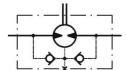


MT250CP

PRODUCT FEATURE SUMMARY

DATE: 17.06.2025 MODEL TYPE: MT250CP **Username: Evelin Badic**

CNSORDERNO (Order number)	MT250CP
MF (Mounting Flange)	omit: Square mount, four holes
PT (Port type)	omit: Side ports
DC (Displacement code)	250: 251,8 cm³/rev [15.36 in³/rev]
SE (Shaft Extensions)	C: ø40 straight, Parallel key A12x8x70 DIN6885
SSV (Shaft Seal Version)	omit: Low pressure seal
P (Ports)	omit: BSPP (ISO 228)
SFMS (Special Features Measure speed)	omit: no special features
SFRM (Special Features Reinforced motor)	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
INFO (INFO)	PDF catalog
L (mm)	203.4
L1 (mm)	27.5
L2 (mm)	153.3



DATA SHEET

Туре			Туре		
Displacement, cm3/rev [in3/rev]		251,8[15.36]		cont.	210[3050]
Max. Speed, [RPM]	cont.	496	Max. Inlet Pressure, bar [PSI]	Int.*	250[3600]
	Int.*	601		peak**	300[4350]
Max. Torque, daNm [lb-in]	cont.	73[6460]	_	cont.	140[2030]
	Int.*	88[7790]	Max. Return Pressure with Drain Line	Int.*	175[2540]
Max. Output, kW [HP]	cont.	33,5[45]	bar [PSI]	peak**	210[3050]
	Int.*	40[54]	Pressure with Unloaded Shaft, bar [PSI]		10 [150]
Max. Pressure Drop, bar [PSI]	cont.	200[2900]	Min Starting Torque, daNm [lb-in]	at max. press. drop cont.	53[4690]
	Int.*	240[3480]		at max. press. drop Int.*	63[5580]
Max. Oil Flow, Ipm [GPM]	cont.	125[33]	Min. Speed***, [RPM]		8
	Int.*	150[39.6]	Weight, kg [lb]		21 [46.3]

* 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.

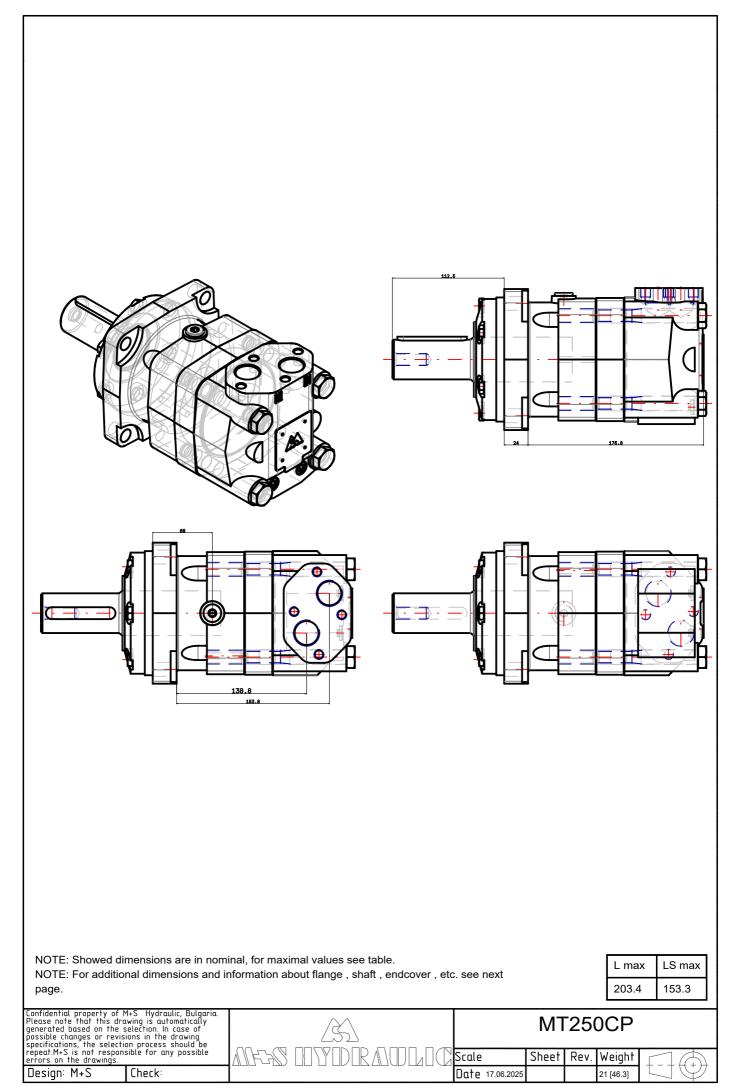
- 1. Intermittent speed and intermittent pressure drop must not occur simutaneously.
- 2. Recommended filtration is per ISO cleanliness code 20/16. A nominal filtration of 25 micron or better.
- 3. Recommend using a premium quality, anti-wear type mineral based hydraulic oil HLP(DIN51524) or HM (ISO 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.

