

MT160CP

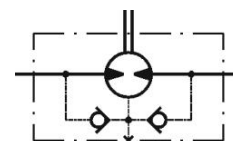
PRODUCT FEATURE SUMMARY

DATE: 17.06.2025
MODEL TYPE: MT160CP

Username: Evelin Badic

CNSORDERNO (Order number)	MT160CP
MF (Mounting Flange)	omit: Square mount, four holes
PT (Port type)	omit: Side ports
DC (Displacement code)	160: 61,6 cm ³ /rev [9.83 in ³ /rev]
SE (Shaft Extensions)	C: ø40 straight, Parallel key A12x8x70 DIN6885
SSV (Shaft Seal Version)	omit: Low pressure seal
P (Ports)	omit: BSPP (ISO 228)
SFMS (Special Features Measure speed)	omit: no special features
SFRM (Special Features Reinforced motor)	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)	192.1
L1 (mm)	16.2
L2 (mm)	142.0

DATA SHEET



Type	
Displacement, cm³/rev [in³/rev]	161,1[9.83]
Max. Speed, [RPM]	cont. 622 Int.* 775
Max. Torque, daNm [lb-in]	cont. 47[4160] Int.* 56[4960]
Max. Output, kW [HP]	cont. 26,5[36] Int.* 32[43]
Max. Pressure Drop, bar [PSI]	cont. 200[2900] Int.* 240[3480]
Max. Oil Flow, lpm [GPM]	cont. 100[26] Int.* 125[33]

Type	
Max. Inlet Pressure, bar [PSI]	cont. 210[3050] Int.* 250[3600] peak** 300[4350]
Max. Return Pressure with Drain Line bar [PSI]	cont. 140[2030] Int.* 175[2540] peak** 210[3050]
Pressure with Unloaded Shaft, bar [PSI]	10 [150]
Min Starting Torque, daNm [lb-in]	at max. press. drop cont. 34[3010] at max. press. drop Int.* 41[3630]
Min. Speed***, [RPM]	10
Weight, kg [lb]	20 [44.1]

* 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.

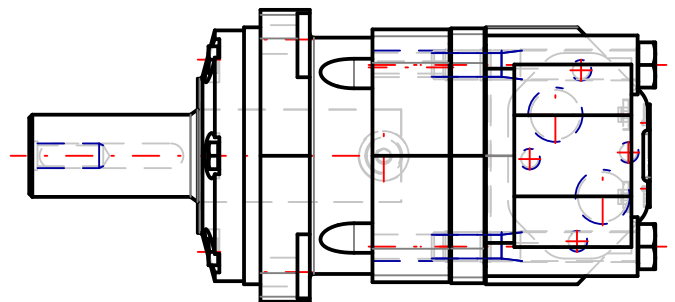
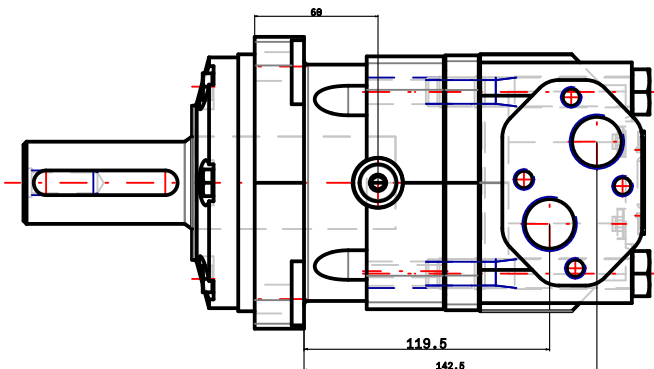
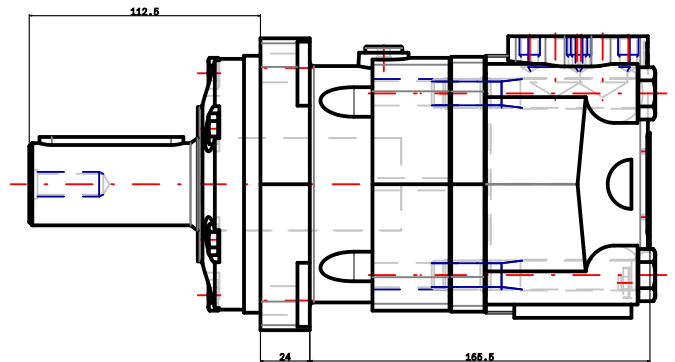
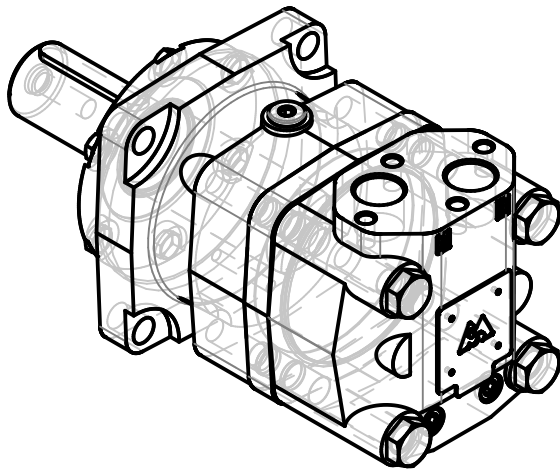
*** For speeds lower than given, consult factory or your regional manager.

