Short Description Variable Double Pumps DPVD





The Liebherr axial piston pump DPVD series is developed for the open circuit in swash plate design. The variable pumps are available in nominal sizes 108-108 and 165-165 cm³. The nominal pressure is 400 bar and maximum pressure 450 bar.

Special Features of the DPVD:

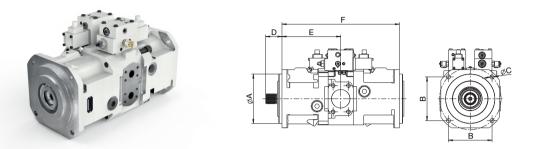
The model is available as a double pump with a back to back cation. Thanks to the common port plate piping is significantly easier to install. Thanks to the inverted piston design with 22° swivel angle, high efficiency and power density are obtained. The DPVD series is available with the most common controls





Technical Data

Series D: double variable displacement pump DPVD



DPVD

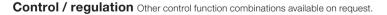
variable displacement, open circuit, nominal pressure 400 bar, maximum pressure 450 bar (all data for each rotary group)

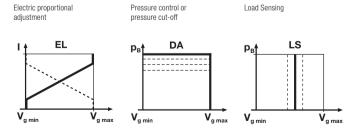
Nominal size		108	165			
Displacement	V _{g max} [cm ³]	107.7	167.8			
Max. speed	at V _{g max} , n _{max} [rpm]	2,200	2,100			
Volumetric flow	at n _{max} , q _{v max} [l/min]	237	352			
Drive power	$\Delta p = 400 \text{ bar, } P_{max} \text{ [kW]}$	158	235			
Drive torque	$\Delta p = 400 \text{ bar, } T_{max} \text{ [Nm]}$	686	1,068			
Available controls		EL, DA				

Technical Data

Product dimensions (mm)*		108	165		
Splined shaft profile	DIN 5480 tol. 9g	W40x2x18	W45x2x21		
Centering diameter	А	200	511.18		
Screw connection pitch	В	250	530.2		
Fastening bores	С	17	11		
Splined shaft length	D	66	54.2		
Connection length, SAE flanges (suction and pressure) E		238	303.8		
Shaft collar / mounting flange F		476	670.1		
Pressure ports	SAE J518 (6,000 psi)	1"	11⁄4"		
Suction port	SAE J518 (500 psi)	3"	4"		
Oil leakage port	ISO 9974-1	M33 x 2	M26 x 1.5		

* Dimensions may vary according to configuration and additional equipment (installation drawing on request).





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Type code for DPVD pumps

			DPVD	0 /	
ump type					
uble variable displacement pump, series D	DP\	VD			
cuit type					
	0)			
	0			-	
nal size (per rotating group)	100	105			
	108	165			
mum displacement (per rotating group) Other values on request					
% von Vs max, value in cm ³	•	•]	
rol / regulation (Other controls on request)					
ic proportional adjustment / pressure cut-off	•	•	EL / DA		
oolic power regulation / load sensing	0	0	LR/LS		
olic power regulation / hydraulic adjustment proportional to control pressure / pressure cut-off	0	0	LR / SD / DA		
proportional adjustment / load sensing	•	•	EL / LS		
ve regulation	0	0	LU		
e control or pressure cut-off	0	0	DA		-
tive power regulation / hydraulic adjustment proportional to control pressure	0	0	SL / SD		
ensing / pressure cut-off	0	0	LS/DA		
ation for electro-hydraulic control	0	0	EHC0		
ed electro-hydraulic control	0	0	EHC1		
			1 -		
of rotation (looking at input shaft) Availability of impeller see below					
· · · · · · · · · · · · · · · · · · ·	•	•	R		
	0	0	L]
ng flange (Other mounting flanges on request)					
ngine flange SAE 1 (SAE J617a)	•	•	11		
ngine flange SAE 2 (SAE J617a) ngine flange SAE 2 (SAE J617a)	•	•	12		
ngine flange SAE 3 (SAE J617a)	0	0	12		
ingine flange SAE 4 (SAE J617a)	0	0	14		
SAE J744)	-	-	24		
0 3019-2	0	0	31		
ndard flange	0	0	51		
nd					
shaft DIN 5480	•	•	1		
shaft SAE J744	0	•	2		
	Ŭ		-		
tions					
ssure port: SAE (6,000 PSI)			٨		
i port: SAE (500 PSI)	•		A		
age and control pressure ports: metric (DIN 3852) ressure port: SAE (3,000 PSI)					
n port: SAE (3,000 PSI)	0	0	В		
r port: SAE (300 PSI) kage and control pressure ports: metric (DIN 3852)	0	0	D		
age and control pressure ports: metric (bit 3852) s: metric thread	0	0	С		
	0		U		
nents			0		
chment	•	•	0		
peller I pump	0	0	F		
	0	0	F		
ted gear pump for control circuit oil					
gear pump	0	0	00		
ar pump, $Vg = 24 \text{ cm}^3$ with connections for external feed circuit filtering (Fe and Fa)	0	•	24		
-drive (side P1 and / or P2)					
hrough-drive	•	•	0		
	0	0	А		
	•	•	В		
			К		
ndard flange with through-drive	0	0	IX.		
	0	0	IX.		
rtechnology	•	•	0		
r technology t					
andard flange with through-drive or technology It wash plate angle sensor	•	•	0		
tandard flange with through-drive or technology ut wash plate angle sensor ressure sensor peed sensor	•	•	0 W		

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