

**GEAR PUMP**

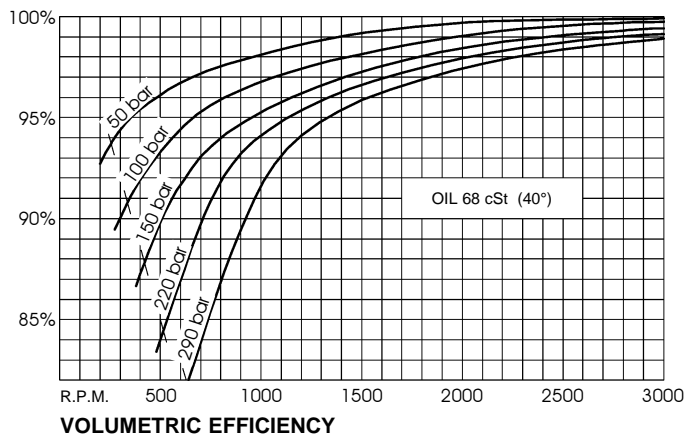
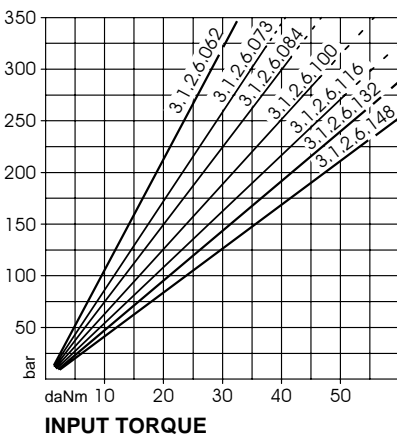
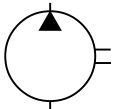
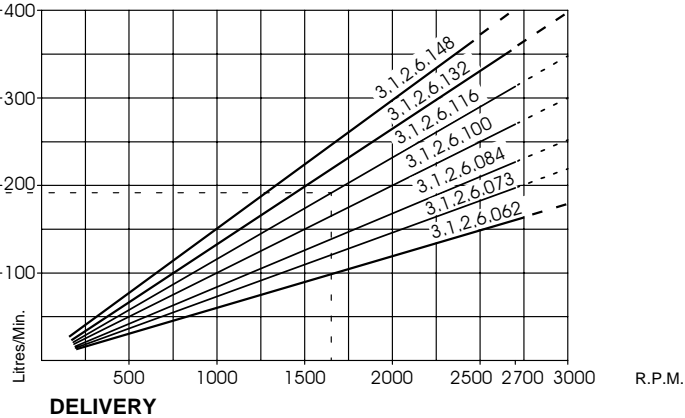
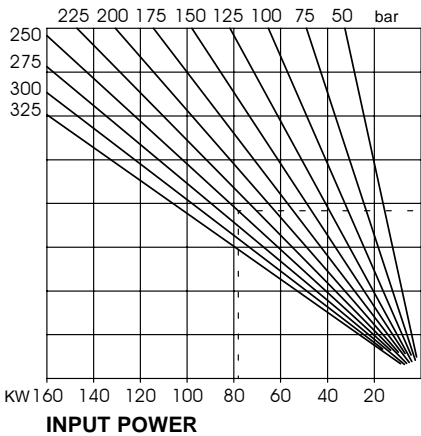
**3.1.2.6.**

**SERIES**

**ISO**



CODE	DESCR.	DISPLACEMENT		Max PRESSURE		Max SPEED R.P.M.	WEIGHT Kg.
		cm <sup>3</sup> /rev.	GMP (IMP)	Bar	PSI		
3.1.2.6.062.X.XX	ISO 62	62	13,6	300/330	4250/4700	2700	20,4
3.1.2.6.073.X.XX	ISO 73	73	16,1	290/320	4250/4700	2700	21,1
3.1.2.6.084.X.XX	ISO 84	84	18,5	270/310	4000/4550	2700	21,8
3.1.2.6.100.X.XX	ISO 100	100	22	260/290	3800/4250	2700	22,8
3.1.2.6.116.X.XX	ISO 116	116	25,5	250/280	3700/4100	2700	23,8
3.1.2.6.132.X.XX	ISO 132	132	29,1	230/270	3350/3900	2700	24,9
3.1.2.6.148.X.XX	ISO 148	148	32,6	190/230	2750/3350	2700	26



