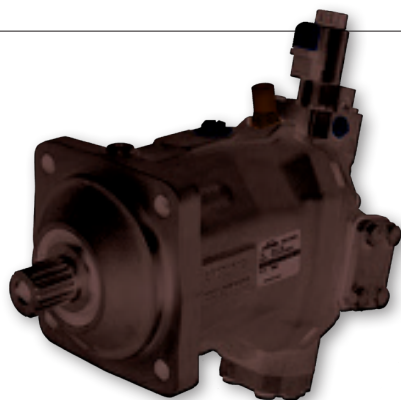


Open & Closed Circuit | Variable Displacement Motor

CMV



With the next generation of the bent axis motors, LHY expands its customer oriented portfolio of high-quality components for hydraulic systems. Due to their standardized interfaces, e.g. the plug-in flange according to ISO, the CMV and CMF fit a high variety of applications, without the need of adaptors. The motors enable a more cost effective operation of the respective applications thanks to low windage losses and lighter weight.

Design characteristics

- Axial piston motor in bent axis design
- Standardized interfaces
- Speed sensor optional

Product advantages

- High speeds
- High power density
- Low windage losses



General technical data

CMV		
Nominal size		
Displacement	Max. displacement	cc/rev
Speed	Max. operating speed at V_{max}	rpm
	Max. speed at V_{max}^*	rpm
	Max. operating speed at V_{min}	rpm
	Max. speed at V_{min}^*	rpm
Pressure	Nominal pressure	bar
	Max. pressure**	bar
	Max. housing pressure	bar
Torque	Output torque ($\Delta p=430$ bar and V_{max})	Nm
Corner power (theor.) ($V_{max} \times n_{max}$ at $V_{min} \times \Delta p$ 430 bar)		kW
Weight	approx. (without oil)	kg

60	85	115	140	170	215
62	87.7	115.3	144.1	170	217.9
4450	3900	3550	3250	3100	2900
upon request					
7200	6800	6150	5600	4900	4600
upon request					
450	450	450	450	450	450
500	500	500	500	500	500
2.5	2.5	2.5	2.5	2.5	2.5
411	582	787	958	1163	1471
320	427	508	578	597	718
27.7	36.3	44.8	59.2	62.1	76.4

Customer interfaces

Control options						Sensors		Flanges			Shafts****			Ports****			
	Proportional	2-Position	default = V_{min} (positive control)	default = V_{max} (negative control)	Pressure override	Speed		ISO 3019-1 (SAE J 744)	ISO 3019 - 2 (metric)	Plug-in ISO 3019 - 2	ISO 3019-1 (SAE J 744) ANSI B92.1-1970	Compagnion flange SAE J 1946 Typ A	DIN 5480		ISO 6162-2 Side ports	ISO 6162-2 Twin ports (rear)	ISO 6149 - 1
Electro-hydraulic	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	Work ports	✓	✓	
Hydraulic	✓	✓	✓	✓	✓									Threaded ports			✓

* highest transient speed, that can temporarily occur | ** highest transient pressure, that can temporarily occur | **** Availability depends on nominal size



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