- Intermittent speed and intermittent pressure drop must not occur simultaneously.
- Recommended filtration is per ISO cleanliness code 20/16. A nominal filtration of 25 micron or better.
- 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.
- Recommended minimum oil viscosity 13 mm²/s [70 SUS] at 50°C [122°F].
- Recommended maximum system operating temperature is 82°C [180°F].
- 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



NOTE: Showed dimensions are in nominal, for maximal values see table.

NOTE: For additional dimensions and information about flange , shaft , endcover , etc. see next page.

L max	LS max
192.1	142.0

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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.



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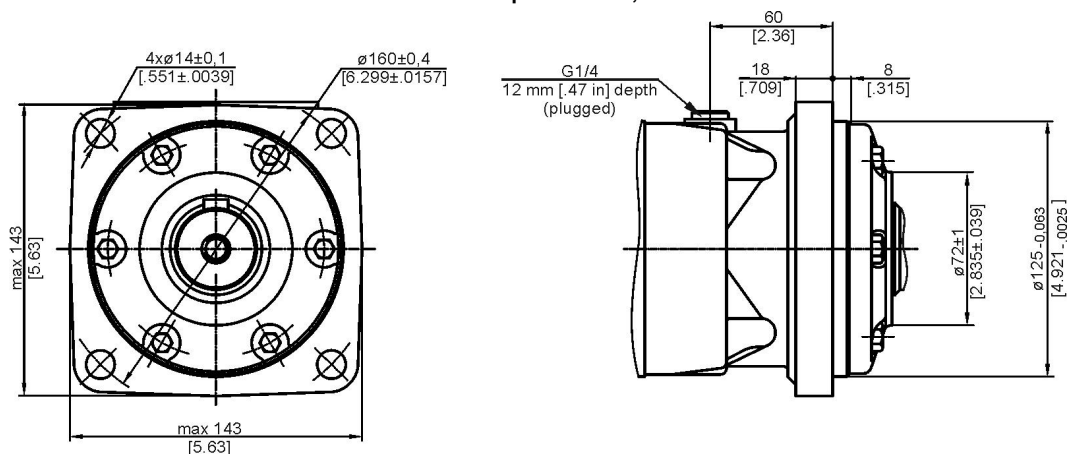
Design: M+S Check:

Scale	Sheet	Rev.	Weight		
Date 17.06.2025			20 [44.1]		