**3.1.2.6.XXX.X.XX**

BASIC SERIAL NUMBER

DISPLACEMENT

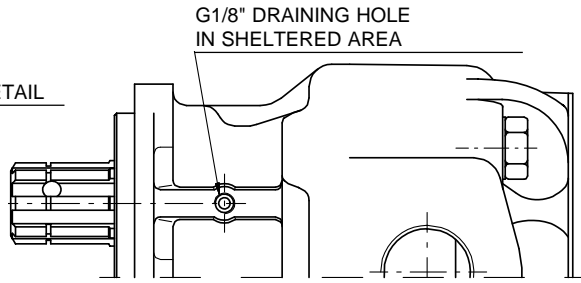
ROTATION

- 1** = ANTICLOCKWISE
- 2** = CLOCKWISE

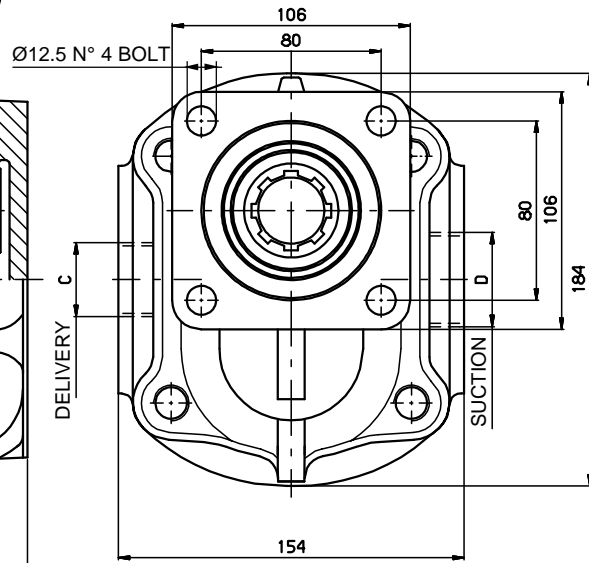
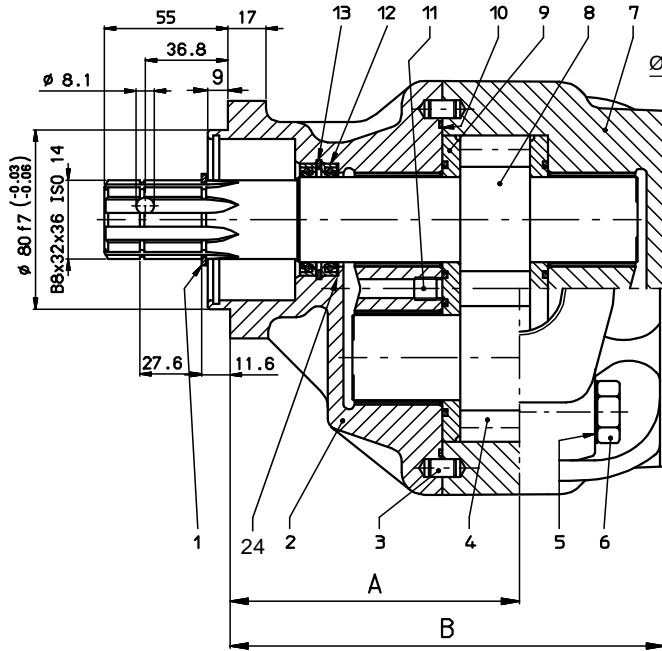
SPECIAL OPTIONS

- 00** = STANDARD OPTION
- 01** = TANDEM FITTING
- 02** = BEARING GEAR
- 07** = SIDE INLET - AXIAL OUTPUT
- 08** = TANDEM FITTING - AXIAL OUTPUT

