

MR400CDP

PRODUCT FEATURE SUMMARY

DATE: 12.06.2025 MODEL TYPE: MR400CDP **Username: Evelin Badic**

CNSORDERNO (Order number)	MR400CDP
MF (Mounting Flange)	omit: Oval mount,two holes
ONB (Option (needle bearings))	omit: none
PT (Port type)	omit: Side ports
DC (Displacement code)	400: 397,0 cm³/rev [24.40 in³/rev]
SE (Shaft Extensions)	C: Ø25 straight, Parallel key A8x7x32 DIN6885
SSV (Shaft Seal Version)	D: Standard shaft seal
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
OP (Option (Paint))	P: Paint
INFO (Info)	PDF Catalog
L (Total lengthmm)	197.2
L1 (Length of gear wheel setmm)	69.400
DIM (Dimension unit)	mm



Туре				Туре		
Displacement, cm3/rev [in3/rev]		397 [24.4]		cont.	175 [2540]	
Max. Speed, [RPM]	cont.	150	Max. Inlet Pressure, bar [PSI]	Int.*	200 [2900]	
	Int.*	190		peak**	225 [3260]	
Max. Torque,	cont.	38 [3360]		cont.	175 [2540]	
daNm [lb-in]	Int.*	47 [4160]	Max. Return Pressure with Drain Line	Int.*	200 [2900]	
Max. Output, kW [HP]	cont.	4,8 [6.4]	bar [PSI]	peak**	225 [3260]	
	Int.*	6,8 [9.1]	Pressure wi	Pressure with Unloaded Shaft, bar [PSI]		
Max. Pressure Drop,	cont.	65 [940]	Min Starting Torque,	at max. press. drop cont.	31,5 [2875]	
bar [PSI]	Int.*	90 [1300]	daNm [lb-in]	at max. press. drop Int.*	50 [4425]	
Max. Oil Flow,	bil Flow, 60 [15.9] 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.



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3d generated view

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







Design: M+S

Check:



Date 12.06.2025

NOTE: Showed dimensions are in nom	inal, for maximal values see table. nformation about flange , shaft , endcover , etc	see next			L max	LS max
page.	normation about hange, shart, chaoover, etc				197.2	
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	<u>A</u>		MR	400	CDP	
repeat.M+S is not responsible for any possible errors on the drawings.		Scale	Sheet	Rev.	Weight	$f \rightarrow f \rightarrow$

H

9,8 [21.6]







MR400CDP



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 mm²/s [150 SUS] at 50°C [122°F].



MR400CDP DATA SHEET



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]
100 [1450]	35 [164]	1,8 [.476]
440 (2020)	20 [98]	3,5 [.925]
140 [2030]	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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