

# MP250CDP

## PRODUCT FEATURE SUMMARY

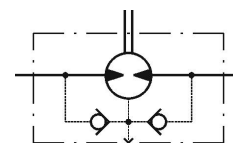
DATE: 05.05.2025

Username: Evelin Badic

MODEL TYPE: MP250CDP

<b>CNSORDERNO</b> (Order number)	MP250CDP
<b>MF</b> (Mounting Flange)	omit: Oval mount, two holes
<b>ONB</b> (Option (needle bearings))	omit: none
<b>PT</b> (Port type)	omit: Side ports
<b>DC</b> (Displacement code)	250: 247,5 cm <sup>3</sup> /rev [15.10 in <sup>3</sup> /rev]
<b>SE</b> (Shaft Extensions)	C: Ø25 straight, Parallel key A8x7x32 DIN6885
<b>SSV</b> (Shaft Seal Version)	D: Standard shaft seal
<b>DP</b> (Drain Port)	omit: with drain port
<b>P</b> (Ports)	omit: BSPP (ISO 228)
<b>SFMS</b> (Special Features Measure speed)	omit: no special features
<b>SFGWS</b> (Special Features of gear wheel set)	omit: no special features
<b>SFDR</b> (Special Features - Direction of rotation)	omit: Standard
<b>OP</b> (Option (Paint))	P: Paint
<b>INFO</b> (Info)	PDF catalog
<b>L</b> (Total lengthmm)	161.78
<b>L1</b> (Length of gear wheel setmm)	33.33
<b>DIM</b> (Dimension unit)	mm

## DATA SHEET



Type	
<b>Displacement, cm<sup>3</sup>/rev [in<sup>3</sup>/rev]</b>	247,5 [15.1]
<b>Max. Speed, [RPM]</b>	cont. 242 Int.* 303
<b>Max. Torque, daNm [lb-in]</b>	cont. 38 [3360] Int.* 58,3 [5160]
<b>Max. Output, kW [HP]</b>	cont. 7,5 [10] Int.* 12 [16.1]
<b>Max. Pressure Drop, bar [PSI]</b>	cont. 110 [1600] Int.* 175 [2540]
<b>Max. Oil Flow, lpm [GPM]</b>	cont. 60 [15.9] Int.* 75 [19.8]

Type	
<b>Max. Inlet Pressure, bar [PSI]</b>	cont. 175 [2540] Int.* 200 [2900] peak** 225 [3260]
<b>Max. Return Pressure with Drain Line bar [PSI]</b>	cont. 175 [2540] Int.* 200 [2900] peak** 225 [3260]
<b>Pressure with Unloaded Shaft, bar [PSI]</b>	6 [87]
<b>Min Starting Torque, daNm [lb-in]</b>	at max. press. drop cont. 33,6 [2970] at max. press. drop Int.* 54,2 [4795]
<b>Min. Speed***, [RPM]</b>	10
<b>Weight, kg [lb]</b>	6,8 [15]

\* 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.

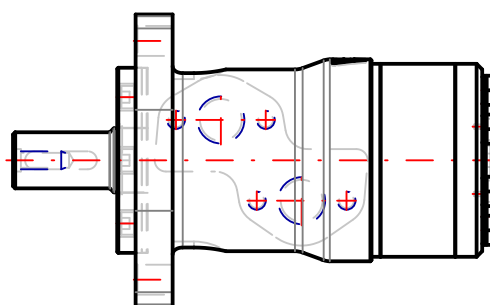
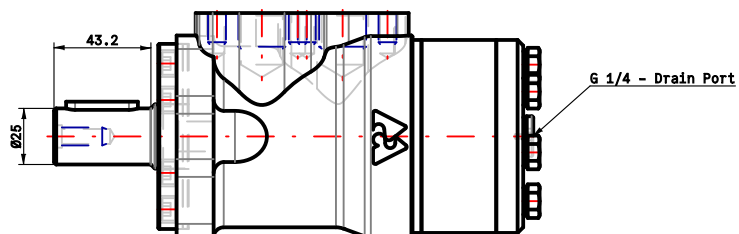
\*\*\* For speeds lower than given, consult factory or your regional manager.

- Intermittent speed and intermittent pressure drop must not occur simultaneously.
- Recommended filtration is per ISO cleanliness code 20/16. A nominal filtration of 25 micron or better.
- 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.
- Recommended minimum oil viscosity 13 mm<sup>2</sup>/s [70 SUS] at 50°C [122°F].
- Recommended maximum system operating temperature is 82°C [180°F].
- To assure optimum motor life fill with fluid prior to loading and run at moderate load and speed for 10-15 minutes.

