MYZ MOTORS

Quality assured company - ISO 9001 *certified*

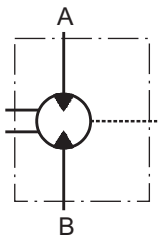
M+S HYDRAULIC

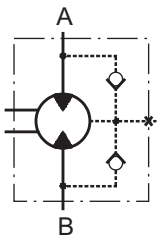
Product Tech News

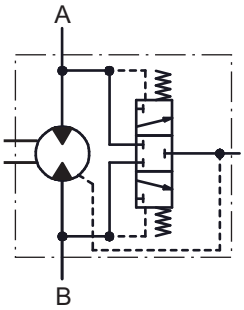
beta version 0.91

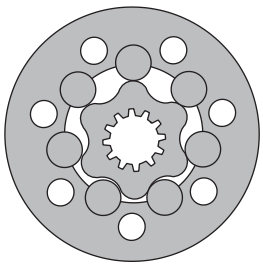
Hydraulic motors type MYZ

Medium duty disc valve fixed displacement hydraulic motor









APPLICATION

» Conveyors
» Metal working machines
» Machines for agriculture
» Road building machines
» Mining machinery
» Food industries
» Special vehicles
» Plastic machinery, etc.

EXCELLENCE

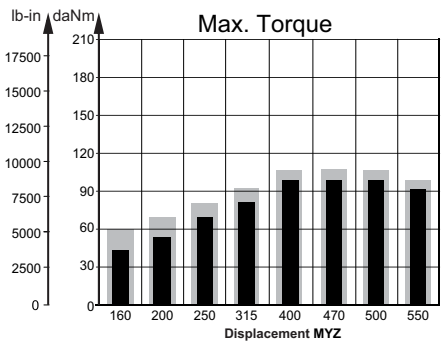
» High torque and pressure drop
» High inlet pressure
» High starting torque
» Smooth operation at low speed
» Compact size

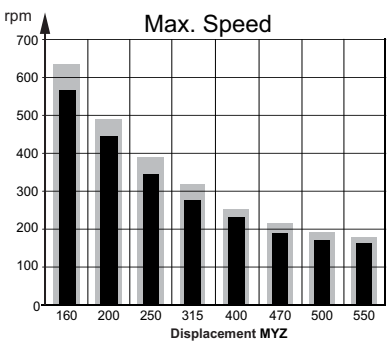
OPTIONS

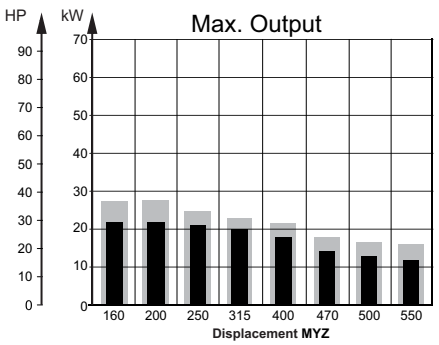
» Model- Disc valve, roll-gerotor
» Flange mount and wheel mount
» Side and rear ports
» Shafts- straight, splined and tapered
» Metric, SAE and BSPP ports
» Other special features

GENERAL

Displacement,	cm^3/rev [in^3/rev]	157,9÷550 [9.63÷33.55]
Max. Speed,	RPM	570
Max. Torque,	daNm [lb-in]	980 [8700]
Max. Output,	kW [HP]	22 [30]
Max. Pressure Drop,	bar [PSI]	205 [3000]
Max. Oil Flow,	lpm [GPM]	90 [21]
Min. Speed,	RPM	5÷10
Pressure fluid		Mineral based- HLP(DIN 51524) or HM(ISO 6743/4)
Temperature range,	°C [°F]	-30÷90 [-22÷194]
Optimal Viscosity range,	mm^2/s [SUS]	20÷75 [98÷347]
Filtration		ISO code 20/16 (Min. recommended fluid filtration of 25 micron)







Intermittent values Continuous values

SPECIFICATION DATA

Type		MYZ 160	MYZ 200	MYZ 250	MYZ 315	MYZ 400	MYZ 470	MYZ 500	MYZ 550
Displacement, cm^3/rev [in^3/rev]		157,9 [9.63]	201,3 [12.28]	252,2 [15.38]	314,9 [19.2]	396,8 [24.2]	470,5 [28.7]	502,4 [30.65]	550 [33.55]
Max. Speed, [RPM]	Cont.	570	445	355	285	225	190	175	160
	Int.*	630	495	395	315	250	210	195	180
Max. Torque, daNm [lb-in]	Cont.	42.5 [3760]	55 [4850]	70 [6200]	85 [7520]	97 [8580]	95 [8350]	98 [8700]	91 [8054]
	Int.*	60 [5300]	70 [6200]	80 [70800]	92 [8140]	106 [9450]	106 [9450]	106 [9450]	105 [9293]
Max. Output, kW [HP]	Cont.	22 [29.5]	22 [29.5]	21 [28.2]	20 [26.8]	17,5 [23.5]	14 [18.8]	13 [17.4]	12 [16]
	Int.*	27 [36.2]	27 [36.2]	25 [33.5]	23,5 [31.5]	22 [29.5]	17.5 [23.5]	17 [22.8]	16 [21.5]
Max. Pressure Drop, bar [PSI]	Cont.	205 [3000]	205 [3000]	205 [3000]	205 [3000]	185 [2700]	140 [2175]	150 [2175]	125 [1810]
	Int.*	250 [3625]	250 [3625]	250 [3625]	250 [3625]	195 [2820]	165 [2400]	165 [2400]	145 [2100]
Max. Inlet Pressure, bar [PSI]	Cont.	210 [3050]							
	Int.*	310 [4500]							
Max. Oil Flow, lpm [GPM]	Cont.	90 [21.1]							
	Int.*	100 [26.4]							
Max. Starting Pressure with Unloaded Shaft, bar [PSI]		8 [116]	8 [116]	7 [102]	7 [102]	7 [102]	7 [102]	7 [102]	7 [102]
Min. Starting Torque, daNm [lb-in]	at max. pressure drop cont.	43 [3806]	54 [4780]	68 [6020]	79 [6992]	80 [7080]	83 [7346]	84 [7435]	84 [7435]
	at max. pressure drop int.*	54.5 [4824]	69 [6107]	80 [7080]	98,5 [8720]	105 [9294]	105 [9294]	105 [9294]	105 [9294]
Min. Speed**, RPM**		10							
Max. Return Pressure without Drain Line, bar [PSI]		see diagram							
Max. Return Pressure with Drain Line, bar [PSI]	Cont.	140 [2030]							
	Int.*	175 [2550]							
	Peak*	210 [3050]							

* 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 of 5 RPM lower than given, consult factory or your regional manager.

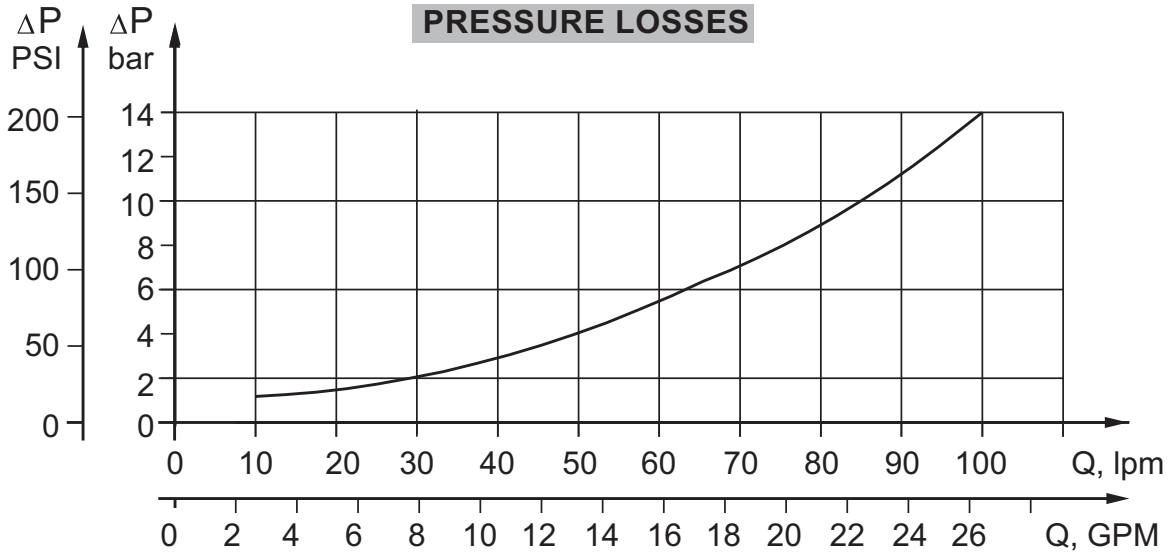
1. Intermittent speed and intermittent pressure must not occur simultaneously.
2. Recommended filtration is per ISO cleanliness code 20/16. A nominal filtration of 25 micron or better.
3. Recommend using a premium quality, anti-wear type mineral based hydraulic oil, HLP(DIN51524) or HM(ISO6743/4). If using synthetic fluids consult the factory for alternative seal materials.
4. Recommended minimum oil viscosity 70 SUS [13 cm^3/s] at 122°F [50°C].
5. Recommended maximum system operating temperature is 180°F [82°C].
6. To assure optimum motor life fill with fluid prior to loading and run at moderate load and speed for 10-15 minutes.

OIL FLOW IN DRAIN LINE

Pressure drop bar [PSI]	Viscosity mm^2/s [SUS]	Oil flow in drain line lpm [GPM]
160 [2320]	20 [98]	2,5 [.660]
	35 [164]	1,8 [.476]
250 [3625]	20 [98]	3,5 [.925]
	35 [164]	2,8 [.740]

The table shows the max. oil flow in the drain line at a return pressure less than 5 bar [75 PSI]

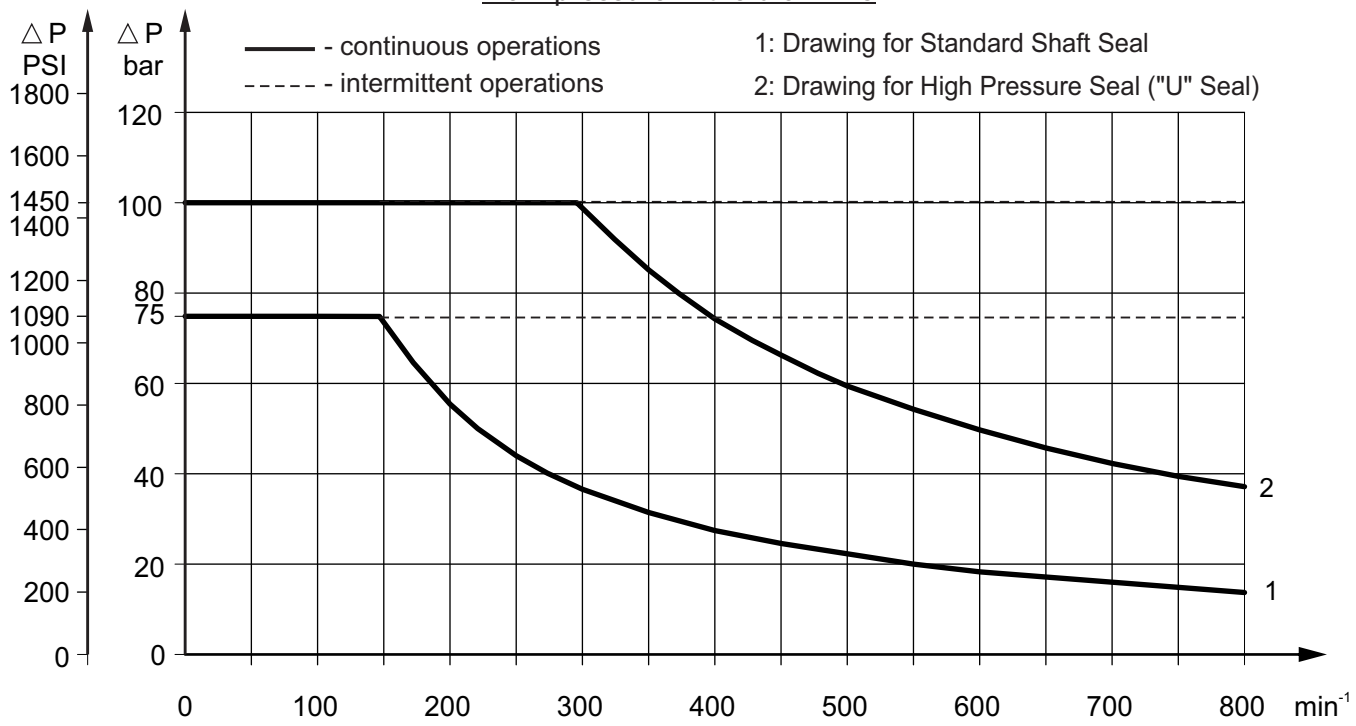
PRESSURE LOSSES



The curve applies to an unloaded motor shaft

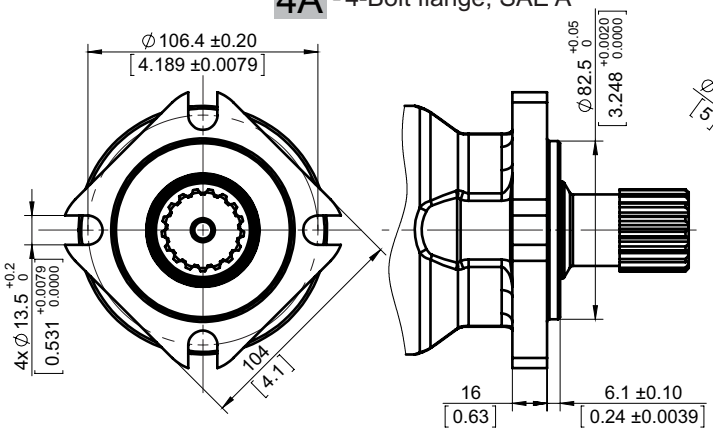
MAX. PERMISSIBLE SHAFT SEAL PRESSURE

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

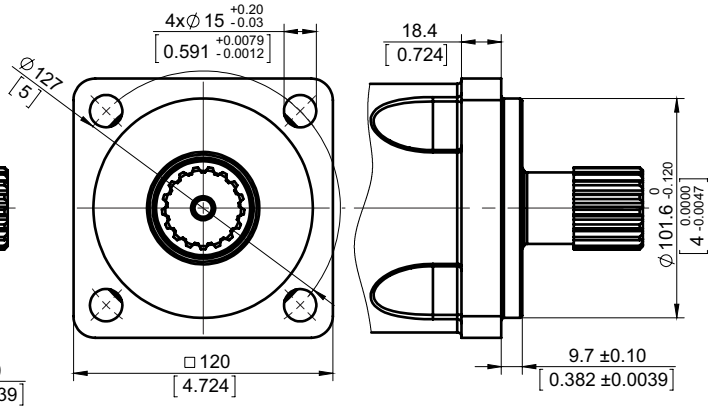


FLANGES

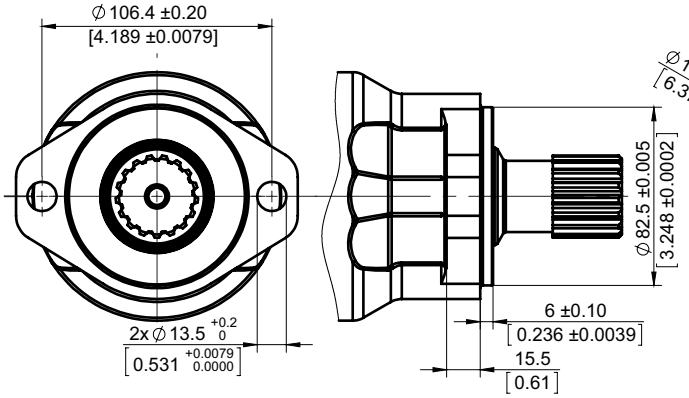
4A - 4-Bolt flange, SAE A



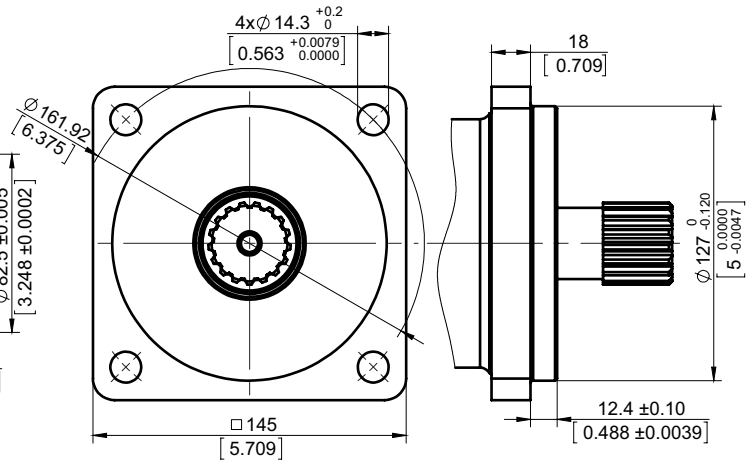
4B - 4-Bolt flange, SAE B



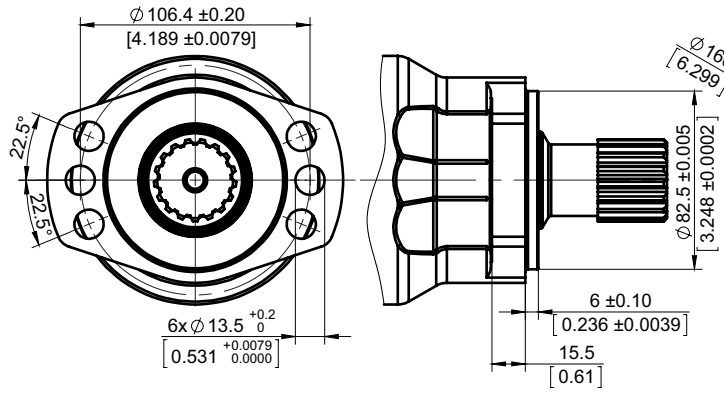
A - 2-Bolt flange, SAE A



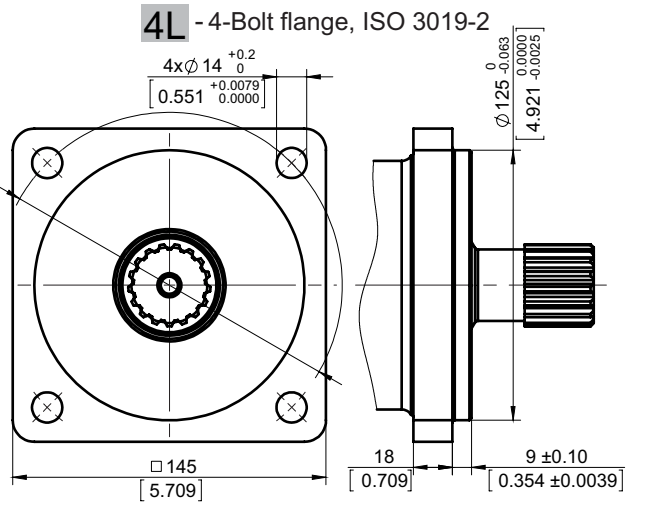
4C - 4-Bolt flange, SAE C



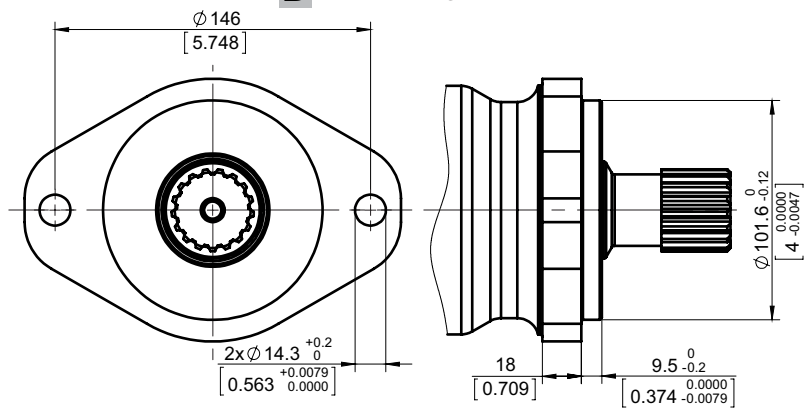
F - 6-Bolt magneto flange, SAE A similar



4L - 4-Bolt flange, ISO 3019-2



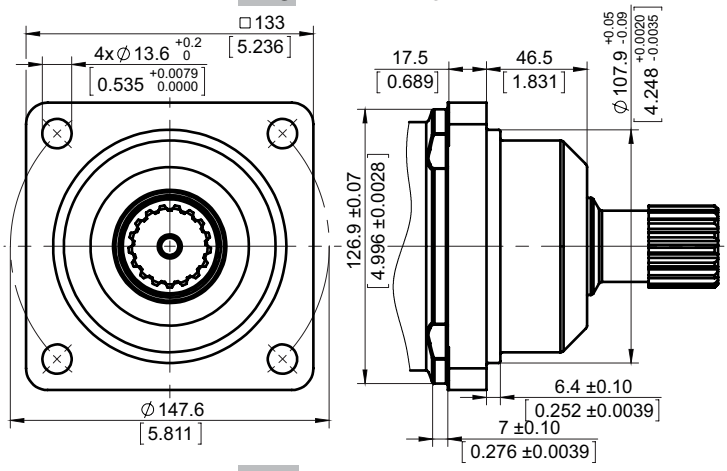
B - 2-Bolt flange, SAE B



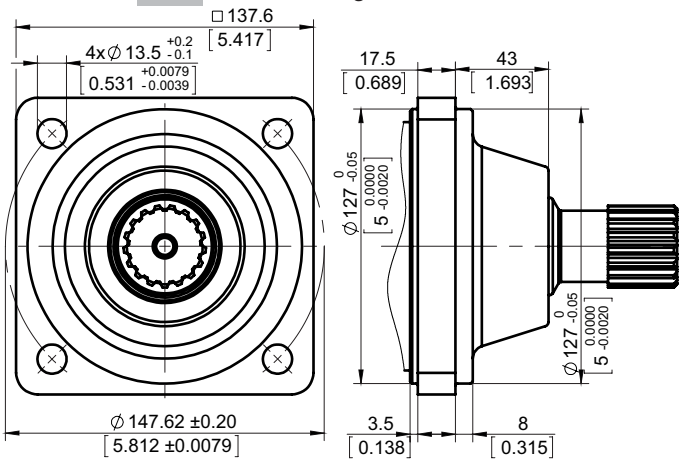
mm [in]

