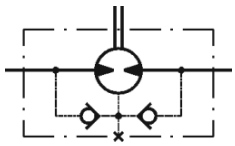
MTW315K

PRODUCT FEATURE SUMMARY

DATE: 21.01.2019 **Username: Giuliano Ferrari**
MODEL TYPE: MTW315K

CNSORDERNO (Order number)	MTW315K
MF (Mounting Flange)	W: Wheel mount
PT (Port type)	omit: Side ports
DC (Displacement code)	315: 326,3 cm³/rev [19.90 in³/rev]
SE (Shaft Extensions)	K: ø45 tapered 1:10, Parallel key B12x8x28 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))	omit: no paint
INFO (INFO)	PDF catalog
L (mm)	143.4
L1 (mm)	36.7
L2 (mm)	93.3

DATA SHEET



Type		
Displacement, cm3/rev [in3/rev]		326,3[19.90]
Max. Speed, [RPM]	cont.	382
	Int.*	461
Max. Torque, daNm [lb-in]	cont.	95[8410]
	Int.*	114[10090]
Max. Output, kW [HP]	cont.	33,5[45]
	Int.*	40[54]
Max. Pressure Drop, bar [PSI]	cont.	200[2900]
	Int.*	240[3480]
Max. Oil Flow, lpm [GPM]	cont.	125[33]
	Int.*	150[39.6]

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[2000]
	Int.*	175[2500]
	peak**	210[3000]
Pressure with Unloaded Shaft, bar [PSI]		10 [150]
Min Starting Torque, daNm [lb-in]	at max. press. drop cont.	74[6550]
	at max. press. drop Int.*	89[7880]
Min. Speed*, [RPM]**		7
Weight, kg [lb]		24 [52.9]

* 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.

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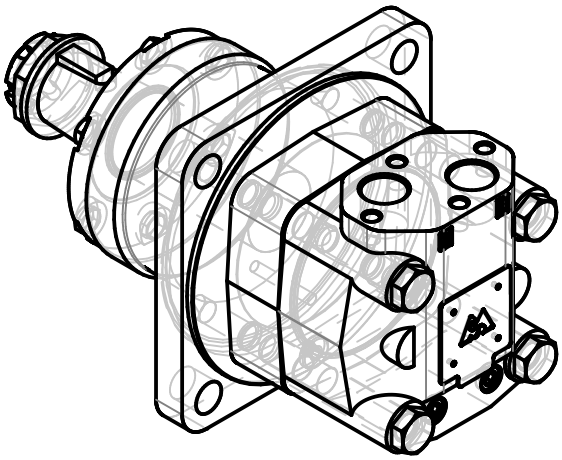
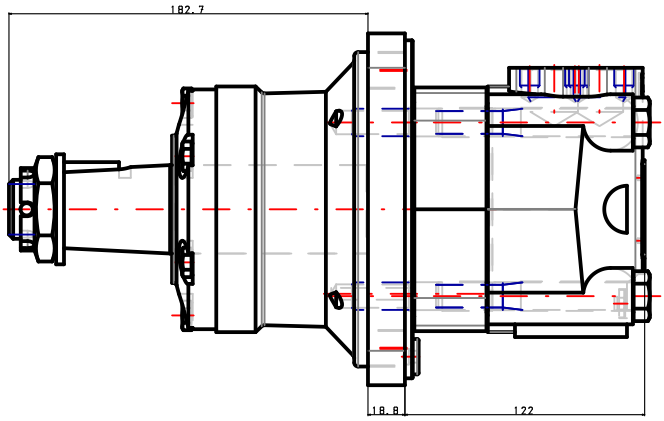
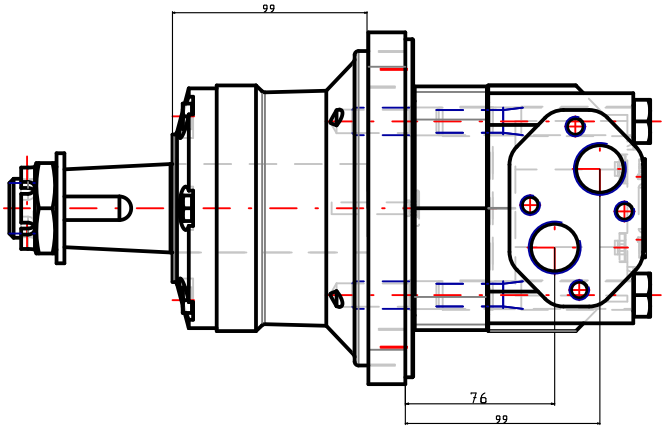
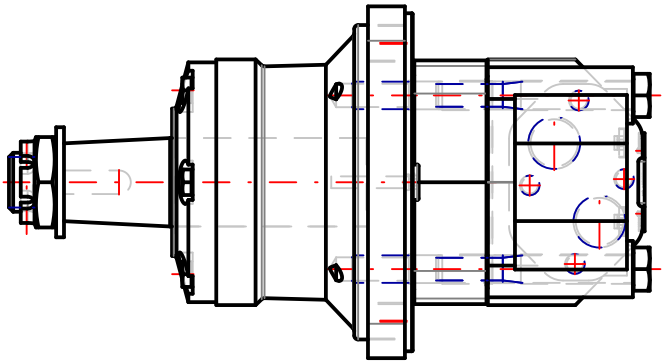
3d generated view

