GROUP 2 PUMPS

CONSTRUCTIVE CHARACTERISTICS:

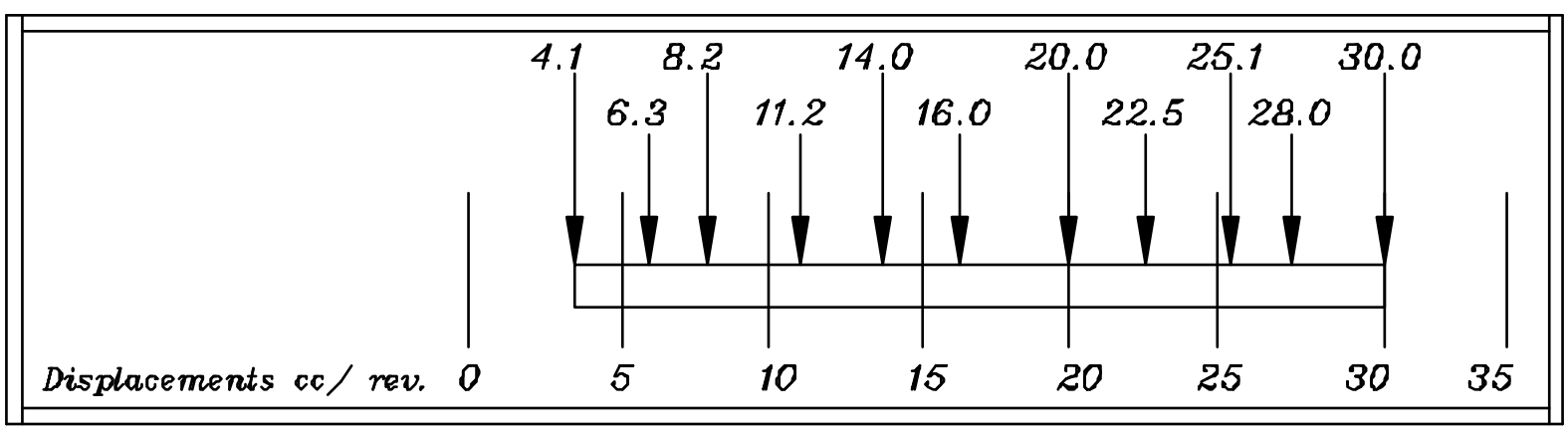
PART	*MATERIAL*	*CHARACTERISTICS*
GEARS	**Hardened steel UNI 7846**	**Rs= 1250 N/mm²** **Rm= 1450 N/mm²**
FLANCE AND COVER	**G25 / G30 cast iron**	**Rs= 300 N/mm²** **Rm= 450 N/mm²**
BEARINGS	**Avional** **Bearings with DU**	**Rs= 350 N/mm²** **Rm= 390 N/mm²**
BODY	**Etruded in aluminium alloy** **Series 7020**	**Rs= 350 N/mm²** **Rm= 390 N/mm²**
O-RINGS	**Buna N** **Viton**	**90 Shore, up to 90°C** **80 Shore, for high temperature**
ANTIEXTRUSION	**Zitel**	**With glass fibres**

Rs= Enervation load
Rm= Breaking load

GENERAL CHARACTERISTICS:

Maximum pressures up to 300 bar.
Weight : from 3.1 Kg to 4.3 kg
Maximum speed up to 4.000 rpm.
Type of shafts: **Taper 1:8 and 1:5**
Oldham
Slined DIN 5482 17x14.
SAE A splined-9 TEETH
SAE A cylindrical - Ø15.85 - SAE A 11 TEETH
Type of flanges: **European standard**
German standard
SAE A standard.

Displacements from 4 cc/rev to 30cc/rev.
The displacements are available according this table:



There is also available a special version with built-in support.

DRIVE:

The connection of the pump to the motor must be done preferably with the use of a flexible coupling to avoid any radial and/or axial force on the shaft, otherwise pump efficiency will dramatically drop due to early wear of inner moving parts.
In any applications where the motion is trasmitted through belts, it is necessary to use a support to avoid any radial or axial load to the pump shaft.
In any applications where are used splined shafts ot Oldham couplings, it is suggested to assure a costant lubrification through grease or similar products.

