

Axial piston pumps type PVC

variable displacement, by a full line of mechanical controls Available only on request



2 OPERATING CHARACTERISTICS

Pump model		PVC-15	PVC-23
Displacement [[cm³/rev]	15,0	23,0
Theoretical max flow at 1450 rpm	[l/min]	21,7	33,0
Max working pressure	[bar]	2	10
Min inlet pressure [b	oar abs.]	0	,8
Max pressure on drain port [b	ar abs.]	1,4	
Power consumption at 1450 rpm and at maximum pressure and displacement	[kW]	11	17
Max drain flow	[l/min]	1.5	
Speed rating	[rpm]	500 ÷ 1800	

3 MAIN CHARACTERISTICS

Installation position	Any position. The drain port must be on the top of the pump. Drain line must be separated and unrestricted to the reservoir and extended below the oil level as far from the inlet as possible. Suggested maximum line lenght is 3 m.
Ambient temperature	from -10°C to +70°C
Fluid	Hydraulic oil as per DIN 51524535;
Recommended viscosity	15÷100 mm²/sec at 40°C (ISO VG 15÷100). Maximum start-up viscosity: 800 mm²/sec
Fluid contamination class	ISO 19/17/14 ISO4406 (class 9 NAS1638)
Fluid temperature	+20°C +60°C (+0°C +80°C with viton seal)

4 INSTALLATION POSITION



IN: inlet line - DR: drain line - A: minimum distance between inlet and drain line - B+C: permissible suction height - C: inlet line immersion depth

5 DIAGRAMS at 1450 rpm (based on mineral oil ISO VG 46 at 50°C)

Noise level curves

Ambient noise levels measured in compliance with ISO 4412-1 oleohydraulics -Test procedure to define the ambient noise level - Pumps Shaft speed: 1450 rpm. ____ = Qmax _____ = Qmin







7 SHAFT DIMENSION





PORTS DIMENSION

IN = 3/4" BSPP

OUT = 3/4" BSPP

DR = Drain port, 3/8" BSPP

- D2 = Oil filling port, 3/8" BSPP
- ① = Regulation screw for max displacement; clockwise rotation for max displacement reduction
- (2) = Regulation screw for max pressure regulation; clockwise rotation for pressure increasing.









Mass: 13 kg



PORTS DIMENSION

- **IN** = 3/4" BSPP
- **OUT** = 3/4" BSPP
- DR = Drain port, 3/8" BSPP
- D2 = Oil filling port, 3/8" BSPP
- ① = Regulation screw for max displacement; clockwise rotation for max displacement reduction









Mass: 13.5 kg



PORTS DIMENSION

IN = 3/4" BSPP

OUT = 3/4" BSPP

DR = Drain port, 3/8" BSPP

D2 = Oil filling port, 3/8" BSPP

X = Load sensing port, 1/4" BSPP

() = Regulation screw for max displacement; clockwise rotation for max displacement reduction



11 DIMENSIONS OF PVC-23A

PORTS DIMENSION

IN = 1" BSPP

- **OUT** = 3/4" BSPP
- DR = Drain port, 3/8" BSPP
- D2 = Oil filling port, 3/8" BSPP
- ① = Regulation screw for max displacement; clockwise rotation for max displacement reduction
- (2) = Regulation screw for max pressure regulation; clockwise rotation for pressure increasing.







Mass: 22 kg

12 DIMENSIONS OF PVC-23GM

PORTS DIMENSION

- IN = 1" BSPP
- **OUT** = 3/4" BSPP
- DR = Drain port, 3/8" BSPP
- D2 = Oil filling port, 3/8" BSPP
- ① = Regulation screw for max displacement; clockwise rotation for max displacement reduction



13 DIMENSIONS OF PVC-23HLC

PORTS DIMENSION

IN = 1" BSPP

- **OUT** = 3/4" BSPP
- DR = Drain port, 3/8" BSPP
- D2 = Oil filling port, 3/8" BSPP
- **X** = Load sensing port, 1/4" BSPP
- ① = Regulation screw for max displacement; clockwise rotation for max displacement reduction
- (2) = Regulation screw for min. pressure regulation; clockwise rotation for pressure increasing (standard setting 21 bar)
- ③ = Regulation screw for max pressure regulation; clockwise rotation for pressure increasing







Mass: 22,5 kg