FLANGES

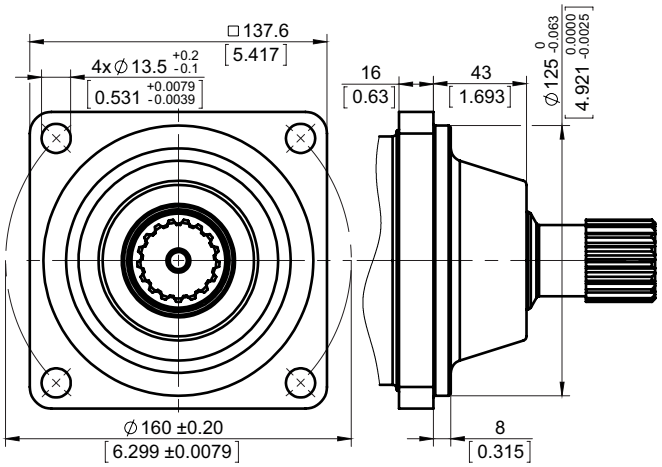
WJ - 4-Bolt flange, Wheel



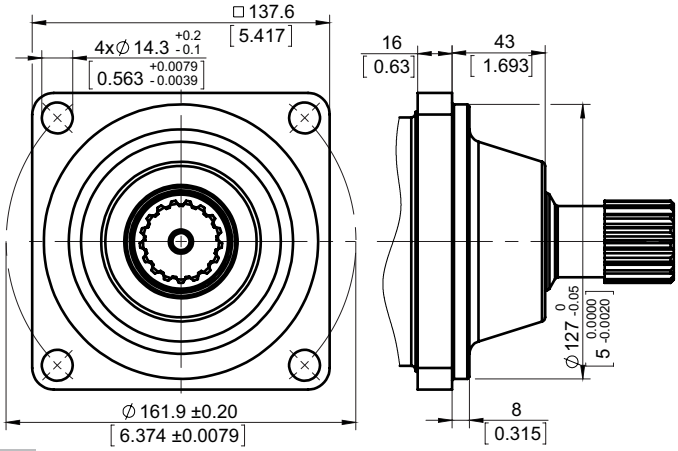
WN - 4-Bolt flange, Wheel



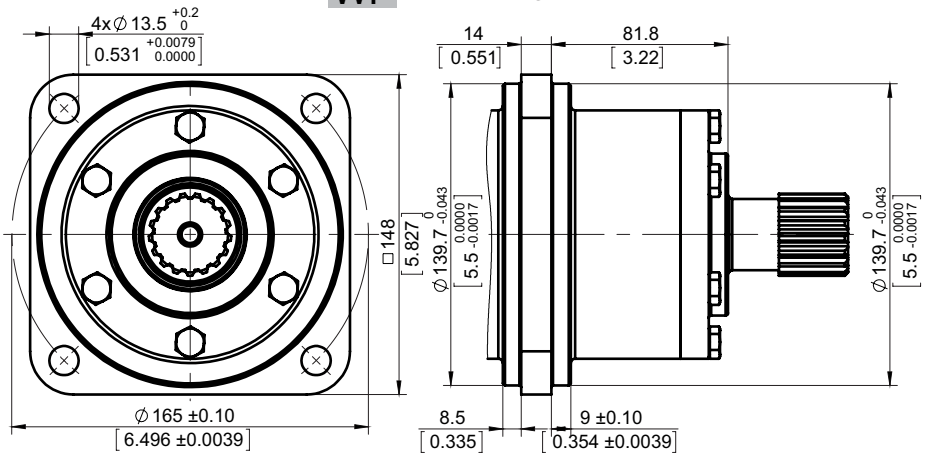
WL - 4-Bolt flange, Wheel



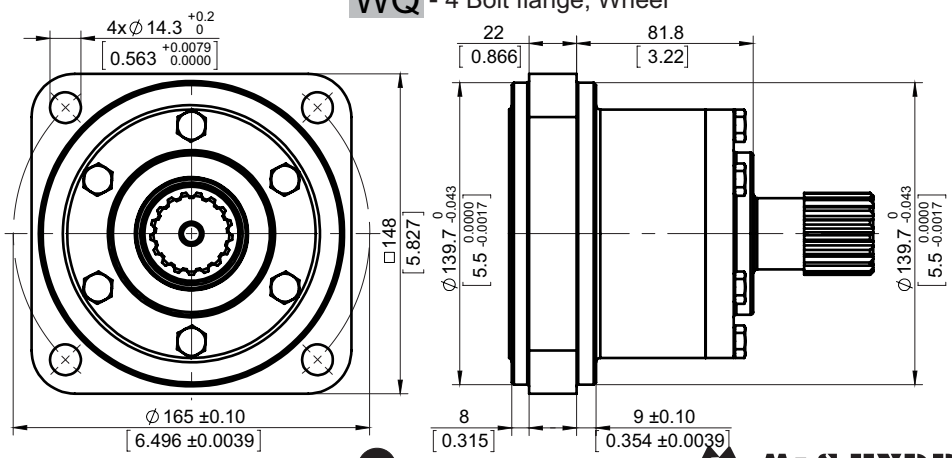
WM - 4-Bolt flange, Wheel



WP - 4-Bolt flange, Wheel



WQ - 4 Bolt flange, Wheel

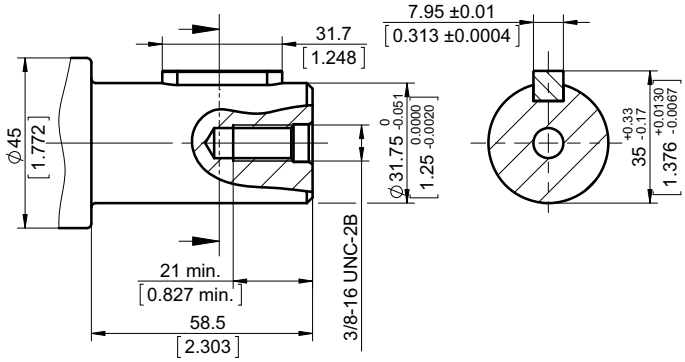


mm [in]

SHAFTS

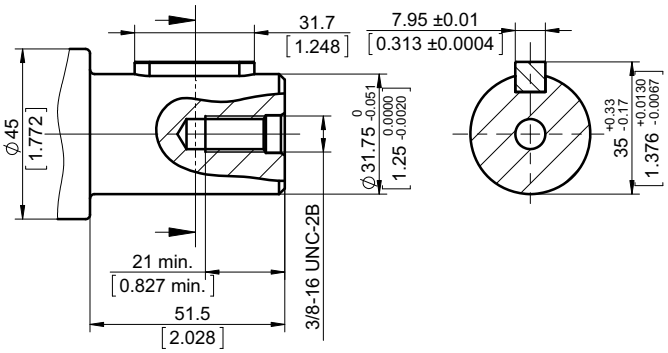
BR

ø31,75 [ø1.25“] straight, 3/8-16 UNC thread
Parallel key **5/16"x5/16"x1 1/4"**
Max. Torque 77 daNm [6815 lb-in]



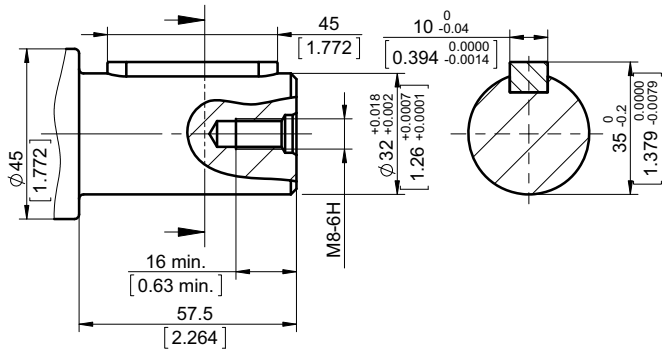
DR

ø31,75 [ø1.25“] straight, 3/8-16 UNC thread
Parallel key **5/16"x5/16"x1 1/4"**
Max. Torque 77 daNm [6815 lb-in]



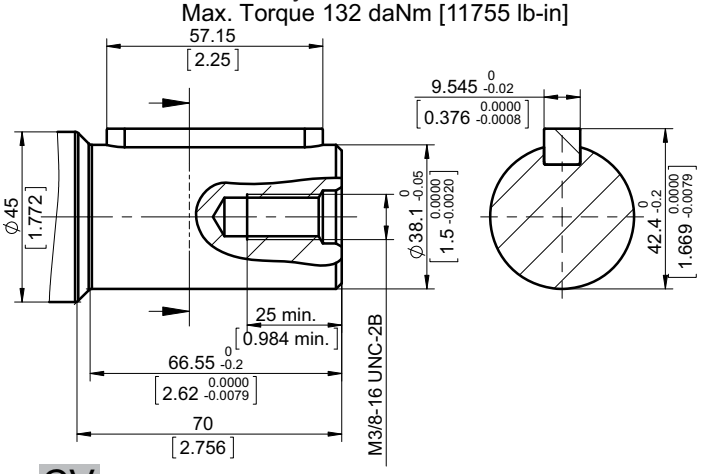
CS

ø32 [ø1.26“] straight, M8-6H thread
Parallel key **A10x8x45** DIN6885
Max. Torque 77 daNm [6815 lb-in]



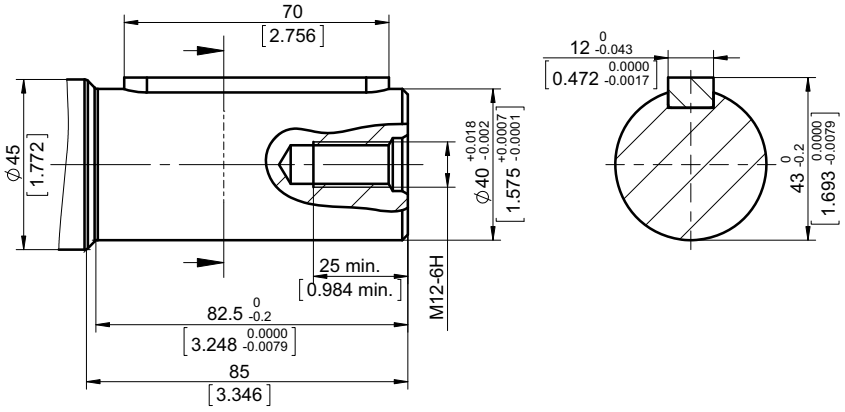
DU

ø38.1 [ø1.5“] straight,3/8-16 UNC thread
Parallel key **3/8"x3/8"x2 1/4"** BS46
Max. Torque 132 daNm [11755 lb-in]



CV

ø40 [ø1.575“] straight, M12-6H thread
Parallel key **A12x80x70** DIN6885
Max. Torque 132 daNm [11755 lb-in]



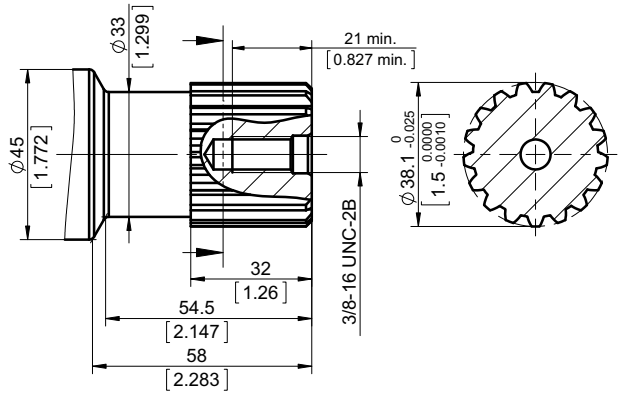
Requirement max. Torque must be not exceeded

mm [in]

SHAFTS

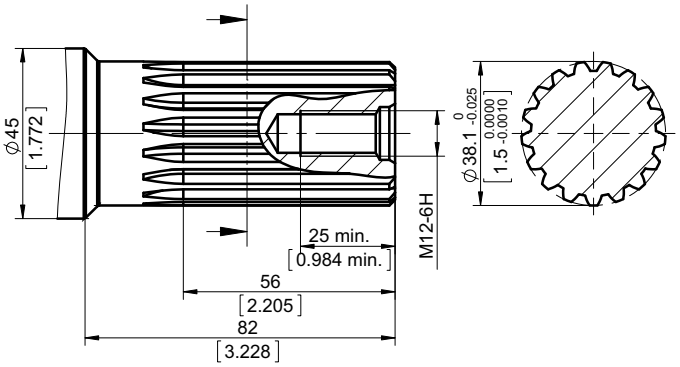
GS

ø38,1 [ø1.5“], 3/8-16 UNC thread
17T 12/24 DP Splined ANSI B92.1-1970
Max. Torque 132 daNm [11755 lb-in]



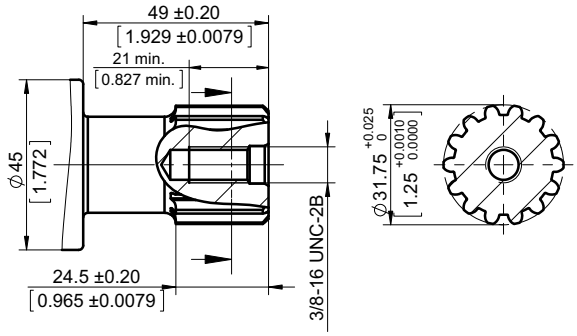
SS

ø38,1 [ø1.5“], M12-6H thread
17T 12/24 DP Splined ANSI B92.1-1970
Max. Torque 132 daNm [11755 lb-in]



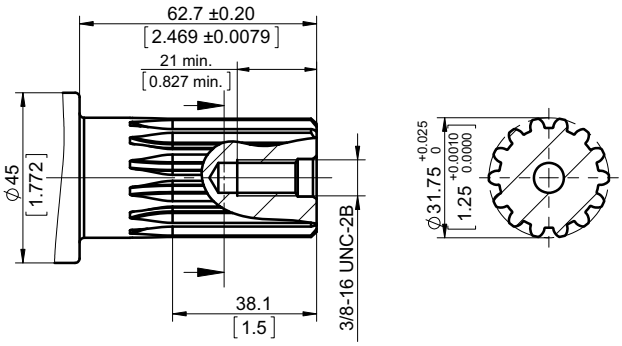
GK

ø31,75 [ø1.25“], 3/8-16 UNC thread
14T 12/24 DP Splined ANSI B92.1-1970
Max. Torque 77 daNm [6815 lb-in]



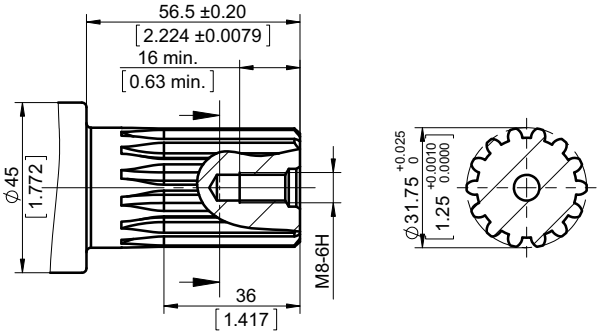
PK

ø31,75 [ø1.25“], 3/8-16 UNC thread
14T 12/24 DP Splined ANSI B92.1-1970
Max. Torque 95 daNm [8400 lb-in]



SK

ø31,75 [ø1.25“], M8-6H thread
14T 12/24 DP Splined ANSI B92.1-1970
Max. Torque 95 daNm [8400 lb-in]



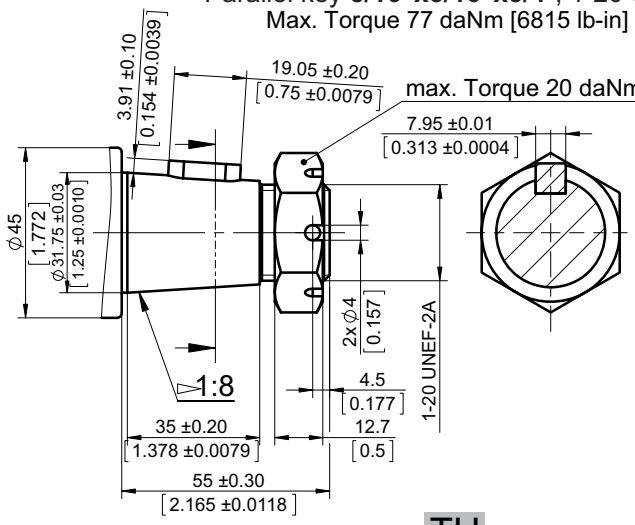
Requirement max. Torque must be not exceeded

mm [in]

SHAFTS

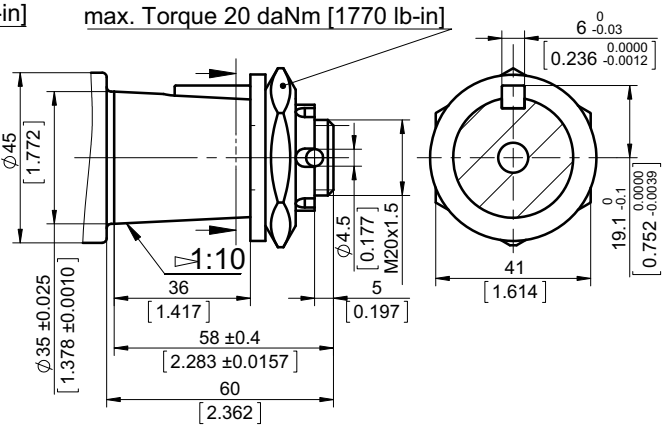
TP

ø31,75 [ø1.25“] Tapered **1:8,**
Parallel key **5/16"x5/16"x3/4"**, 1-20 UNEF
Max. Torque 77 daNm [6815 lb-in]



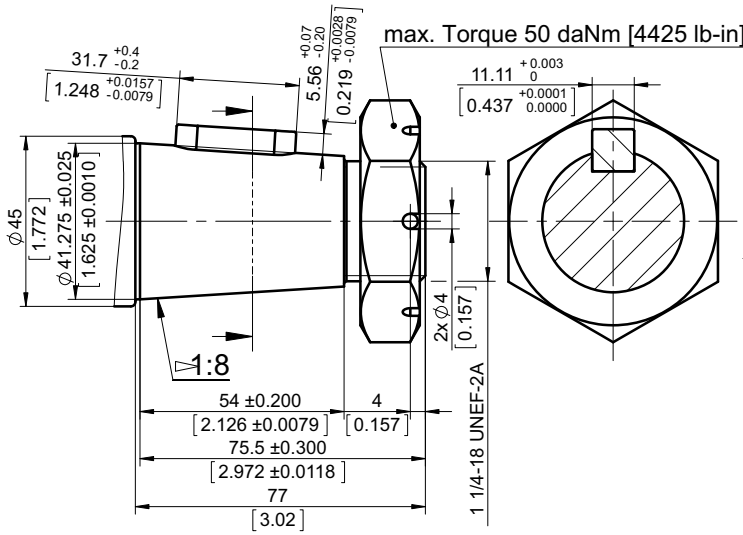
KR

ø35 [ø1.378“] Tapered **1:10**,
Parallel key **B6x6x20** DIN6885, M20x1,5
Max. Torque 95 daNm [8400 lb-in]



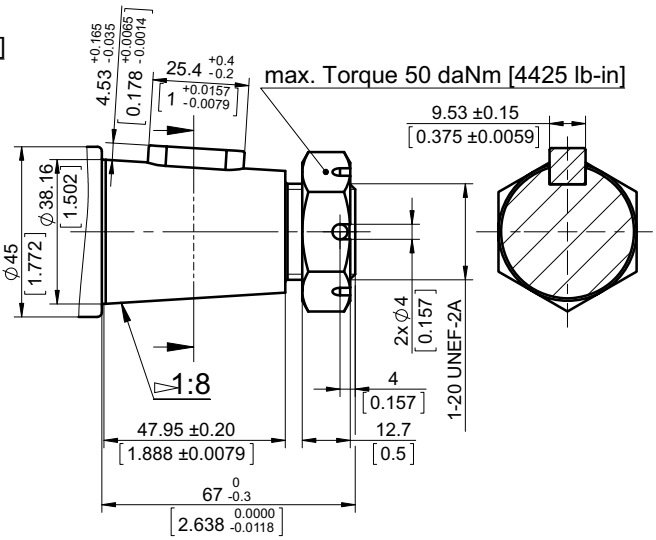
TU

ø41,275 [ø1.625“] Tapered **1:8**,
Parallel key **7/16"x7/16"x1 1/4"**, 1 1/4-18 UNEF



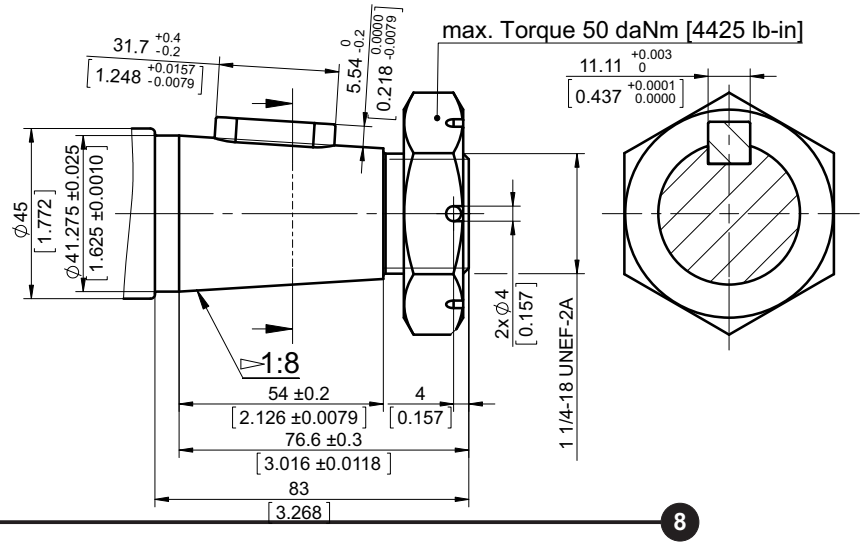
TT

ø38,1 [ø1.5"] Tapered **1:8**,
Parallel key **3/8"x3/8"x1"**, 1-20 UNEF

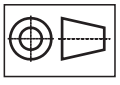


RU

ø41,275 [ø1.625“] Tapered **1:8**,
Parallel key **7/16"x7/16"x1 1/4"**, 1 1/4-18 UNEF



Requirement max. Torque must be not exceeded

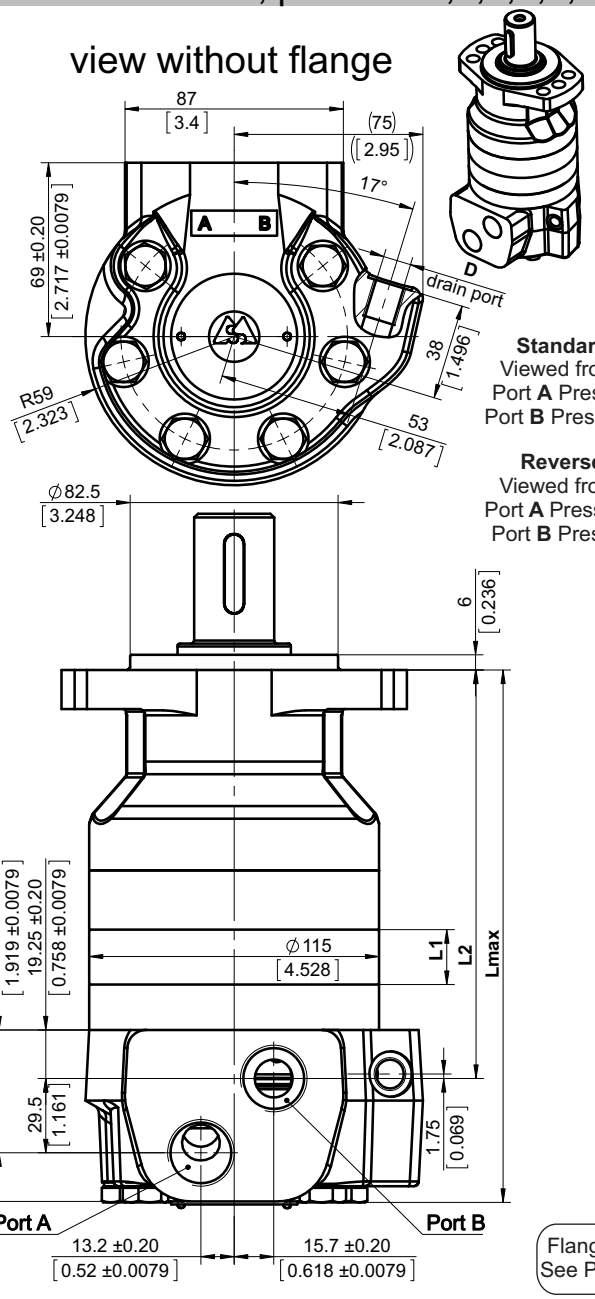


mm [in]

