

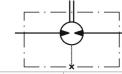
MP400CUP PRODUCT FEATURE SUMMARY

DATE: 12.06.2025 Username: Evelin Badic

MODEL TYPE: MP400CUP

CNSORDERNO (Order number)	MP400CUP	
MF (Mounting Flange)	omit: Oval mount,two holes	
ONB (Option (needle bearings))	omit: none	
PT (Port type)	omit: Side ports	
DC (Displacement code)	400: 396,0 cm³/rev [24.16 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)	181.78	
L1 (Length of gear wheel setmm)	53.33	
DIM (Dimension unit)	mm	

DATA SHEET



Type Displacement, cm3/rev [in3/rev]		
		396 [24.16]
Max. Speed, [RPM]	cont.	150
	Int.*	189
Max. Torque, daNm [lb-in]	cont.	36 [3190]
	Int.*	59 [5240]
Max. Output, kW [HP]	cont.	4,6 [6.2]
	Int.*	7,8 [10.5]
Max. Pressure Drop, bar [PSI]	cont.	70 [1015]
	Int.*	115 [1665]
Max. Oil Flow, Ipm [GPM]	cont.	60 [15.9]
	Int.*	75 [19.8]

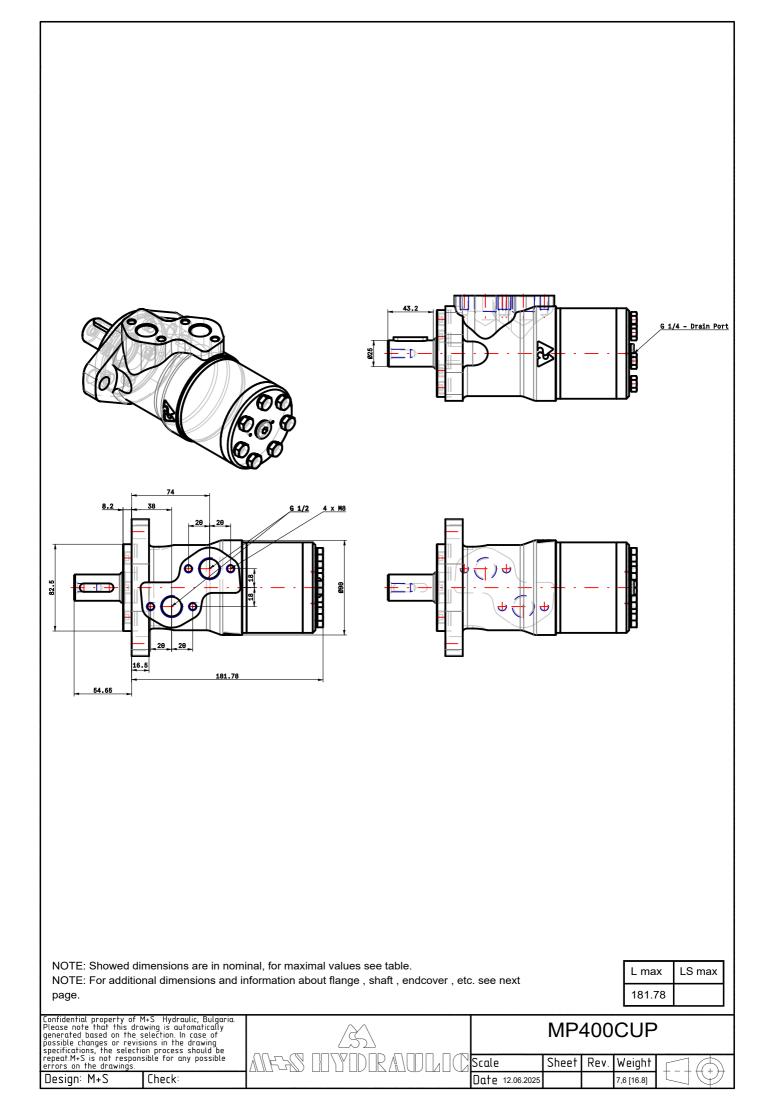
Туре		
Max. Inlet Pressure, bar [PSI]	cont.	175 [2540]
	Int.*	200 [2900]
	peak**	225 [3260]
Max. Return Pressure with Drain Line bar [PSI]	cont.	175 [2540]
	Int.*	200 [2900]
	peak**	225 [3260]
Pressure with Unloaded Shaft, bar [PSI]		5 [73]
Min Starting Torque, daNm [lb-in]	at max. press. drop cont.	34,5 [3050]
	at max. press. drop Int.*	60,8 [5390]
Min. Speed***, [RPM]		10
Weight, kg [lb]		7,6 [16.8]

- * 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.



