

MS250CP/4

PRODUCT FEATURE SUMMARY

DATE: 26.06.2025 MODEL TYPE: MS250CP/4 **Username: Evelin Badic**

CNSORDERNO (Order number).	MS250CP/4
MF (Mounting Flange).	omit: SAE A-4 mount, four holes
PT (Port type).	omit: Side ports
DC (Displacement code).	250: 250,0 cm³/rev [15.30 in³/rev]
SE (Shaft Extensions).	C: ø32 straight, Parallel key A10x8x45 DIN6885
SSV (Shaft Seal Version).	omit: Low pressure seal
P (Ports).	omit: BSPP (ISO 228)
AD (Actuating Direction).	omit: only for drum brake
SFMS (Special Features measure speed).	omit: no special features
SFGWS (Special Features of gear wheel set).	omit: no special features
SFDR (Special Features – Direction of rotation).	omit: Standard
OP (Option (Paint)).	P: Paint
DESIGNS (Design Series).	4
INFO (Info).	PDF catalog
L1 (mm).	43.5
L2 (mm).	153.4
L (max. Lmm).	194.8



Type Displacement, cm3/rev [in3/rev]		MS250		Туре	MS250
		250 [15.3]	cont.		230 [3340]
Max. Speed, [RPM]	cont.	300	Max. Inlet Pressure, bar [PSI]	Int.*	295 [4280]
	Int.*	360		peak**	300 [4350]
Max. Torque, daNm [lb-in]	cont.	72 [6370]		cont.	140 [2030]
	Int.*	87 [7700]	Max. Return Pressure with Drain Line	Int.*	175 [2540]
Max. Output, kW [HP]	cont.	14,5 [19.4]	bar [PSI]	peak**	210 [3050]
	Int.*	18 [24.1]	Pressure wi	Pressure with Unloaded Shaft, bar [PSI]	
Max. Pressure Drop, bar [PSI]	cont.	200 [2900]	Min Starting Torque,	at max. press. drop cont.	56 [4960]
	Int.*	250 [3630]	daNm [lb-in]	at max. press. drop Int.*	70 [6200]
Max. Oil Flow, Ipm[GPM]	cont.	75 [20]	Min. Speed***, [RPM]	Min. Speed***, [RPM]	
	Int.*	90 [24]	Weight, kg [lb]	Weight, kg [lb]	

* Intermittent operation: the permissible values may occur for max. 10% of every minute.

