

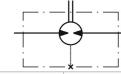
# MR100CUP PRODUCT FEATURE SUMMARY

DATE: 10.06.2025 Username: Evelin Badic

**MODEL TYPE: MR100CUP** 

CNSORDERNO (Order number)	MR100CUP	
MF (Mounting Flange)	omit: Oval mount,two holes	
ONB (Option (needle bearings))	omit: none	
PT (Port type)	omit: Side ports	
DC (Displacement code)	100: 99,8 cm³/rev [6.09 in³/rev]	
SE (Shaft Extensions)	C: Ø25 straight, Parallel key A8x7x32 DIN6885	
SSV (Shaft Seal Version)	U: High pressure shaft seal (without 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 (Total lengthmm)	145.2	
L1 (Length of gear wheel setmm)	17.400	
DIM (Dimension unit)	mm	

### **DATA SHEET**



Type Displacement, cm3/rev [in3/rev]		
		99,8 [6.09]
Max. Speed, [RPM]	cont.	600
	Int.*	750
Max. Torque, daNm [lb-in]	cont.	24 [2125]
	Int.*	28 [2480]
Max. Output, kW [HP]	cont.	13 [17,.]
	Int.*	15 [20.1]
Max. Pressure Drop, bar [PSI]	cont.	175 [2540]
	Int.*	200 [2900]
Max. Oil Flow, [RPM]	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	10 [145]	
Min Starting Torque, daNm [lb-in]	at max. press. drop cont.	20 [1770]
	at max. press. drop Int.*	23 [2035]
Min. Speed***, [RPM]		10
Weight, kg [lb]		7,2 [15.9]

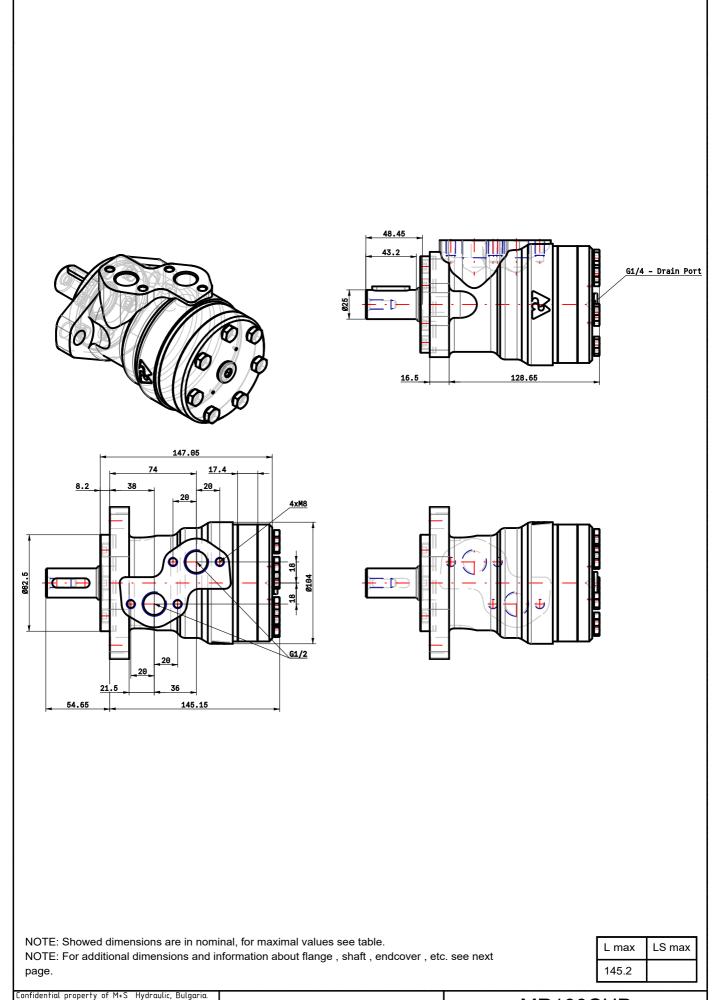
- \* Intermittent operation: the permissible values may occur for max. 10% of every minute.
- \*\* Peak load: the permissible values may occur for max. 1% of every minute.
- \*\*\* For speeds lower than given, consult factory or your regional manager.
- 1. Intermittent speed and intermittent pressure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



