

### 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		
<b>OP</b> (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.

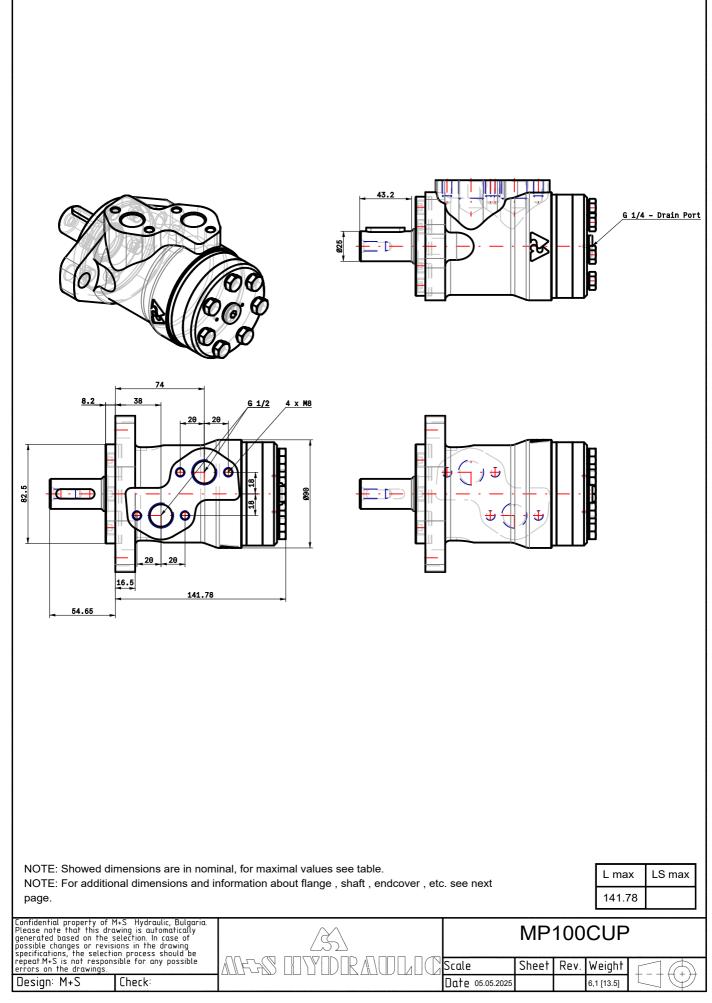
- 1. Intermittent speed and intermittent pressure drop must not occur simutaneously.
- 2. Recommended filtration is per ISO cleanliness code 20/16. A nominal filtration of 25 micron or better.
- 3. Recommend using a premium quality, anti-wear type mineral based hydraulic oil HLP(DIN51524) or HM ( ISO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

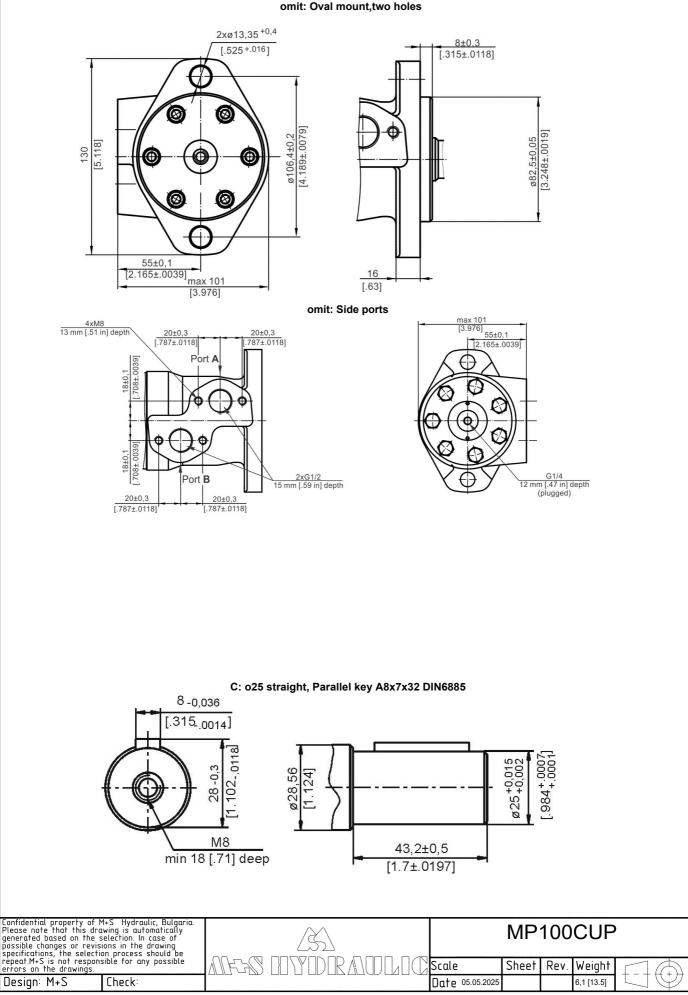


## MP100CUP

3d generated view

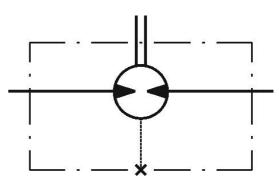
To see model in 3D you should use Acrobat Reader with enable 3D view



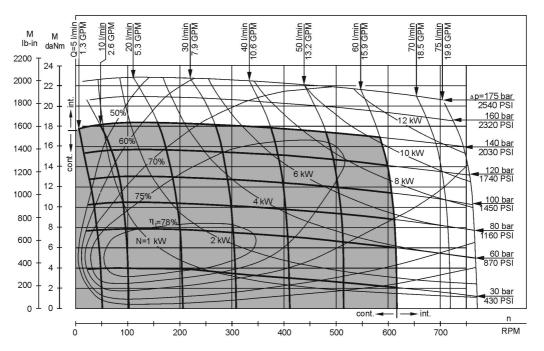




### MP100CUP



The shaft seal pressure equals the pressure in the drain line

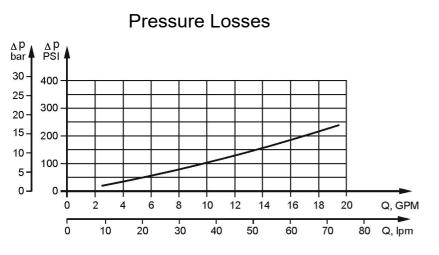


#### **FUNCTION DIAGRAMS**

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 mm<sup>2</sup>/s [150 SUS] at 50°C [122°F].



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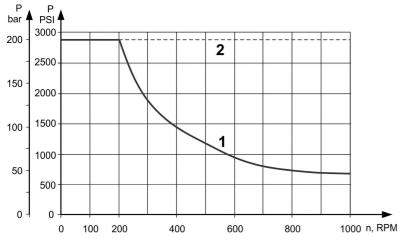


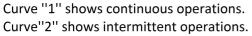
#### Oil flow in drain line

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]

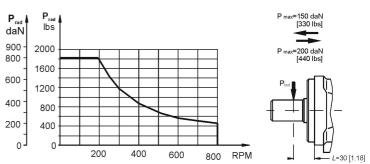
#### MAX: PERMISSIBLE SHAFT SEAL PRESSURE

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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