PUMP IN DETAIL



CODE	DESCR.	DIMENSIONS			
		A	B	C	D
3.1.2.6.062.X.XX	ISO 62	122	186	G ¾"	G 1"
3.1.2.6.073.X.XX	ISO 73	126	190	G ¾"	G 1"
3.1.2.6.084.X.XX	ISO 84	130	194	G 1"	G 1¼"
3.1.2.6.100.X.XX	ISO 100	130	200	G 1"	G 1¼"
3.1.2.6.116.X.XX	ISO 116	133	206	G 1"	G 1¼"
3.1.2.6.132.X.XX	ISO 132	137,5	212	G 1"	G 1½"
3.1.2.6.148.X.XX	ISO 148	143,5	218	G 1"	G 1½"

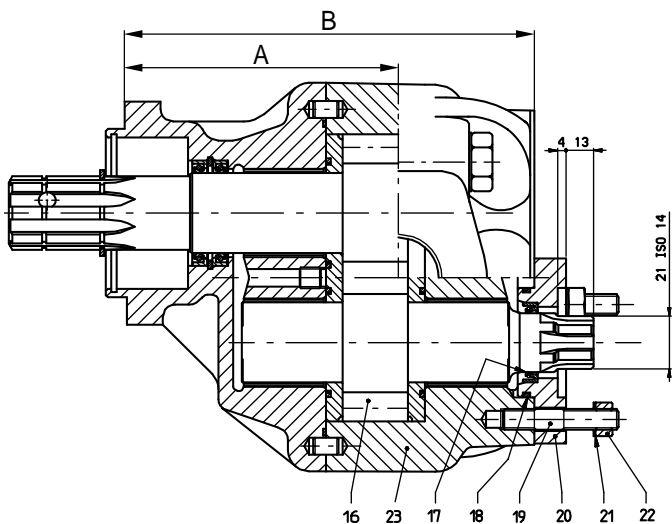


REF.	CODE	DESCRIPTION	QT.
1	0.07.01.003.00	Circlip 35e UNI 7435	1
2	2.12.031.0000	Pump cover	1
3	0.11.02.001.00	Dowel 8x12	2
4	1.12.02.062.00	Driven gear (for 3.1.2.6.062)	1
	1.12.02.059.00	Driven gear (for 3.1.2.6.073)	
	1.12.02.017.00	Driven gear (for 3.1.2.6.084)	
	1.12.02.018.00	Driven gear (for 3.1.2.6.100)	
	1.12.02.019.00	Driven gear (for 3.1.2.6.116)	
	1.12.02.020.00	Driven gear (for 3.1.2.6.132)	
	1.12.02.021.00	Driven gear (for 3.1.2.6.148)	
5	0.04.03.008.00	Washer 16 DIN 6798A	4
	0.01.01.089.00	Hex screw TE M16x100 (for 3.1.2.6.062/073/084)	
	0.01.01.090.00	Hex screw TE M16x110 (for 3.1.2.6.100)	
	0.01.01.091.00	Hex screw TE M16x120 (for 3.1.2.6.116/132)	
	0.01.01.098.00	Hex screw TE M16x130 (for 3.1.2.6.148)	
7	2.11.172.0000	Pump body (for 3.1.2.6.062)	1
	2.11.105.0000	Pump body (for 3.1.2.6.073)	
	2.11.106.0000	Pump body (for 3.1.2.6.084)	
	2.11.107.0000	Pump body (for 3.1.2.6.100)	
	2.11.108.0000	Pump body (for 3.1.2.6.116)	
	2.11.161.0000	Pump body (for 3.1.2.6.132)	
	2.11.160.0000	Pump body (for 3.1.2.6.148)	
	1.12.01.114.00	Drive gear ISO 62 (for 3.1.2.6.062)	
1.12.01.107.00	Drive gear ISO 73 (for 3.1.2.6.073)		
8	1.12.01.108.00	Drive gear ISO 84 (for 3.1.2.6.084)	1
	1.12.01.109.00	Drive gear ISO 100 (for 3.1.2.6.100)	
	1.12.01.110.00	Drive gear ISO 116 (for 3.1.2.6.116)	
	1.12.01.111.00	Drive gear ISO 132 (for 3.1.2.6.132)	
	1.12.01.112.00	Drive gear ISO 148 (for 3.1.2.6.148)	
	2.06.002.0000	Thrust plate	
10	0.08.02.130.00	O-ring OR 1.78 x 123.44	1
11	0.01.05.016.00	Hex screw STEI M10x10 UNI 5923 CL RES 45h	1
12	0.08.01.047.00	Seal BABSL 38x50x6/6,5	2
13	0.07.02.028.00	Circlip 50i UNI 7437	1
14	0.10.01.038.00	Bearing 6207 2RSR	2
15	0.07.02.015.00	Circlip 72i UNI 7437	1