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
143.4	93.3

Design: M+S | Check:

M+S HYDRAULIC

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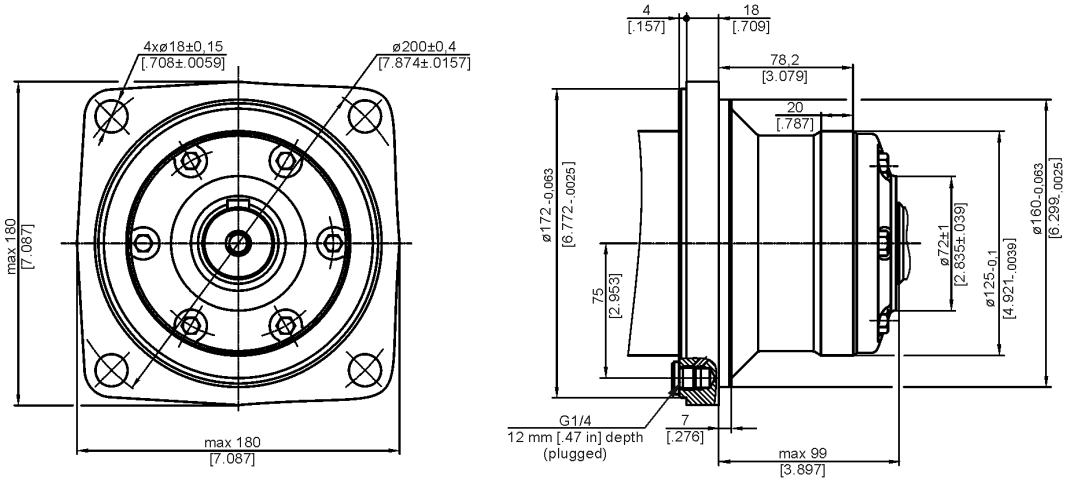
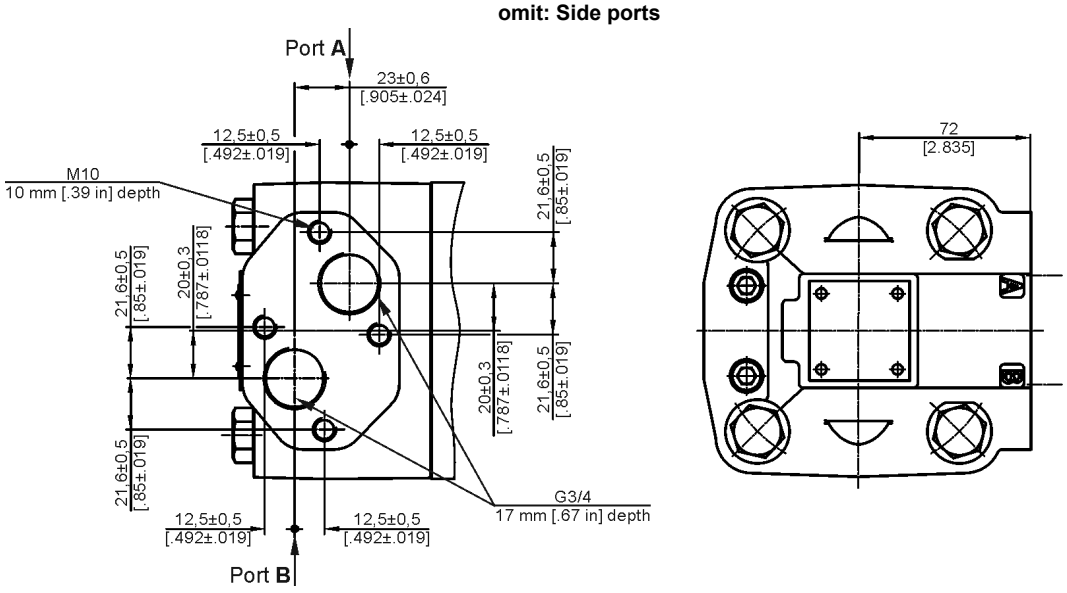
Scale	Sheet	Rev.	Weight
Date 21.01.2019			24 [52.9]