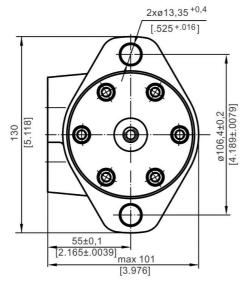
MP400CUP 3d generated view

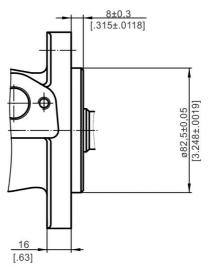
To see model in 3D you should use Acrobat Reader with enable 3D view



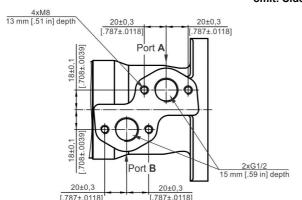
page 3/6

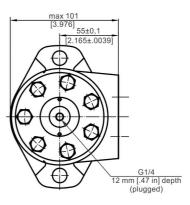
omit: Oval mount,two holes



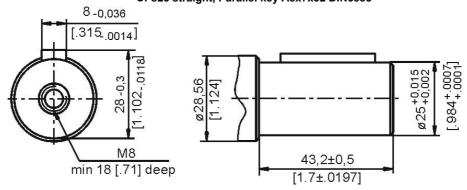


omit: Side ports





C: o25 straight, Parallel key A8x7x32 DIN6885



Confidential property of M+S Hydraulic, Bulgaria. Please note that this drawing is automatically generated based on the selection. In case of possible changes or revisions in the drawing specifications, the selection process should be repeat M+S is not responsible for any possible errors on the drawings.

Design: M+S Check:



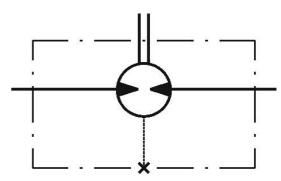
MP4	00CUF)
-----	-------	---

Scale Sheet Rev. Weight

Date 12.06.2025 7,6 [16.8]

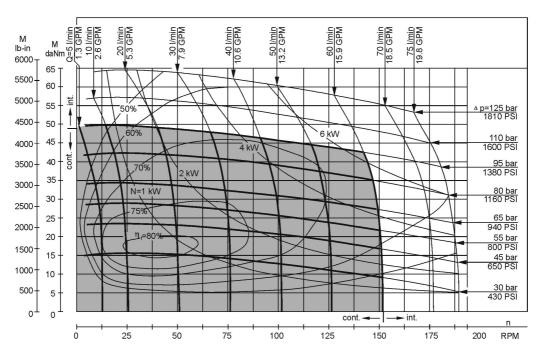


MP400CUP



The shaft seal pressure equals the pressure in the drain line

FUNCTION DIAGRAMS

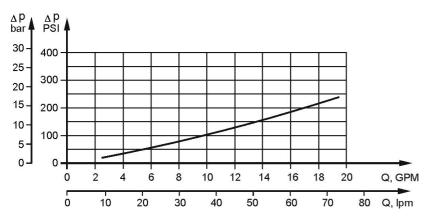


The function diagrams data is for average performance of randomly selected motors at back pressure $5+10 \text{ bar } [72.5\div145 \text{ PSI}]$ and oil with viscosity of $32 \text{ mm}^2/\text{s} [150 \text{ SUS}]$ at $50^{\circ}\text{C} [122^{\circ}\text{F}]$.



MP400CUP DATA SHEET

Pressure Losses

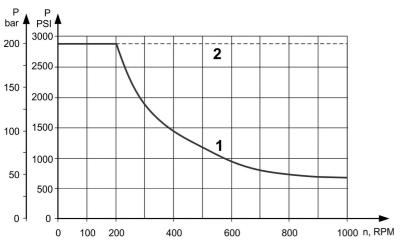


Oil flow in drain line

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]
140 [2030]	20 [98]	3,5 [.925]
	35 [164]	2,8 [.740]

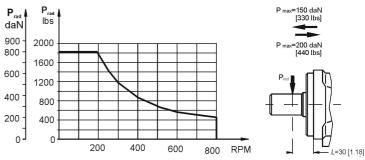
MAX: PERMISSIBLE SHAFT SEAL PRESSURE

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



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

PERMISSIBLE SHAFT LOADS



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

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