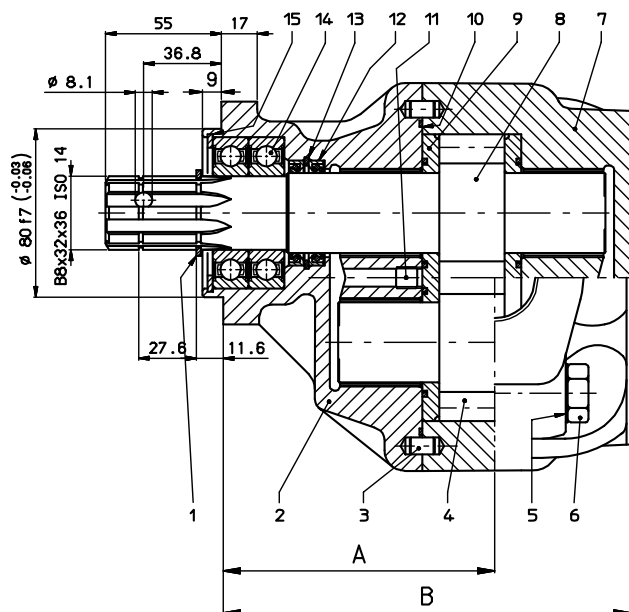
REF.	CODE	DESCRIPTION	QT.
16	1.12.01.114.00	Drive gear (for 3.1.2.6.062)	1
	1.12.01.105.00	Drive gear (for 3.1.2.6.073)	
	1.12.01.019.00	Drive gear (for 3.1.2.6.084)	
	1.12.01.020.00	Drive gear (for 3.1.2.6.100)	
	1.12.01.021.00	Drive gear (for 3.1.2.6.116)	
	1.12.01.022.00	Drive gear (for 3.1.2.6.132)	
	1.12.01.023.00	Drive gear (for 3.1.2.6.148)	
17	0.08.01.011.00	Seal 28x38x7	1
18	0.08.02.056.00	O-ring OR 3187	1
19	0.02.02.013.00	Stud M10x40 UNI 5911	3
20	1.07.01.161.00	Flange 3 bolt	1
21	1.27.01.013.00	Washer 16x10,5x1 mod41/3/1	3
22	1.30.02.001.00	Hex nut M10 hesag. 14 CL RES 10	3
23	2.11.174.0000	Tandem pump body (for 3.1.2.6.062 Sx)	1
	2.11.175.0000	Tandem pump body (for 3.1.2.6.062 Dx)	
	2.11.111.0000	Tandem pump body (for 3.1.2.6.073 Sx)	
	2.11.117.0000	Tandem pump body (for 3.1.2.6.073 Dx)	
	2.11.112.0000	Tandem pump body (for 3.1.2.6.084 Sx)	
	2.11.118.0000	Tandem pump body (for 3.1.2.6.084 Dx)	
	2.11.113.0000	Tandem pump body (for 3.1.2.6.100 Sx)	
	2.11.119.0000	Tandem pump body (for 3.1.2.6.100 Dx)	
	2.11.114.0000	Tandem pump body (for 3.1.2.6.116 Sx)	
	2.11.120.0000	Tandem pump body (for 3.1.2.6.116 Dx)	
	2.11.115.0000	Tandem pump body (for 3.1.2.6.132 Sx)	
	2.11.121.0000	Tandem pump body (for 3.1.2.6.132 Dx)	
2.11.116.0000	Tandem pump body (for 3.1.2.6.148 Sx)		
2.11.122.0000	Tandem pump body (for 3.1.2.6.148 Dx)		
24	0.04.01.148.00	Washer 38,5x50x0,5 C72	1
25	2.11.173.0000	Pump body (for 3.1.2.6.062)	1
	2.11.123.0000	Pump body (for 3.1.2.6.073)	
	2.11.124.0000	Pump body (for 3.1.2.6.084)	
	2.11.125.0000	Pump body (for 3.1.2.6.100)	
	2.11.126.0000	Pump body (for 3.1.2.6.116)	
	2.11.127.0000	Pump body (for 3.1.2.6.132)	
	2.11.129.0000	Pump body (for 3.1.2.6.148)	
26	0.04.01.157.00	Washer Dowty G3/4" (for 3.1.2.6.073)	1
	0.04.01.135.00	Washer Dowty G1"	
27	0.12.01.108.00	Cylindric plug G3/4" (for 3.1.2.6.073)	1
	0.12.01.102.00	Cylindric plug G1" DIN 908	

