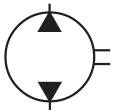


PISTON PUMP

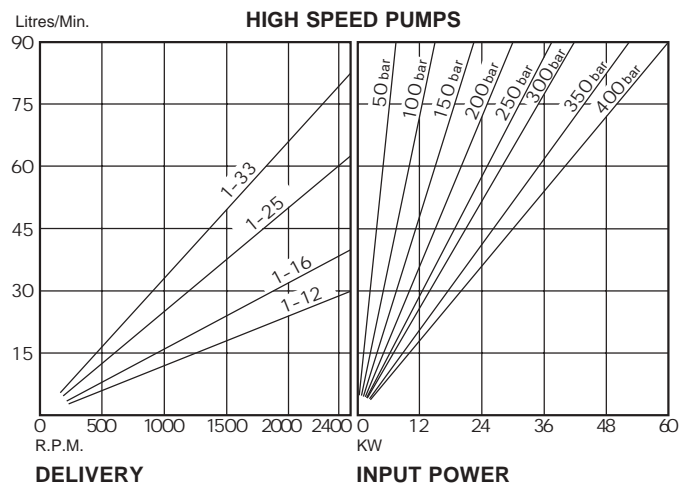
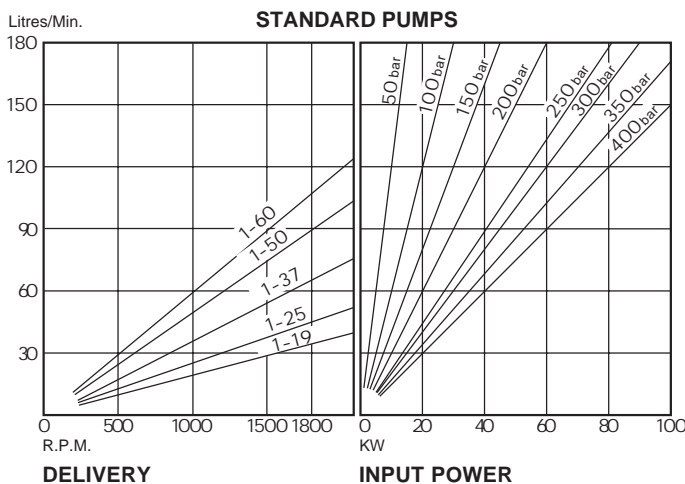
3.1.6.X.XXX.X.0.0

SERIES

P1



CODE	DESCRIP.	DISPLACEMENT		Max PRESSURE		Max SPEED R.P.M.	WEIGHT Kg.
		cm ³ /rev.	GMP (IMP)	Bar	PSI		
3.1.6.1.019.X.0.0	P1-19-6F/4D	19	4,2	350/400	5100/5800	1800	10/10,5
3.1.6.1.025.X.0.0	P1-25-6F/4D	25	5,5	350/400	5100/5800	1800	10/10,5
3.1.6.1.037.X.0.0	P1-37-6F/4D	37	9,1	350/400	5100/5800	1800	10/10,5
3.1.6.1.050.X.0.0	P1-50-6F/4D	50	11	350/400	5100/5800	1800	10/10,5
3.1.6.1.060.X.0.0	P1-60-6F/4D	60	13,2	300/350	4350/5100	1700	10/10,5
3.1.6.2.012.X.0.0	P1-12V-6F/4D	12	2,6	350/400	5100/5800	2400	10/10,5
3.1.6.2.016.X.0.0	P1-16V-6F/4D	16	3,5	350/400	5100/5800	2400	10/10,5
3.1.6.2.025.X.0.0	P1-25V-6F/4D	25	5,5	350/400	5100/5800	2400	10/10,5
3.1.6.2.033.X.0.0	P1-33V-6F/4D	33	7,3	350/400	5100/5800	2400	10/10,5