# **MP250CDP**

**3d generated view**

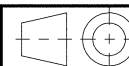
**To see model in 3D you should use Acrobat Reader with enable 3D view**



L max	LS max
161.78	

  
M+S HYDRAULIC

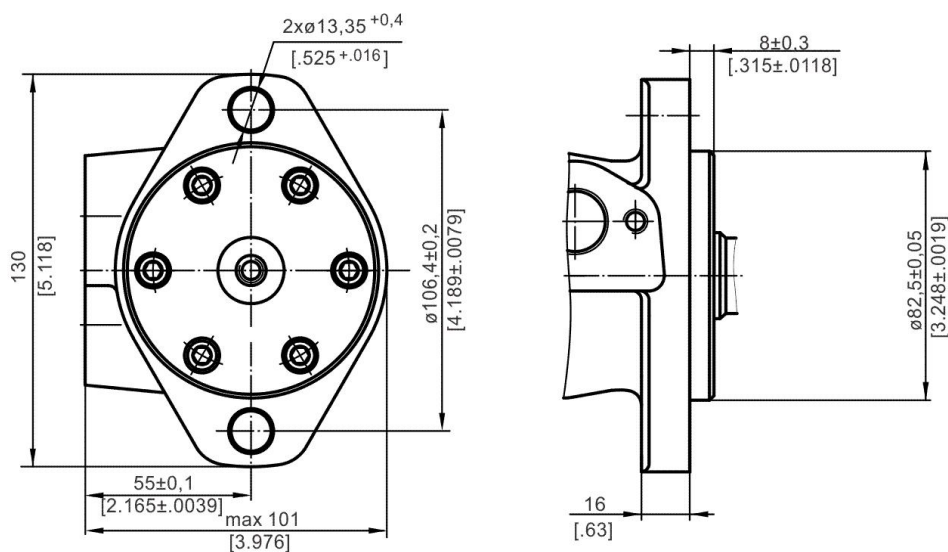
Scale	Sheet	Rev.	Weight
Date 05.05.2025			6,8 [15]



**Standard Rotation**  
Viewed from Shaft End

Port **A** Pressurized - **CW**  
Port **B** Pressurized - **CCW**

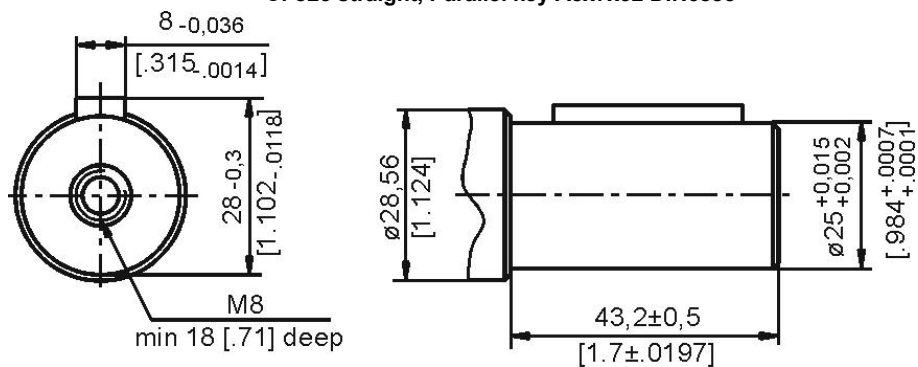
omit: Oval mount,two holes



omit: Side ports



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



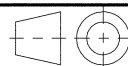
Confidential property of M+S Hydraulic, Bulgaria.  
Please note that this drawing is automatically  
generated based on the selection. In case of  
possible changes or revisions in the drawing  
specifications, the selection process should be  
repeat M+S is not responsible for any possible  
errors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

Design: M+S Check:

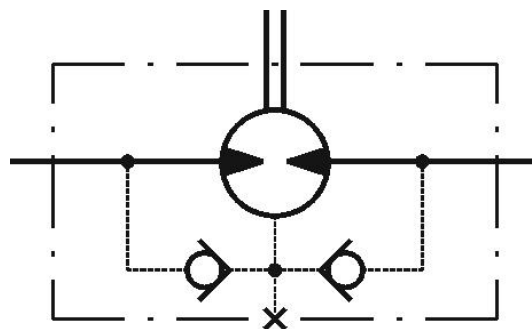
**M+S HYDRAULIC**

**MP250CDP**

Scale	Sheet	Rev.	Weight
Date 05.05.2025			6.8 [15]

