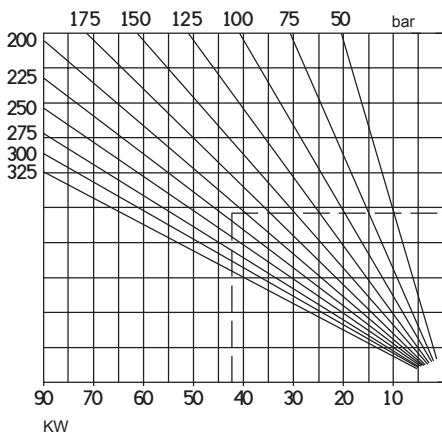


GEAR PUMP 3.1.2.3.

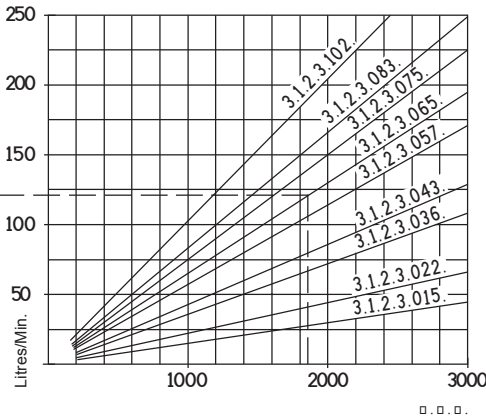
SERIES XP



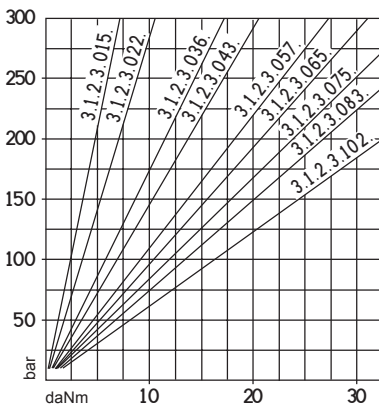
CODE	DESCR.	DISPLACEMENT		Max PRESSURE		Max SPEED R.P.M.	WEIGHT Kg.
		cm ³ /rev.	GMP (IMP)	Bar	PSI		
3.1.2.3.015.X.0.X	XP 15	15	3,3	315/340	4550/4950	3000	6,7
3.1.2.3.022.X.0.X	XP 22	22	4,8	305/330	4450/4800	3000	7,2
3.1.2.3.036.X.0.X	XP 36	36	7,9	300/325	4350/4700	3000	8,1
3.1.2.3.043.X.0.X	XP 43	43	9,5	280/305	4050/4450	3000	8,6
3.1.2.3.057.X.0.X	XP 57	57	12,5	260/285	3750/4150	3000	9,5
3.1.2.3.065.X.0.X	XP 65	65	14,3	240/265	3500/3850	3000	9,9
3.1.2.3.075.X.0.X	XP 75	75	16,5	220/240	3200/3500	3000	10,6
3.1.2.3.083.X.0.X	XP 83	83	18,3	210/230	3050/3350	3000	11,2
3.1.2.3.102.X.0.0	XP 102	102	22,5	180/200	2600/2900	2500	12,2



