

### **MR80COP**

### **PRODUCT FEATURE SUMMARY**

### ATE. 40.04.0004

**Username: Evelin Badic** 

DATE: 1	2.04.20	)24
MODEL	TYPE:	MR80COP

CNSORDERNO (Order number)	MR80COP	
MF (Mounting Flange)	omit: Oval mount,two holes	
ONB (Option (needle bearings))	omit: none	
PT (Port type)	omit: Side ports	
DC (Displacement code)	80: 80,3 cm³/rev [4.90 in³/rev]	
SE (Shaft Extensions)	CO: ø1" straight, Parallel key ¼"x¼"x1¼" BS46	
SSV (Shaft Seal Version)	omit: Low pressure shaft seal or Standard shaft seal for "B" shaft	
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	
<b>OP</b> (Option (Paint))	P: Paint	
INFO (Info)	PDF CAtalog	
L (mm)	141.8	
L1 (mm)	14	



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Туре					
Displacement, cm3/rev [in3/r	ev]	80,3 [4.90]	cont.		175 [2540]
Max. Speed,	cont.	750	Max. Inlet Pressure, bar [PSI]	Int.*	200 [2900]
[RPM]	Int.* 940	peak**	225 [3260]		
Max. Torque,	cont.	20 [1770]		cont.	175 [2540]
daNm [lb-in]	[lb-in] Int.* 22 [1947] Max. Return Pressure with Drain Line	Int.*	200 [2900]		
Max. Output,	cont.	12,5 [17]	bar [PSI]	peak**	225 [3260]
kW [HP]	Int * 15 [20 1]	th Unloaded Shaft, bar [PSI]	10 [145]		
Max. Pressure Drop,	cont.	175 [2540]	Min Starting Torque,	at max. press. drop cont.	15 [1330]
bar [PSI]	Int.*	200 [2900]	daNm [lb-in]	at max. press. drop Int.*	17 [1505]
Max. Oil Flow,	v, cont. 60 [15.9] Min. Speed***, [RPM]	Min. Speed***, [RPM]		10	
[RPM]	Int.*	75 [19.8]	Weight, kg [lb]	Weight, kg [lb]	

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.

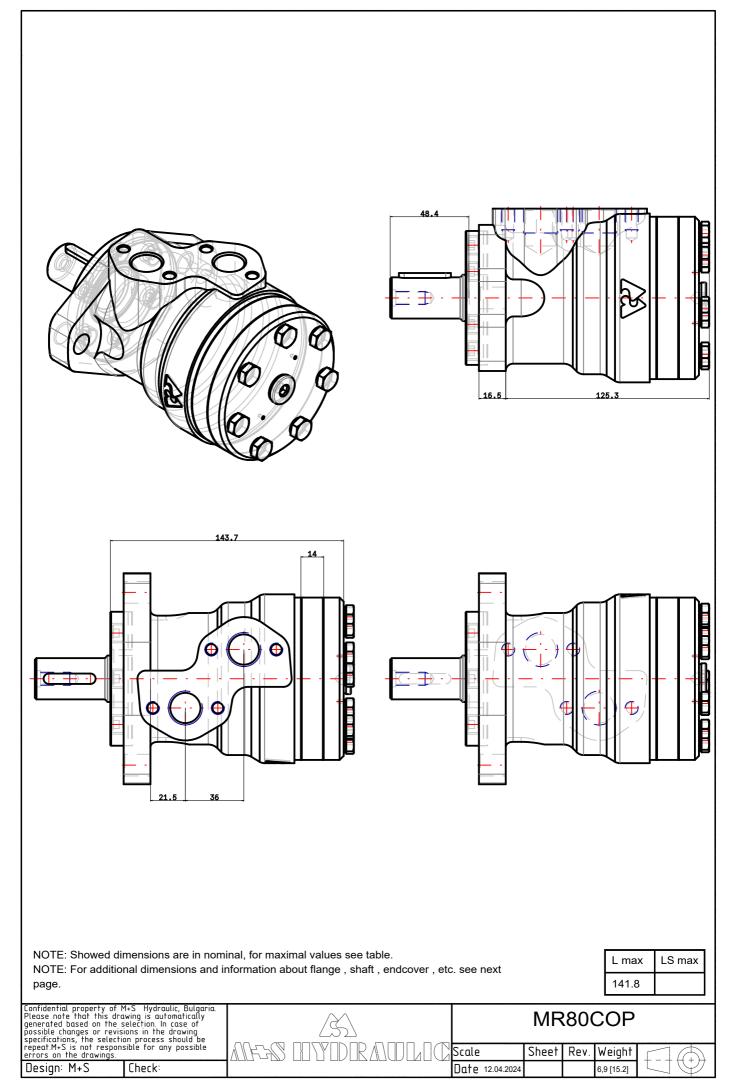
- 1. Intermittent speed and intermittent pressure drop must not occur simutaneously.
- 2. Recommended filtration is per ISO cleanliness code 20/16. A nominal filtration of 25 micron or better.
- 3. Recommend using a premium quality, anti-wear type mineral based hydraulic oil HLP(DIN51524) or HM ( ISO 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.

