

MP100CUP

PRODUCT FEATURE SUMMARY

DATE: 05.05.2025 MODEL TYPE: MP100CUP **Username: Evelin Badic**

CNSORDERNO (Order number)	MP100CUP		
MF (Mounting Flange)	omit: Oval mount,two holes		
ONB (Option (needle bearings))	omit: none		
PT (Port type)	omit: Side ports		
DC (Displacement code)	100: 99,0 cm³/rev [6.04 in³/rev]		
SE (Shaft Extensions)	C: Ø25 straight, Parallel key A8x7x32 DIN6885		
SSV (Shaft Seal Version)	U: High pressure shaft seal (without check valves)		
DP (Drain Port)	omit: with drain port		
P (Ports)	omit: BSPP (ISO 228)		
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		
INFO (Info)	PDF catalog		
L (Total lengthmm)	141.78		
L1 (Length of gear wheel setmm)	13.33		
DIM (Dimension unit)	mm		

DATA SHEET

Type Displacement, cm3/rev [in3/rev]			Туре		e x	
		99 [6.04]		cont.	175 [2540]	
Max. Speed, [RPM]	cont.	605	Max. Inlet Pressure, bar [PSI]	Int.*	200 [2900]	
	Int.*	755		peak**	225 [3260]	
Max. Torque, daNm [lb-in]	cont.	19,3 [1710]		cont.	175 [2540]	
	Int.*	23,7 [2100]	Max. Return Pressure with Drain Line	Int.*	200 [2900]	
Max. Output, kW [HP]	cont.	10,5 [14.1]	bar [PSI]	peak**	225 [3260]	
	Int.*	12,8 [17.1]	Pressure wi	Pressure with Unloaded Shaft, bar [PSI]		
Max. Pressure Drop, bar [PSI]	cont.	140 [2030]	Min Starting Torque,	at max. press. drop cont.	16,6 [1470]	
	Int.*	175 [2540]	daNm [lb-in]	at max. press. drop Int.*	21 [1860]	
Max. Oil Flow, Ipm [GPM]	cont.	60 [15.9]	Min. Speed***, [RPM]	Min. Speed***, [RPM]		
	Int.*	75 [19.8]	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.

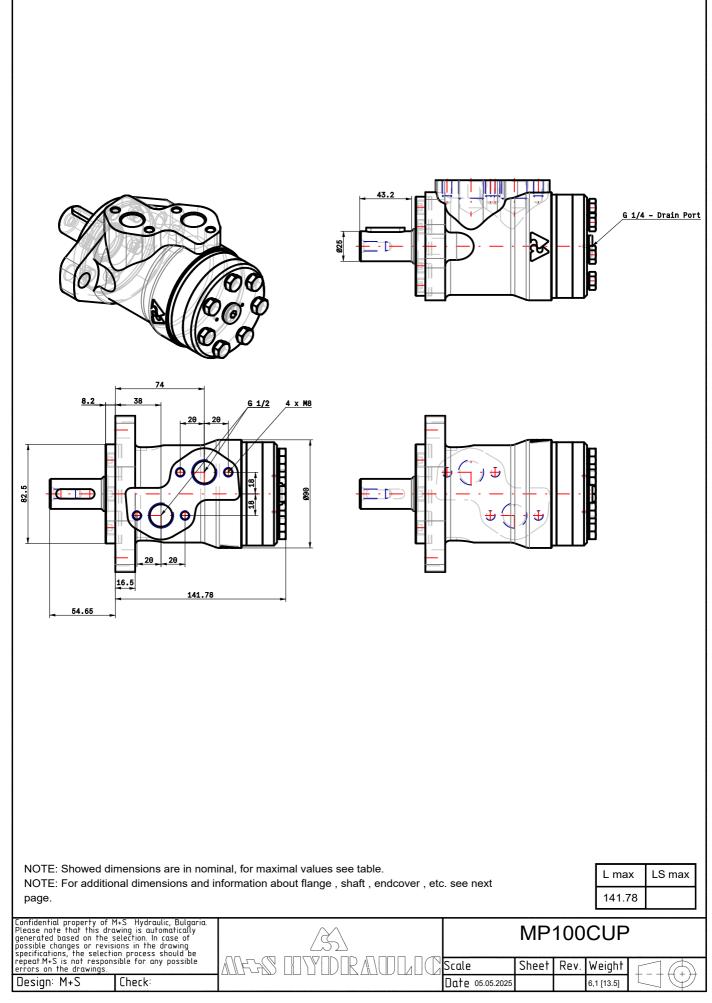
- 1. Intermittent speed and intermittent pressure drop must not occur simutaneously.
- 2. Recommended filtration is per ISO cleanliness code 20/16. A nominal filtration of 25 micron or better.
- 3. Recommend using a premium quality, anti-wear type mineral based hydraulic oil HLP(DIN51524) or HM (ISO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