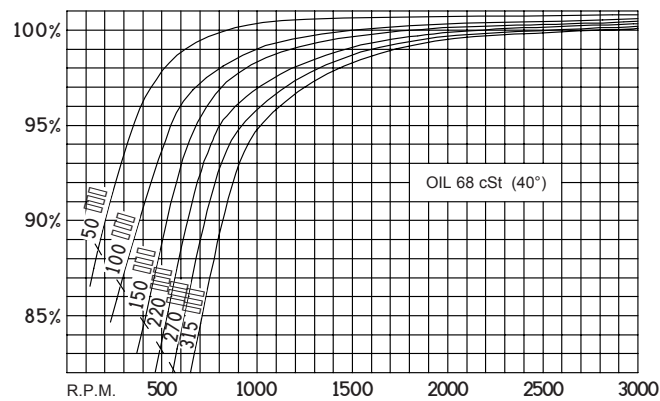
INPUT POWER



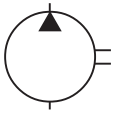
DELIVERY



INPUT TORQUE



VOLUMETRIC EFFICIENCY



3.1.2.3.XXX.X.0.X

BASIC SERIAL NUMBER

DISPLACEMENT

SPECIAL OPTIONS

- 0** = STANDARD OPTION
- 1** = TANDEM FITTING

ROTATION

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

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

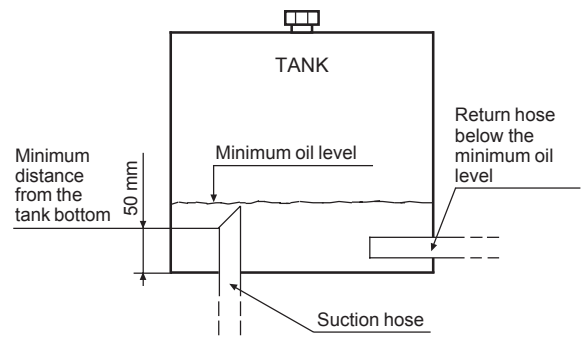
Suction filters should be avoided.

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

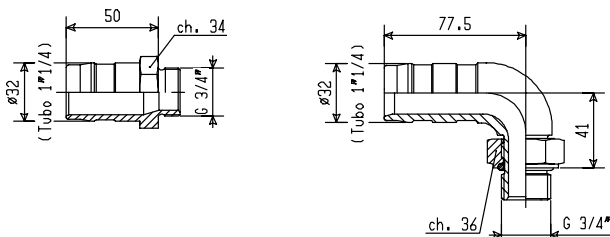
Oil temperature should be kept above -20°C and below 80°C.

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.

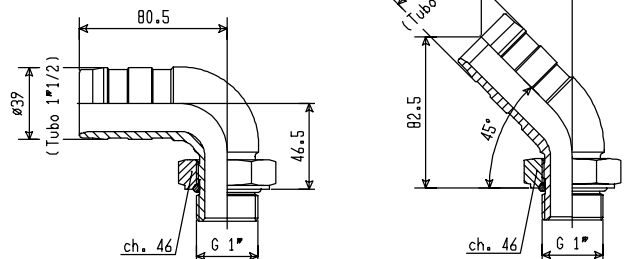
Ø 32 - G 3/4"



Code 1.10.02.062.00

Code 2.17.007.0000

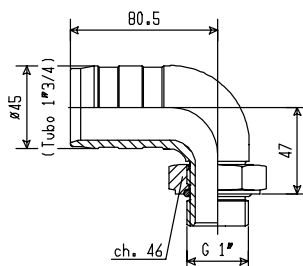
Ø 39 - G 1"



Code 2.17.013.0000

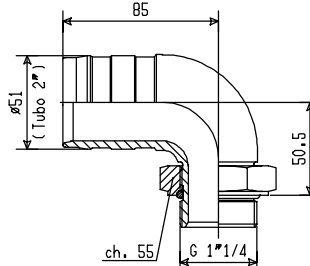
Code 2.17.014.0000

Ø 45 - G 1"

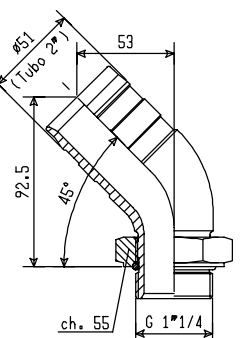


Code 2.17.008.0000

Ø 51 - G 1 1/4"



Code 2.17.009.0000



Code 2.17.015.0000

CALCULATING THE TORQUE

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

$$\text{Example pump 3.1.2.3.036 : } \frac{200 \text{ Bar (P)} \times 36 \text{ lt. (V)}}{628} = 11,4 \text{ kgm (M)}$$

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

CALCULATING THE POWER

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