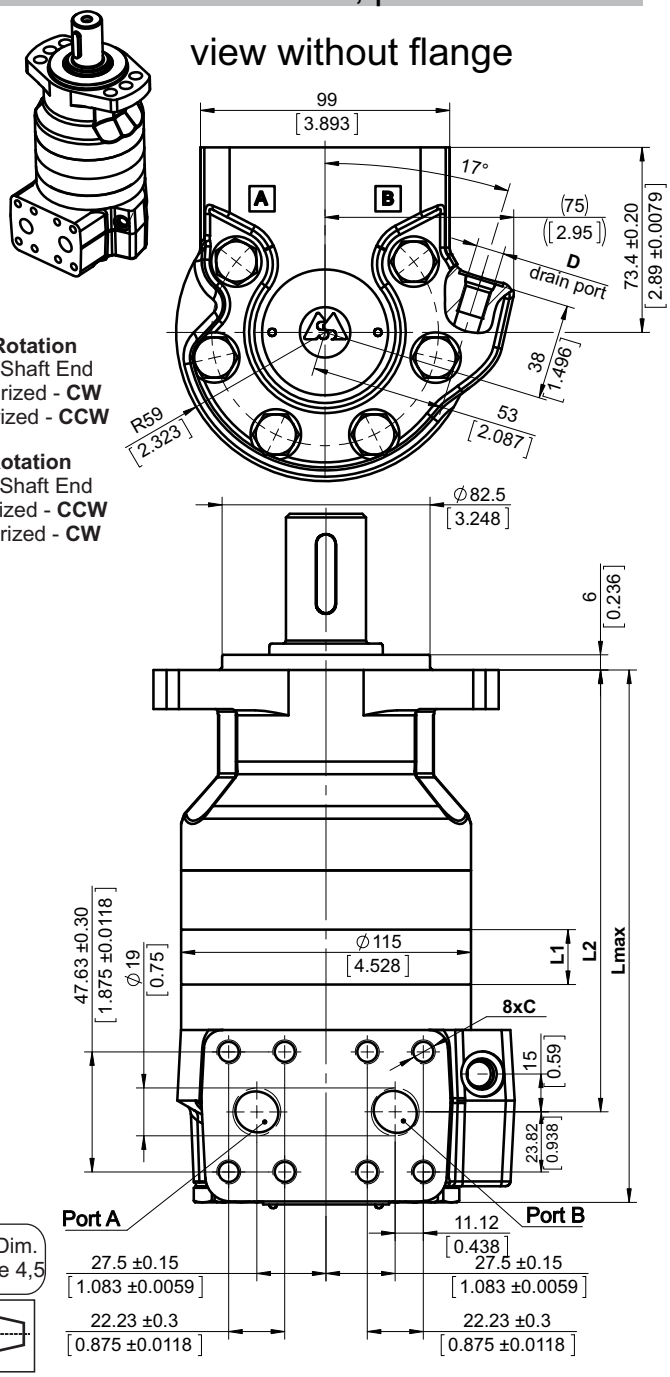
Flanges type A, 4A and F

Motor overall dimension and ports

Port version standard, port size 2,3,4,6,7,8



Port version standard, port size 1 and 5



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

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

Flange Dim.
See Page 4,5

mm [in]

	Port Size					
	2	3	4	6	7	8
$P_{(A,B)}$	2xG 3/4	2xM27x2	2x1 1/16-12UN	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF	G 1/4	M14x1,5	7/16-20UNF

	Port Size	
	1	5
$P_{(A,B)}$	2xSAE J518 3/4 PSI3000	2xSAE J518 3/4 PSI3000
D	G 1/4	7/16-20 UNF
C	M8-6H	3/8-16 UNC-2B

Type			L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZA**160**	MYZ4A**160**	MYZF**160**	21,8 [.86]	162.1[6.38]	211.2[8.31]
MYZA**200**	MYZ4A**200**	MYZF**200**	27,8 [1.09]	168.1[6.62]	217.2[8.55]
MYZA**250**	MYZ4A**250**	MYZF**250**	34,8 [1.37]	175.1[6.89]	224.2[8.83]
MYZA**315**	MYZ4A**315**	MYZF**315**	43,5 [1.71]	183.8[7.23]	232.9[9.17]
MYZA**400**	MYZ4A**400**	MYZF**400**	54,8 [2.16]	195.1[7.68]	244.2[9.61]
MYZA**470**	MYZ4A**470**	MYZF**470**	65,0 [2.56]	205.3[8.08]	254.4[10.02]
MYZA**500**	MYZ4A**500**	MYZF**500**	69,4 [2.73]	209.7[8.25]	258.8[10.19]
MYZA**550**	MYZ4A**550**	MYZF**550**	76,0 [2.99]	216.3[8.51]	265.4[10.45]

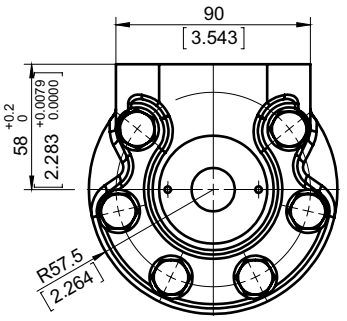
Type			L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZA**160**	MYZ4A**160**	MYZF**160**	21,8 [.86]	175.3[6.90]	211.2[8.31]
MYZA**200**	MYZ4A**200**	MYZF**200**	27,8 [1.09]	181.3[7.14]	217.2[8.55]
MYZA**250**	MYZ4A**250**	MYZF**250**	34,8 [1.37]	188.3[7.41]	224.2[8.83]
MYZA**315**	MYZ4A**315**	MYZF**315**	43,5 [1.71]	197[7.76]	232.9[9.17]
MYZA**400**	MYZ4A**400**	MYZF**400**	54,8 [2.16]	208.3[8.20]	244.2[9.61]
MYZA**470**	MYZ4A**470**	MYZF**470**	65,0 [2.56]	218.5[8.60]	254.4[10.02]
MYZA**500**	MYZ4A**500**	MYZF**500**	69,4 [2.73]	222.9[8.78]	258.8[10.19]
MYZA**550**	MYZ4A**550**	MYZF**550**	76,0 [2.99]	229.5[9.04]	265.4[10.45]

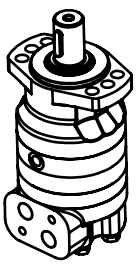
Flanges type A, 4A and F

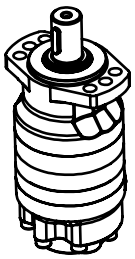
Motor overall dimension and ports

Port version M, port size 6,7,8

view without flange





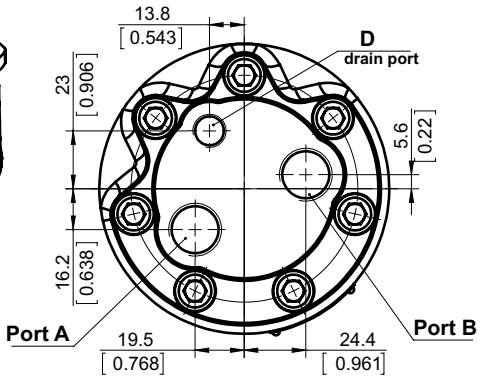


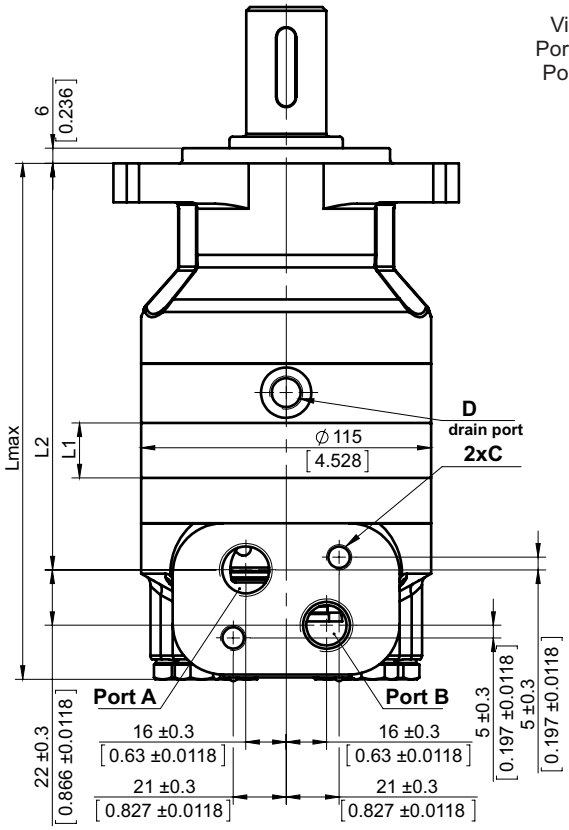
Standard Rotation
Viewed from Shaft End
Port **A** Pressurized - **CW**
Port **B** Pressurized - **CCW**

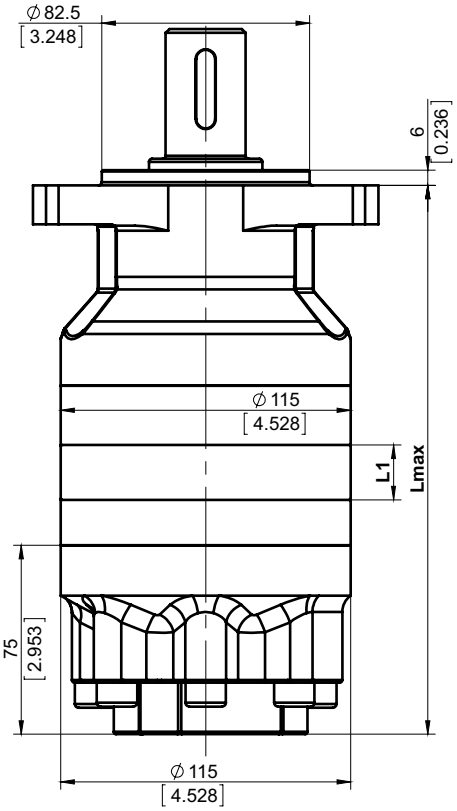
Reverse Rotation
Viewed from Shaft End
Port **A** Pressurized - **CCW**
Port **B** Pressurized - **CW**

Port version E, port size 6,7,8

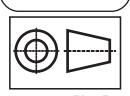
view without flange







Flange Dim.
See Page 4,5



mm [in]

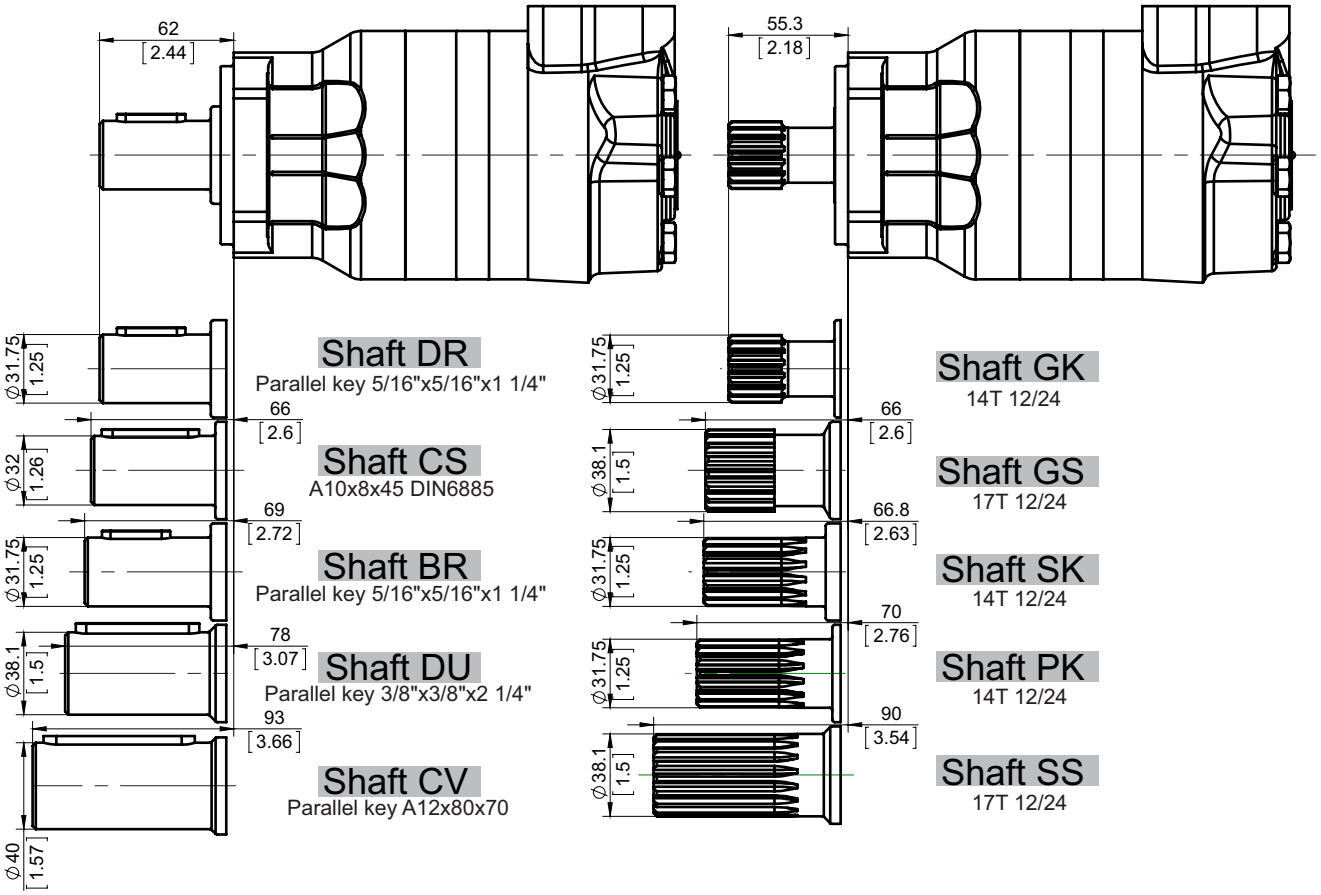
	Port Size		
	6	7	8
$P_{(A,B)}$	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF

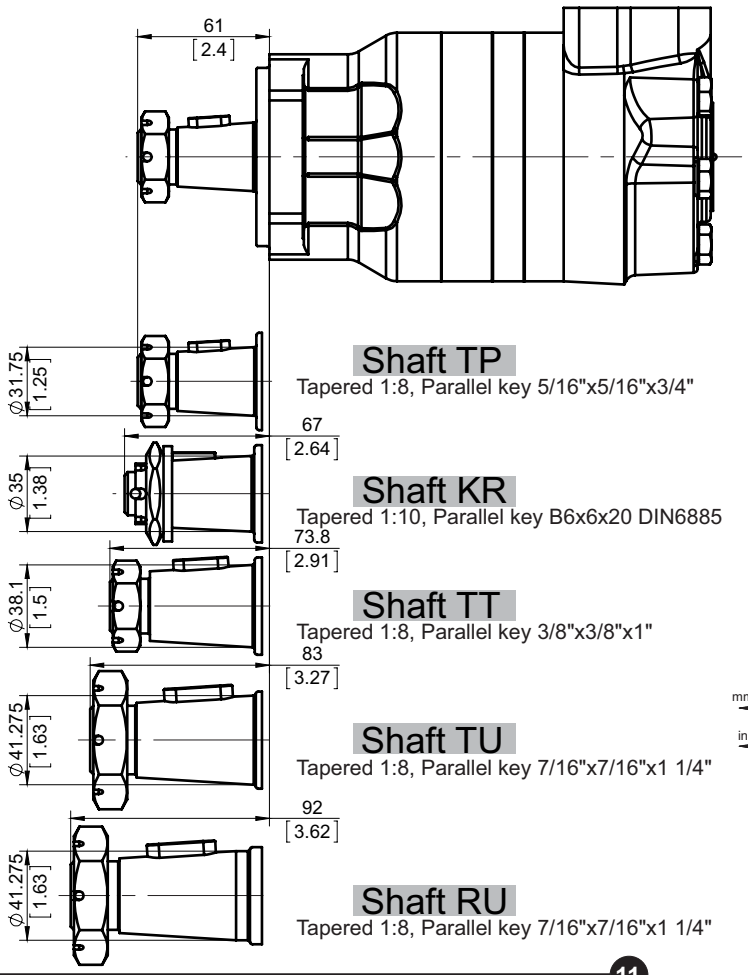
	Port Size		
	6	7	8
$P_{(A,B)}$	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF

Type			L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZ**MA160**	MYZ**M**4A**160**	MYZ**MF160**	21,8 [.86]	161.8[6.37]	204.7[8.06]
MYZ**MA200**	MYZ**M**4A**200**	MYZ**MF200**	27,8 [1.09]	167.8[6.61]	210.7[8.30]
MYZ**MA250**	MYZ**M**4A**250**	MYZ**MF250**	34,8 [1.37]	174.8[6.88]	217.7[8.57]
MYZ**MA315**	MYZ**M**4A**315**	MYZ**MF315**	43,5 [1.71]	183.5[7.22]	226.4[8.91]
MYZ**MA400**	MYZ**M**4A**400**	MYZ**MF400**	54,8 [2.16]	194.8[7.67]	237.7[9.36]
MYZ**MA470**	MYZ**M**4A**470**	MYZ**MF470**	65,0 [2.56]	205[8.07]	247.9[9.76]
MYZ**MA500**	MYZ**M**4A**500**	MYZ**MF500**	69,4 [2.73]	209.4[8.24]	252.3[9.93]
MYZ**MA550**	MYZ**M**4A**550**	MYZ**MF550**	76,0 [2.99]	216[8.50]	258.9[10.19]

Type			L_1, mm [in]	L_{max}, mm [in]
MYZ**EA160**	MYZ**E**4A**160**	MYZ**EF160**	21,8 [.86]	217.8[8.57]
MYZ**EA200**	MYZ**E**4A**200**	MYZ**EF200**	27,8 [1.09]	223.8[8.81]
MYZ**EA250**	MYZ**E**4A**250**	MYZ**EF250**	34,8 [1.37]	230.8[9.09]
MYZ**EA315**	MYZ**E**4A**315**	MYZ**EF315**	43,5 [1.71]	239.5[9.43]
MYZ**EA400**	MYZ**E**4A**400**	MYZ**EF400**	54,8 [2.16]	250.8[9.87]
MYZ**EA470**	MYZ**E**4A**470**	MYZ**EF470**	65,0 [2.56]	261[10.28]
MYZ**EA500**	MYZ**E**4A**500**	MYZ**EF500**	69,4 [2.73]	265.4[10.45]
MYZ**EA550**	MYZ**E**4A**550**	MYZ**EF550**	76,0 [2.99]	272[10.71]

Flanges type A, 4A and F
Shaft distance

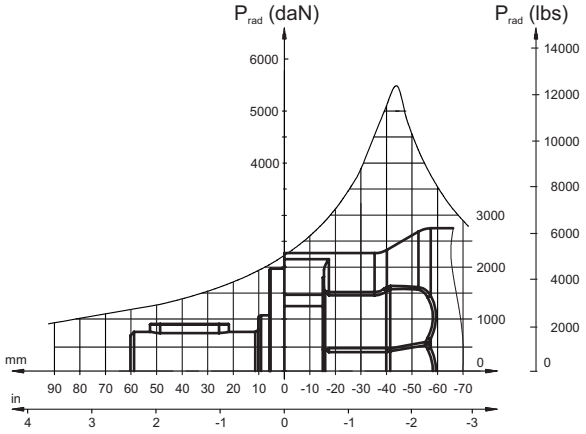




Shaft Dim.
See Page 6,7,8

PERMISSIBLE SHAFT LOADS

The curves apply to a B10 bearing life (ISO281) of 2000 hours at 100 RPM.