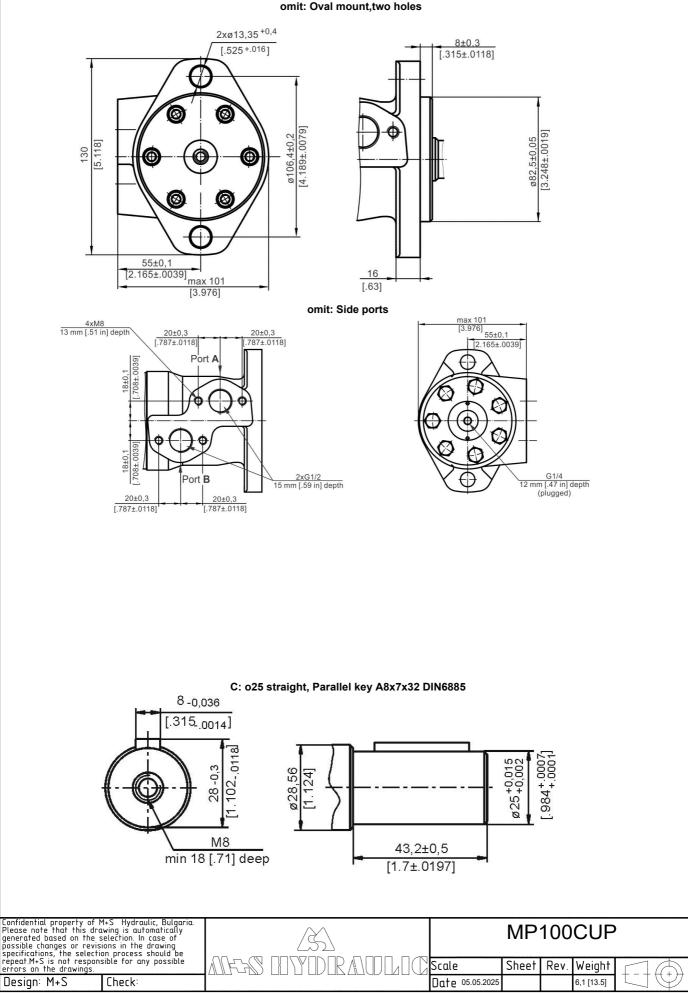


MP100CUP

3d generated view

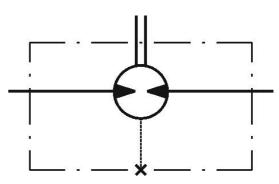
To see model in 3D you should use Acrobat Reader with enable 3D view



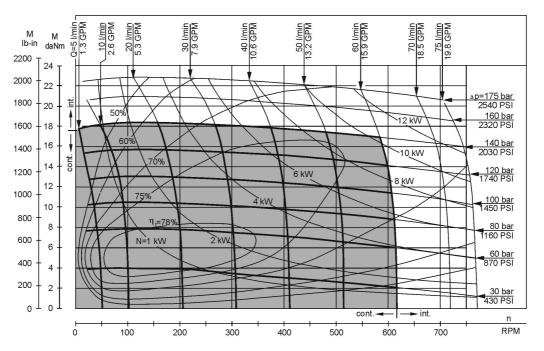




MP100CUP



The shaft seal pressure equals the pressure in the drain line

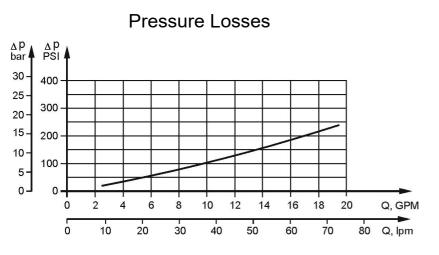


FUNCTION DIAGRAMS

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].



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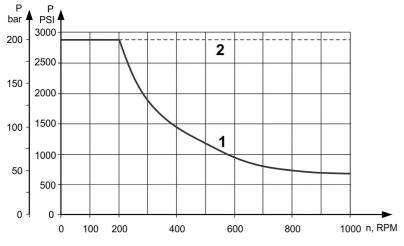


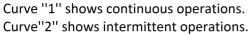
Oil flow in drain line

Pressure drop bar [PSI]	Viscosity mm²/s [SUS]	Oil flow in drain line lpm [GPM]
100 [1450]	20 [98]	2,5 [.660]
	35 [164]	1,8 [.476]
440 [2020]	20 [98]	3,5 [.925]
140 [2030]	35 [164]	2,8 [.740]

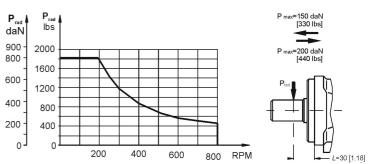
MAX: PERMISSIBLE SHAFT SEAL PRESSURE

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





PERMISSIBLE SHAFT LOADS



Radial Shaft Load Prad for C,CO Shaft Extensions by L=30mm[1.81in]

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