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PD - PDS

Radial piston pumps

Size 2

500 Bar - 700 Bar - 1000 Bar

0,22 to 3,12 cm³/rev



Applications:

- Clamping device
- Remote handling tools (rescue, cutting, punching,…)
- Accumulator charging units
- Lifting systems
- Compact presses

Design:

- High-strength aluminum body and piston-cover
- Modular concept (easy to replace piston assembly)
- Customized assembly possible
- Marine version = FPM seals + special coated external parts

Features:

- Light weight compact version
- High volumetric efficiency (up to 98%)
- Wide speed range (100 > 3000 rev/min)
- Combination with gear pump possible
- 1 to 2 Pressure outputs possible (depending on n° pistons)
- Low pulsation, low noise level
- Self-priming and venting
- Offshore versions available (Marine version)

Technical data:	
Hydraulic fluid	Mineral or synthetic oil according DIN 51524 (BIO, other on demand)
Viscosity range	10 to 220 mm²/s
Recommended oil	ISO VG 10 to 68 cSt (conf. DIN 51 519)
Filtration	According ISO/DIN 4406 17/15/12 (NAS 1638 class 6)
Fluid temperature range	-30 to +80°C (attention to the viscosity range)
Ambient temperature range	-40 to +60°C
Speed range	100 to 3000 rev/min
Direction of rotation	Bi-directional
Suction height	max 500mm
Operation pressure on suction port	-0,2 Bar to 0,5 Bar
Max pressure on output port	500 Bar, 700 Bar or 1000 Bar (depending on piston size and version)
Axial force on driving shaft	Not allowed
Radial force on driving shaft	On request
Port connections	Via fittings ISO 228/1 (BSP), other on demand)

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Ordering Code:

(Example)	PD	/02	-700	1,8	/GP2	-F	-Sxxx
Radial piston pump Size 2 - (PDS = 1000 Bar version)							
Number of pistons (see table)							
Max Pressure - 500 Bar, 700 Bar or 1000 Bar							
Displacement (cm³/rev) (see table)							
Connection for second pump - (for gearpump size 1 or 2)							
Seal version (Omit = NBR) - F = FPM (Viton), M (Marine Version)							
Special version							

Maximum pressures and displacements of the standard program:

Size	Housing	Nb of Pistons	Pressure (bar) / displacement (cm³) by piston diameter					
			Ø 6 mm	Ø 8 mm	Ø 9 mm	Ø 10 mm	Ø 12 mm	Ø 16 mm
2	PD	1	700/0,22	700/0,39	700/0,49	700/0,61	700/0,88	500/1,56
		2	700/0,44	700/0,78	700/0,99	700/1,22	700/1,76	500/3,12
	PDS	1	1000/0,22	1000/0,39	1000/0,49			
		2	1000/0,44	1000/0,78	1000/0,99			

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