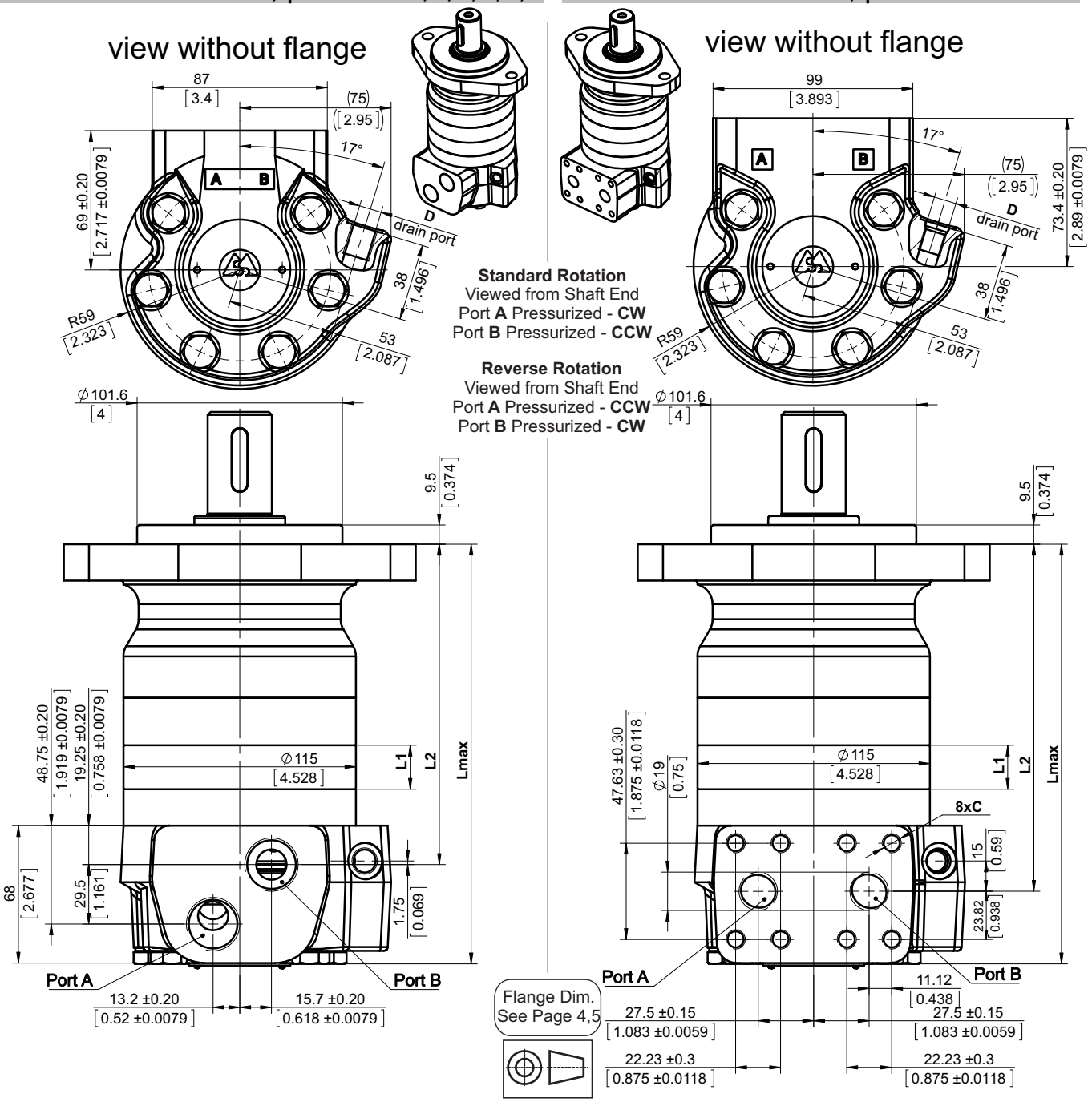
The permissible radial load on the shaft is shown for an axial load of 0 N as function of the distance from the mounting flange to the point of load application
For permissible axial load please ask

mm [in]

Flange type B

Motor overall dimension and ports

Port version standard, port size 2,3,4,6,7,8



	Port Size					
	2	3	4	6	7	8
$P_{(A,B)}$	2xG 3/4	2xM27x2	2x1 1/16-12UN	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF	G 1/4	M14x1,5	7/16-20UNF

Type	L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZB**160**	21,8 [.86]	158.6[6.24]	207.7[8.18]
MYZB**200**	27,8 [1.09]	164.6[6.48]	213.7[8.41]
MYZB**250**	34,8 [1.37]	171.6[6.76]	220.7[8.69]
MYZB**315**	43,5 [1.71]	180.3[7.10]	229.4[9.03]
MYZB**400**	54,8 [2.16]	191.6[7.54]	240.7[9.48]
MYZB**470**	65,0 [2.56]	201.8[7.94]	250.9[9.88]
MYZB**500**	69,4 [2.73]	206.2[8.12]	255.3[10.05]
MYZB**550**	76,0 [2.99]	212.8[8.38]	261.9[10.31]

Port version standard, port size 1 and 5

	Port Size	
	1	5
$P_{(A,B)}$	2xSAE J518 3/4 PSI3000	2xSAE J518 3/4 PSI3000
D	G 1/4	7/16-20 UNF
C	M8-6H	3/8-16 UNC-2B

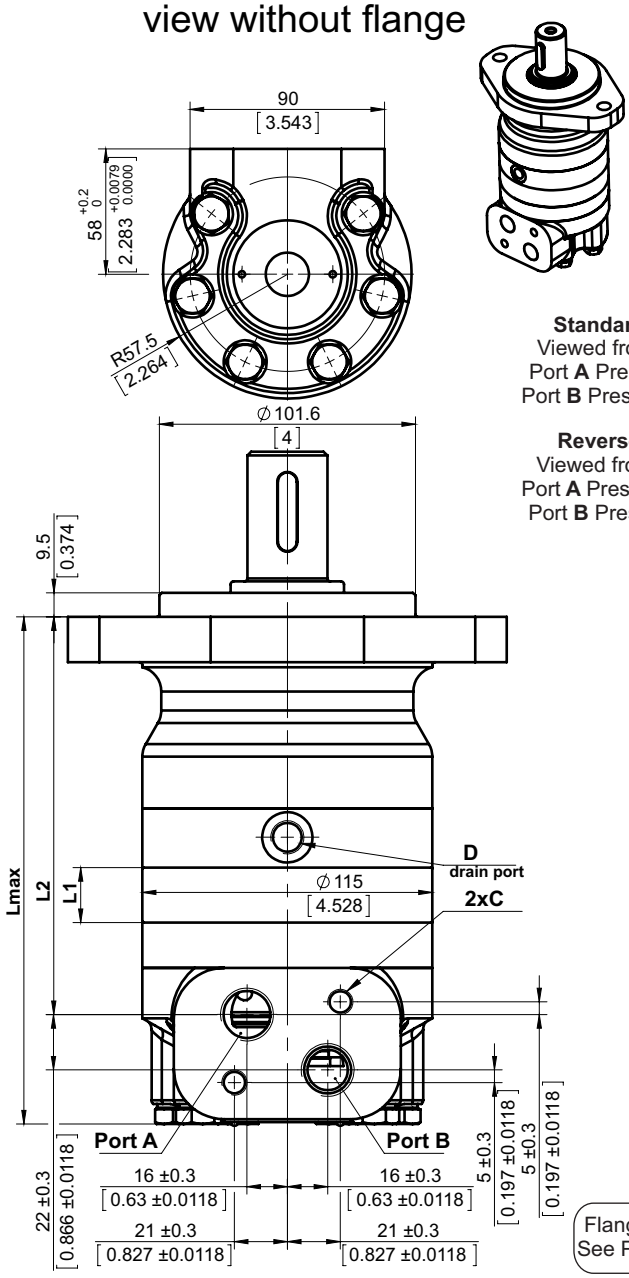
Type	L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZB**160**	21,8 [.86]	171.8[6.76]	207.7[8.18]
MYZB**200**	27,8 [1.09]	177.8[7.00]	213.7[8.41]
MYZB**250**	34,8 [1.37]	184.8[7.28]	220.7[8.69]
MYZB**315**	43,5 [1.71]	193.5[7.62]	229.4[9.03]
MYZB**400**	54,8 [2.16]	204.8[8.06]	240.7[9.48]
MYZB**470**	65,0 [2.56]	215[8.46]	250.9[9.88]
MYZB**500**	69,4 [2.73]	219.4[8.64]	255.3[10.05]
MYZB**550**	76,0 [2.99]	226[8.90]	261.9[10.31]

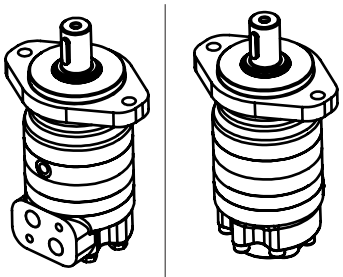
Flange type B

Motor overall dimension and ports

Port version M, port size 6,7,8

view without flange



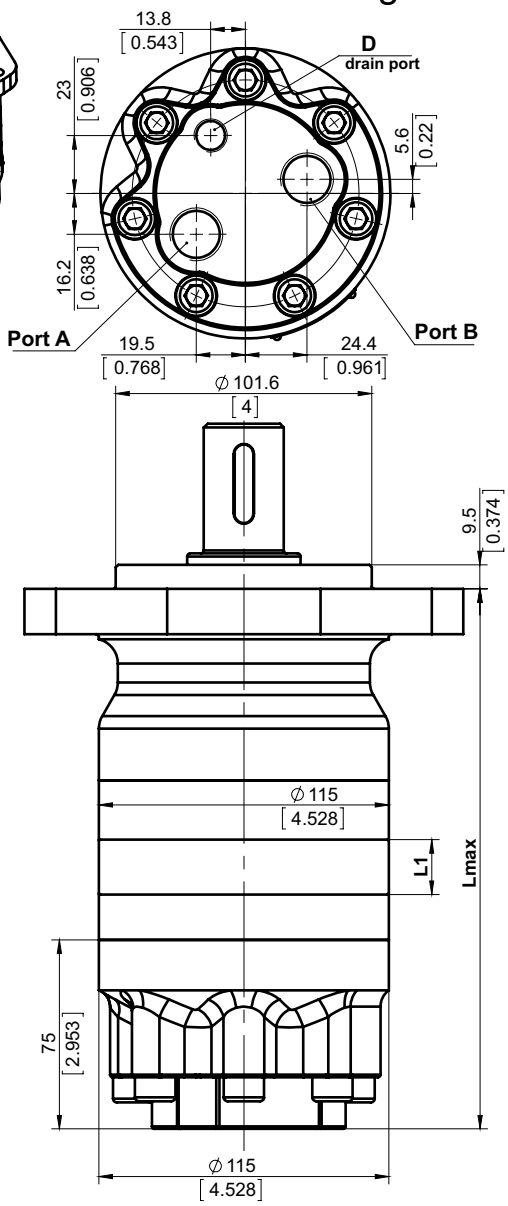


Standard Rotation
Viewed from Shaft End
Port **A** Pressurized - **CW**
Port **B** Pressurized - **CCW**

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

Port version E, port size 6,7,8

view without flange



Flange Dim.
See Page 4,5

mm [in]

	Port Size		
	6	7	8
$P_{(A,B)}$	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF

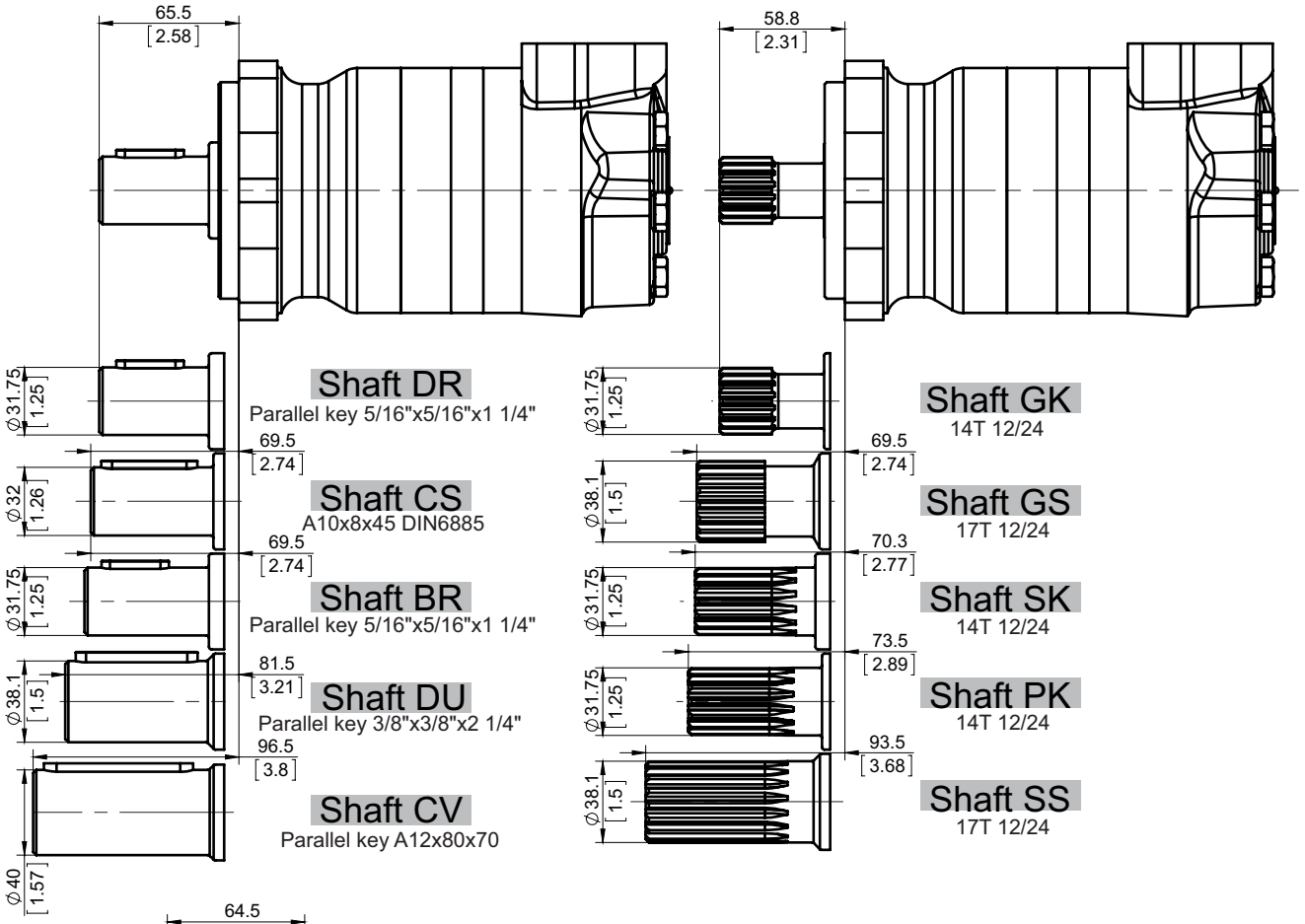
Type	L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZ**MB160**	21,8 [.86]	157.8[6.21]	201.2[7.92]
MYZ**MB200**	27,8 [1.09]	163.8[6.45]	207.2[8.16]
MYZ**MB250**	34,8 [1.37]	170.8[6.72]	214.2[8.43]
MYZ**MB315**	43,5 [1.71]	179.5[7.07]	222.9[8.78]
MYZ**MB400**	54,8 [2.16]	190.8[7.51]	234.2[9.22]
MYZ**MB470**	65,0 [2.56]	201[7.91]	244.4[9.62]
MYZ**MB500**	69,4 [2.73]	205.4[8.09]	248.8[9.80]
MYZ**MB550**	76,0 [2.99]	212[8.35]	255.4[10.06]

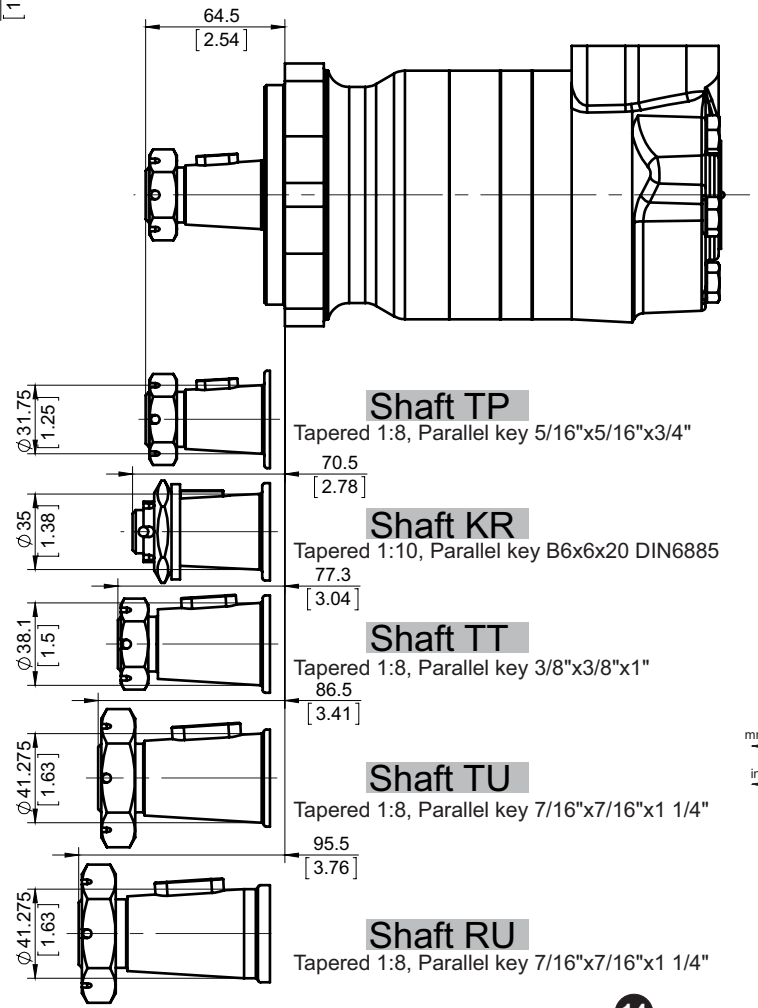
	Port Size		
	6	7	8
$P_{(A,B)}$	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF

Type	L_1, mm [in]	L_{max}, mm [in]
MYZ**EB160**	21,8 [.86]	214.3[8.44]
MYZ**EB200**	27,8 [1.09]	220.3[8.67]
MYZ**EB250**	34,8 [1.37]	227.3[8.95]
MYZ**EB315**	43,5 [1.71]	236[9.29]
MYZ**EB400**	54,8 [2.16]	247.3[9.74]
MYZ**EB470**	65,0 [2.56]	257.5[10.14]
MYZ**EB500**	69,4 [2.73]	261.9[10.31]
MYZ**EB550**	76,0 [2.99]	268.5[10.57]

Flange type B

Shaft distance

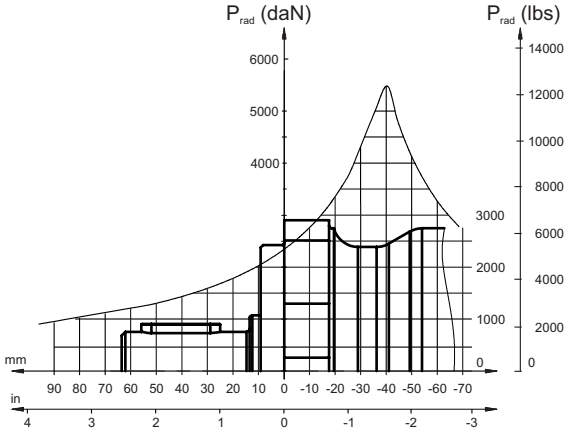




Shaft Dim.
See Page 6,7,8

PERMISSIBLE SHAFT LOADS

The curves apply to a B10 bearing life (ISO281) of 2000 hours at 100 RPM.



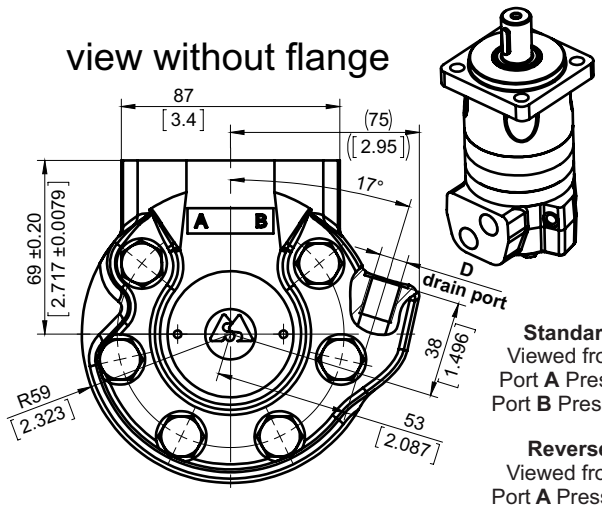
The permissible radial load on the shaft is shown for an axial load of 0 N as function of the distance from the mounting flange to the point of load application
For permissible axial load please ask

mm [in]

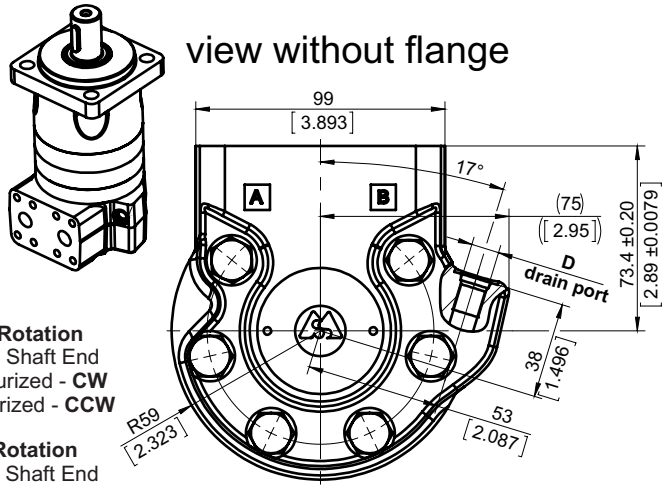
Flange type 4B

Motor overall dimension and ports

Port version standard, port size 2,3,4,6,7,8

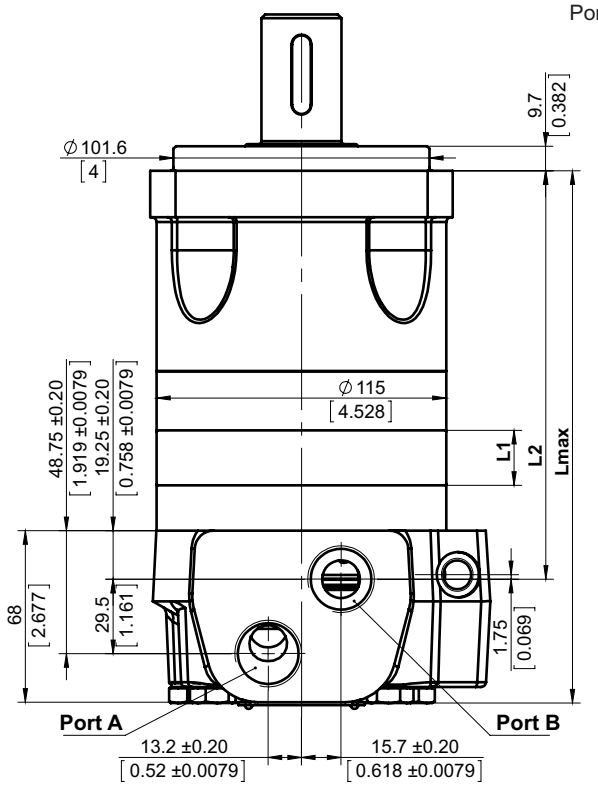


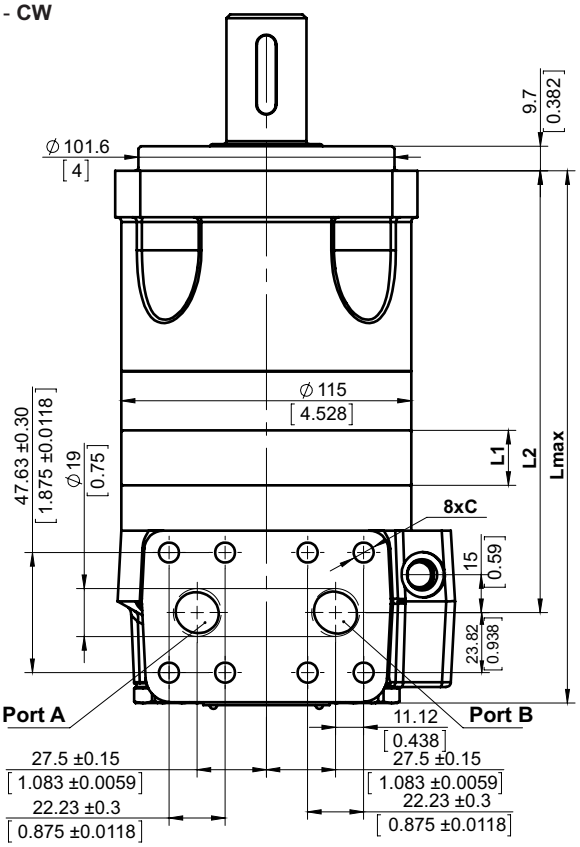
Port version standard, port size 1 and 5