** Peak load: the permissible values may occur for max. 1% of every minute.

*** For speeds lower than given, consult factory or your regional manager.

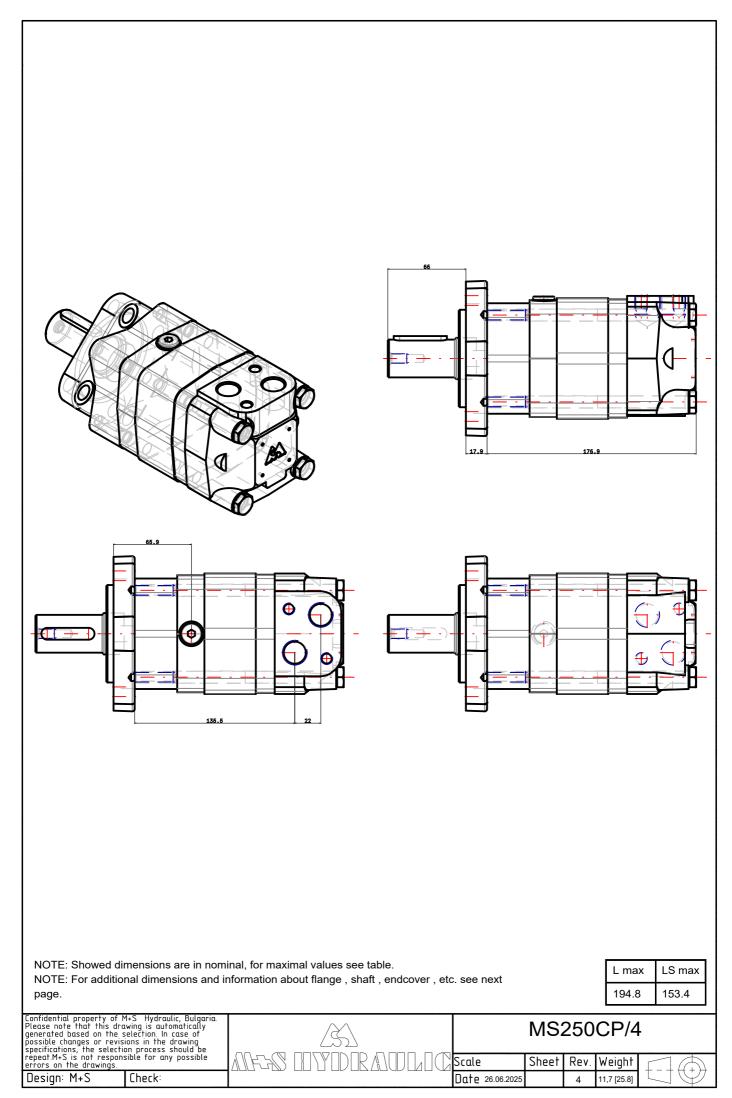
- 1. Intermittent speed and intermittent pressure drop must not occur simutaneously.
- 2. Recommended filtration is per ISO cleanliness code 20/16. A nominal filtration of 25 micron or better.
- 3. Recommend using a premium quality, anti-wear type mineral based hydraulic oil HLP(DIN51524) or HM (ISO 6743/4).
- If using synthetic fluids consult the factory for alternative seal materials.
- 4. Recommended minimum oil viscosity 13 mm²/s [70 SUS] at 50°C [122°F].
- 5. Recommended maximum system operating temperature is 82°C [180°F].
- 6. To assure optimum motor life fill with fluid prior to loading and run at moderate load and speed for 10-15 minutes.

