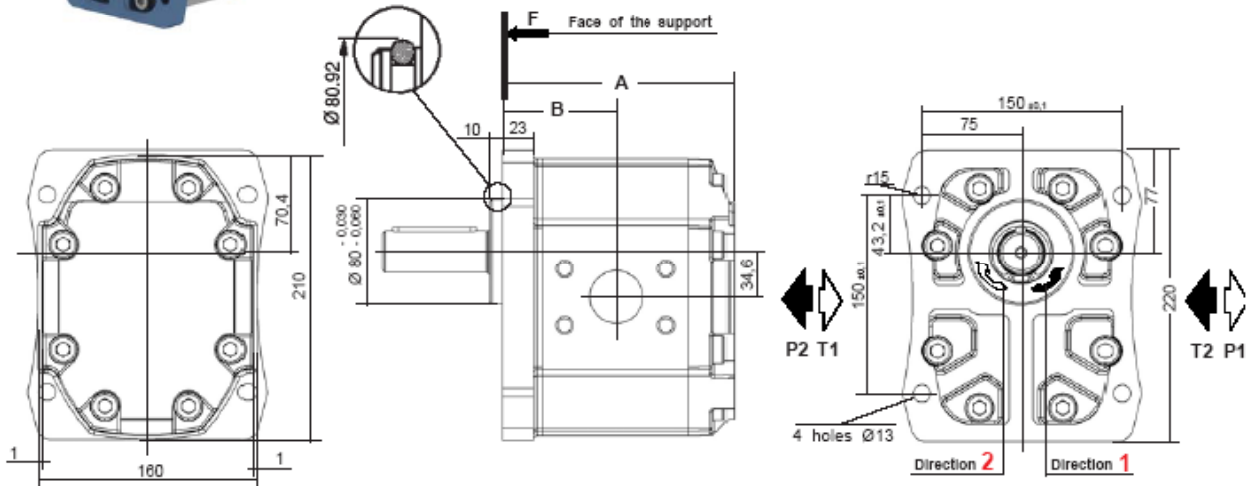


SERIES 4 TYPE CBK



P II Sign **CBK** **4** VI Sign **HL** IX Sign X Sign |XI| Sign XII Sign

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



CHOICE of the Capacity	Dimensions	
	A	B
075 - 110 - 150	175	85,5
175 - 212 - 250	203	99,5

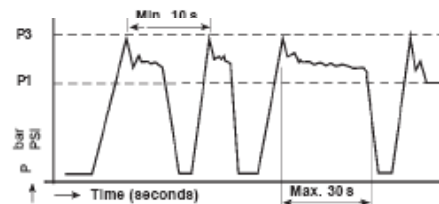
Seal kits:
 Nitrile: **K5008900 + K101517**
 Viton: **K5015730 + K104406**
 (For the manufacturings from 1978)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM l / min	at Maxi speed l / min			
4075	075	200	2900	170	2465	2500	112,5	187,5	19,37	141	17
4110	110	200	2900	170	2465	2500	165	275	28,42	206	17,2
4150	150	200	2900	170	2465	2500	225	375	28,60	281	17,4
4175	175	175	2625	150	2175	2500	262,5	437,5	34,31	327,35	19
4212	212	150	2175	130	1885	2500	318	530	41,57	396,56	19,4
4250	250	125	1812	105	1522	2000	375	500	49,02	467,65	20

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure →



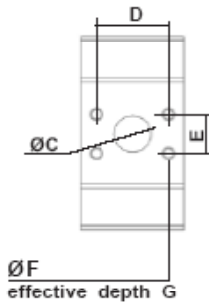
 Consult us for availability



SERIES 4 TYPE CBK

CHOICE of the IMPLANTATION of PORTS and RECOMMENDED FLANGES

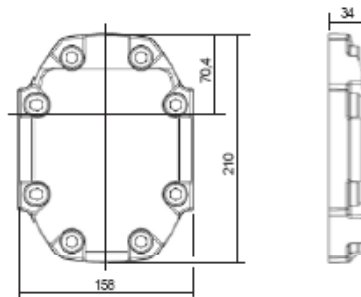
H
(HPI)



Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70 Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)		
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	INLET (T)	OUTLET (P)	
4075 to 4150	60	77,8	42,6	M12	45	40	77,8	42,9	M12	22	4075	1" 1/4 BSP N: 4.500438 V: 4.505071	1" BSP N: 4.500437 V: 4.505070
											4110	1" 1/2 BSP N: 4.500439 V: 4.504871	1" 1/4 BSP N: 4.500438 V: 4.505071
											4150	2" BSP N: 4.500440 V: 4.505072	1" 1/2 BSP N: 4.500439 V: 4.504871
4175 to 4250	70	89	50,8	M12	45	38	77,8	42,9	M12	22	4175	2" BSP N: 4.500440 V: 4.505072	1" 1/2 BSP N: 4.500439 V: 4.504871
											4212	2" 1/2 BSP N: 4.500443 V: 4.505074	1" 1/2 BSP N: 4.500439 V: 4.504871
											4250	2" 1/2 BSP N: 4.500443 V: 4.505074	2" BSP N: 4.500440 V: 4.505072

REAR BODY

L
Standard



DRIVING SHAFTS

Tapered

10

Straight keyed

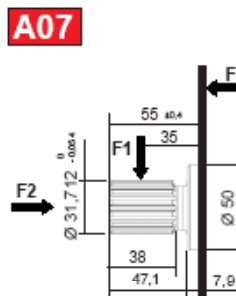
20

Splined

30

Tang

40



F1 = 280 daN
F2 = 100 daN

Involute spline to SAE
Standard - 14 teeth - 1" 1/4 SAE
Pitch 16 / 32 - Flat root
30° Pressure angle
Maxi transmissible torque
700 N.m

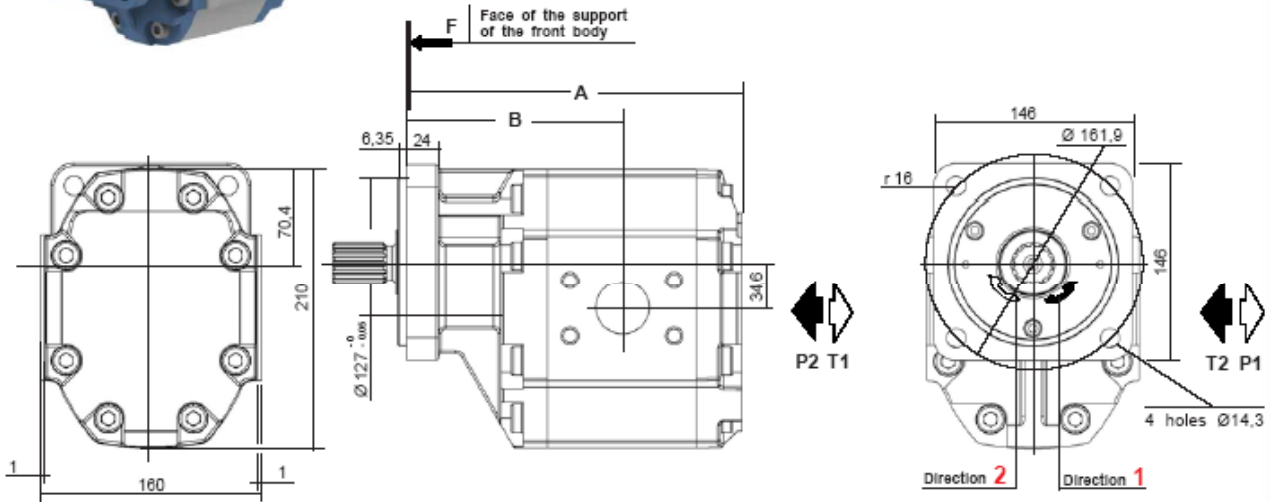
Consult us for availability

JTEKT
HPI

SERIES 4 TYPE ADP

P **II Sign** **AD P** **4** **VI Sign** **HL** **IX Sign** **X Sign** **XI Sign** **XII Sign**