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

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





Flange Dim.
See Page 4,5

mm [in]

	Port Size					
	2	3	4	6	7	8
$P_{(A,B)}$	2xG 3/4	2xM27x2	2x1 1/16-12UN	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF	G 1/4	M14x1,5	7/16-20UNF

	Port Size	
	1	5
$P_{(A,B)}$	2xSAE J518 3/4 PSI3000	2xSAE J518 3/4 PSI3000
D	G 1/4	7/16-20 UNF
C	M8-6H	3/8-16 UNC-2B

Type	L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZ4B**160**	21,8 [.86]	162.1[6.38]	211.2[8.31]
MYZ4B**200**	27,8 [1.09]	168.1[6.62]	217.2[8.55]
MYZ4B**250**	34,8 [1.37]	175.1[6.89]	224.2[8.83]
MYZ4B**315**	43,5 [1.71]	183.8[7.24]	232.9[9.17]
MYZ4B**400**	54,8 [2.16]	195.1[7.68]	244.2[9.61]
MYZ4B**470**	65,0 [2.56]	205.3[8.08]	254.4[10.02]
MYZ4B**500**	69,4 [2.73]	209.7[8.26]	258.8[10.19]
MYZ4B**550**	76,0 [2.99]	216.3[8.52]	265.4[10.45]

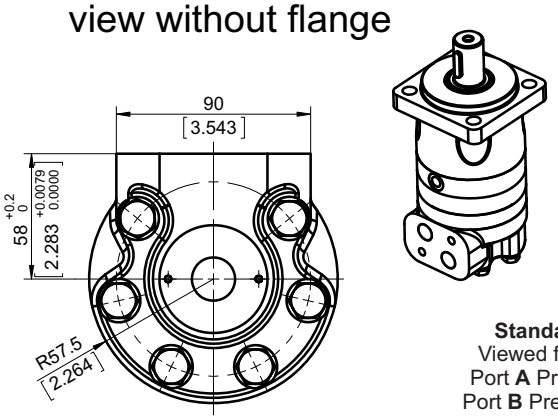
Type	L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZ4B**160**	21,8 [.86]	175.3[6.90]	211.2[8.31]
MYZ4B**200**	27,8 [1.09]	181.3[7.14]	217.2[8.55]
MYZ4B**250**	34,8 [1.37]	188.3[7.41]	224.2[8.83]
MYZ4B**315**	43,5 [1.71]	197[7.76]	232.9[9.17]
MYZ4B**400**	54,8 [2.16]	208.3[8.20]	244.2[9.61]
MYZ4B**470**	65,0 [2.56]	218.5[8.60]	254.4[10.02]
MYZ4B**500**	69,4 [2.73]	222.9[8.78]	258.8[10.19]
MYZ4B**550**	76,0 [2.99]	229.5[9.04]	265.4[10.45]

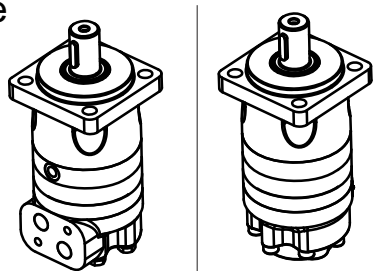
Flange type 4B

Motor overall dimension and ports

Port version M, port size 6,7,8

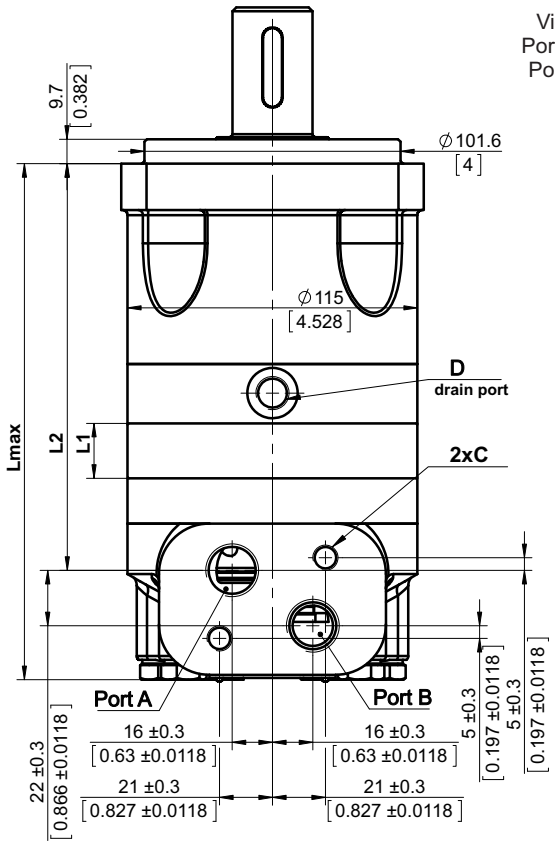
view without flange





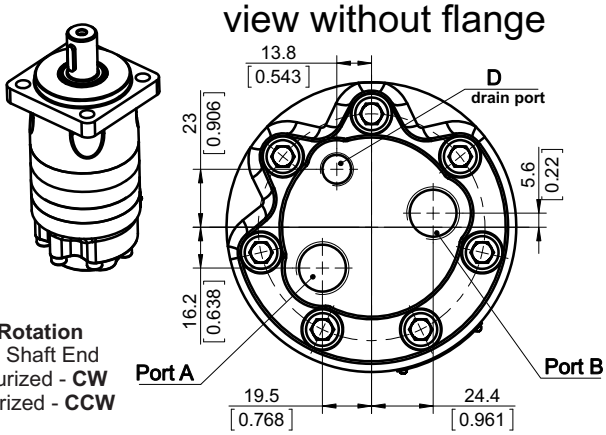
Standard Rotation
Viewed from Shaft End
Port **A** Pressurized - **CW**
Port **B** Pressurized - **CCW**

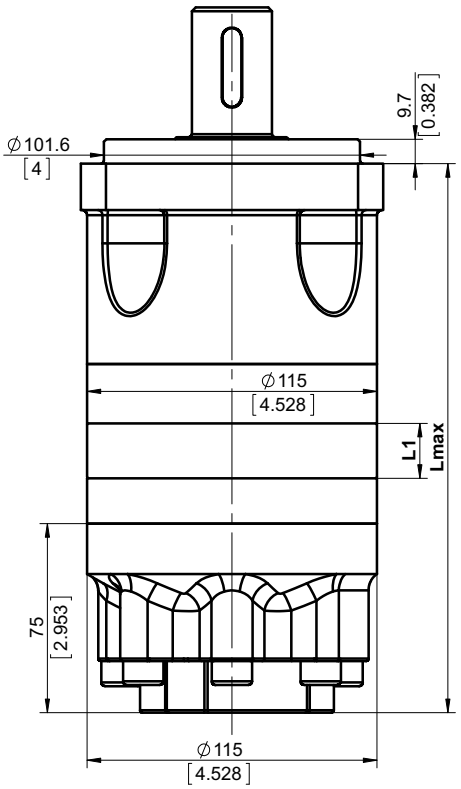
Reverse Rotation
Viewed from Shaft End
Port **A** Pressurized - **CCW**
Port **B** Pressurized - **CW**



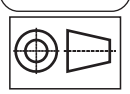
Port version E, port size 6,7,8

view without flange





Flange Dim.
See Page 4,5



mm [in]

	Port Size		
	6	7	8
$P_{(A,B)}$	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF

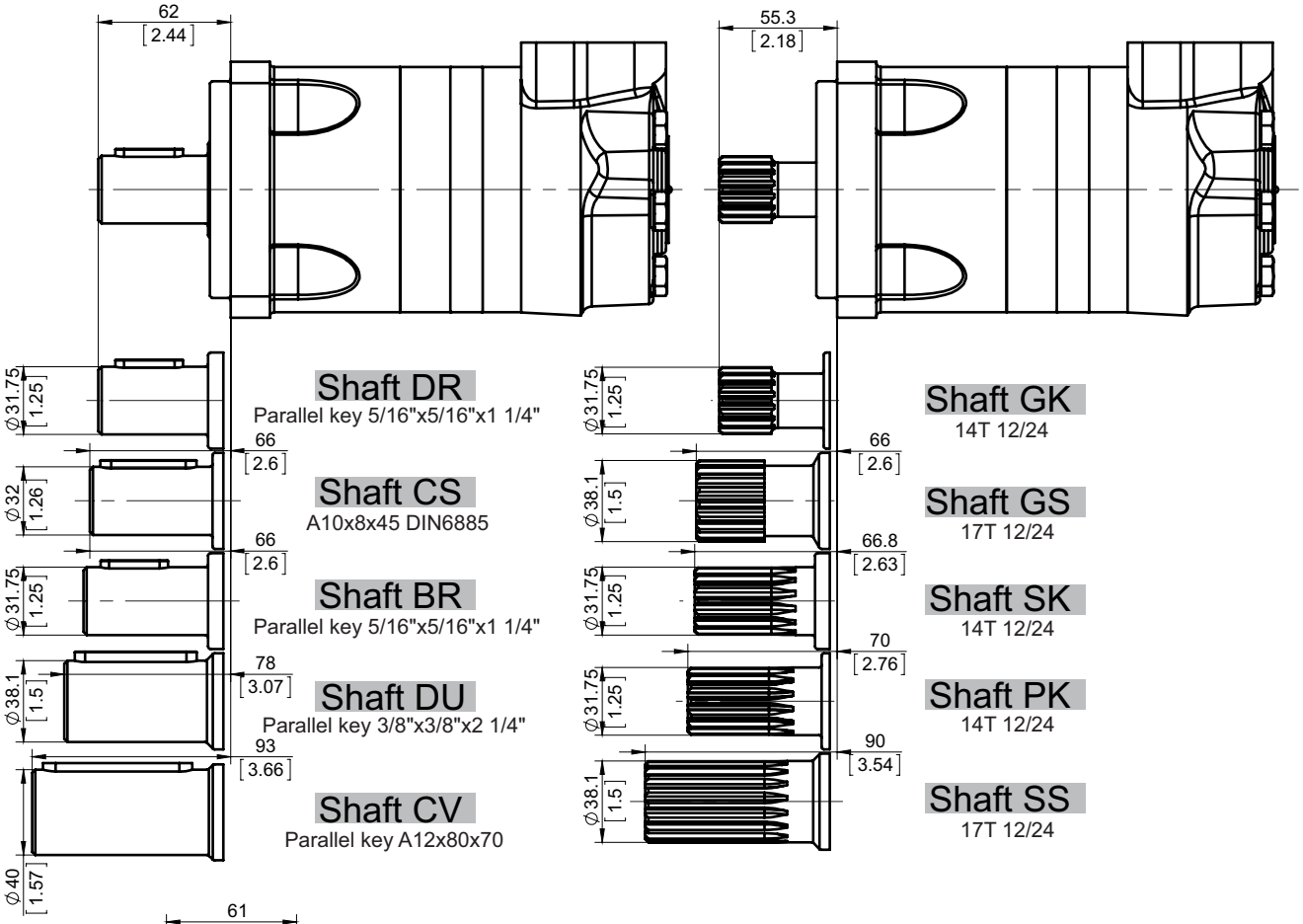
Type	L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZ**M**4B**160**	21,8 [.86]	161.3[6.35]	204.7[8.06]
MYZ**M**4B**200**	27,8 [1.09]	167.3[6.59]	210.7[8.30]
MYZ**M**4B**250**	34,8 [1.37]	174.3[6.86]	217.7[8.57]
MYZ**M**4B**315**	43,5 [1.71]	183[7.20]	226.4[8.91]
MYZ**M**4B**400**	54,8 [2.16]	194.3[7.65]	237.7[9.36]
MYZ**M**4B**470**	65,0 [2.56]	204.5[8.05]	247.9[9.76]
MYZ**M**4B**500**	69,4 [2.73]	208.9[8.22]	252.3[9.93]
MYZ**M**4B**550**	76,0 [2.99]	215.5[8.48]	258.9[10.19]

	Port Size		
	6	7	8
$P_{(A,B)}$	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF

Type	L_1, mm [in]	L_{max}, mm [in]
MYZ**E**4B**160**	21,8 [.86]	217.8[8.57]
MYZ**E**4B**200**	27,8 [1.09]	223.8[8.81]
MYZ**E**4B**250**	34,8 [1.37]	230.8[9.09]
MYZ**E**4B**315**	43,5 [1.71]	239.5[9.43]
MYZ**E**4B**400**	54,8 [2.16]	250.8[9.87]
MYZ**E**4B**470**	65,0 [2.56]	261[10.28]
MYZ**E**4B**500**	69,4 [2.73]	265.4[10.45]
MYZ**E**4B**550**	76,0 [2.99]	272[10.71]

Flange type 4B

Shaft distance



Shaft DR
Parallel key 5/16"x5/16"x1 1/4"

Shaft CS
A10x8x45 DIN6885

Shaft BR
Parallel key 5/16"x5/16"x1 1/4"

Shaft DU
Parallel key 3/8"x3/8"x2 1/4"

Shaft CV
Parallel key A12x80x70

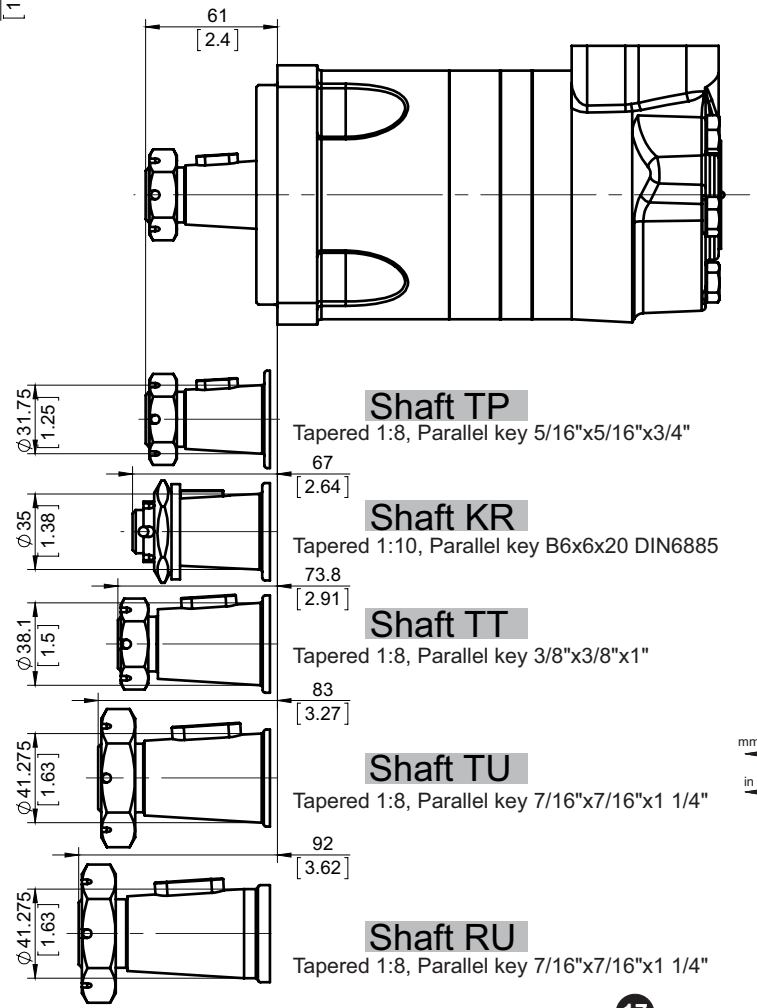
Shaft GK
14T 12/24

Shaft GS
17T 12/24

Shaft SK
14T 12/24

Shaft PK
14T 12/24

Shaft SS
17T 12/24



Shaft TP
Tapered 1:8, Parallel key 5/16"x5/16"x3/4"

Shaft KR
Tapered 1:10, Parallel key B6x6x20 DIN6885

Shaft TT
Tapered 1:8, Parallel key 3/8"x3/8"x1"

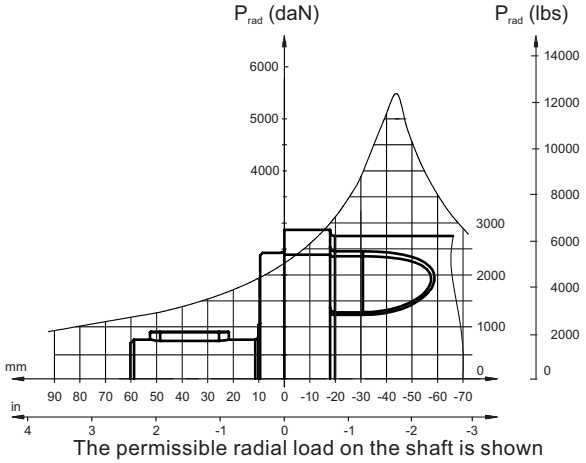
Shaft TU
Tapered 1:8, Parallel key 7/16"x7/16"x1 1/4"

Shaft RU
Tapered 1:8, Parallel key 7/16"x7/16"x1 1/4"

Shaft Dim.
See Page 6,7,8

PERMISSIBLE SHAFT LOADS

The curves apply to a B10 bearing life (ISO281) of 2000 hours at 100 RPM.



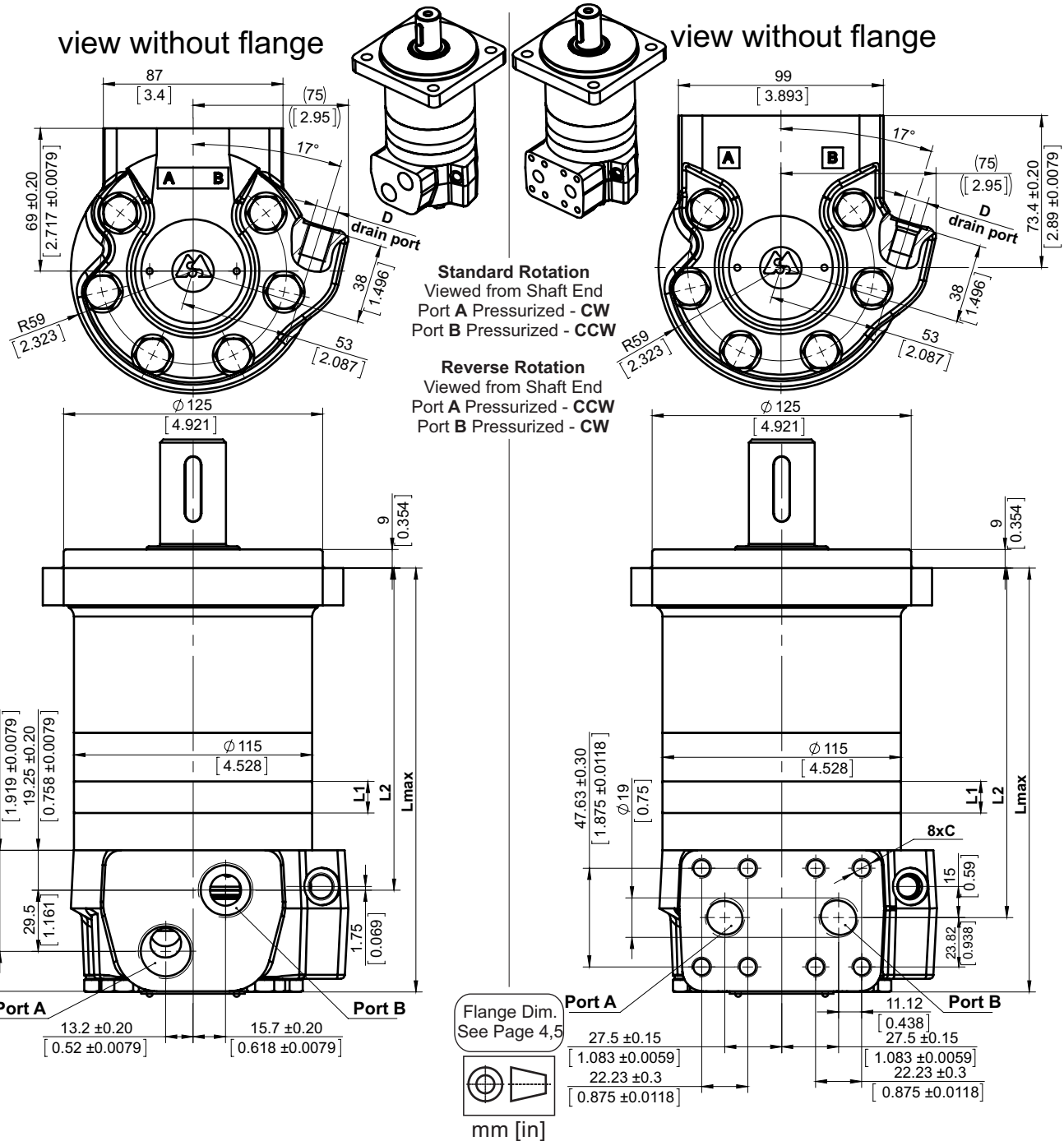
The permissible radial load on the shaft is shown for an axial load of 0 N as function of the distance from the mounting flange to the point of load application
For permissible axial load please ask

mm [in]

Flange type 4L

Motor overall dimension and ports

Port version standard, port size 2,3,4,6,7,8



Port version standard, port size 1 and 5

Flange Dim.
See Page 4,5

mm [in]

	Port Size					
	2	3	4	6	7	8
$P_{(A,B)}$	2xG 3/4	2xM27x2	2x1 1/16-12UN	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF	G 1/4	M14x1,5	7/16-20UNF

	Port Size	
	1	5
$P_{(A,B)}$	2xSAE J518 3/4 PSI3000	2xSAE J518 3/4 PSI3000
D	G 1/4	7/16-20 UNF
C	M8-6H	3/8-16 UNC-2B