GROUP 2 PUMPS

WORKING CONDITIONS- LIMIT PERFORMANCES

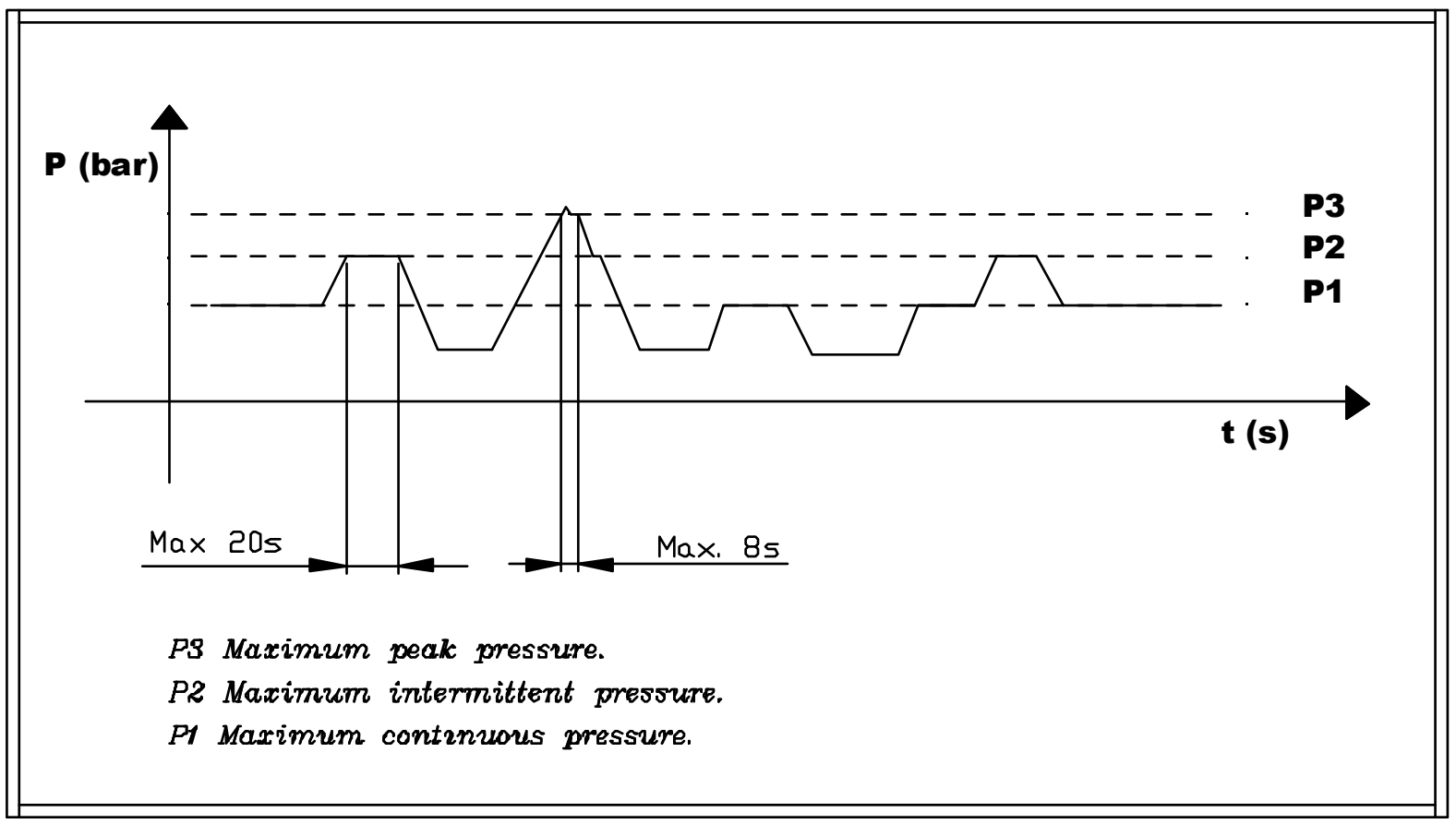
In normal working conditions there must be, in the suction pipe, a pressure lower than the atmospheric pressure.