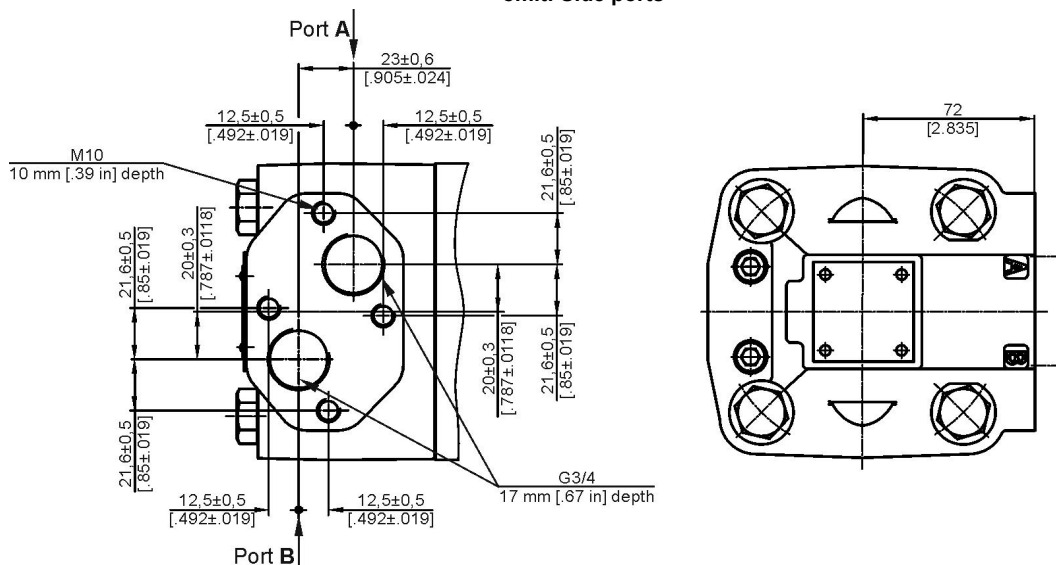
Standard Rotation
Viewed from Shaft End

Port **A** Pressurized - **CW**
Port **B** Pressurized - **CCW**

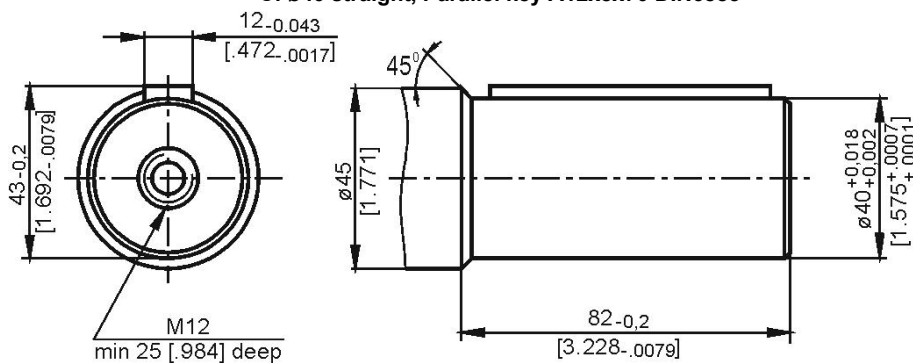
omit: Square mount, four holes



omit: Side ports



C: $\phi 40$ straight, Parallel key A12x8x70 DIN6885



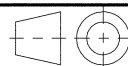
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Design: M+S Check:

M+S HYDRAULIC

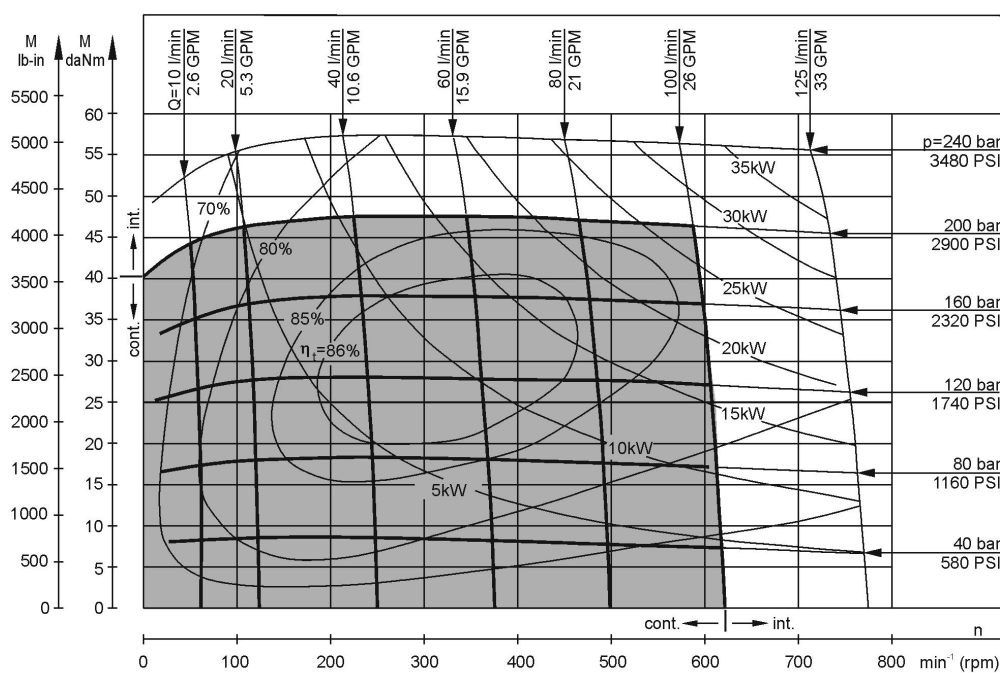
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Scale	Sheet	Rev.	Weight
Date 17.06.2025			20 [44.1]