# MR100CUP

3d generated view

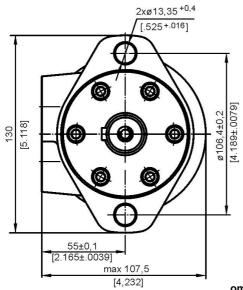
To see model in 3D you should use Acrobat Reader with enable 3D view

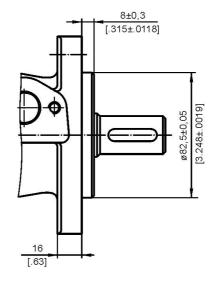


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Design: M+S | Check: | Date 10.06.2025 | T,2 [15.9]

#### omit: Oval mount,two holes





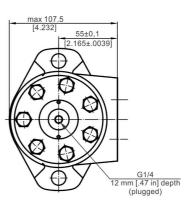
4xM8
13 mm [.51 in] depth
Port A

Port B

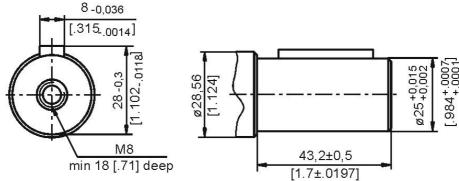
20±0,3
[.787±.0118]

Port B

2xG1/2
15 mm [.59 in] depth



### C: ø25 straight, Parallel key A8x7x32 DIN6885



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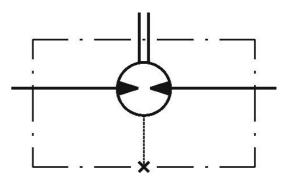
Design: M+S Check:

ZŠŽ ANFÆZ COYODORANDIJO MR100CUP

Scale Sheet Rev. Weight
Date 10.06.2025 7,2 [15.9]

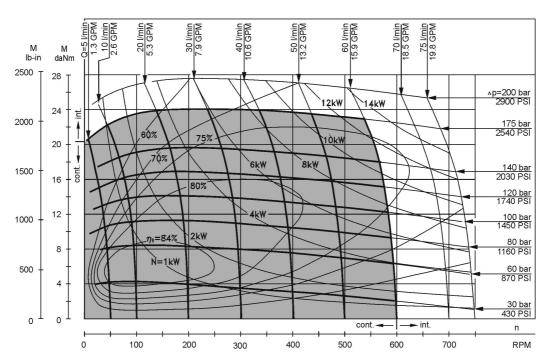


### MR100CUP



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

### **FUNCTION DIAGRAMS**

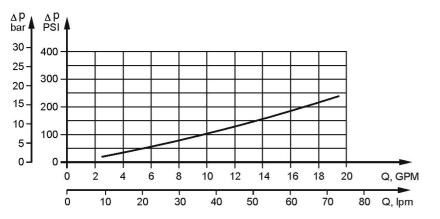


The function diagrams data is for average performance of randomly selected motors at back pressure  $5+10 \text{ bar } [72.5\div145 \text{ PSI}]$  and oil with viscosity of  $32 \text{ mm}^2/\text{s} [150 \text{ SUS}]$  at  $50^{\circ}\text{C} [122^{\circ}\text{F}]$ .



# MR100CUP DATA SHEET

### **Pressure Losses**

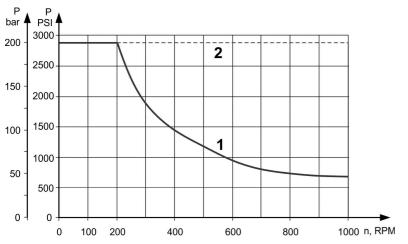


### Oil flow in drain line

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]

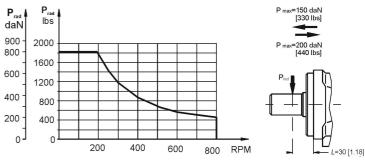
### MAX: PERMISSIBLE SHAFT SEAL PRESSURE

## 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**



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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