

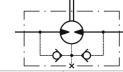
# MP250CODP PRODUCT FEATURE SUMMARY

DATE: 16.05.2025 Username: Evelin Badic

**MODEL TYPE: MP250CODP** 

CNSORDERNO (Order number)	MP250CODP	
MF (Mounting Flange)	omit: Oval mount,two holes	
ONB (Option (needle bearings))	omit: none	
PT (Port type)	omit: Side ports	
DC (Displacement code)	250: 247,5 cm³/rev [15.10 in³/rev]	
SE (Shaft Extensions)	CO: o1" straight, Parallel key 1"x1"x1 ½" BS46	
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)	161.78	
L1 (Length of gear wheel setmm)	33.33	
DIM (Dimension unit)	mm	

### **DATA SHEET**



Type Displacement, cm3/rev [in3/rev]		
		247,5 [15.1]
Max. Speed, [RPM]	cont.	242
	Int.*	303
Max. Torque, daNm [lb-in]	cont.	38 [3360]
	Int.*	58,3 [5160]
Max. Output, kW [HP]	cont.	7,5 [10]
	Int.*	12 [16.1]
Max. Pressure Drop, bar [PSI]	cont.	110 [1600]
	Int.*	175 [2540]
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	6 [87]	
Min Starting Torque, daNm [lb-in]	at max. press. drop cont.	33,6 [2970]
	at max. press. drop Int.*	54,2 [4795]
Min. Speed***, [RPM]		10
Weight, kg [lb]		6,8 [15]

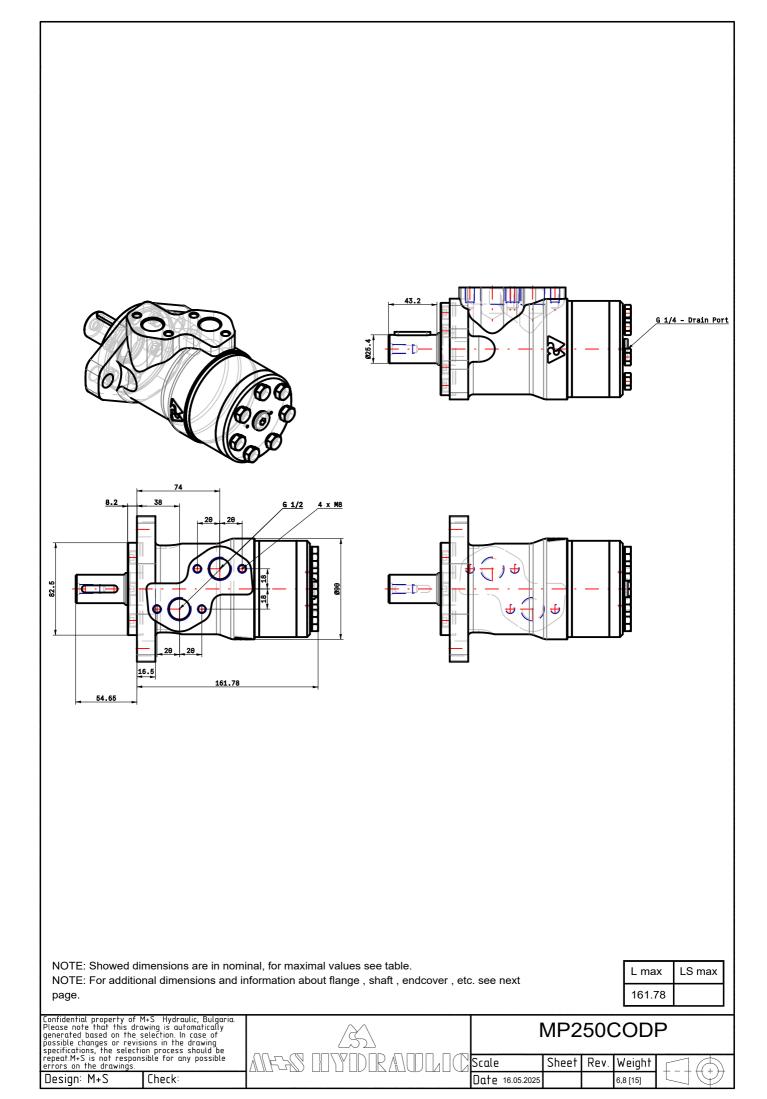
- \* Intermittent operation: the permissible values may occur for max. 10% of every minute.
- \*\* Peak load: the permissible values may occur for max. 1% of every minute.
- \*\*\* For speeds lower than given, consult factory or your regional manager.
- 1. Intermittent speed and intermittent pressure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