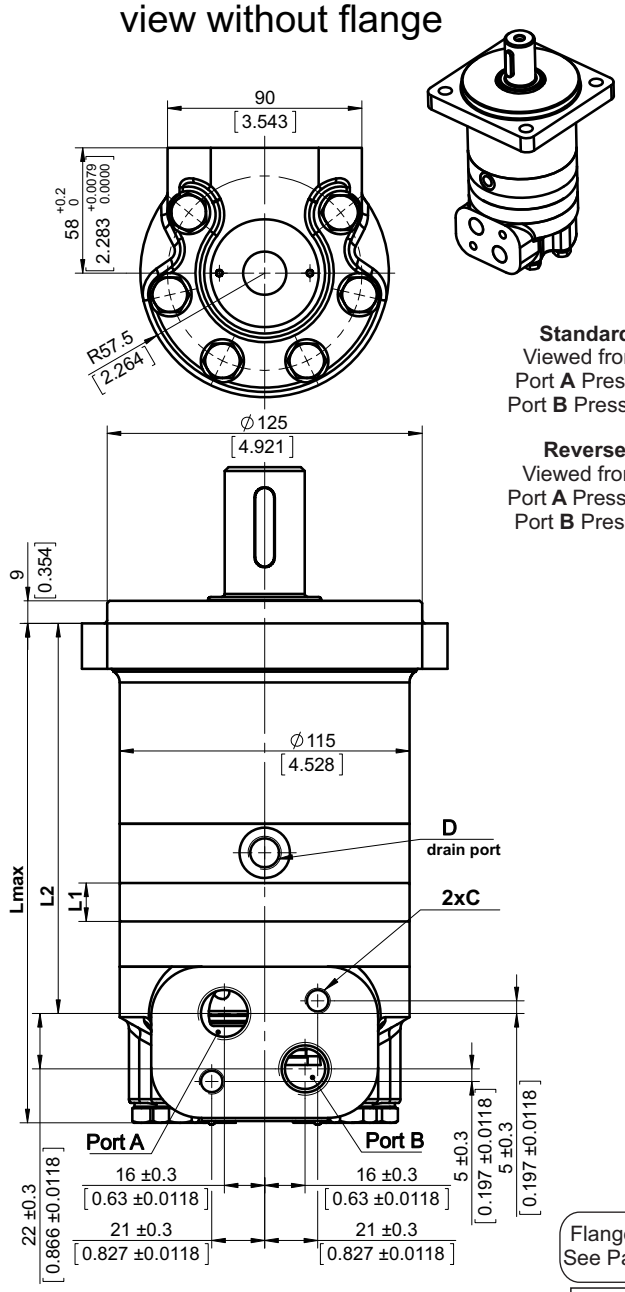
Type	L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZ4L**160**	21,8 [.86]	162.1[6.38]	211.2[8.31]
MYZ4L**200**	27,8 [1.09]	168.1[6.62]	217.2[8.55]
MYZ4L**250**	34,8 [1.37]	175.1[6.89]	224.2[8.83]
MYZ4L**315**	43,5 [1.71]	183.8[7.23]	232.9[9.17]
MYZ4L**400**	54,8 [2.16]	195.1[7.68]	244.2[9.61]
MYZ4L**470**	65,0 [2.56]	205.3[8.08]	254.4[10.02]
MYZ4L**500**	69,4 [2.73]	209.7[8.25]	258.8[10.19]
MYZ4L**550**	76,0 [2.99]	216.3[8.51]	265.4[10.45]

Type	L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZ4L**160**	21,8 [.86]	175.3[6.90]	211.2[8.31]
MYZ4L**200**	27,8 [1.09]	181.3[7.14]	217.2[8.55]
MYZ4L**250**	34,8 [1.37]	188.3[7.41]	224.2[8.83]
MYZ4L**315**	43,5 [1.71]	197[7.76]	232.9[9.17]
MYZ4L**400**	54,8 [2.16]	208.3[8.20]	244.2[9.61]
MYZ4L**470**	65,0 [2.56]	218.5[8.60]	254.4[10.02]
MYZ4L**500**	69,4 [2.73]	222.9[8.78]	258.8[10.19]
MYZ4L**550**	76,0 [2.99]	229.5[9.04]	265.4[10.45]

Flange type 4L

Motor overall dimension and ports

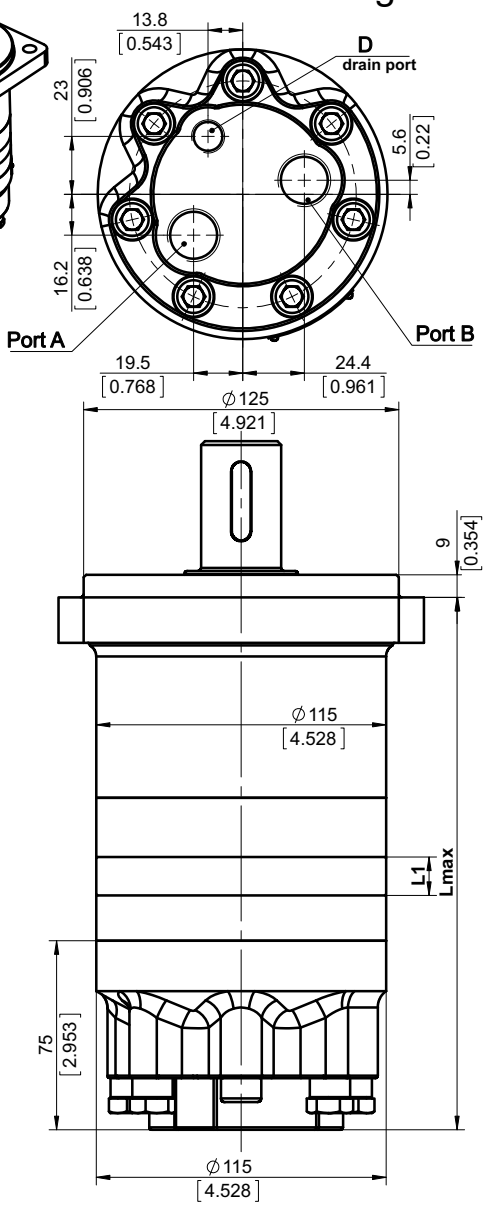
Port version M, port size 6,7,8
view without flange



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

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

Port version E, port size 6,7,8
view without flange



Flange Dim. See Page 4,5

mm [in]

	Port Size		
	6	7	8
$P_{(A,B)}$	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF

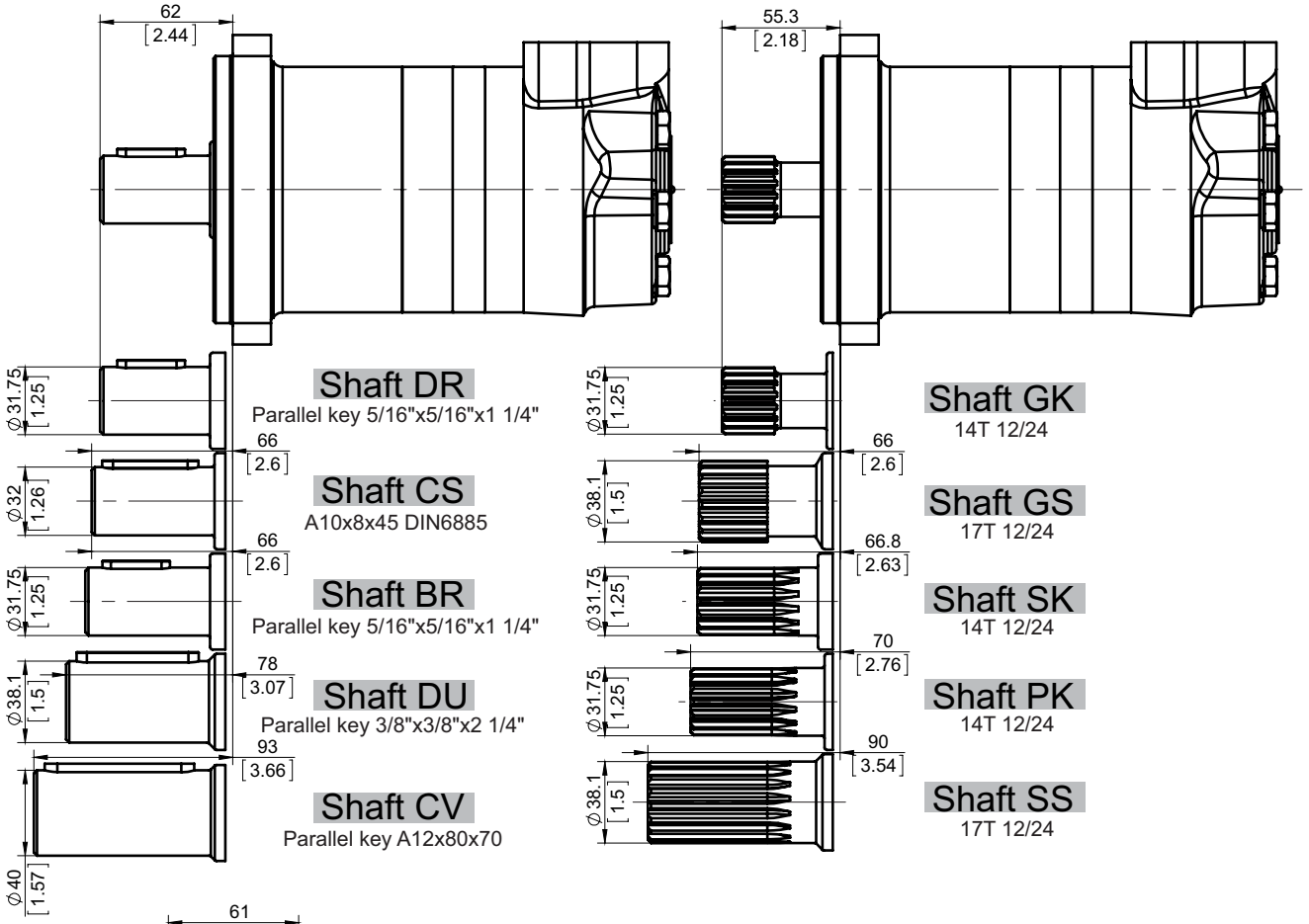
Type	L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZ**M**4L**160**	21,8 [.86]	161.3[6.35]	205[8.07]
MYZ**M**4L**200**	27,8 [1.09]	167.3[6.59]	211[8.31]
MYZ**M**4L**250**	34,8 [1.37]	174.3[6.86]	218[8.58]
MYZ**M**4L**315**	43,5 [1.71]	183[7.20]	226.7[8.93]
MYZ**M**4L**400**	54,8 [2.16]	194.3[7.65]	238[9.37]
MYZ**M**4L**470**	65,0 [2.56]	204.5[8.05]	248.2[9.77]
MYZ**M**4L**500**	69,4 [2.73]	208.9[8.22]	252.6[9.94]
MYZ**M**4L**550**	76,0 [2.99]	215.5[8.48]	259.2[10.20]

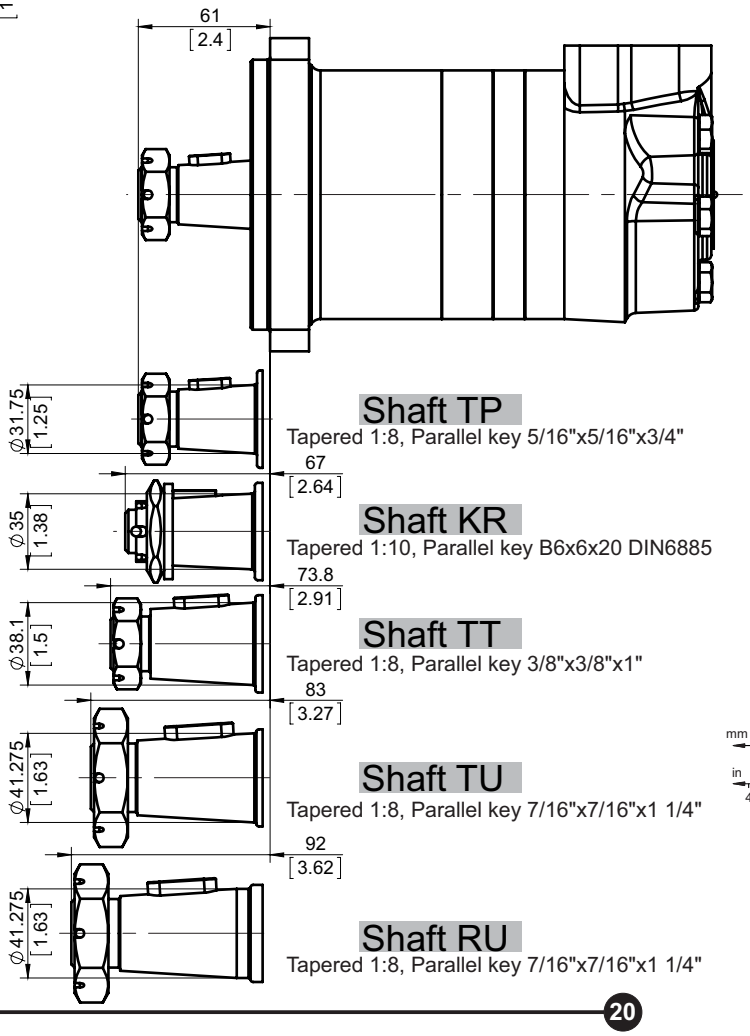
	Port Size		
	6	7	8
$P_{(A,B)}$	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF

Type	L_1, mm [in]	L_{max}, mm [in]
MYZ**E**4L**160**	21,8 [.86]	217.8[8.57]
MYZ**E**4L**200**	27,8 [1.09]	223.8[8.81]
MYZ**E**4L**250**	34,8 [1.37]	230.8[9.09]
MYZ**E**4L**315**	43,5 [1.71]	239.5[9.43]
MYZ**E**4L**400**	54,8 [2.16]	250.8[9.87]
MYZ**E**4L**470**	65,0 [2.56]	261[10.28]
MYZ**E**4L**500**	69,4 [2.73]	265.4[10.45]
MYZ**E**4L**550**	76,0 [2.99]	272[10.71]

Flange type 4L

Shaft distance

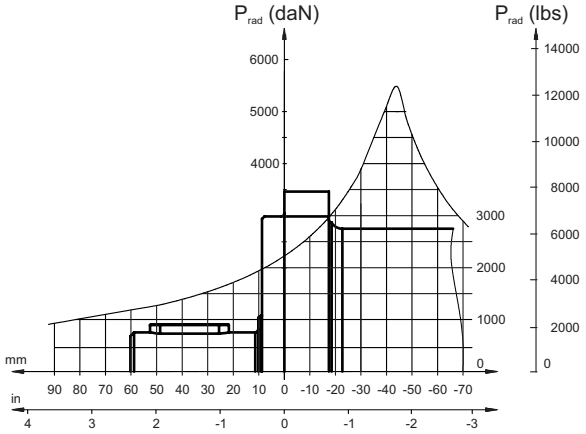




Shaft Dim.
See Page 6,7,8

PERMISSIBLE SHAFT LOADS

The curves apply to a B10 bearing life (ISO281) of 2000 hours at 100 RPM.



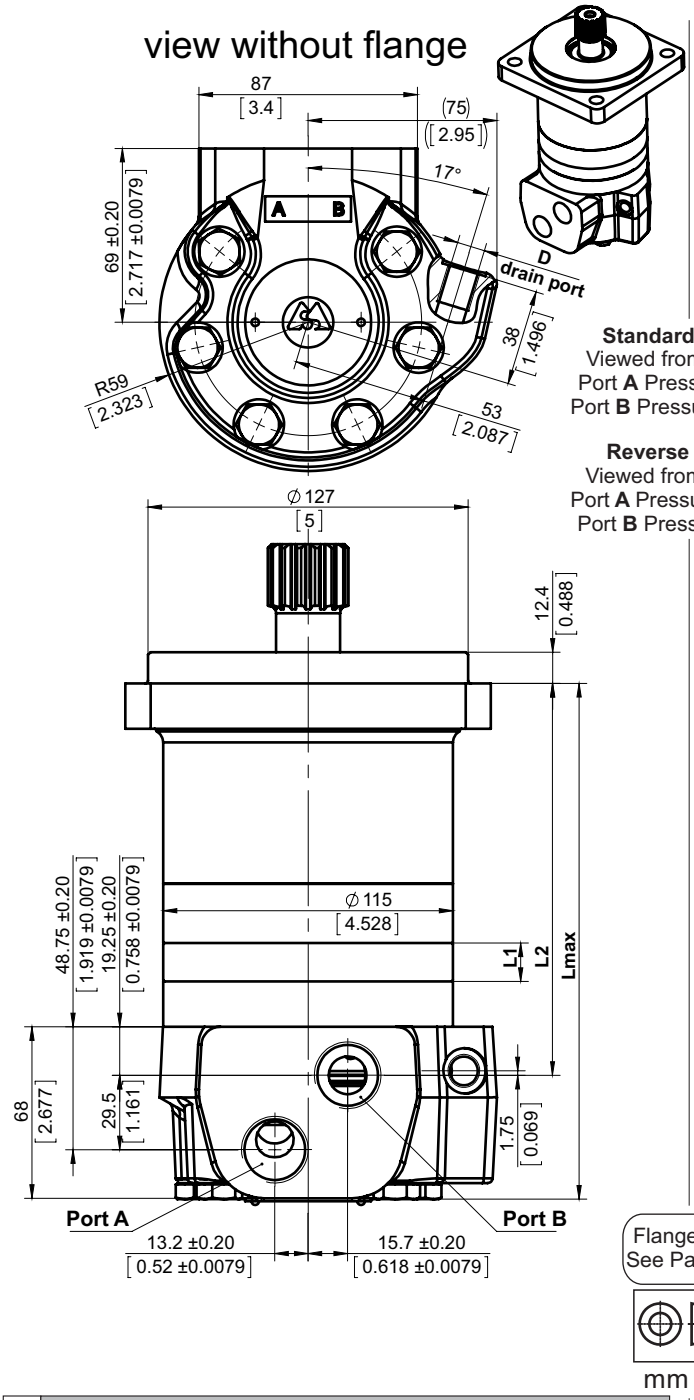
The permissible radial load on the shaft is shown for an axial load of 0 N as function of the distance from the mounting flange to the point of load application
For permissible axial load please ask

mm [in]

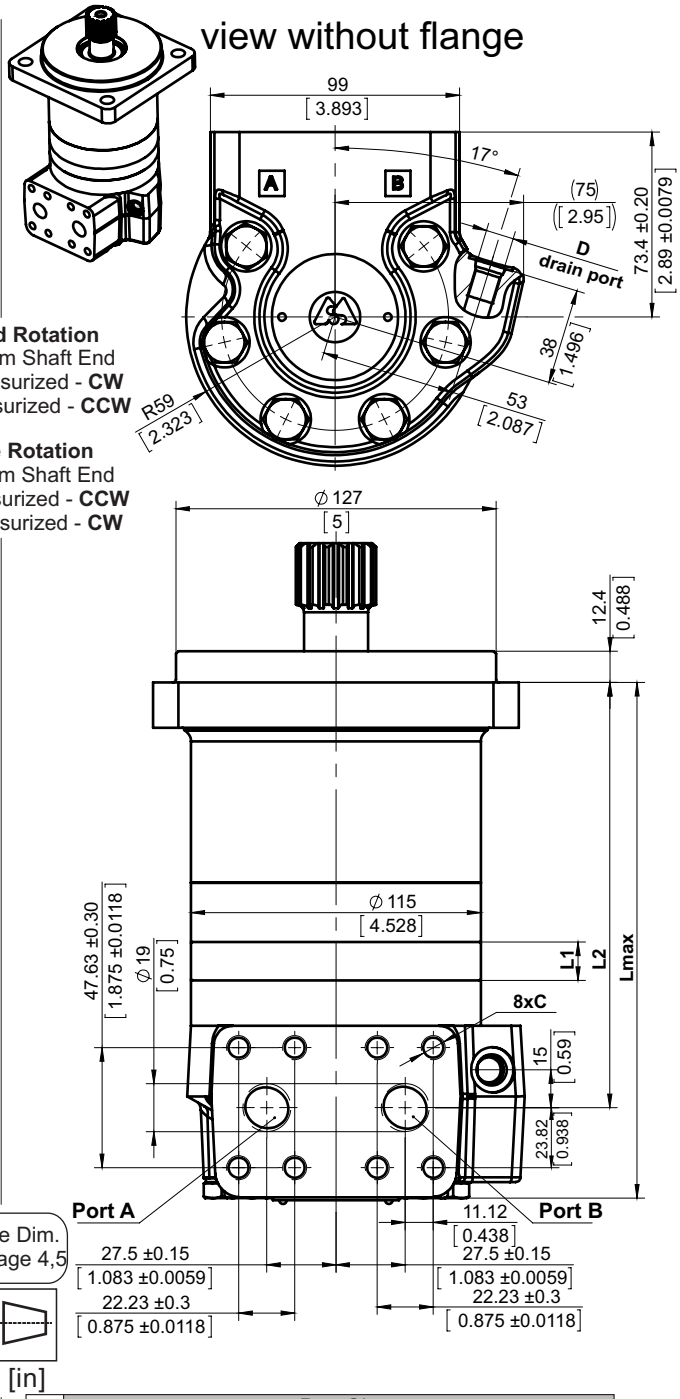
Flange type 4C

Motor overall dimension and ports

Port version standard, port size 2,3,4,6,7,8



Port version standard, port size 1 and 5



Flange Dim.
See Page 4,5

mm [in]

	Port Size					
	2	3	4	6	7	8
$P_{(A,B)}$	2xG 3/4	2xM27x2	2x1 1/16-12UN	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF	G 1/4	M14x1,5	7/16-20UNF

	Port Size	
	1	5
$P_{(A,B)}$	2xSAE J518 3/4 PSI3000	2xSAE J518 3/4 PSI3000
D	G 1/4	7/16-20 UNF
C	M8-6H	3/8-16 UNC-2B

Type	L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZ4C**160**	21,8 [.86]	162.1[6.38]	211.2[8.31]
MYZ4C**200**	27,8 [1.09]	168.1[6.62]	217.2[8.55]
MYZ4C**250**	34,8 [1.37]	175.1[6.89]	224.2[8.83]
MYZ4C**315**	43,5 [1.71]	183.8[7.23]	232.9[9.17]
MYZ4C**400**	54,8 [2.16]	195.1[7.68]	244.2[9.61]
MYZ4C**470**	65,0 [2.56]	205.3[8.08]	254.4[10.02]
MYZ4C**500**	69,4 [2.73]	209.7[8.25]	258.8[10.19]
MYZ4C**550**	76,0 [2.99]	216.3[8.51]	265.4[10.45]

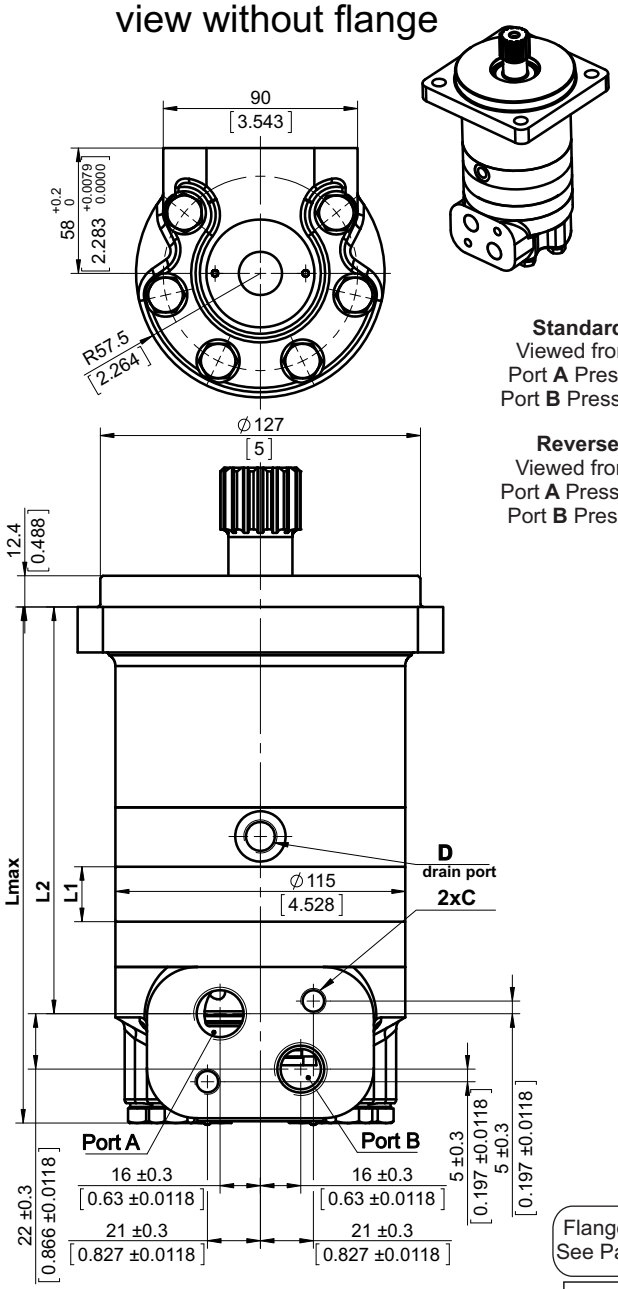
Type	L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZ4C**160**	21,8 [.86]	175.3[6.90]	211.2[8.31]
MYZ4C**200**	27,8 [1.09]	181.3[7.14]	217.2[8.55]
MYZ4C**250**	34,8 [1.37]	188.3[7.41]	224.2[8.83]
MYZ4C**315**	43,5 [1.71]	197[7.76]	232.9[9.17]
MYZ4C**400**	54,8 [2.16]	208.3[8.20]	244.2[9.61]
MYZ4C**470**	65,0 [2.56]	218.5[8.60]	254.4[10.02]
MYZ4C**500**	69,4 [2.73]	222.9[8.78]	258.8[10.19]
MYZ4C**550**	76,0 [2.99]	229.5[9.04]	265.4[10.45]