3.1.6.X.XXX.X.0.0

BASIC SERIAL NUMBER _____

_____ MOUNTING FLANGE

1 = 6 BOLT

2 = ISO 4 BOLT

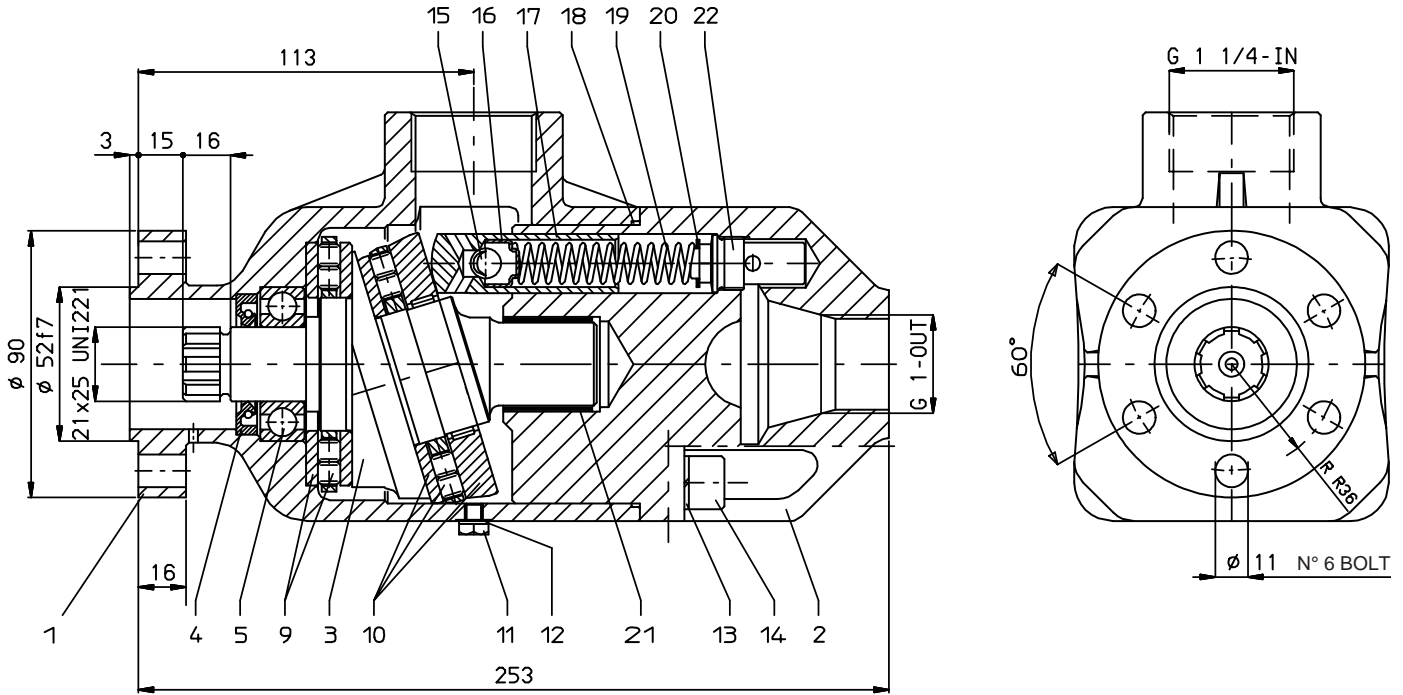
SERIES _____

_____ DISPLACEMENT

1 = STANDARD PUMP

2 = HIGH SPEED PUMP

VERSION 3.1.6.X.XXX.1.0.0 (6 BOLT)



REF.	CODE	DESCRIPTION	QT.																		
			3.1.6.1.019.1	3.1.6.1.025.1	3.1.6.1.037.1	3.1.6.1.050.1	3.1.6.1.060.1	3.1.6.2.012.1	3.1.6.2.016.1	3.1.6.2.025.1	3.1.6.2.033.1	3.1.6.1.019.2	3.1.6.1.025.2	3.1.6.1.037.2	3.1.6.1.050.2	3.1.6.1.060.2	3.1.6.2.012.2	3.1.6.2.016.2	3.1.6.2.025.2	3.1.6.2.033.2	
1	1.05.02.005.00	Pump housing with 6 bolt flange	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
	1.05.02.006.00	Pump housing with 4 bolt flange	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1
2	2.01.009.0000	3 bolt pump body assembly	1	-	-	-	-	1	-	-	-	1	-	-	-	-	-	1	-	-	-
	2.01.008.0000	4 bolt pump body assembly	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-
	2.01.007.0000	6 bolt pump body assembly	-	-	1	-	-	-	-	1	-	-	-	1	-	-	-	-	-	1	-
	2.01.006.0000	8 bolt pump body assembly	-	-	-	1	-	-	-	-	1	-	-	-	1	-	-	-	-	-	1
	2.01.013.0000	8 bolt pump body assembly	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
3	1.19.02.009.00	Drive shaft with 17° swash plate	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1.19.02.007.00	Drive shaft with 11° swash plate	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-
	1.19.02.010.00	Drive shaft with 17° swash plate	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-	-	-	-	-
	1.19.02.008.00	Drive shaft with 11° swash plate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1
4	0.08.01.012.00	Seal 25x47x7	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
5	0.10.01.001.00	Bearing 6205	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
6	0.08.01.013.00	Seal 35x52x7	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2
7	0.07.04.007.00	Circlip WR35	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1
8	0.10.08.003.00	Roller bearing NA 4907	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1
9	2.03.003.0000	Bearing P2-45/15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	2.03.004.0000	Bearing assembly	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	1.30.03.028.00	Bleeder screw	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

HYDRAULIC SYSTEM

OIL

Use exclusively good quality hydraulic oil with anti-foam, anti-emulsion and anti-wear additives. The following viscosities are recommended:

- cold climate 22 cSt
- temperate climate 37 cSt
- hot climate 46 cSt

FILTRATION

Suction filters should be avoided.