## MP250CODP

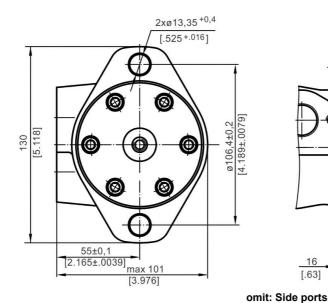
3d generated view

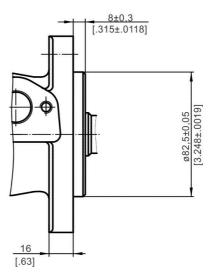
To see model in 3D you should use Acrobat Reader with enable 3D view



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#### omit: Oval mount,two holes





4xM8 13 mm [.51 in] depth

20±0,3 [.787±.0118]

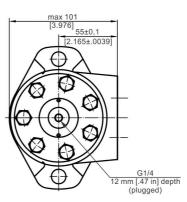
Port A

Port B

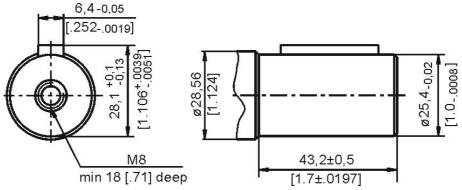
2xG1/2

15 mm [.59 in] depth

20±0,3



#### CO: o1" straight, Parallel key 1"x1"x11" BS46



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Design: M+S Check:



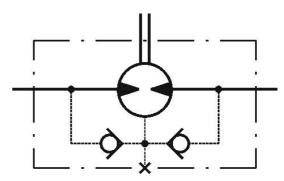
MP250CODP

Scale Sheet Rev. Weight

Date 16.05.2025 6,8 [15]

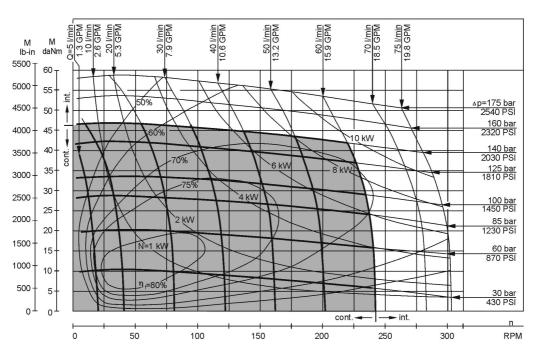


### MP250CODP



The shaft seal pressure equals the pressure in the drain line

### **FUNCTION DIAGRAMS**

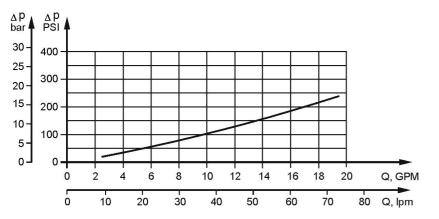


The function diagrams data is for average performance of randomly selected motors at back pressure  $5+10 \text{ bar } [72.5\div145 \text{ PSI}]$  and oil with viscosity of  $32 \text{ mm}^2/\text{s} [150 \text{ SUS}]$  at  $50^{\circ}\text{C} [122^{\circ}\text{F}]$ .



# MP250CODP DATA SHEET

### **Pressure Losses**

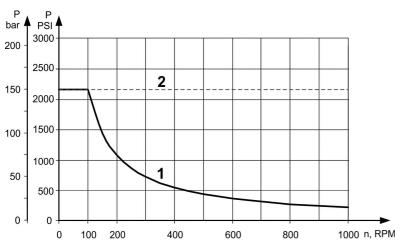


### Oil flow in drain line

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]

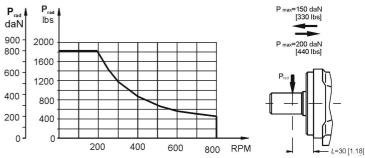
### MAX: PERMISSIBLE SHAFT SEAL PRESSURE

## 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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