# SPECIAL OPTIONS

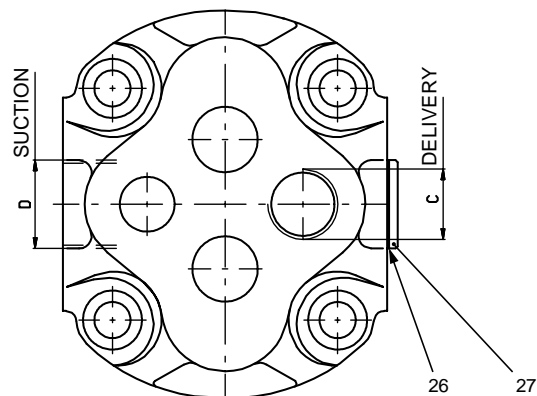
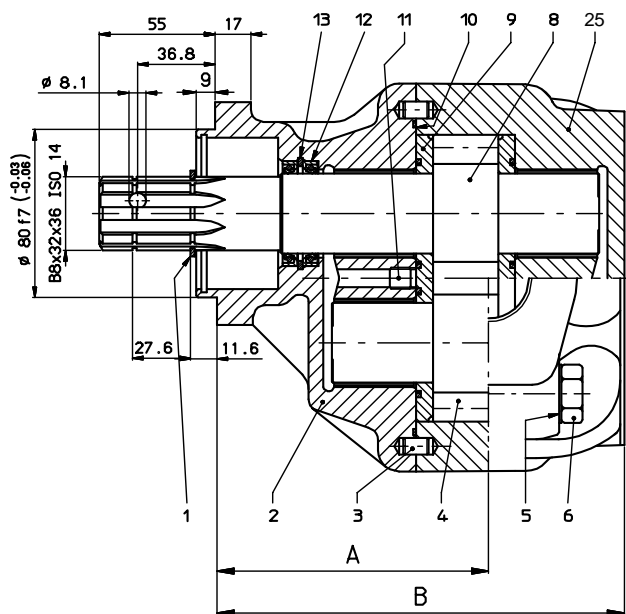
**TANDEM FITTING** code 3.1.2.6.XXX.X.01