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



CHOICE of the Capacity	Dimensions	
	A	B
075 - 110 - 150	248	158,5
175 - 212 - 250	276	174,5

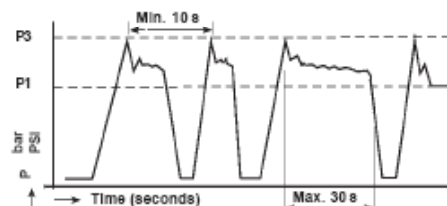
Seal kits:
 Nitrile: **K5044880 + K5008910**
 Viton: **K5044890 + K5044840**
 (From manufacturings from 1978)

MODEL	Capacity cc / rev	PEACK PRESSURE		MAX WORKING PRESSURE		Maxi speed RPM	NOMINAL FLOW		Input power (kW) at 1000 RPM and 100 bar	Input torque at 100 bar and N.m	Approx. weight Kg
		bar	PSI	bar	PSI		at 1500 RPM l / min	at Maxi speed l / min			
4075	075	200	2900	170	2465	2500	112,5	187,5	19,37	141	19,5
4110	110	200	2900	170	2465	2500	165	275	28,42	206	19,7
4150	150	200	2900	170	2465	2500	225	375	28,60	281	20
4175	175	175	2625	150	2175	2500	262,5	437,5	34,31	327,35	21,5
4212	212	150	2175	130	1885	2500	318	530	41,57	396,56	22
4250	250	125	1812	105	1522	2000	375	500	49,02	467,65	22,5

P1 Maximum pressure in continuous duty.

P3 Allowable peak pressure.

Maximum Pressure →



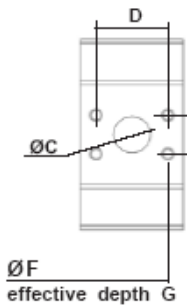
Consult us for availability



SERIES 4 TYPE ADP

CHOICE of the IMPLANTATION of PORTS and RECOMMENDED FLANGES

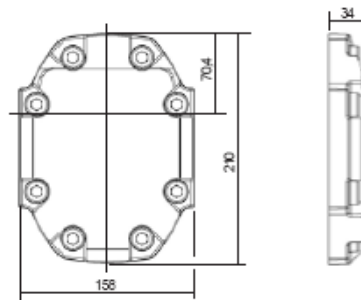
H
(HPI)



Capacity	INLET (T)					OUTLET (P)					CATALOGUE N° 70		
	ØC	D	E	ØF	G	ØC	D	E	ØF	G	Ref. of RECOMMENDED FLANGES (for speed 1500 rev / min)		
											INLET (T)	OUTLET (P)	
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											4110	1" 1/2 BSP N: 4.500439 V: 4.504871	1" 1/4 BSP N: 4.500438 V: 4.505071
											4150	2" BSP N: 4.500440 V: 4.505072	1" 1/2 BSP N: 4.500439 V: 4.504871
4175 to 4250	70	89	50,8	M12	45	38	77,8	42,9	M12	22	4175	2" BSP N: 4.500440 V: 4.505072	1" 1/2 BSP N: 4.500439 V: 4.504871
											4212	2" 1/2 BSP N: 4.500443 V: 4.505074	1" 1/2 BSP N: 4.500439 V: 4.504871
											4250	2" 1/2 BSP N: 4.500443 V: 4.505074	2" BSP N: 4.500440 V: 4.505072

REAR BODY

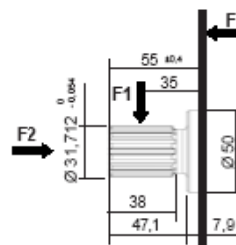
L
Standard



DRIVING SHAFTS

Tapered	Straight keyed	Splined	Tang
10	20	30	40

A07



F1 = 280 daN
F2 = 100 daN

Involute spline to SAE
Standard - 14 teeth - 1" 1/4 SAE
Pitch 16 / 32 - Flat root
30° Pressure angle

Maxi transmissible torque
700 N.m

Consult us for availability

JTEKT
HPI