Short description Axial piston pump DPVD



The Liebherr axial piston double pumps in the DPVD series are designed as swashplates for open circuits.

These variable displacement double pumps are available in nominal sizes from 108–108 to 165–165. The nominal pressure of the units is 400 bar and the maximum pressure is 450 bar absolute.

The model is available as a double pump with a back to back arrangement. Connecting the hydraulic lines is greatly simplified by a shared suction port.

The inverse drive with a swivel angle of 22° is very efficient and has a very high power density.

Valid for: DPVD 108-108 DPVD 165-165

Features:

D series Open circuit

Control types:

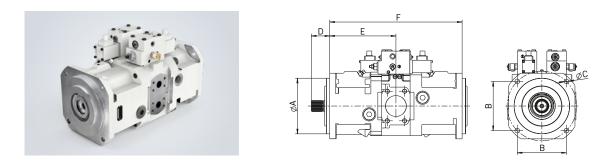
Load Sensing with pressure cut-off Electrical volume control with pressure cut-off

Pressure range:

Nominal pressure $p_N = 400$ bar Maximum pressure $p_{max} = 450$ bar



Axial piston pump DPVD



DPVD variable displacement, open circuit, nominal pressure 400 bar, maximum pressure 450 bar (all specifications per driving gear)

Nominal size		108	165
Displacement volume	V _{g max} [cm ³]	107.7	167.8
Max. speed	at V _{g max} , n _{max} [rpm]	2200	2100
Volume flow	at n_{max} , $q_{v max}$ [l/min]	237	352
Drive power	Δp = 400 bar, P _{max} [kW]	158	235
Drive torque	Δp = 400 bar, T _{max} [Nm]	686	1068
Available controls		EL-LS	

Technical data

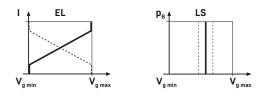
Product dimensions (mm) *		108	165		
Splined shaft profile	DIN 5480 involute gear hub profile	W40 x 2 x 18	W45 x 2 x 21		
Centering diameter	A	200	165.1		
Connection spacing, screws	В	250	224.5		
Fastening holes	С	17	4		
Splined shaft length	D	66	69.7		
Connection length, SAE flange (suction & pressure)	E	238	288.3		
Shaft collar/mounting flange	F	476	654.6		
Pressure connections	SAE J518 (6000 psi)	1"	1¼"		
Suction port	SAE J518 (500 psi)	3"	4"		
Leakage oil connection	ISO 9974-1	M33 x 2	M26 x 1.5		
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* The dimensions can vary depending on the configuration and additional equipment (installation drawing available upon request).

Control - Other control function combinations possible upon request.

Electro-proportional regulation

Load sensing



Type code

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		LR/LS
		LR/SD/DA
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■ Available □ On request - Not available

Components







Diesel engines

Injection systems



Large diameter bearings

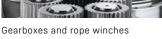


Human-machine interfaces

and gateways



and sensors







Electrical machines



Hydraulic cylinders



Preparation of components







Power electronics

Switchgear



Software

From A to Z, the components division of the Liebherr Group offers a broad range of solutions for mechanical, hydraulic, electric and electronic drive and control technology. The efficient components and systems are produced at a total of ten production sites around the world to the highest standards of quality. Central contacts for all product lines are available to customers at Liebherr Component Technologies AG and our regional sales branches.

Liebherr is your partner for joint success: from product idea to development, manufacture and commissioning, right through to customer service solutions, such as preparation of components.

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