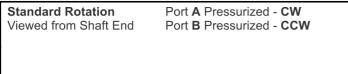


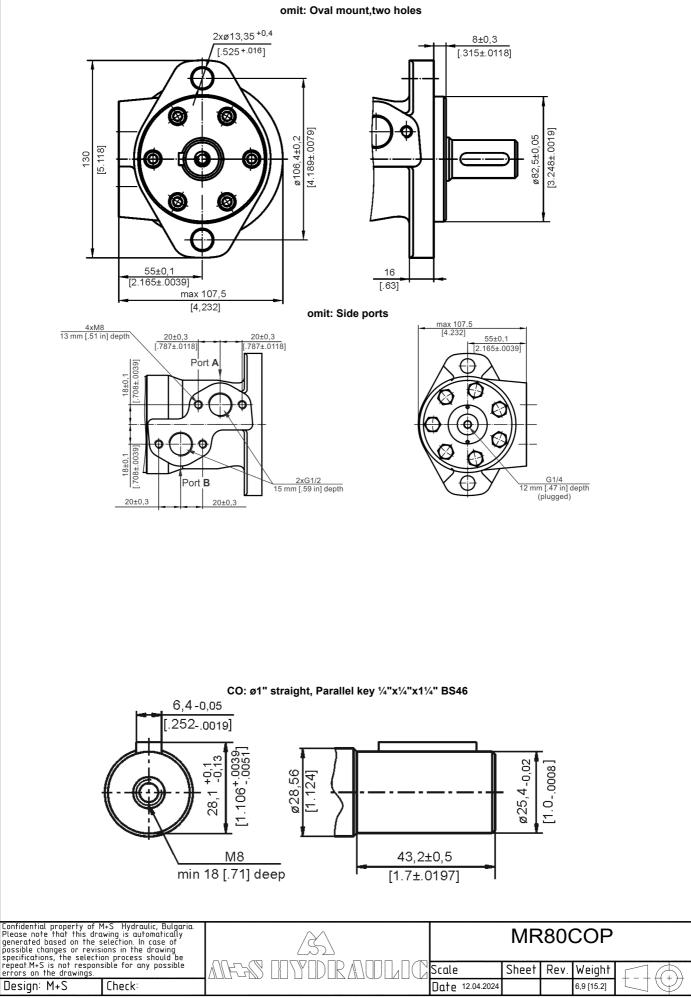
# MR80COP

3d generated view

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

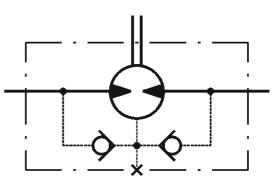




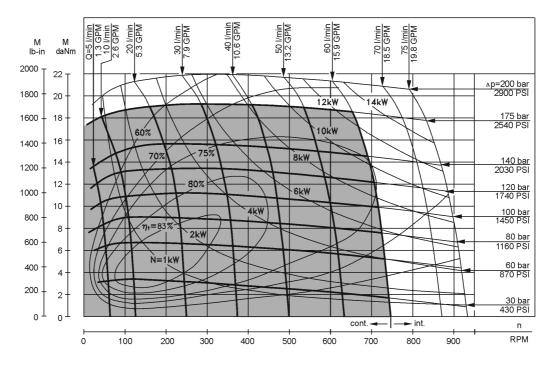




## MR80COP



The shaft seal pressure equals the pressure in the drain line.

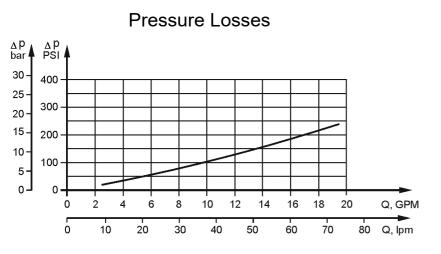


#### **FUNCTION DIAGRAMS**

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].



# MR80COP DATA SHEET

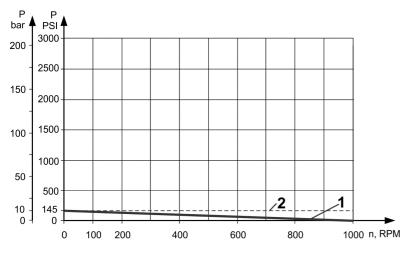


#### Oil flow in drain line

Pressure drop bar [PSI]	Viscosity mm²/s [SUS]	Oil flow in drain line Ipm [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]

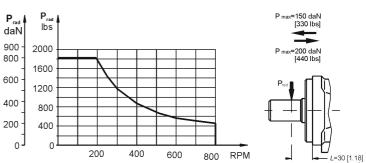
#### MAX: PERMISSIBLE SHAFT SEAL PRESSURE

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



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

Standard Motor - The standard motor mounting flange is located as close to the output shaft as possible. This type of mounting support the motor close to the shaft load. This mounting flange is also compatible with many standard gear boxes.

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