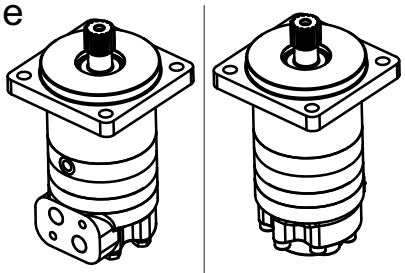
Flange type 4C

Motor overall dimension and ports

Port version M, port size 6,7,8

view without flange



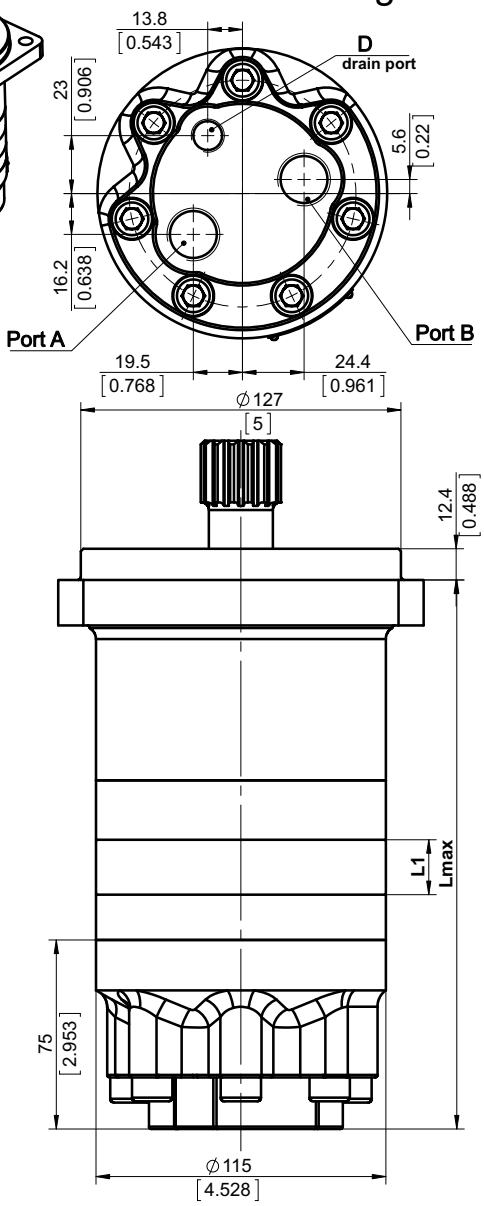


Standard Rotation
Viewed from Shaft End
Port **A** Pressurized - **CW**
Port **B** Pressurized - **CCW**

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

Port version E, port size 6,7,8

view without flange



Flange Dim. See Page 4,5

mm [in]

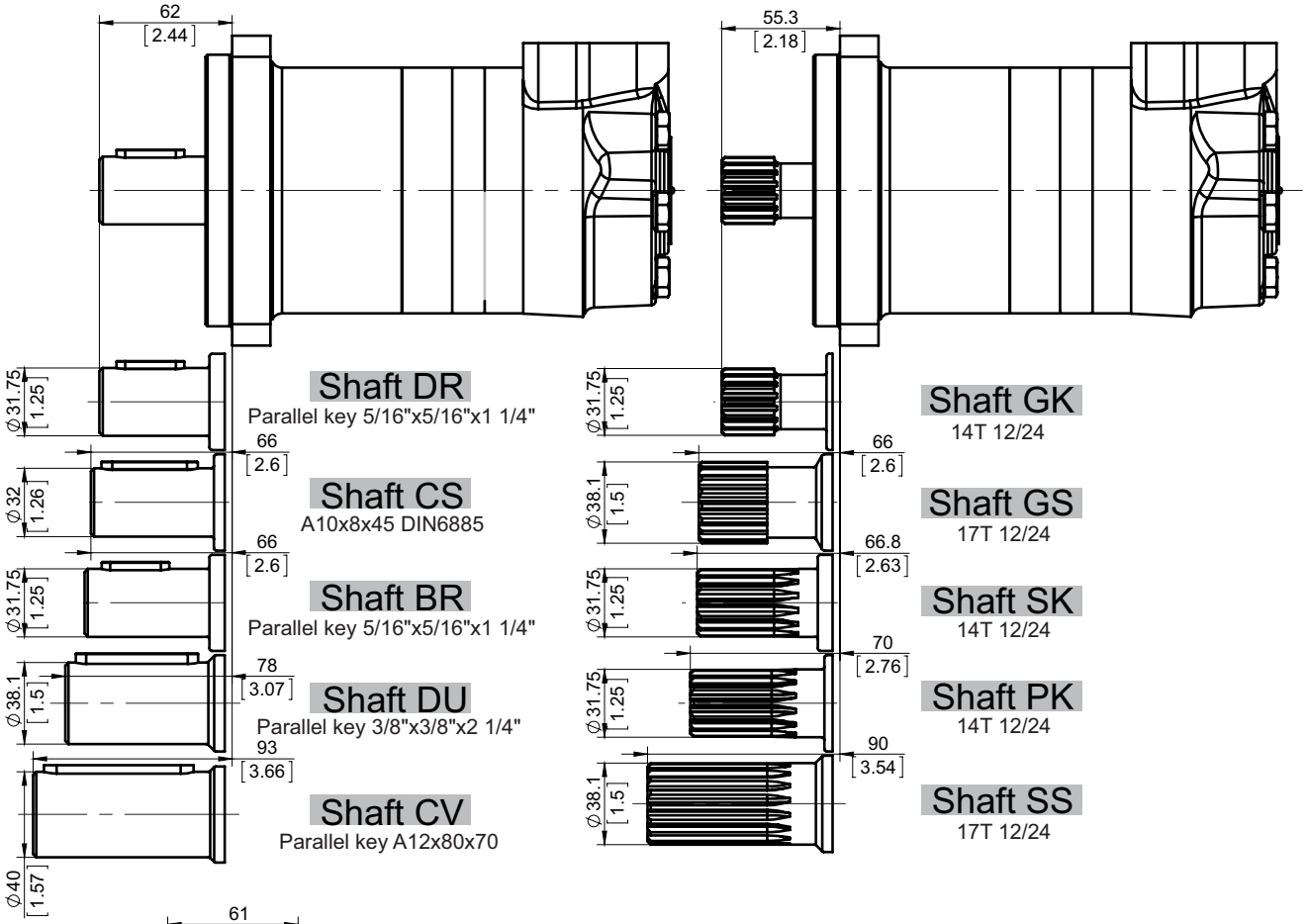
	Port Size		
	6	7	8
$P_{(A,B)}$	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF

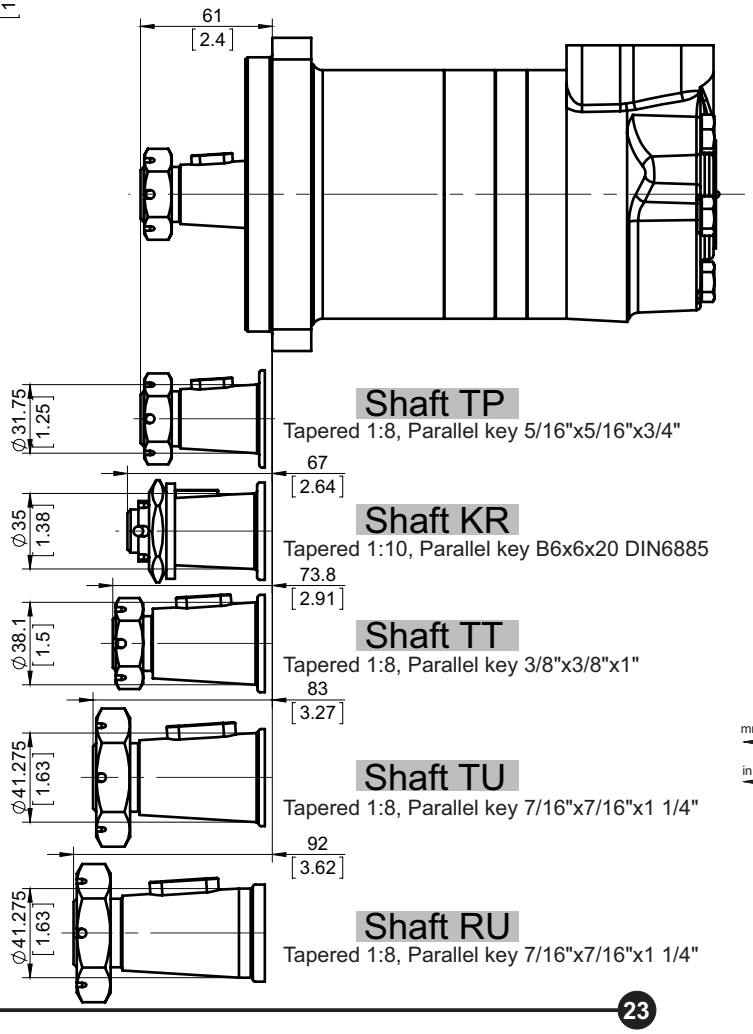
Type	L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZ**M**4C**160**	21,8 [.86]	161.3[6.35]	205[8.07]
MYZ**M**4C**200**	27,8 [1.09]	167.3[6.59]	211[8.31]
MYZ**M**4C**250**	34,8 [1.37]	174.3[6.86]	218[8.58]
MYZ**M**4C**315**	43,5 [1.71]	183[7.20]	226.7[8.93]
MYZ**M**4C**400**	54,8 [2.16]	194.3[7.65]	238[9.37]
MYZ**M**4C**470**	65,0 [2.56]	204.5[8.05]	248.2[9.77]
MYZ**M**4C**500**	69,4 [2.73]	208.9[8.22]	252.6[9.94]
MYZ**M**4C**550**	76,0 [2.99]	215.5[8.48]	259.2[10.20]

	Port Size		
	6	7	8
$P_{(A,B)}$	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF

Type	L_1, mm [in]	L_{max}, mm [in]
MYZ**E**4C**160**	21,8 [.86]	217.8[8.57]
MYZ**E**4C**200**	27,8 [1.09]	223.8[8.81]
MYZ**E**4C**250**	34,8 [1.37]	230.8[9.09]
MYZ**E**4C**315**	43,5 [1.71]	239.5[9.43]
MYZ**E**4C**400**	54,8 [2.16]	250.8[9.87]
MYZ**E**4C**470**	65,0 [2.56]	261[10.28]
MYZ**E**4C**500**	69,4 [2.73]	265.4[10.45]
MYZ**E**4C**550**	76,0 [2.99]	272[10.71]

Flange type 4C
Shaft distance

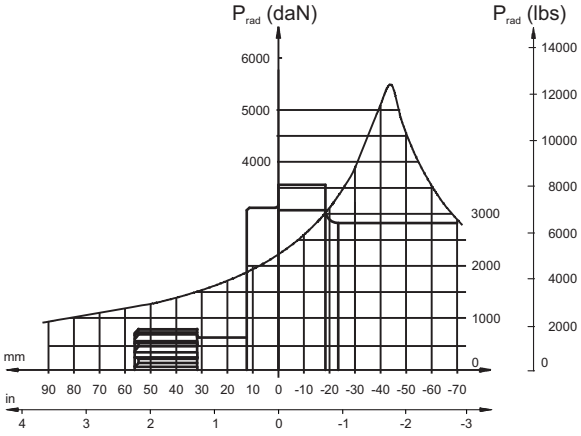




Shaft Dim.
See Page 6,7,8

PERMISSIBLE SHAFT LOADS

The curves apply to a B10 bearing life (ISO281) of 2000 hours at 100 RPM.



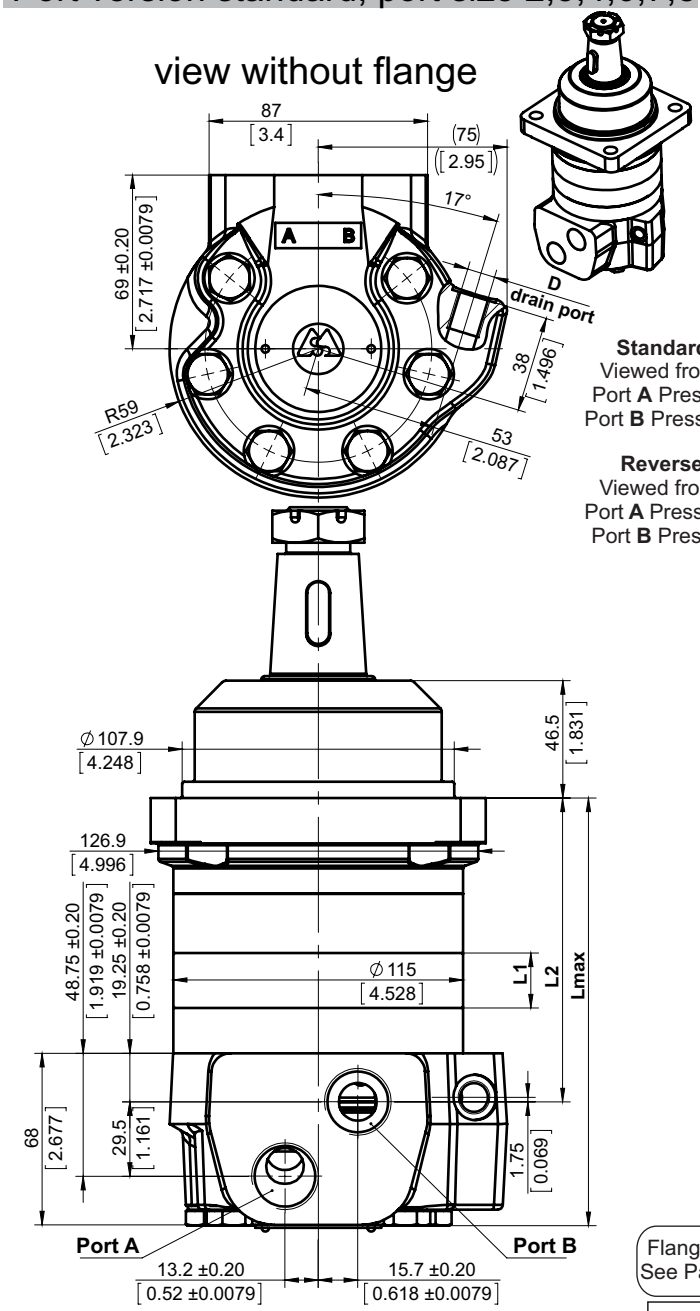
The permissible radial load on the shaft is shown for an axial load of 0 N as function of the distance from the mounting flange to the point of load application
For permissible axial load please ask

mm [in]

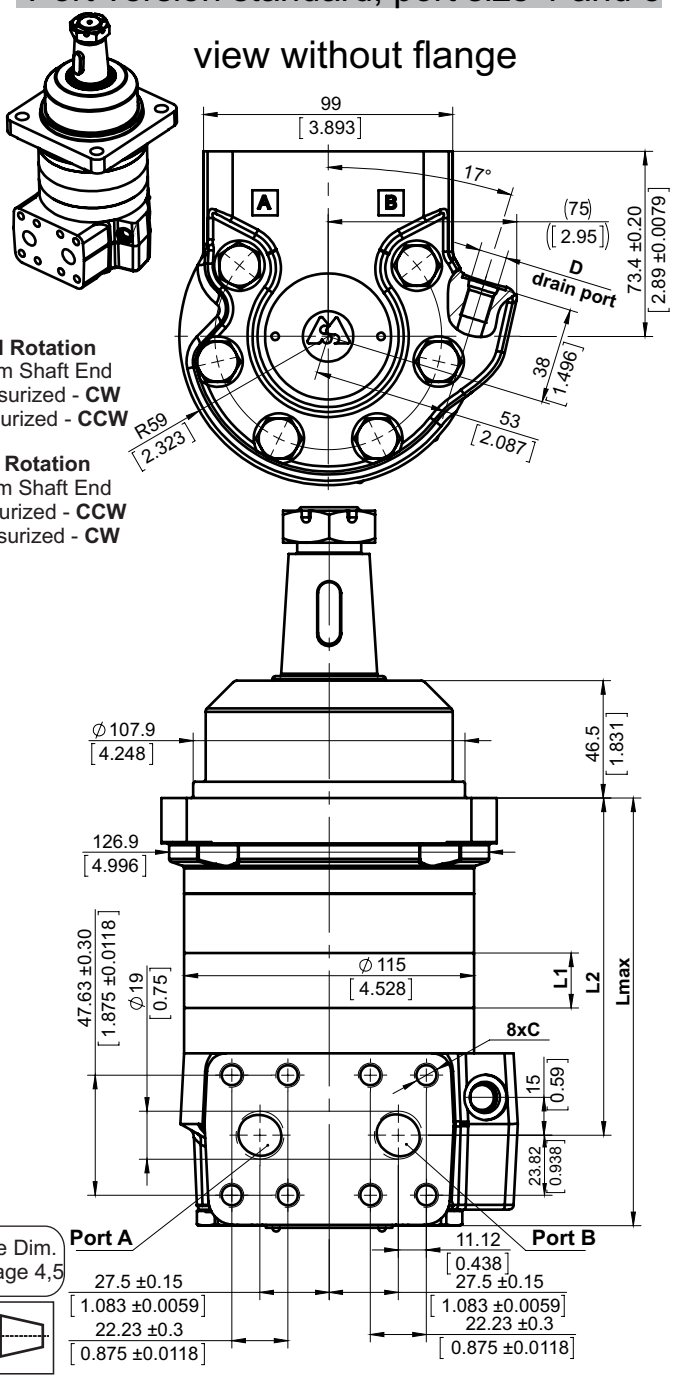
Flange type WJ

Motor overall dimension and ports

Port version standard, port size 2,3,4,6,7,8



Port version standard, port size 1 and 5



Flange Dim.
See Page 4,5

mm [in]

	Port Size					
	2	3	4	6	7	8
$P_{(A,B)}$	2xG 3/4	2xM27x2	2x1 1/16-12UN	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF	G 1/4	M14x1,5	7/16-20UNF

	Port Size	
	1	5
$P_{(A,B)}$	2xSAE J518 3/4 PSI3000	2xSAE J518 3/4 PSI3000
D	G 1/4	7/16-20 UNF
C	M8-6H	3/8-16 UNC-2B

Type	L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZWJ**160**	21,8 [.86]	120.6[4.75]	169.7[6.68]
MYZWJ**200**	27,8 [1.09]	126.6[4.98]	175.7[6.92]
MYZWJ**250**	34,8 [1.37]	133.6[5.26]	182.7[7.19]
MYZWJ**315**	43,5 [1.71]	142.3[5.60]	191.4[7.54]
MYZWJ**400**	54,8 [2.16]	153.6[6.05]	202.7[7.98]
MYZWJ**470**	65,0 [2.56]	163.8[6.45]	212.9[8.38]
MYZWJ**500**	69,4 [2.73]	168.2[6.62]	217.3[8.56]
MYZWJ**550**	76,0 [2.99]	174.8[6.88]	223.9[8.81]

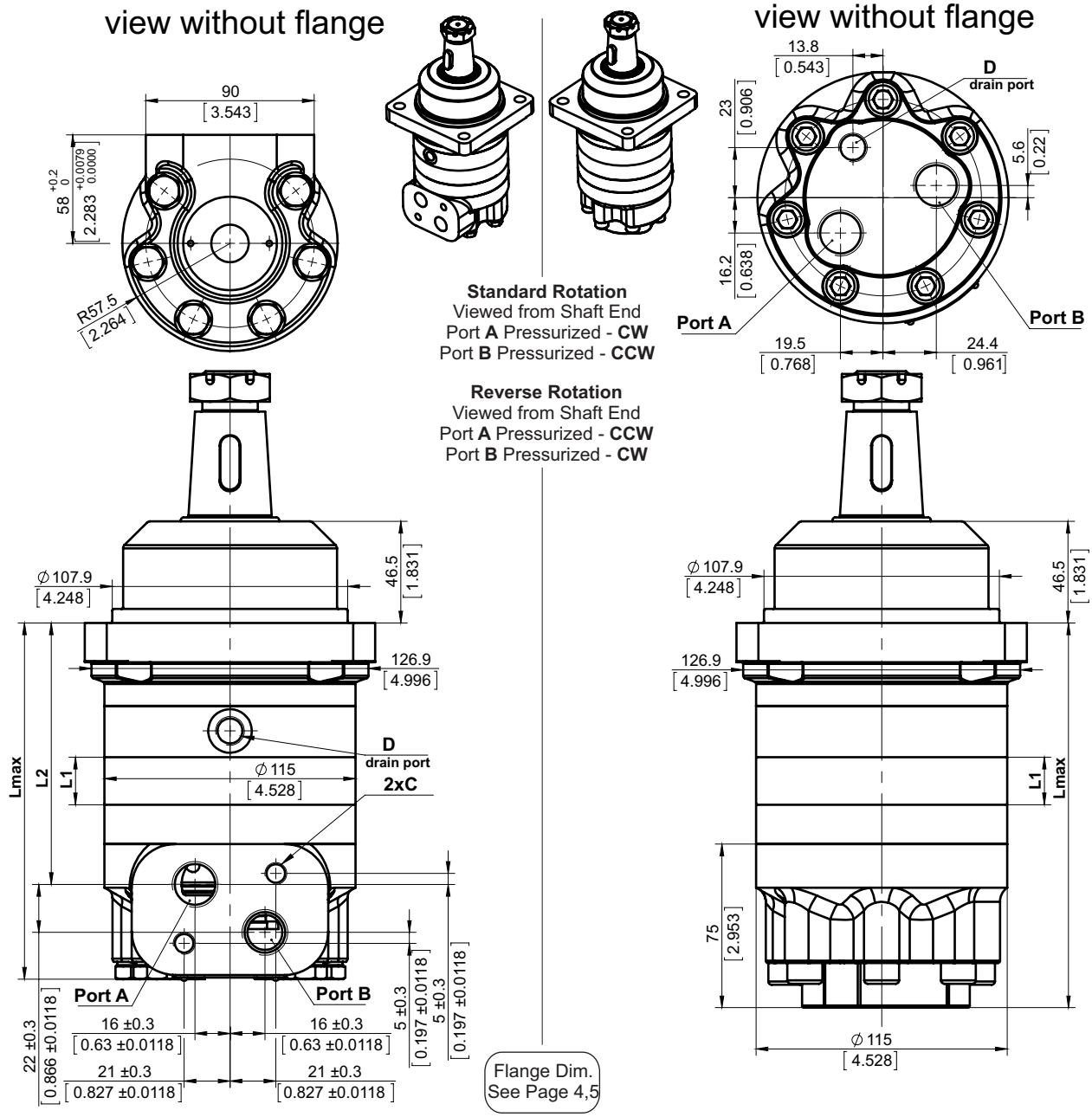
Type	L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZWJ**160**	21,8 [.86]	133.8[5.27]	169.7[6.68]
MYZWJ**200**	27,8 [1.09]	139.8[5.50]	175.7[6.92]
MYZWJ**250**	34,8 [1.37]	146.8[5.78]	182.7[7.19]
MYZWJ**315**	43,5 [1.71]	155.5[6.12]	191.4[7.54]
MYZWJ**400**	54,8 [2.16]	166.8[6.57]	202.7[7.98]
MYZWJ**470**	65,0 [2.56]	177[6.97]	212.9[8.38]
MYZWJ**500**	69,4 [2.73]	181.4[7.14]	217.3[8.56]
MYZWJ**550**	76,0 [2.99]	188[7.40]	223.9[8.81]