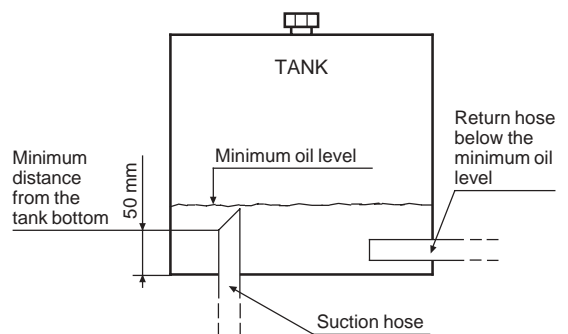
We suggest fitting the filter PZB p/nr. 2.30.003.0000 in the pressure port of the pump.

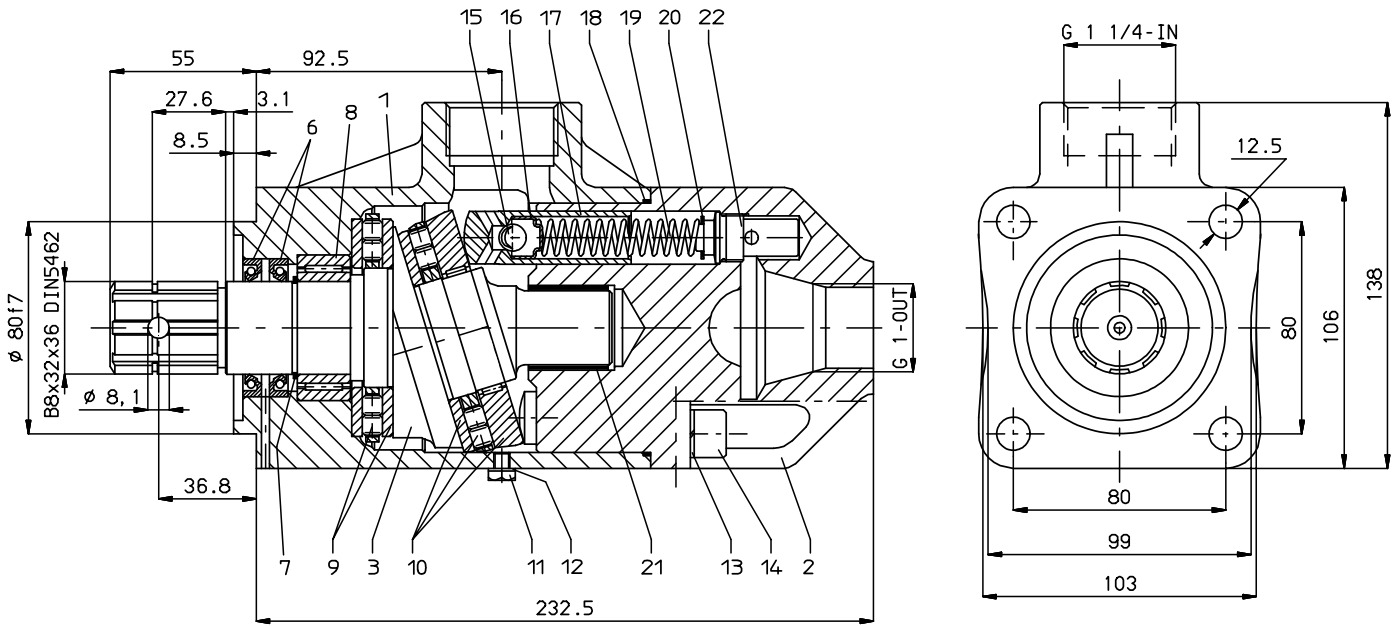
We recommend using a proper return line filter (25 micron for example).

TANK

The suction line should be approximately 50 mm above the tank floor and cut at an angle to increase the inlet section.

The return line should enter the tank well below the minimum oil level.