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FUNCTION DIAGRAMS

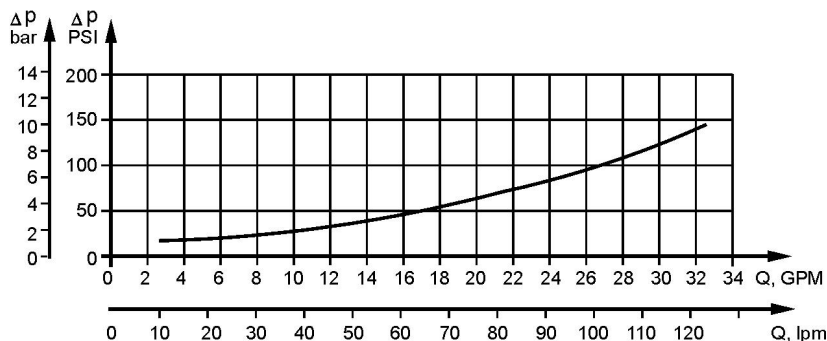


The function diagrams data is for average performance of randomly selected motors at back pressure 5±10 bar [72.5±145 PSI] and oil with viscosity of 32 mm²/s [150 SUS] at 50°C [122°F].

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DATA SHEET

Pressure Losses

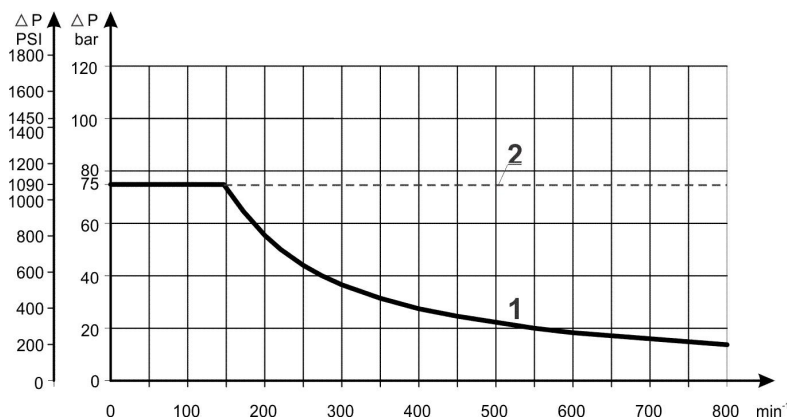


Oil flow in drain line

Pressure drop bar [PSI]	Viscosity mm ² /s [SUS]	Oil flow in drain line lpm [GPM]
140 [2030]	20 [98]	2,5 [.660]
	35 [164]	1,5 [.396]
210 [3045]	20 [98]	5 [1.321]
	35 [164]	3 [.793]

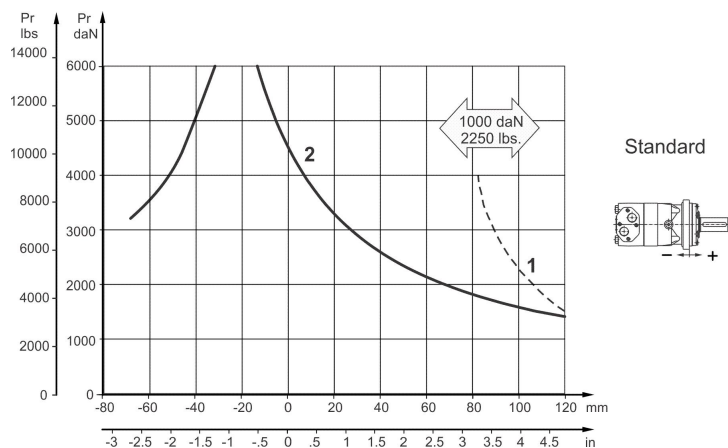
MAX: PERMISSIBLE SHAFT SEAL PRESSURE

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 LOAD



Curve "1" shows critical radial shaft load. The output shaft runs in tapered bearings that permit high axial and radial forces. The permissible radial load on the shaft is shown (curve 2) for an axial load of 0 N as function of the distance from the mounting flange to the point of load application. The curve 2 apply to a B10 bearing life of 2000 hours at 100 RPM.