Short Description

Variable Plug-In Motors CMVE



The Liebherr axial piston motor CMVE series is developed for the open circuit in swash plate design. The variable plugin motors are available in nominal sizes ranging from 85 to 165 cm³. The nominal pressure is 380 bar and maximum pressure 400 bar.

Special Features of the CMVE:

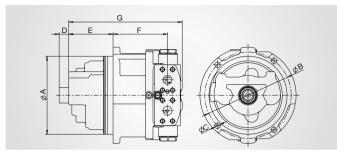
The travel motor with hydraulic two point control is a very compact drive unit due to integrated design of mounting brake and brake valve.

Speed sensor or preparation for speed sensor are available on request.



Technical Data Series C: CMVE variable displacement plug-in motor





CMVE

variable displacement, open and closed circuit, nominal pressure 380 bar, maximum pressure 400

Nominal size		85	108	135	165
Displacement	V _{g max} [cm ³]	85.2	108	135.7	165.9
Max. speed	at $V_{g \text{ max}}$ and $\Delta p = 360$ bar, n_{max} [rpm]	3,900	3,470	3,250	3,000
Max. speed	at $V_g/V_{g \text{ max}} = 0.65$ and $\Delta p = 200$ bar, n_{max} [rpm]	5,000	4,500	4,550	4,200
Flow	at n_{max} , $q_{v max}$ [I/min]	332	375	441	498
Output power	$\Delta p = 360 \text{ bar, } P_{\text{max}} \text{ [kW]}$	199	225	265	299
Output torque	$\Delta p = 360 \text{ bar, } T_{\text{max}} [\text{Nm}]$	488	619	778	951
Available controls		ZH, DA			

Technical Data

Product dimensions (mm)*		85	108	135	165
Splined shaft profile (internal gear)	DIN 5480 Tol. 9H/9g	W32 x 1.25 x 24	N35 x 2 x 16	W40 x 2 x 18	N40 x 2 x 18
Centering diameter	A fit h8	200	215	226	240
Screw connection diameter	В	222**	238**	248**	265**
Fastening bores	C	13	15	15	17
Splined shaft length	D	24.5	26.5	31.5	37.5
Insertion length	Е	117	122	132	137
Connection length, SAE flanges	F	135	150	160	182
Overall length	G	303	312.5	332.5	374
Pressure ports	SAE J518 (6,000 psi)/ISO	M33 x 2	1"	1"	1 1/4"
Oil leakage port	ISO 9974-1	M26 x 1.5	M26 x 1.5	M26 x 1.5	M26 x 1,5

^{*} Dimensions may vary according to configuration and additional equipment (installation drawing on request). ** 4-hole special attachment flange.

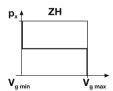
Note:

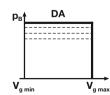
Integrated brake valve with automatic brake release, flushing, pressure limiting valves and internal multi-disk brake. This motor is mainly intended for installation in a mechanical travel drive.

Control/regulation

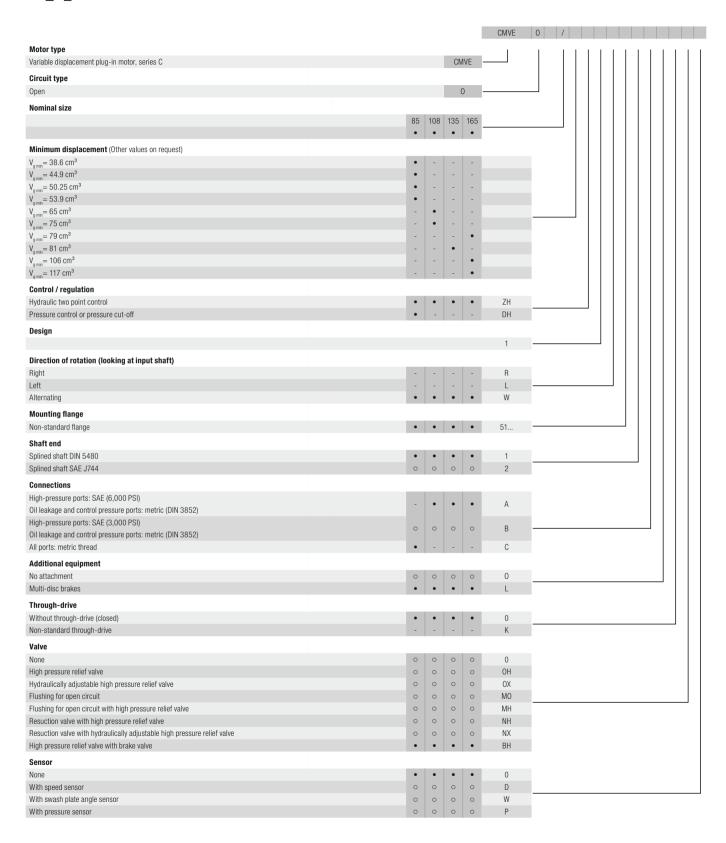
Hydraulic two point control

Pressure control or pressure cut-off





Type code for CMVE motors



Available

On request

⁻ Not available

Liebherr Components











Gas engines

Diesel engines

Fuel injection systems

Axial piston hydraulics

Hydraulic cylinders









Slewing bearings

Gearboxes and winches

Electric machines

Remanufacturing











Human-machine interfaces Control electronics and and gateways

sensor technology

Power electronics

Control cabinets

Software

From A to Z – the components division of the Liebherr Group offers a broad range of solutions in the area of mechanical, hydraulic, electric and electronic drive system 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 contact persons for all product lines are available to our customers at LiebherrComponents AG and the regional sales and distribution branches.

Liebherr is your partner for joint success: from the product idea to development, manufacture and commissioning right through to customer service solutions like remanufacturing.

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