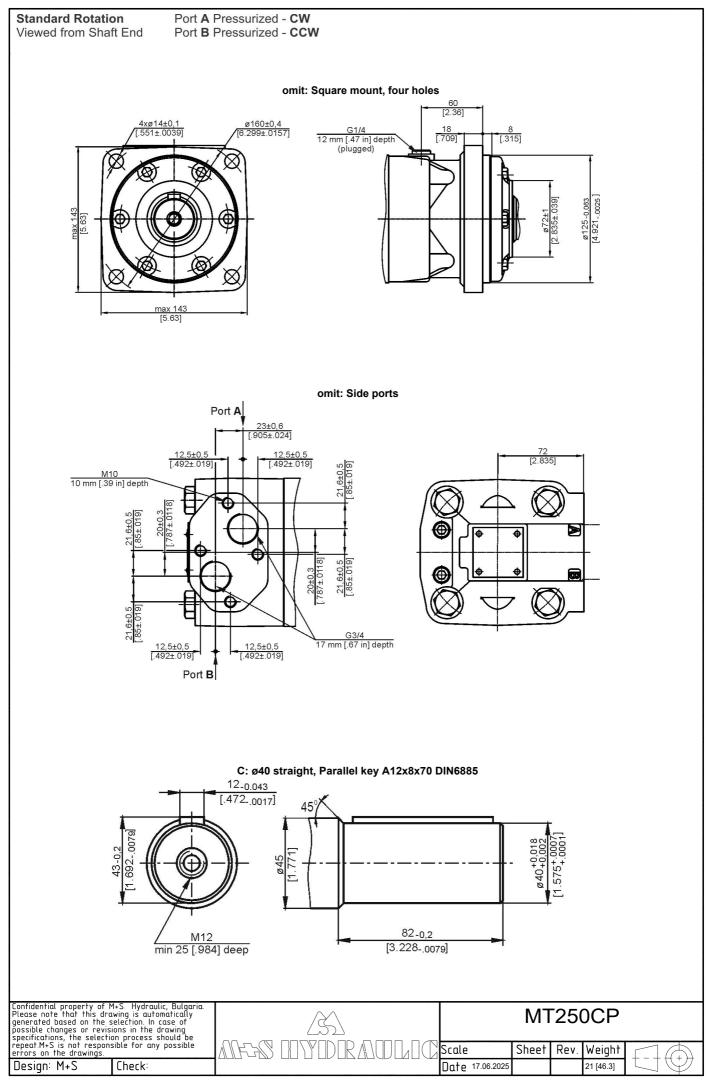


MT250CP

3d generated view

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

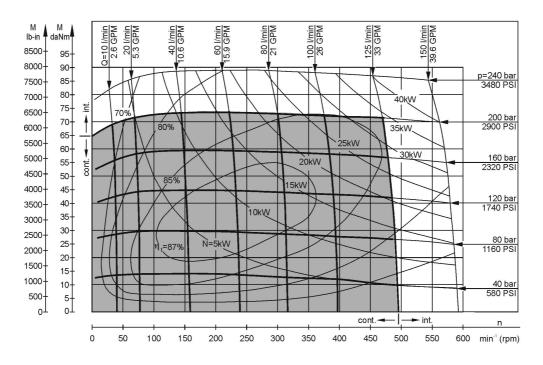






MT250CP

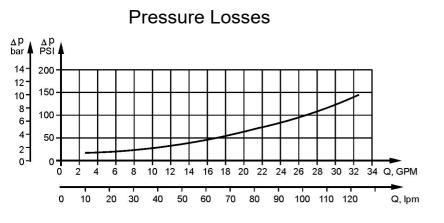
FUNCTION DIAGRAMS



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].



MT250CP DATA SHEET

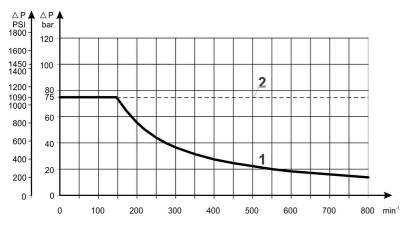


Oil flow in drain line

Pressure drop bar [PSI]	Viscosity mm²/s [SUS]	Oil flow in drain line Ipm [GPM]
140 [2030]	20 [98]	2,5[.660]
	35 [164]	1,5 [.396]
210 [3045]	20 [98]	5 [1.321]
	35 [164]	3 [.793]

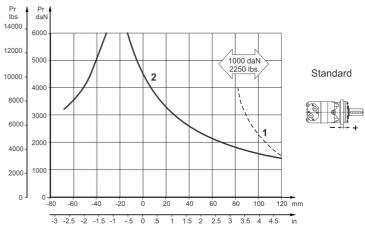
MAX: PERMISSIBLE SHAFT SEAL PRESSURE

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



Curve "1" shows continuous operations. Curve"2" shows intermittent operations.

PERMISABLE SHAFT LOAD



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 tothe point of load application. The curve 2 apply to a B10bearing life of 2000 hours at 100 RPM.

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