FLANGES FOR REMOTE TRANSMISSIONS

(See chart X group D)

REF.	CODE	DESCRIPTION	QT.																		
			3.1.6.1.019.1	3.1.6.1.025.1	3.1.6.1.037.1	3.1.6.1.050.1	3.1.6.1.060.1	3.1.6.2.012.1	3.1.6.2.016.1	3.1.6.2.025.1	3.1.6.2.033.1	3.1.6.1.019.2	3.1.6.1.025.2	3.1.6.1.037.2	3.1.6.1.050.2	3.1.6.1.060.2	3.1.6.2.012.2	3.1.6.2.016.2	3.1.6.2.025.2	3.1.6.2.033.2	
12	0.04.01.052.00	Lockwasher 6x10x1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13	0.04.08.002.00	Lockwasher 12,5 DIN 7980	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
14	0.01.03.008.00	Capscrew TCEI M12x35 UNI 5931 CL RES 8.8	4	4	4	4	-	4	4	4	4	4	4	4	-	4	4	4	4	4	
	0.01.03.055.00	Capscrew TCEI M12x35 UNI 5931 CL RES 12.9	-	-	-	-	4	-	-	-	-	-	-	-	4	-	-	-	-	-	
15	0.11.01.003.00	Ball 13/32"	3	4	6	8	-	3	4	6	8	3	4	6	8	-	3	4	6	8	
	0.11.01.015.00	Ball 7/16"	-	-	-	-	8	-	-	-	-	-	-	-	8	-	-	-	-	-	
16	1.24.02.030.00	Ball seat	3	4	6	8	8	3	4	6	8	3	4	6	8	8	3	4	6	8	
17	1.21.03.002.00	Piston	-	-	-	-	-	3	4	6	8	-	-	-	-	3	4	6	8	8	
	1.21.03.004.00	Piston D22	-	-	-	-	8	-	-	-	-	-	-	-	8	-	-	-	-	-	
	1.21.03.005.00	Piston D20	3	4	6	8	-	-	-	-	-	3	4	6	8	-	-	-	-	-	
18	0.08.02.001.00	O-Ring OR 2-43	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19	1.28.01.071.00	Coil spring	3	4	6	8	8	3	4	6	8	3	4	6	8	8	3	4	6	8	
20	1.27.01.002.00	Washer 16x10,5x1 mod 41/3	3	4	6	8	8	3	4	6	8	3	4	6	8	8	3	4	6	8	
PARTS INCLUDED IN KIT No. 2.01.XXX.0000																					
21	1.25.03.001.00	Bushing 54/46C/10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22	2.04.001.0000	Pressure valve P1-P2 45/22	3	4	6	8	8	3	4	6	8	3	4	6	8	8	3	4	6	8	

CLEANING THE HYDRAULIC CIRCUIT

We recommend that flushing of the system be carried out before operating a new system or after repairs.

Using the PZB Pressure Filter code 2.30.003.0000 is recommended for system protection.

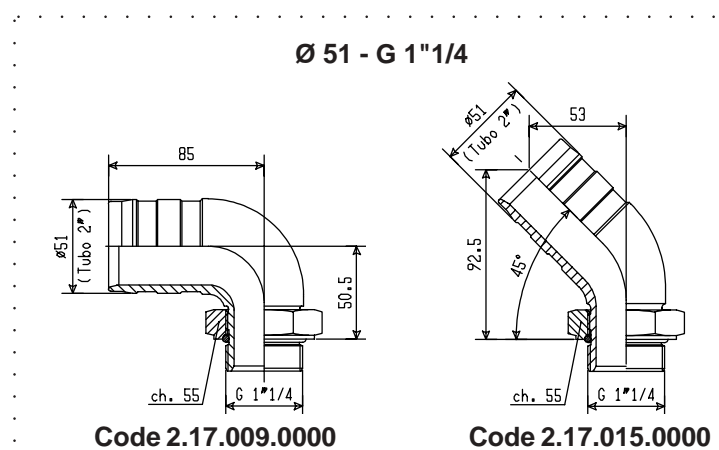
OPERATING TEMPERATURE

Oil temperature should be kept above -20°C and below 80°C.

SUCTION FITTINGS AND HOSES

PZB low restriction suction fittings, as listed below, are recommended for easy installation.

