

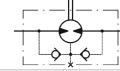
# MH500CP PRODUCT FEATURE SUMMARY

DATE: 24.04.2024 Username: Evelin Badic

**MODEL TYPE: MH500CP** 

CNSORDERNO (order number)	MH500CP	
DC (Displacement code)	500: 502,4 cm³/rev [30.7 in /rev]	
SE (Shaft Extensions)	C:ø32 straight, Parallel key A10x8x45 DIN 6885	
SSV (Shaft Seal Version)	omit: Low pressure seal (integrated check valves)	
<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 (mm)	211	
<b>L1</b> (mm)	69.4	

### **DATA SHEET**



Type Displacement, cm3/rev [in3/rev]		
		502,4 [30.7]
Max. Speed, [RPM]	cont.	150
	Int.*	180
Max. Torque, daNm [lb-in]	cont.	82 [7257]
	Int.*	104 [9204]
Max. Output, kW [HP]	cont.	11 [14.7]
	Int.*	14 [18.7]
Max. Pressure Drop, bar [PSI]	cont.	125 [1810]
	Int.*	160 [2320]
Max. Oil Flow, [RPM]	cont.	75 [19.81]
	Int.*	90 [23.78]

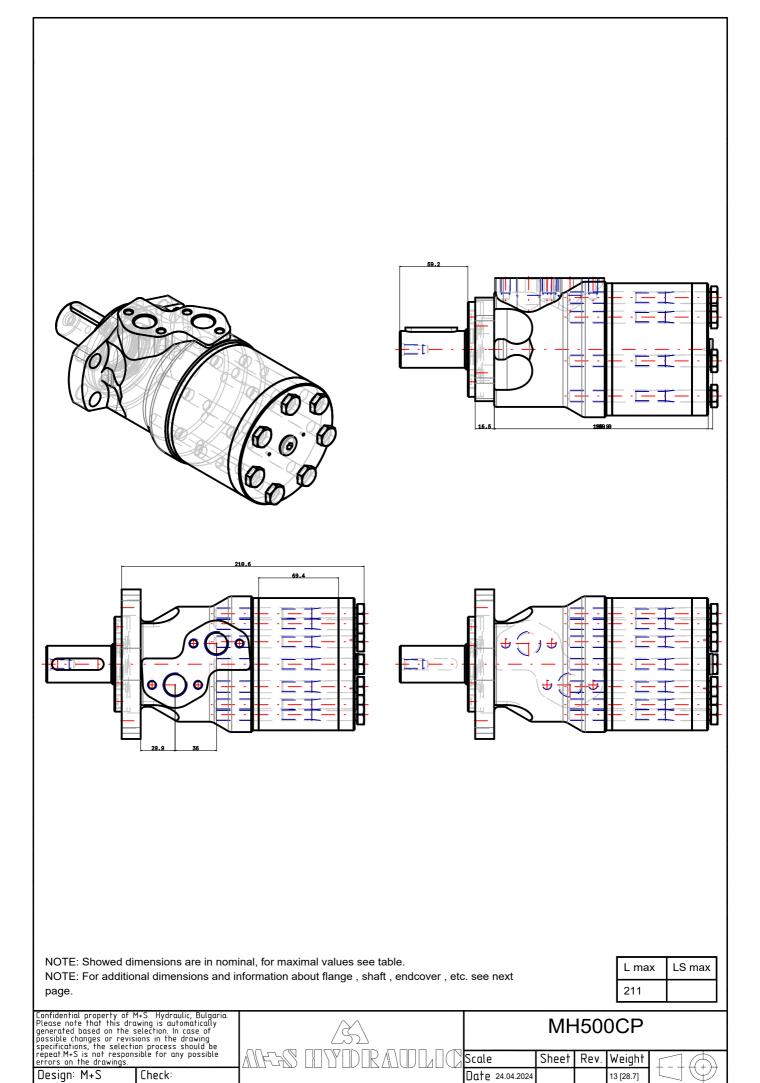
Туре		
Max. Inlet Pressure, bar [PSI]	cont.	200 [2900]
	Int.*	225 [3260]
	peak**	250 [3626]
Max. Return Pressure with Drain Line bar [PSI]	cont.	72 [6370]
	Int.*	88 [7788]
	peak**	
Pressure with	5 [72]	
Min Starting Torque, daNm [lb-in]	at max. press. drop cont.	-
	at max. press. drop Int.*	-
Min. Speed***, [RPM]		5
Weight, kg [lb]		13 [28.7]

- \* 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.

