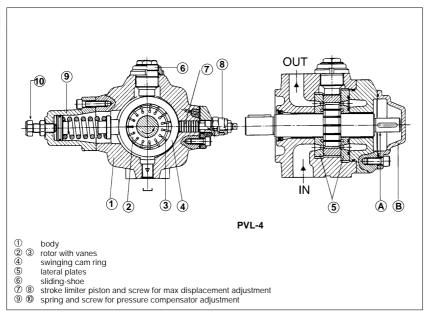
Vane pumps type PVL

variable displacement



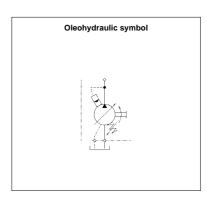
PVL are variable displacement vane pumps equipped with mechanical compensator 9 for outlet pressure and max displacement adjustment 7, 8.

These low-noise pumps are available in 3 different size, have flange port according to ISO 3019/2 and are designed to operate with anti-wear oil according to DIN 51524...535 and fireresistant fluids with same lubricating characteristics.

Wide variety of displacements: from 11 up to 43 cm³/rev.

Max pressure up to 150 bar.

1 MODEL CODE **PVL** 3 16 50 variable displacement vane pump Design number Conventional dimension: Conventional displacement according to ISO 3662 Pressure compensator calibration range: - = 30÷100 bar - = 15÷50 bar - = 80÷150 bar (for PVL-210 only) 10 (dimension 2) 16 (dimension 3) 40 (dimension 4)



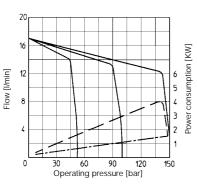
2 MAIN CHARACTERISTICS OF THE PVL VANE PUMP

Model		PVL-210	PVL-316	PVL-440
Max displacement	[cm³/rev]	11	18	43
Flow rate at 1500 rpm and 7 bar	[l/min]	16	26	62
Max operating pressure	[bar]	150	100	100
Max available torque on first shaft	[Nm]	110	197	400
Inlet port		1/2" BSP	1" BSP	SAE flange 11/4"
Outlet port		3/8" BSP	3/4" BSP	SAE flange 1"
Drain port		1/4" BSP	3/8" BSP	1/2" BSP
Recommended pressure on inlet port	[bar]	0,5 ÷ 1,5		
Max pressure at drain port	[bar]	1		
Min/max shaft speed	[rpm]	800/1800		
Direction of rotation		Clockwise rotation		
Loads on the shaft		Radial or axial loads on shaft not allowed		
Recommended viscosity 23÷45 mm²/s at 40°C (ISO VG22-46). For cold start-up and "0" pressure max: 800 mm²/s				nm²/s
Fluid contamination class ISO 19/16 (filters of 25 μ m absolute and $\beta_{25} \ge 75$)				
Fluid temperature	mperature +70°C			
Drain	[l/min]	from 1 to 4 - continuous -		
Installation position		Any. For above oil level installation use a foot valve		

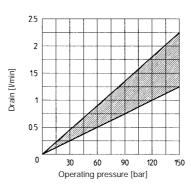
www.khadamathydraulic.com Tell: 021-55882749 Tell: 021-33488178 Fax: 021-33488105



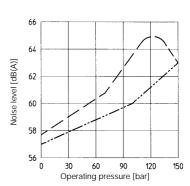
PVL - 210



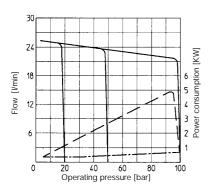
PVL - 210



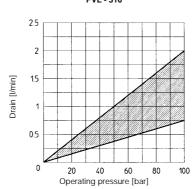
PVL - 210



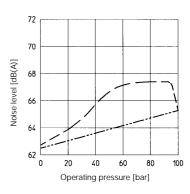
PVL - 316



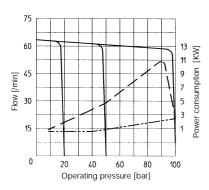
PVL - 316



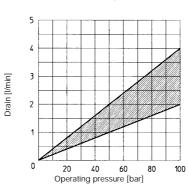
PVL - 316



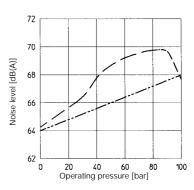
PVL - 440



PVL - 440



PVL - 440



Pressure versus flow diagram

_____ Power consumption at max flow rate

__.__ Power consumption at null flow rate

Drain in pressure compensation

Noise measured with ambient conditions, according to ISO 4412-1 $\,$

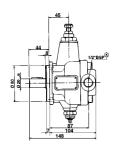
____ max. flow

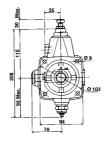
____ null flow

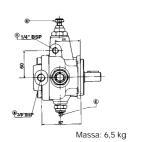


4 INSTALLATION DIMENSIONS [mm]

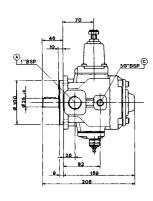
PVL-210

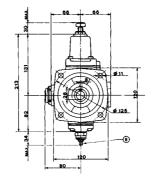


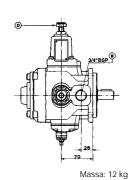




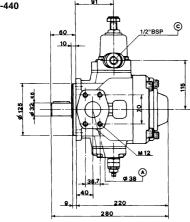
PVL-316

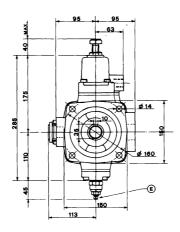


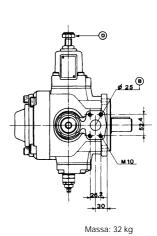




PVL-440







- (A) inlet port
- B outlet port
- © drain port
- (D) screw for pressure compensator adjustment
- $\begin{tabular}{ll}\hline \end{tabular}$ screw for max displacement adjustment

See table K120 for flanges available for inlet and outlet ports of pumps PVL-440.