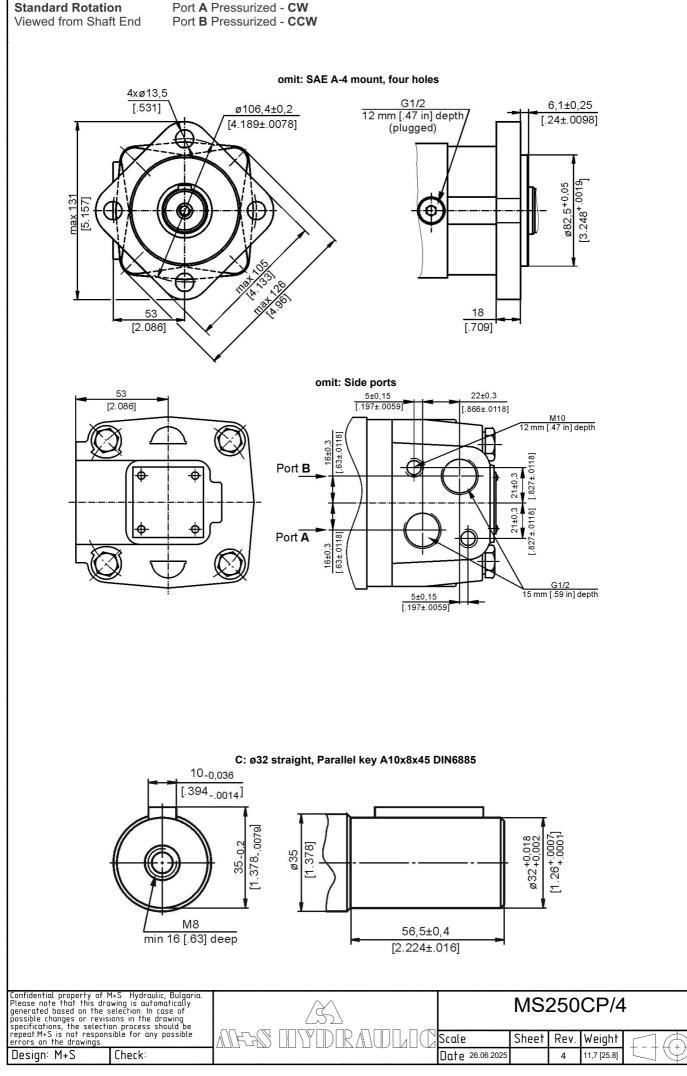


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3d generated view

To see model in 3D you should use Acrobat Reader with enable 3D view

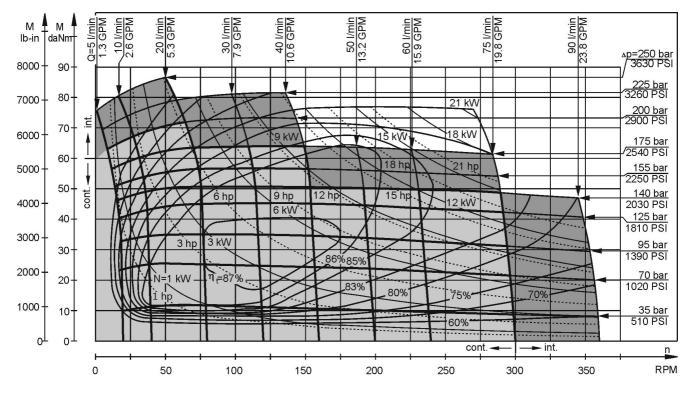






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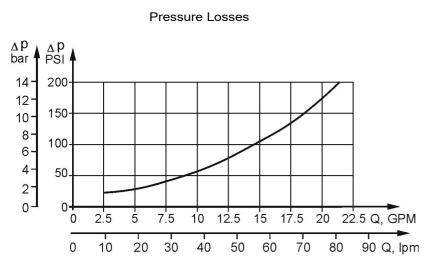
FUNCTION DIAGRAMS



The function diagrams data is for average performance of randomly selected motors at back pressure 5+10 bar [72.5+145 PSI] and oil with viscosity of 32 mm²/s [150 SUS] at 50°C [122°F].



MS250CP/4 DATA SHEET

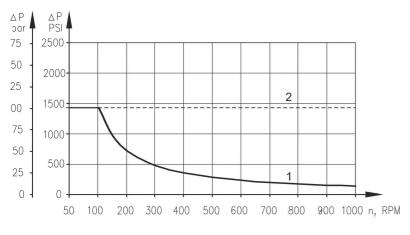


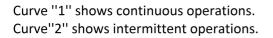
Oil flow in drain line

Pressure drop bar [PSI]	Viscosity mm²/s [SUS]	Oil flow in drain line lpm [GPM]
140 [2030]	20 [98]	1,5 [.396]
	35 [164]	1 [.264]
210 [3045]	20 [98]	3 [.793]
	35 [164]	2 [.528]

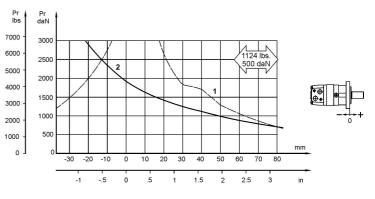
MAX: PERMISSIBLE SHAFT SEAL PRESSURE

Max. return pressure without drain line or max. pressure in the drain line





PERMISSIBLE SHAFT LOADS



Curve "1" shows critical radial shaft load. The output shaft runs in tapered bearings that permithigh axial and radial forces. The permissible radial loadon the shaft is shown (curve 2) for an axial load of 0 Nas function of the distance from the mounting flange to the point of load application. The curve 2 apply to a B10bearing life of 2000 hours at 100 RPM.

M+S Hydraulic , address - 68, Kozloduy street, 6100 Kazanlak, Bulgaria Tel.: ++359 431 65167, ++359 431 64271, FAX: +359 431 64114 E-Mail: msh@ms-hydraulic.com : URL: http://www.ms-hydraulic.com