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

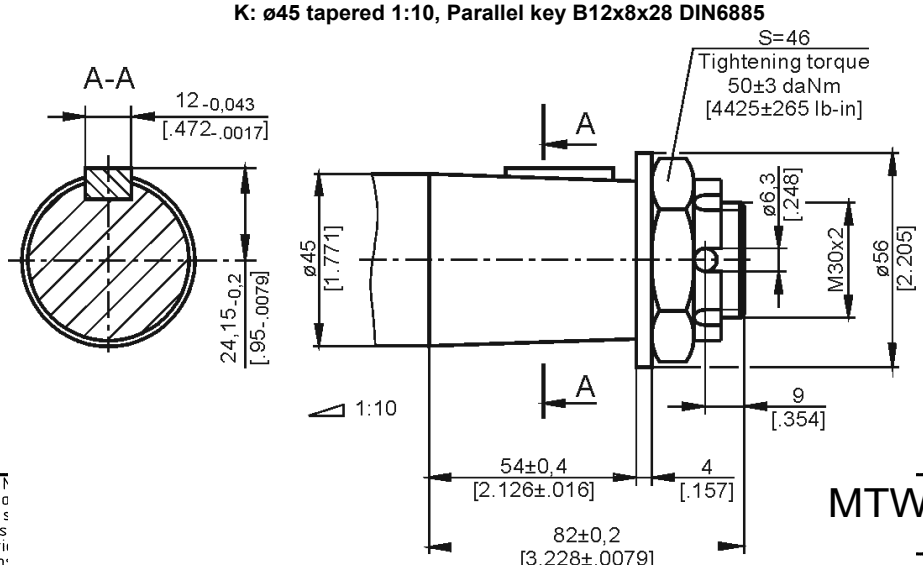
W: Wheel mount



omit: Side ports



K: ø45 tapered 1:10, Parallel key B12x8x28 DIN6885



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Design: M+S	Check:		Date 21.01.2019			Weight 24 [52.9]

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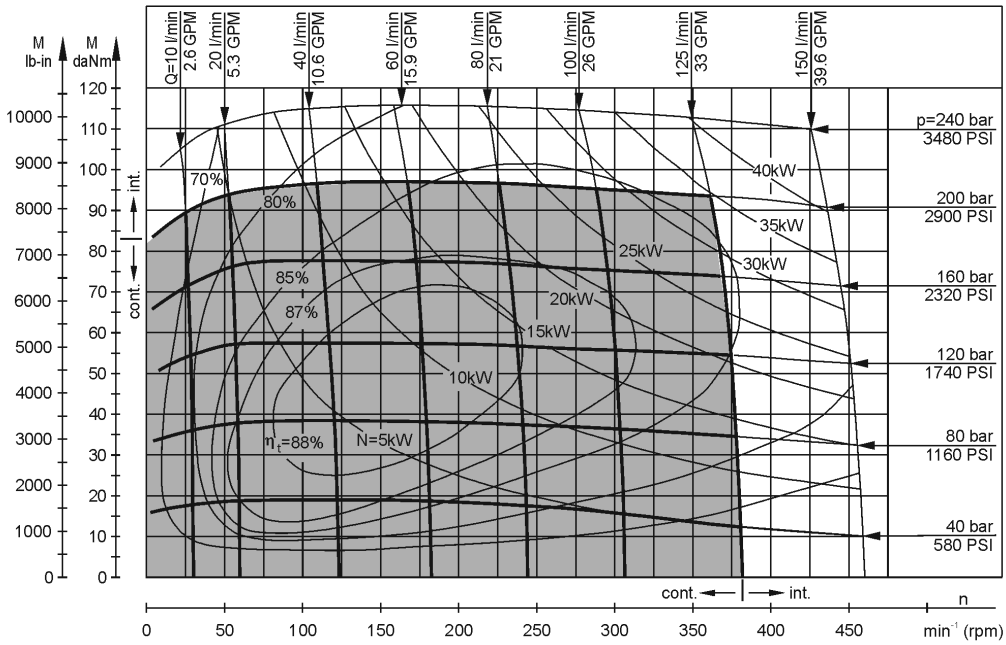
FUNCTION DIAGRAMS