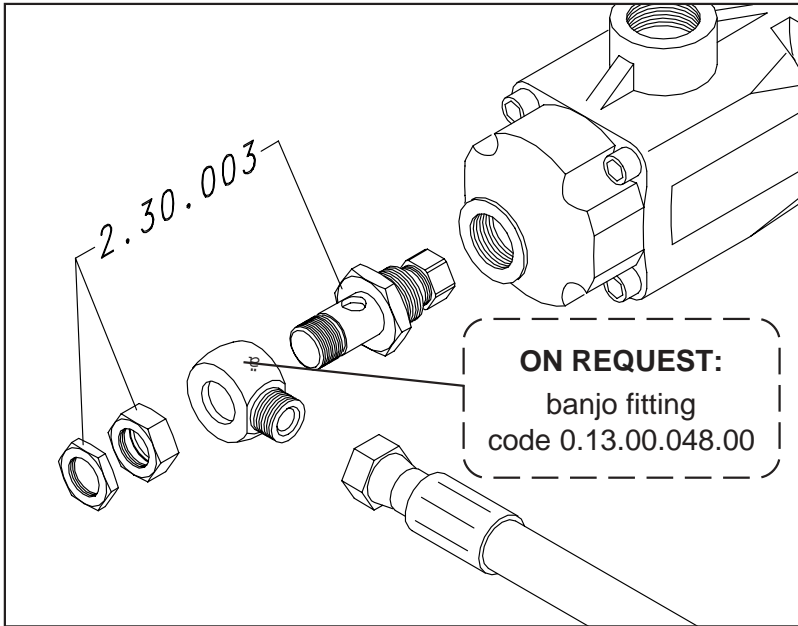
Properly sized suction hose and clips are available on request.



Code 2.17.009.0000

Code 2.17.015.0000

HIGH PRESSURE FILTER CODE 2.30.003.0000



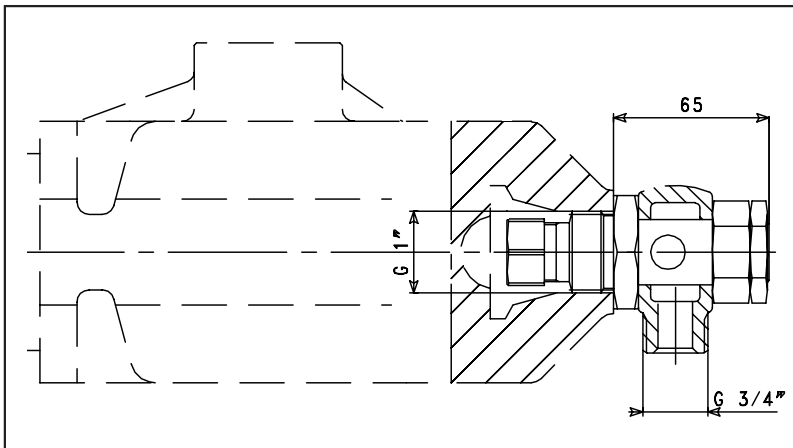
Designed to protect the hydraulic components from foreign matter (welding spatter, swarf, etc.) in the system.

It screws directly onto the pressure port of the PZB pump and is joined through a hose with a banjo fitting.

PATENT PENDING.

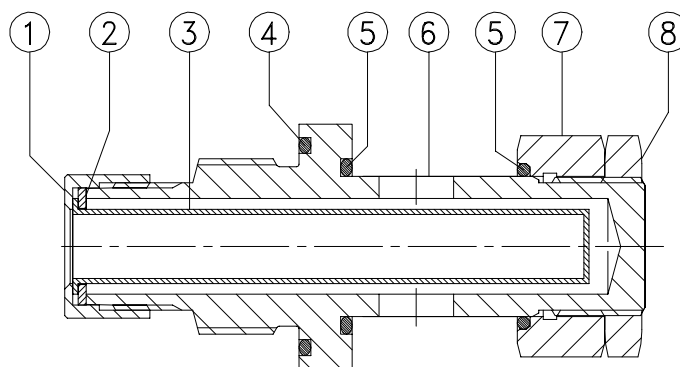
SPECIFICATIONS

Filtration capacity: $\cong 100 \mu$
 Flow: 180 lt./min.
 Max pressure: 400 bar



ATTENTION:

- it is necessary to clean the cartridge (item 3) after initial testing and after any fault rectification or replacement;
- it is advisable to inspect the filter cartridge every 300 hours;
- in the event of system problems i.e. vibration, pressure drop, overheating, noise, etc. check the filter cartridge for contamination.



REF.	CODE	DESCRIPTION	QT.
1	1.30.03.048.00	Plug M24x1,5	1
2	1.27.01.037.00	Washer 22x15x1,5	1
3	1.99.00.263.00	Filter Ø 14	1
4	0.08.02.102.00	O-Ring OR 3143	1
5	0.08.02.063.00	O-Ring OR 3106	2
6	1.10.02.059.00	Fitting	1
7	1.30.02.033.00	Hex nut M26x1,5	1
8	1.30.02.032.00	Lock nut M26x1,5	1
ON REQUEST: BANJO FITTING CODE 0.13.00.048.00			