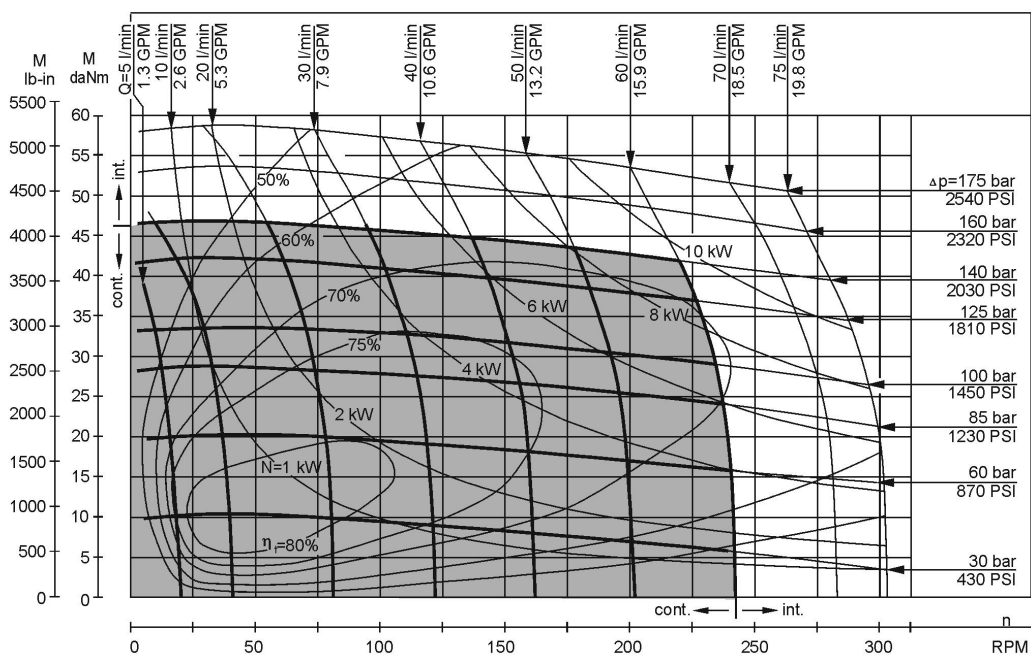


# MP250CDP



The shaft seal pressure equals the pressure in the drain line

## FUNCTION DIAGRAMS

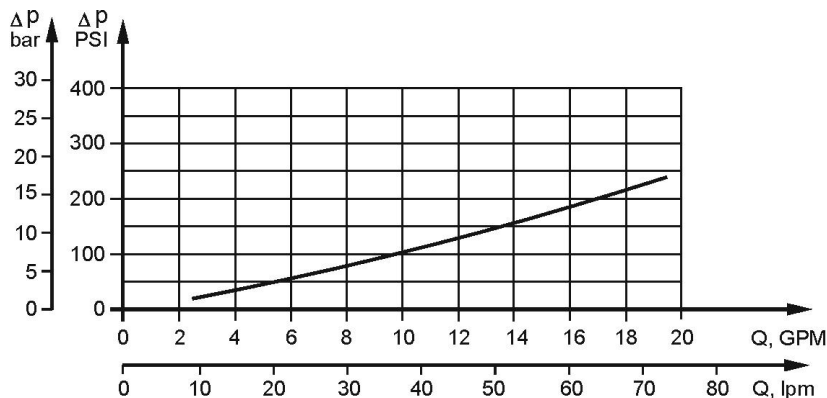


The function diagrams data is for average performance of randomly selected motors at back pressure 5÷10 bar [72.5÷145 PSI] and oil with viscosity of 32 mm<sup>2</sup>/s [150 SUS] at 50°C [122°F].

# MP250CDP

## DATA SHEET

### Pressure Losses

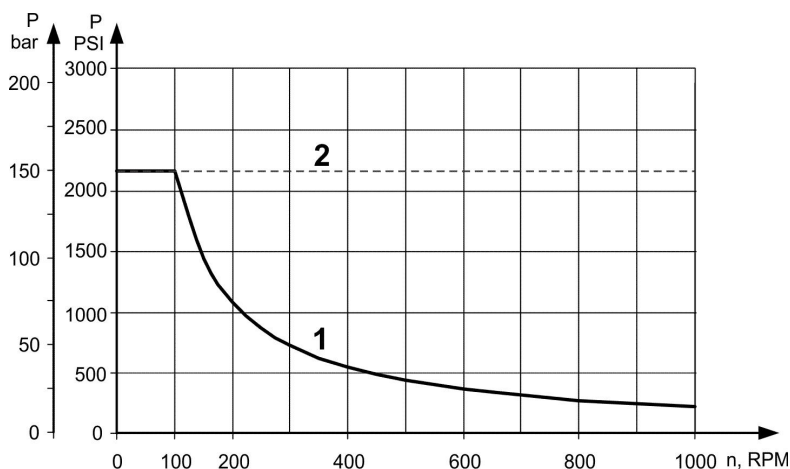


### Oil flow in drain line

Pressure drop bar [PSI]	Viscosity mm <sup>2</sup> /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]

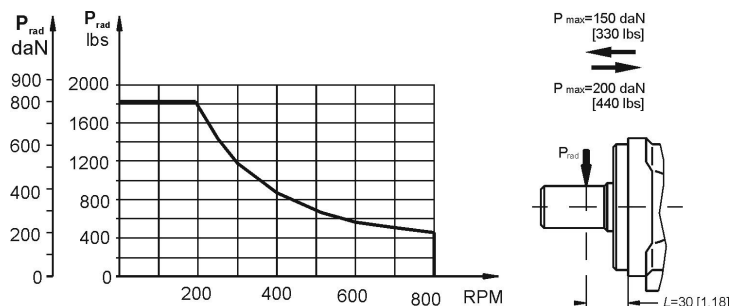
### MAX: PERMISSIBLE SHAFT SEAL PRESSURE

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]