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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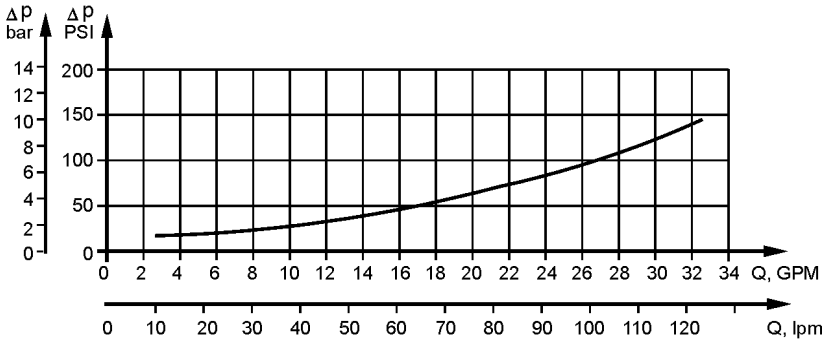
DATA SHEET

Pressure Losses

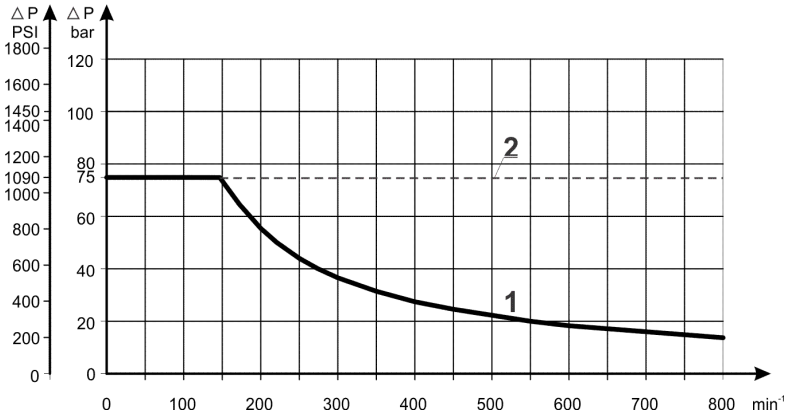


Oil flow in drain line

Pressure drop bar [PSI]	Viscosity mm²/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]

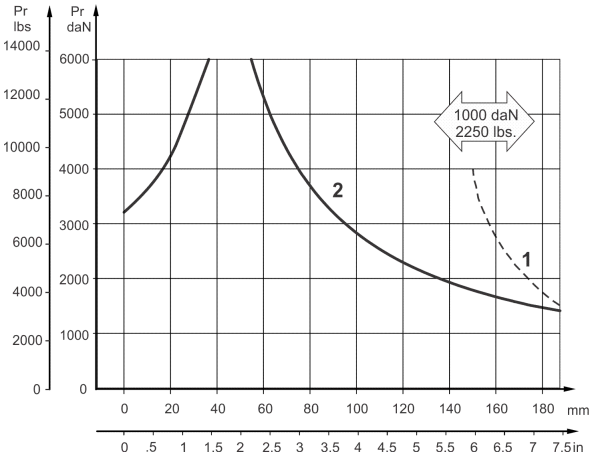
MAX: PERMISSIBLE SHAFT SEAL PRESSURE

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

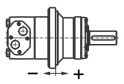


Curve ''1'' shows continuous operations.
Curve''2'' shows intermittent operations.

PERMISABLE SHAFT LOAD



W - Wheel



Curve "1" shows critical radial shaft load.The output shaft runs in tapered bearings that permithigh axial and radial forces. The permissible radial loadon the shaft is shown (curve 2) for an axial load of 0 Nas function of the distance from the mounting flange tothe point of load application. The curve 2 apply to a B10bearing life of 2000 hours at 100 RPM .

M+S Hydraulic , address - 68, Kozloduy street, 6100 Kazanlak, Bulgaria
Tel.: ++359 431 65167, ++359 431 64271, FAX: +359 431 64114
E-Mail: msh@ms-hydraulic.com : URL: http://www.ms-hydraulic.com