

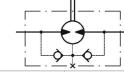
# MP400CDP PRODUCT FEATURE SUMMARY

DATE: 10.06.2025 Username: Evelin Badic

**MODEL TYPE: MP400CDP** 

CNSORDERNO (Order number)	MP400CDP	
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)	D: Standard shaft seal	
<b>DP</b> (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**



•	Гуре	
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 wi	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]

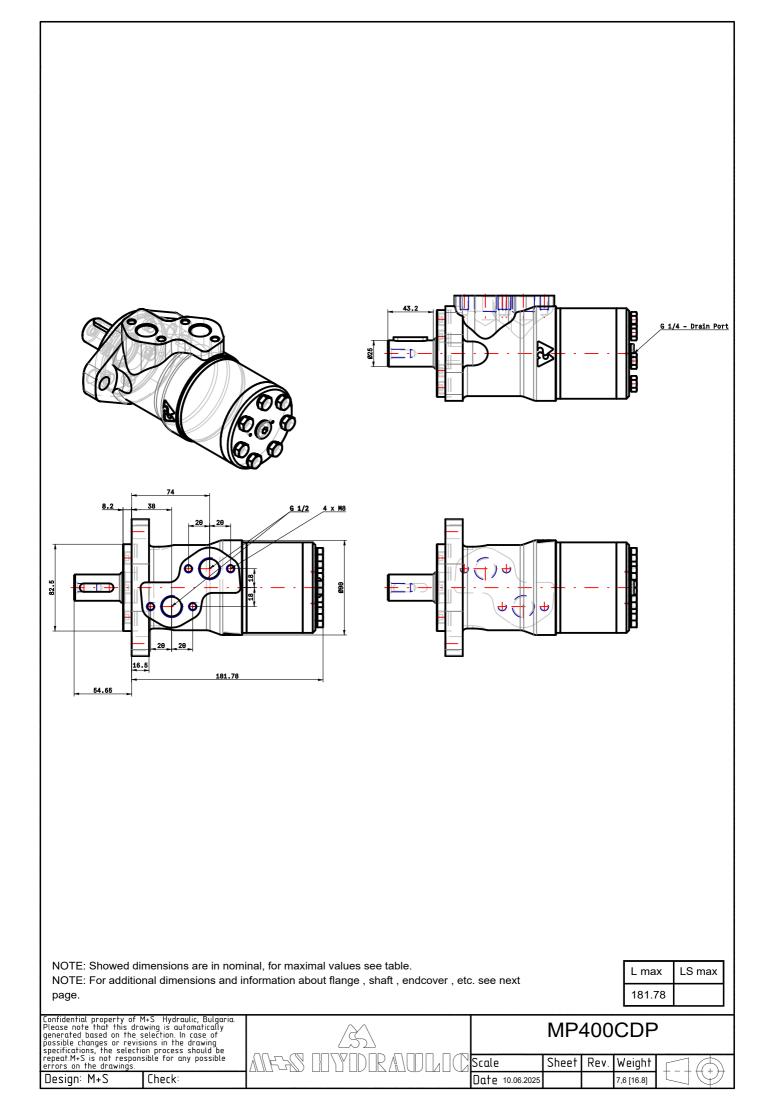
- \* Intermittent operation: the permissible values may occur for max. 10% of every minute.
- \*\* Peak load: the permissible values may occur for max. 1% of every minute.
- \*\*\* For speeds lower than given, consult factory or your regional manager.
- 1. Intermittent speed and intermittent pressure 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 mm<sup>2</sup>/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.



## MP400CDP

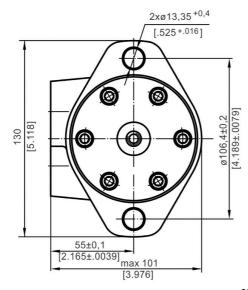
3d generated view

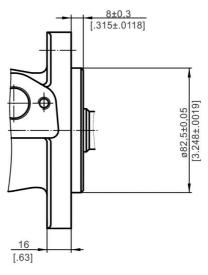
To see model in 3D you should use Acrobat Reader with enable 3D view

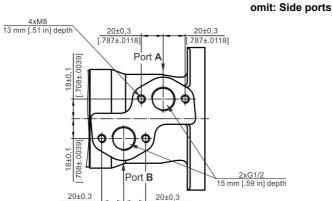


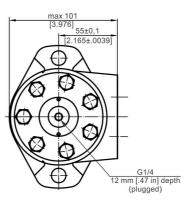
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#### omit: Oval mount,two holes

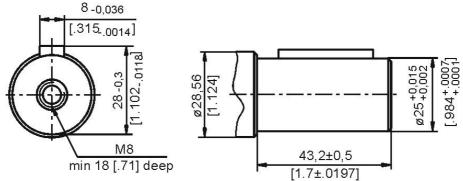








#### C: o25 straight, Parallel key A8x7x32 DIN6885



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Design: M+S Check:

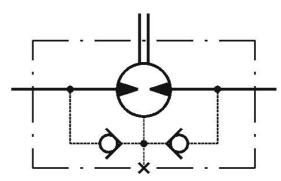


MP400	CDP
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Scale Sheet Rev. Weight
Date 10.06.2025 7,6 [16.8]

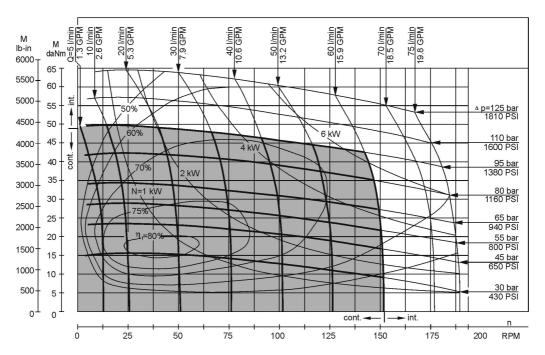


### MP400CDP



The shaft seal pressure equals the pressure in the drain line

### **FUNCTION DIAGRAMS**

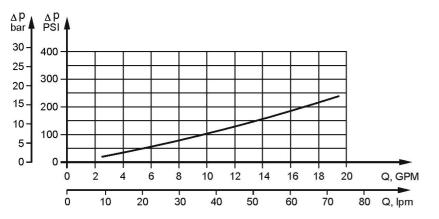


The function diagrams data is for average performance of randomly selected motors at back pressure 5÷10 bar [72.5÷145 PSI] and oil with viscosity of 32 mm²/s [150 SUS] at 50°C [122°F].



## MP400CDP DATA SHEET

### **Pressure Losses**

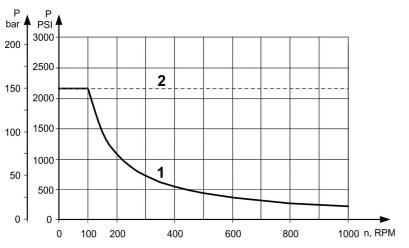


### Oil flow in drain line

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]

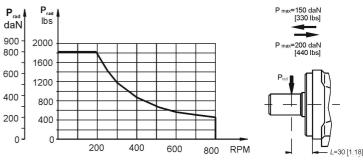
### MAX: PERMISSIBLE SHAFT SEAL PRESSURE

## 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]

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