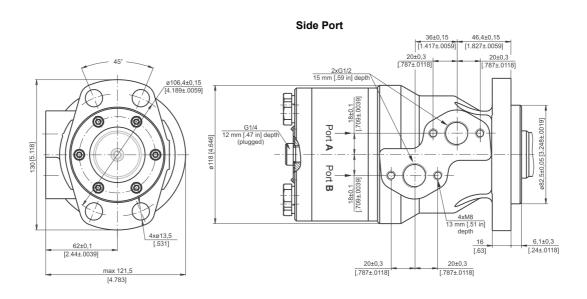


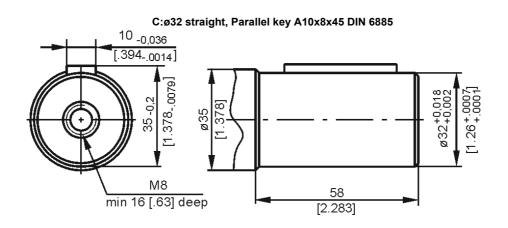
# MH500CP 3d generated view

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



Standard Rotation Viewed from Shaft End Port A Pressurized - CW Port B Pressurized - CCW





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:

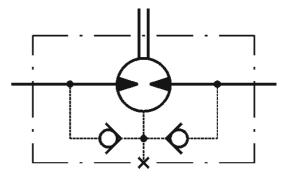
AFS COYORADLOC<mark>s</mark>

MH500CP

Scale Sheet Rev. Weight
Date 24.04.2024 13 [28.7]

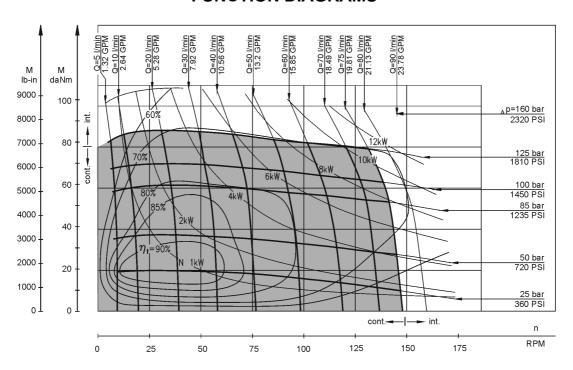


### **MH500CP**



Hydraulic scheme with standard shaft seal and with drain connection

#### **FUNCTION DIAGRAMS**

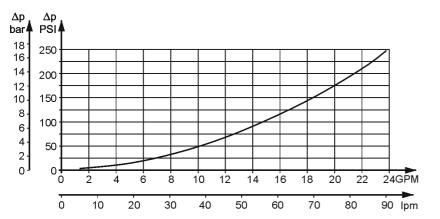


The function diagrams data is for average performance of randomly selected motors at back pressure 5÷10 bar [72.5÷145 PSI] and oil with viscosity of 32 mm²/s [150 SUS] at 50°C [122°F].



## MH500CP DATA SHEET

#### **Pressure Losses**

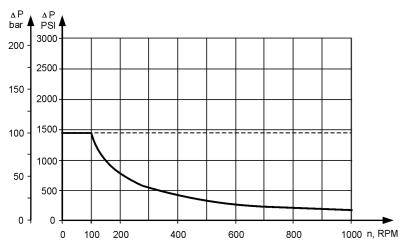


#### Oil flow in drain line

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

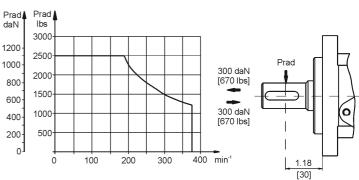
## Max. return pressure without drain line or max. pressure in the drain line



Black Curve shows continuous operations.

Dashed Curve shows intermittent operations.

#### PERMISSIBLE SHAFT LOADS



The permissible radial shaft load depends on the speed RPM and distance from the point of load to the mounting flange.

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