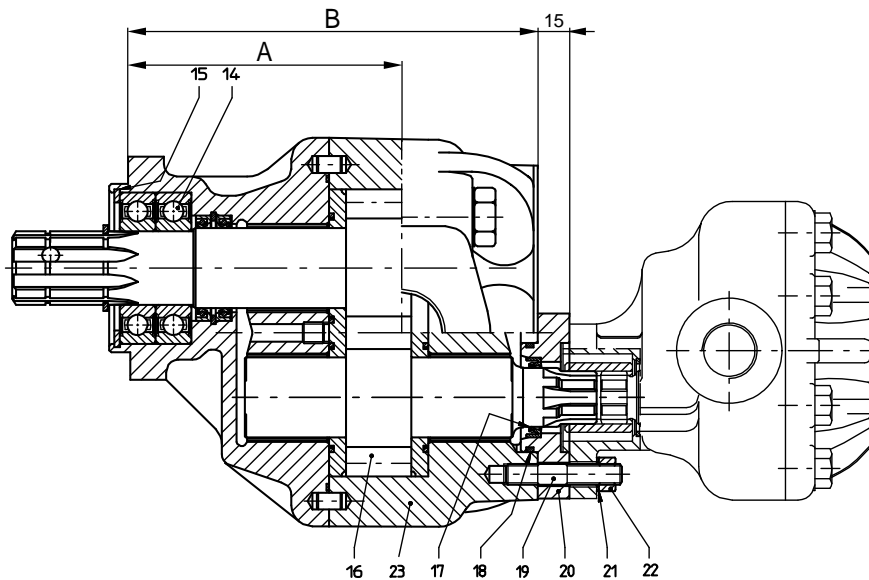
**BEARING GEAR** code 3.1.2.6.XXX.X.02



**SIDE INLET - AXIAL OUTPUT** code 3.1.2.6.XXX.X.07



**TANDEM FITTING - AXIAL OUTPUT** code 3.1.2.6.XXX.X.08



## HYDRAULIC SYSTEM

### OIL

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

very cold climate	22 cSt
cold climate	46 cSt
temperate climate	68 cSt
hot climate	100 cSt

### FILTRATION

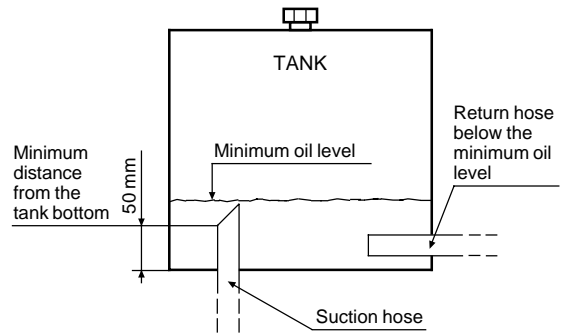
Suction filters should be avoided.

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.



### CLEANING THE HYDRAULIC CIRCUIT

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

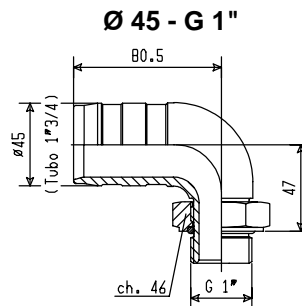
### OPERATING TEMPERATURE

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

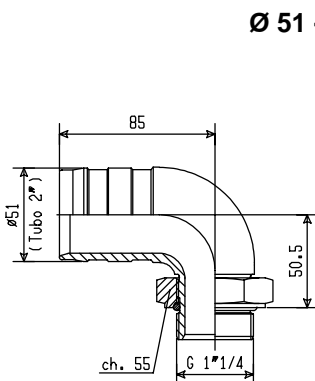
### SUCTION FITTINGS AND HOSES

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

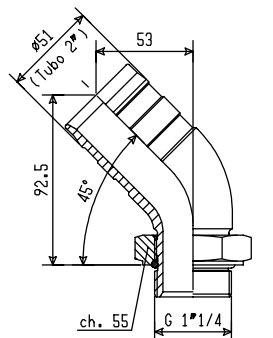
Properly sized suction hose and clips are available on request.



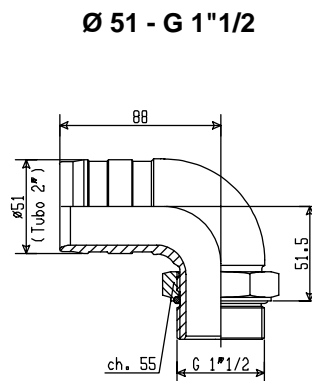
Code 2.17.008.0000



Code 2.17.009.0000



Code 2.17.015.0000



Code 2.17.010.0000

## CALCULATING THE TORQUE

$$M \text{ (torque, kgm)} = \frac{P \text{ (working pressure, Bar)} \times V \text{ (pump displacement, litres/min at 1000 rpm)}}{628}$$

$$\text{Example pump 3.1.2.6.084 : } \frac{200 \text{ Bar (P)} \times 84 \text{ lt. (V)}}{628} = 26,7 \text{ kgm (M)}$$

Caution: the calculated torque M shall not exceed the rated torque of the PTO.

## CALCULATING THE POWER

$$N \text{ (power, HP)} = \frac{Q \text{ (flow, litres/min.)} \times P \text{ (working pressure, Bar)}}{450}$$