## Short Description



### **Variable Pumps DPVG**



The Liebherr axial piston pump DPVG series is developed for the closed circuit in swash plate design. The variable pumps are available in nominal sizes ranging from 85 to 280 cm<sup>3</sup>. The nominal pressure is 450 bar and maximum pressure 500 bar.

### Special features of the DPVG:

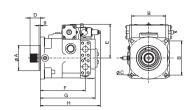
Thanks to the hydrostatic swash plate bearing, the axial piston pump DPVG for the closed circuit impresses with its reliability and endurance even under thoughest conditions. The hydrostatic swash plate design is available in sizes 85 and 280, further sizes are in development. Due to the inverted piston design with a 22° swivel angle, high efficiency and power density are obtained. The DPVG series is available with the most common controls.

### **Technical Data**



# Series D: variable displacement pump DPVG





variable displacement, closed circuit, nominal pressure 450 bar, maximum pressure 500 bar

Nominal size		85	108	165	280
Displacement	V <sub>g max</sub> [cm <sup>3</sup> ]	85.2	107.7	167.8	283.4
Max. speed	at $V_{g max}$ , $n_{max}$ [rpm]	3,300	3,000	2,700	2,500
Volumetric flow	at n <sub>max</sub> , q <sub>v max</sub> [I/min]	281	323	453	709
Drive power	$\Delta p = 430 \text{ bar, } P_{\text{max}} \text{ [kW]}$	201	232	325	508
Drive torque	$\Delta p = 430 \text{ bar, } T_{\text{max}} [\text{Nm}]$	583	737	1,149	1,940
Available controls		EL, EL/DA, SD, TCH, TCE, DZH			

#### **Technical Data**

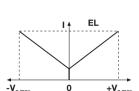
Product dimensions (mm) *		85	108	165	280
Splined shaft profile	DIN 5480 Tol. 9g	W35x2x16	W45x2x21	W45x2x21	W55x2x26
Centering diameter	A Passung e8	160	152	200	165,1
Screw connecting diameter	В	141,4	161,6	176,8	224,5
Fastening bores	С	17	21	21	22
Splined shaft length	D	50	55	60	68
Height adjustment E		177,6	190	205	225,5
SAE connection length, pressure F		223,5	223	270	295,5
Length without/with integrated feed pump G		271.5 / 322.5	268 / 315.5	322/381	360 / -
Overall length H		340,6	330,5	358,5	395
Pressure ports	SAE J518 (6,000 psi)	1"	1"	1 1/4"	1 1/2"
Oil leakage port	ISO 9974-1	M26x1.5	M33x2	M42x2	M42x2

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

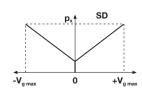
#### Note:

Various mounting flanges are possible (SAE J617a, SAE J744, DIN/ISO 3019-2). With/without integrated feed pump; integrated pressure limiting valve is possible. Through-drive for pumps up to the same size as the installed pump is possible. HD ports are possible at the side or underneath.

Control / regulation Other control function combinations available on request.

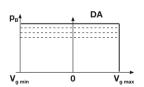


Electric proportional adjustment

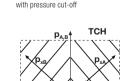


Hydraulic proportional adjustment

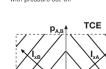
depending on control pressure



Pressure cut-off



Torque control, hydraulic,



北京瑞莱斯机电设备技术有限公司

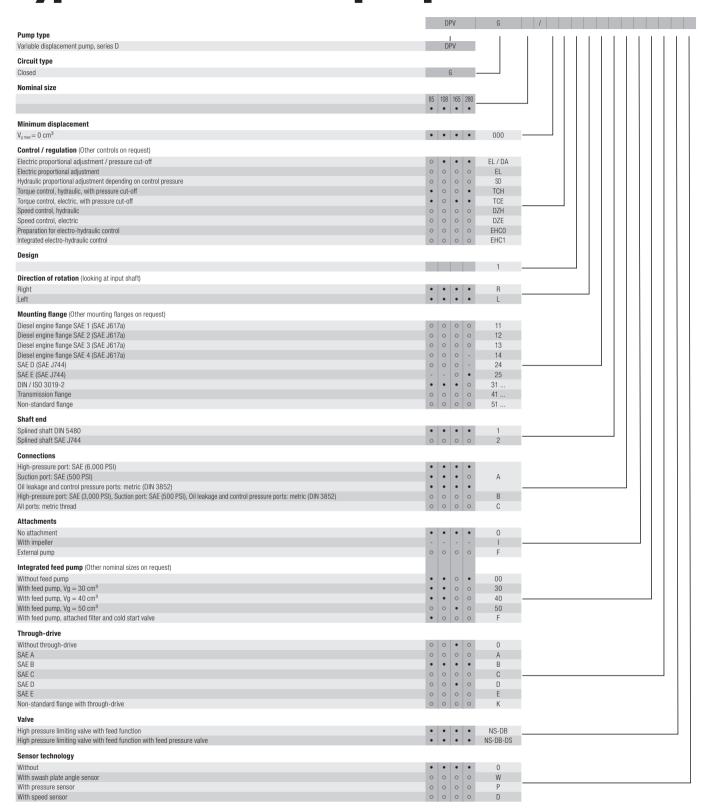
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# Type code for DPVG pumps



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