The pressure range in suction must be:

Min. 0.75 bar (absolute)	MAX 2,0 bar (absolute)

The maximun pressure values "P1" are referred to a continuous working at 1500 rpm with standard hydraulic fluids with minimum viscosity of 10 cSt.
For heavier working conditions (viscosity or high temperature) it is necessary to reduce the "P1" values.

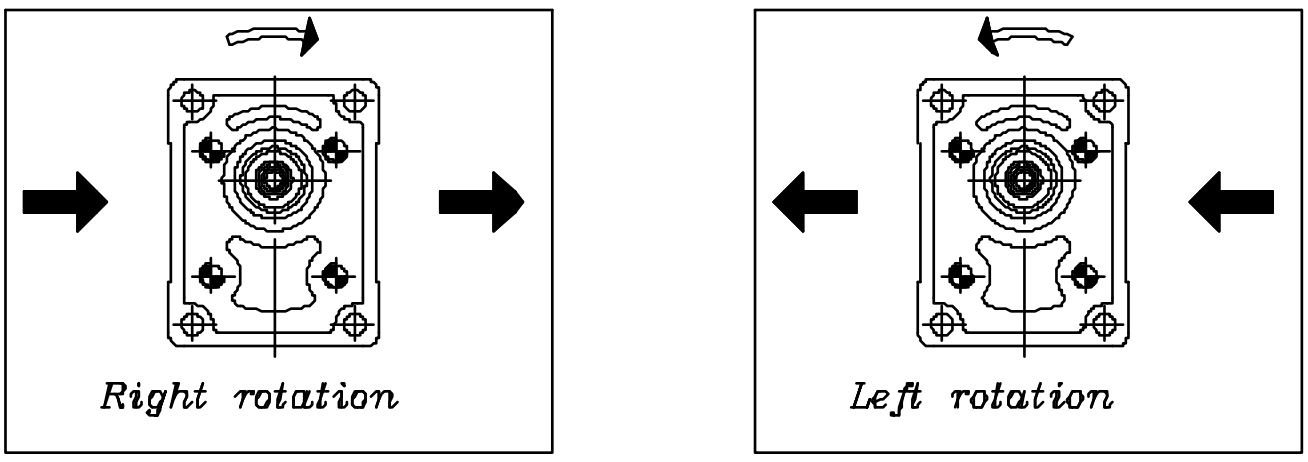
In the following table are described the admitted pressures:



The standard working speeds (minimum and maximum) are the following:

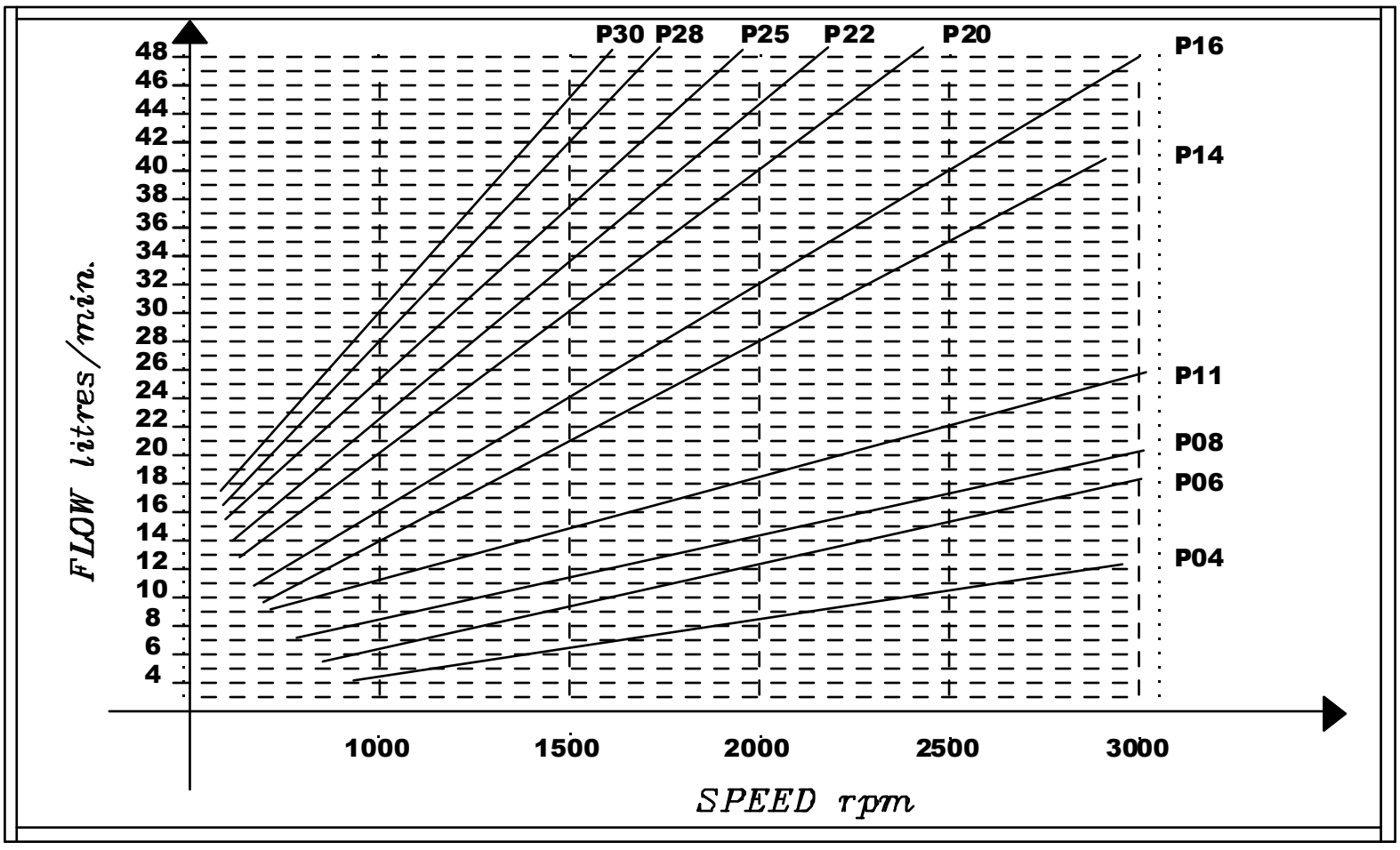
Min. = 400 rpm	Max = (See following table)

DIRECTION OF ROTATION LOOKING AT THE SHAFT:

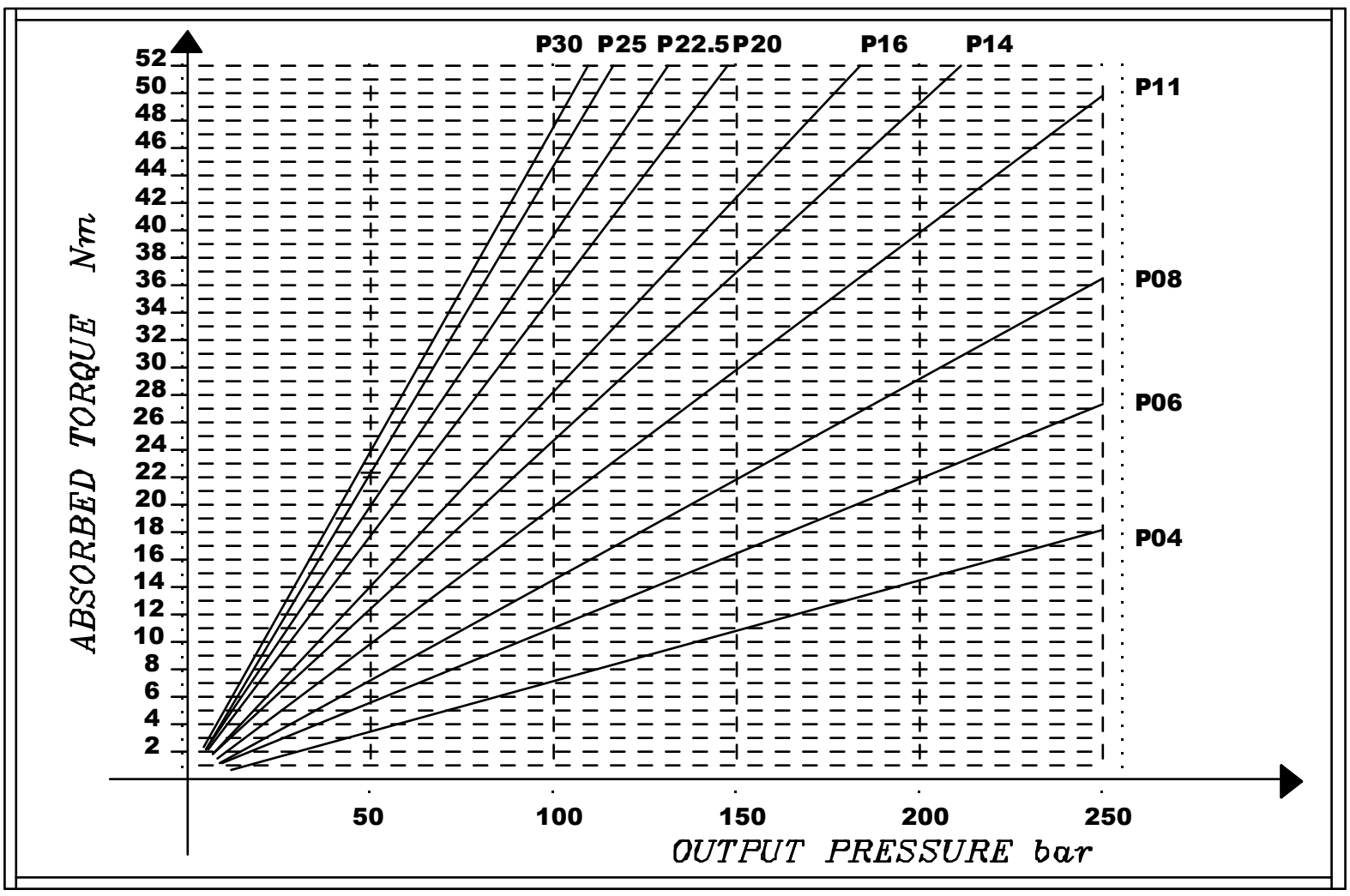


GROUP 2 PUMPS

FLOW CHARACTERISTICS CURVES



ABSORBED TORQUE



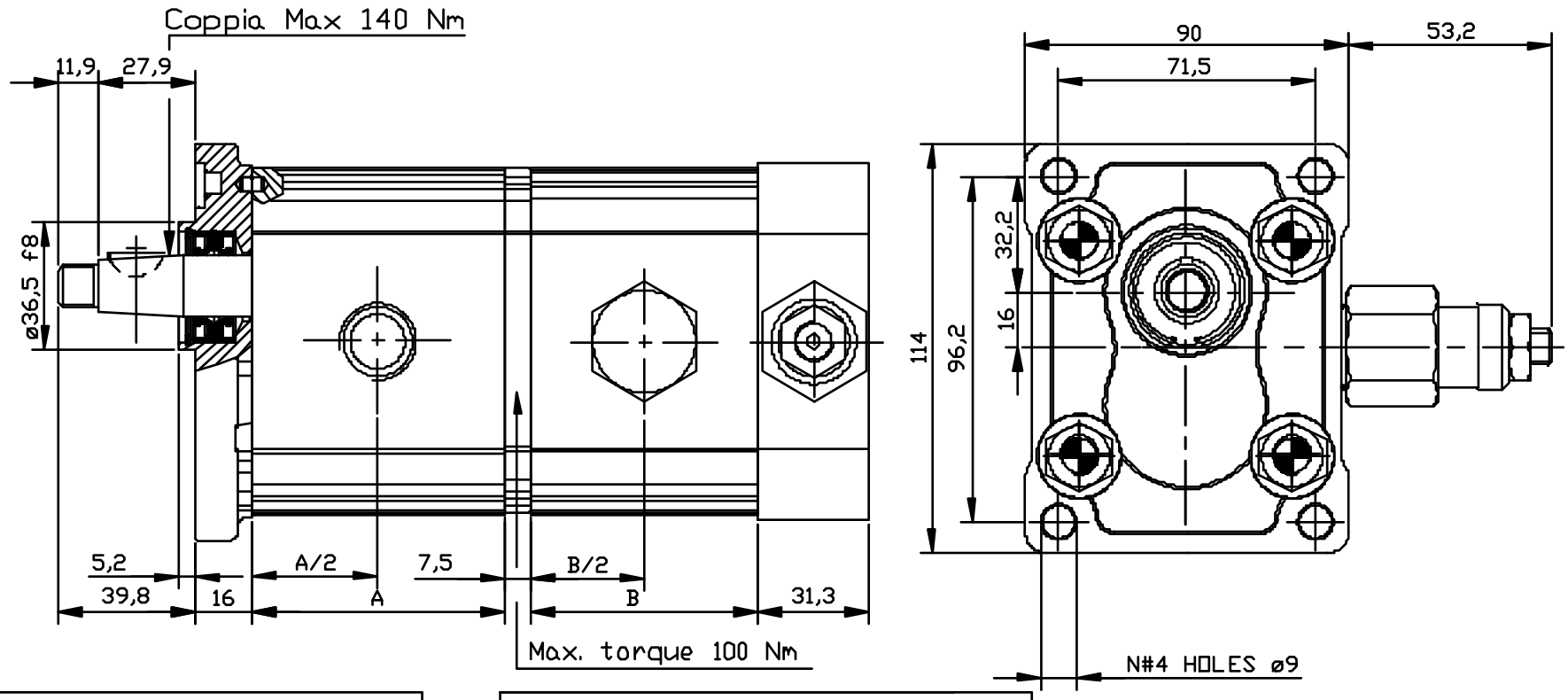
NOTE

Above flow characteristics curves have been made considering a volumetric efficiency of 95%

HYDR-APP™

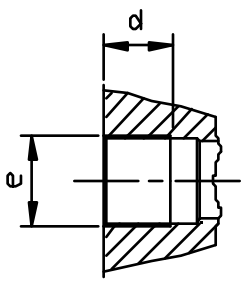
GROUP 2 PUMPS- TANDEM WITH SEQUENCE VALVE HI-LOW

VERSION: G28 P2-SV

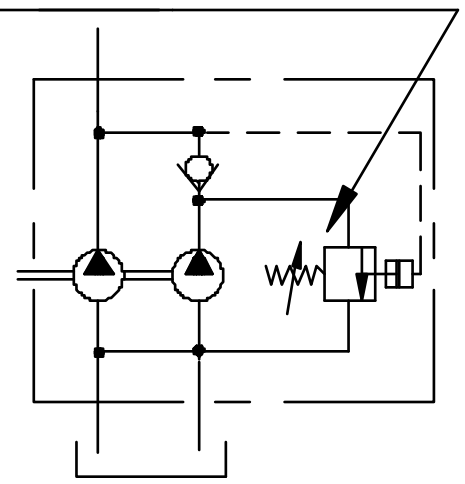


FIRST PUMP					SECOND PUMP				
TYPE	P1	P3	A	Cy	TYPE	P1	P3	B	Cy
OT 200 P04	250	300	48.00	4.10	OT 200 P06	250	300	51.00	6.20
OT 200 P06	250	300	51.00	6.20	OT 200 P08	250	300	54.00	8.20
OT 200 P08	250	300	54.00	8.20	OT 200 P11	250	300	58.30	11.20
OT 200 P11	250	300	58.30	11.20	OT 200 P14	240	300	62.30	14.00
OT 200 P14	240	300	62.30	14.00	OT 200 P16	240	300	65.20	16.00
OT 200 P16	240	300	65.20	16.00	OT 200 P20	200	240	71.00	20.00
OT 200 P20	200	240	71.00	20.00	OT 200 P22	170	210	82.70	22.50
OT 200 P22	170	210	82.70	22.50	OT 200 P25	170	210	86.50	25.10
OT 200 P25	170	210	86.50	25.10					

	Inlet port		Outlet port	
	e	d	e	d
P04 to P11	G1/2	14	G1/2	14
P14 to P25	G3/4	16		



RANGE 25/100 bar



P1 = WORKING PRESSURE (bar)
P3 = PEAK PRESSURE (bar)
Cy = DISPLACEMENT (cc/rev)

EXAMPLE OF ORDERING CODE

OT200 P 11 / 08 S / G 28 P2 - SV 40

- OT200 — Series
- P — Pump
- 11 — Front pump displacement (see above table)
- 08 — Second pump displacement (see above table)
- S — Rotation: S Anti-clockwise; D Clockwise
- G — See above corrispondent single pumps
- 28 — Body with threated ports (BSP)
- P2 — European standard flange
- SV — Sequence valve Hi-Low
- 40 — Setting value (bar)
- Taper shaft (1:8)