Flange type WJ

Motor overall dimension and ports

Port version M, port size 6,7,8

view without flange



Port version E, port size 6,7,8

view without flange

Flange Dim.
See Page 4,5

mm [in]

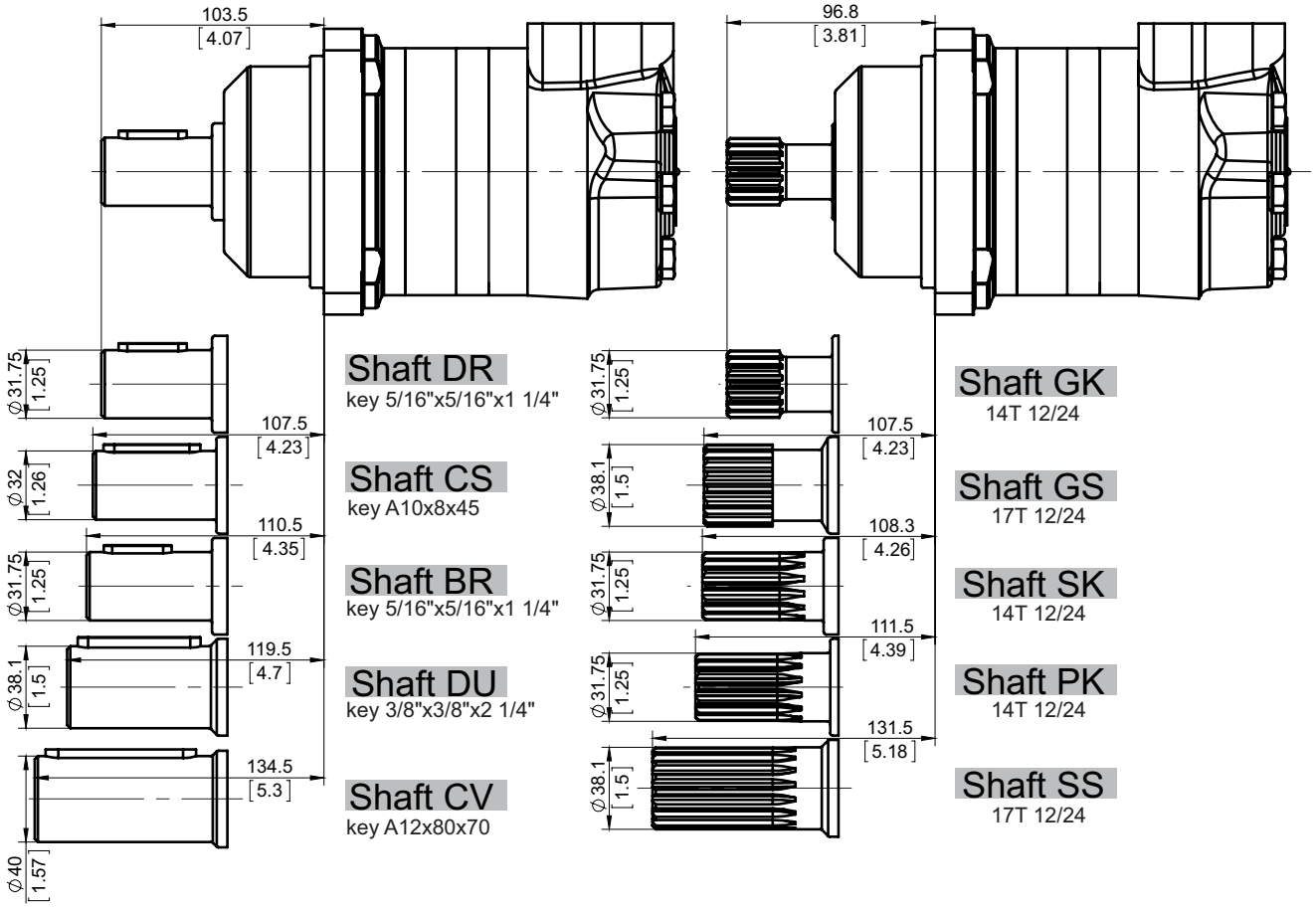
	Port Size		
	6	7	8
$P_{(A,B)}$	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF

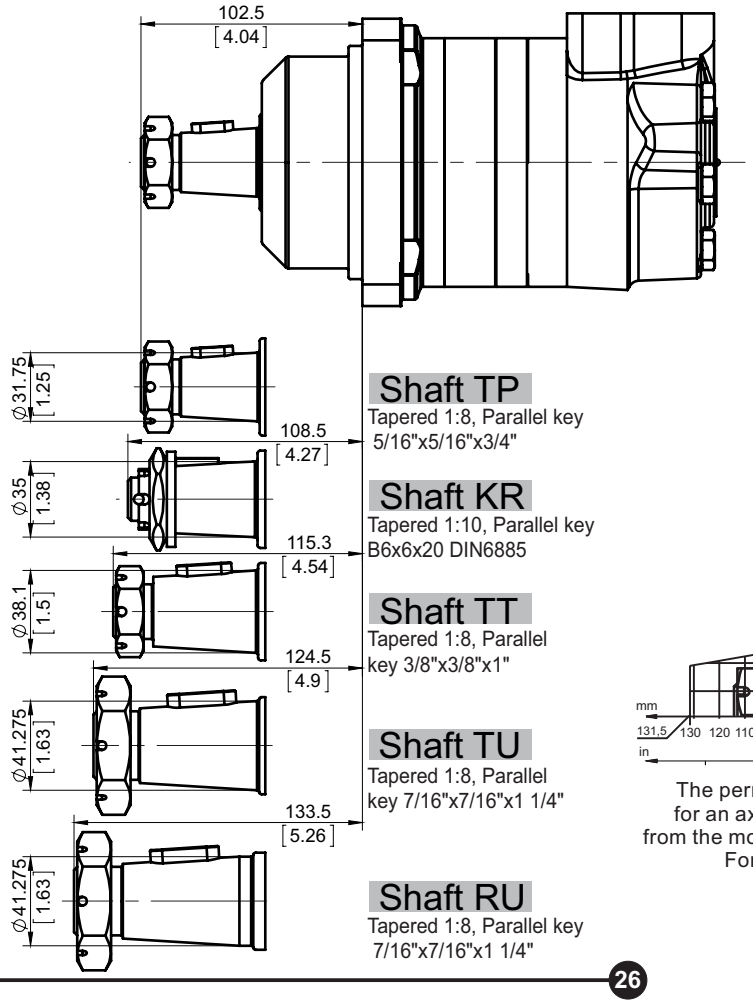
Type	L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZ**M**WJ**160**	21,8 [.86]	119.8[4.72]	163.2[6.43]
MYZ**M**WJ**200**	27,8 [1.09]	125.8[4.95]	169.2[6.66]
MYZ**M**WJ**250**	34,8 [1.37]	132.8[5.23]	176.2[6.94]
MYZ**M**WJ**315**	43,5 [1.71]	141.5[5.57]	184.9[7.28]
MYZ**M**WJ**400**	54,8 [2.16]	152.8[6.02]	196.2[7.72]
MYZ**M**WJ**470**	65,0 [2.56]	163[6.42]	206.4[8.13]
MYZ**M**WJ**500**	69,4 [2.73]	167.4[6.59]	210.8[8.30]
MYZ**M**WJ**550**	76,0 [2.99]	174[6.85]	217.4[8.56]

	Port Size		
	6	7	8
$P_{(A,B)}$	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF

Type	L_1, mm [in]	L_{max}, mm [in]
MYZ**E**WJ**160**	21,8 [.86]	176.3[6.94]
MYZ**E**WJ**200**	27,8 [1.09]	182.3[7.18]
MYZ**E**WJ**250**	34,8 [1.37]	189.3[7.45]
MYZ**E**WJ**315**	43,5 [1.71]	198[7.80]
MYZ**E**WJ**400**	54,8 [2.16]	209.3[8.24]
MYZ**E**WJ**470**	65,0 [2.56]	219.5[8.64]
MYZ**E**WJ**500**	69,4 [2.73]	223.9[8.81]
MYZ**E**WJ**550**	76,0 [2.99]	230.5[9.07]

Flange type WJ
Shaft distance

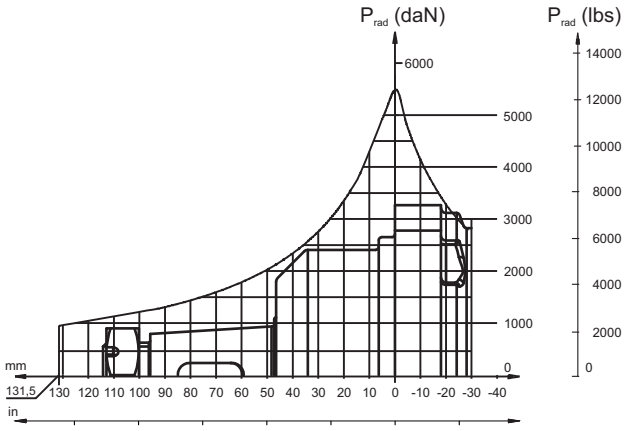




Shaft Dim.
See Page 6,7,8

PERMISSIBLE SHAFT LOADS

The curves apply to a B10 bearing life (ISO281) of 2000 hours at 100 RPM.



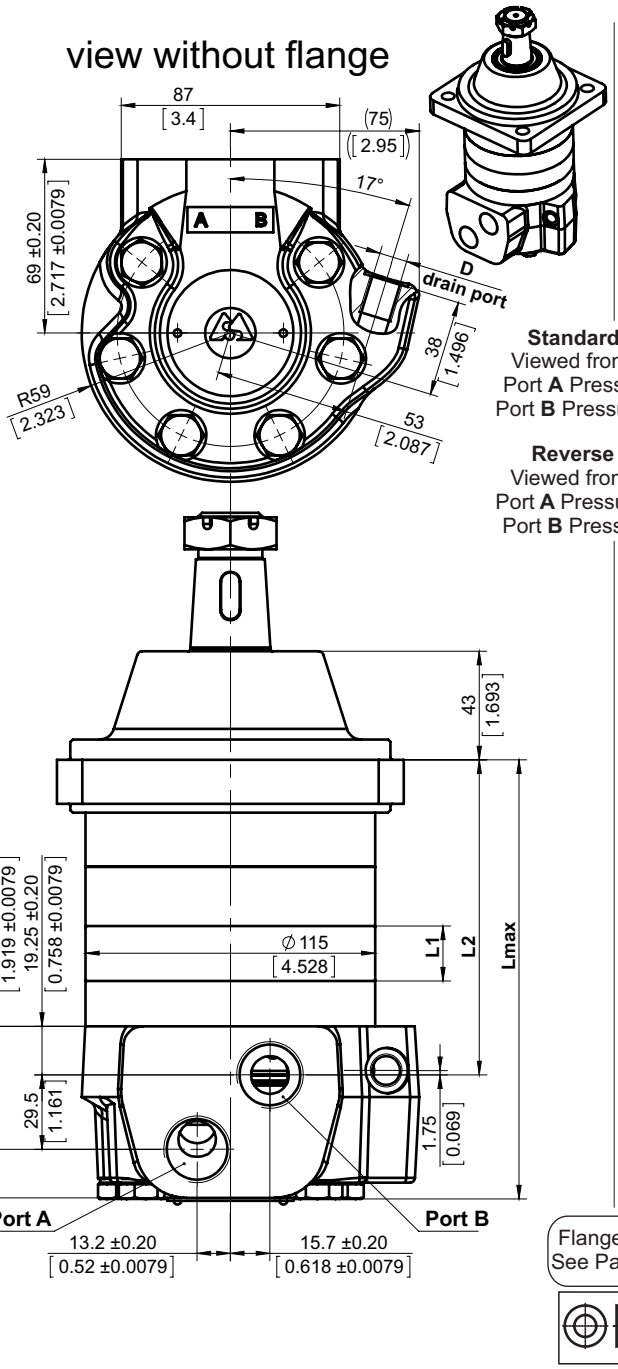
The permissible radial load on the shaft is shown for an axial load of 0 N as function of the distance from the mounting flange to the point of load application
For permissible axial load please ask

mm [in]

Flanges type WL, WM and WN

Motor overall dimension and ports

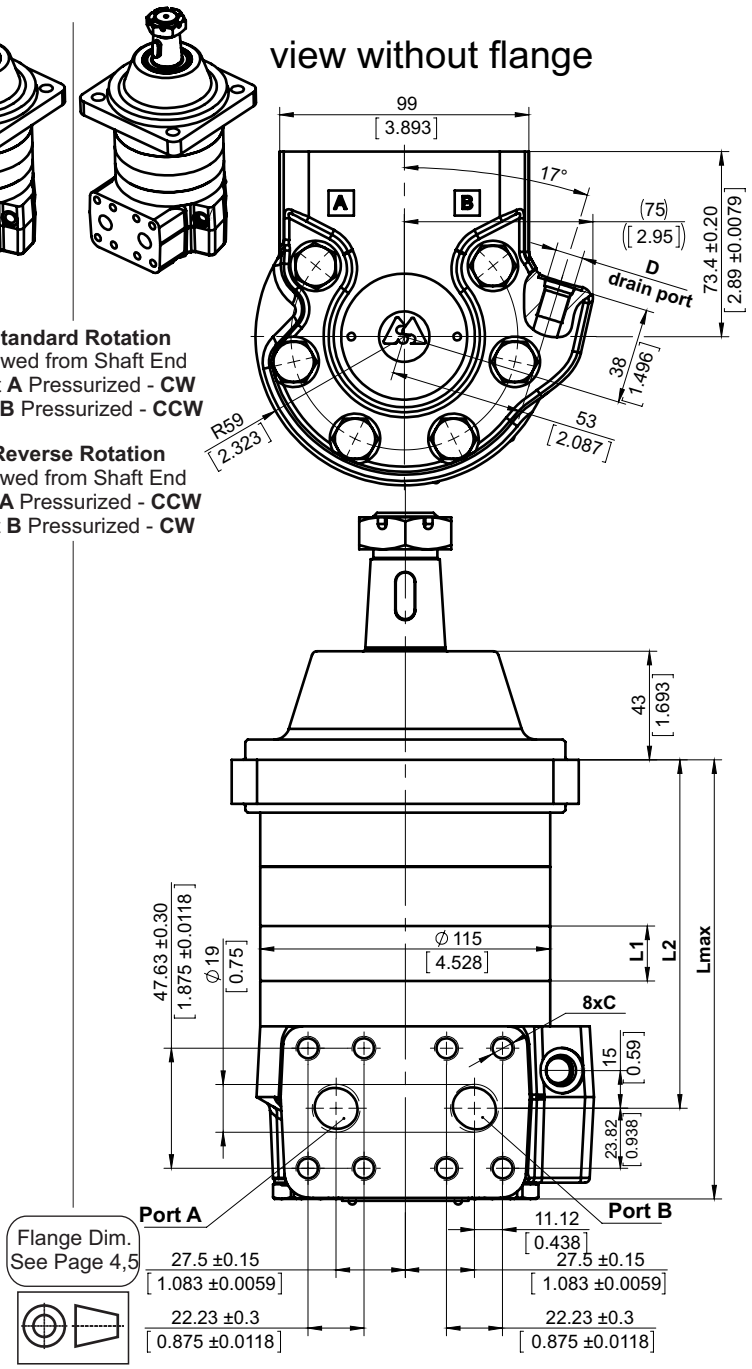
Port version standard, port size 2,3,4,6,7,8



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

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

Port version standard, port size 1 and 5



Flange Dim.
See Page 4,5

mm [in]

	Port Size					
	2	3	4	6	7	8
$P_{(A,B)}$	2xG 3/4	2xM27x2	2x1 1/16-12UN	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF	G 1/4	M14x1,5	7/16-20UNF

	Port Size	
	1	5
$P_{(A,B)}$	2xSAE J518 3/4 PSI3000	2xSAE J518 3/4 PSI3000
D	G 1/4	7/16-20 UNF
C	M8-6H	3/8-16 UNC-2B

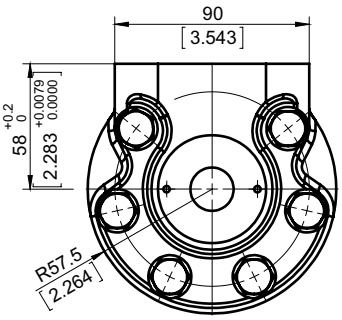
Type			L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZWL**160**	MYZWM**160**	MYZWN**160**	21,8 [.86]	125.1[4.93]	174.2[6.86]
MYZWL**200**	MYZWM**200**	MYZWN**200**	27,8 [1.09]	131.1[5.16]	180.2[7.09]
MYZWL**250**	MYZWM**250**	MYZWN**250**	34,8 [1.37]	138.1[5.44]	187.2[7.37]
MYZWL**315**	MYZWM**315**	MYZWN**315**	43,5 [1.71]	146.8[5.78]	195.9[7.71]
MYZWL**400**	MYZWM**400**	MYZWN**400**	54,8 [2.16]	158.1[6.22]	207.2[8.16]
MYZWL**470**	MYZWM**470**	MYZWN**470**	65,0 [2.56]	168.3[6.63]	217.4[8.56]
MYZWL**500**	MYZWM**500**	MYZWN**500**	69,4 [2.73]	172.7[6.80]	221.8[8.73]
MYZWL**550**	MYZWM**550**	MYZWN**550**	76,0 [2.99]	179.3[7.06]	228.4[8.99]

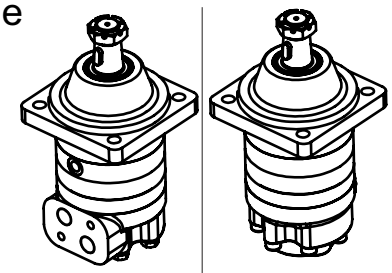
Type			L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZWL**160**	MYZWM**160**	MYZWN**160**	21,8 [.86]	138.3[5.44]	174.2[6.86]
MYZWL**200**	MYZWM**200**	MYZWN**200**	27,8 [1.09]	144.3[5.68]	180.2[7.09]
MYZWL**250**	MYZWM**250**	MYZWN**250**	34,8 [1.37]	151.3[5.96]	187.2[7.37]
MYZWL**315**	MYZWM**315**	MYZWN**315**	43,5 [1.71]	160[6.30]	195.9[7.71]
MYZWL**400**	MYZWM**400**	MYZWN**400**	54,8 [2.16]	171.3[6.74]	207.2[8.16]
MYZWL**470**	MYZWM**470**	MYZWN**470**	65,0 [2.56]	181.5[7.15]	217.4[8.56]
MYZWL**500**	MYZWM**500**	MYZWN**500**	69,4 [2.73]	185.9[7.32]	221.8[8.73]
MYZWL**550**	MYZWM**550**	MYZWN**550**	76,0 [2.99]	192.5[7.58]	228.4[8.99]

Flanges type WL, WM and WN

Motor overall dimension and ports

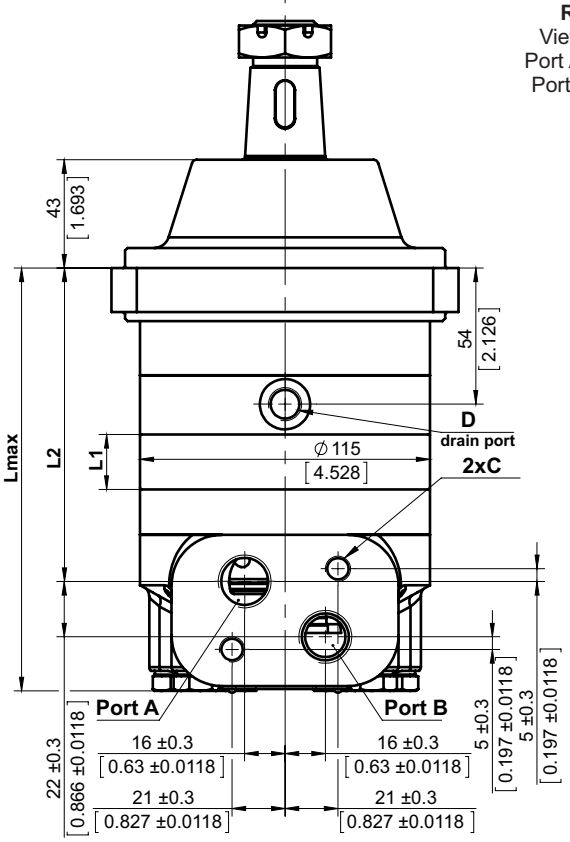
Port version M, port size 6,7,8
view without flange



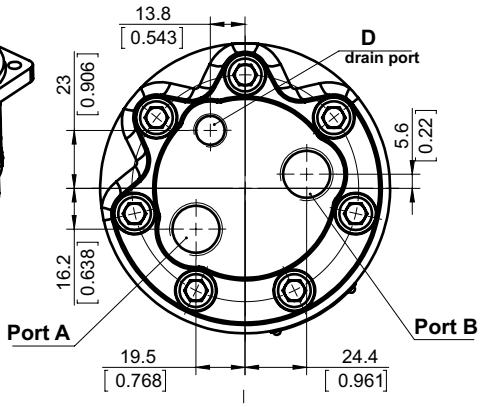


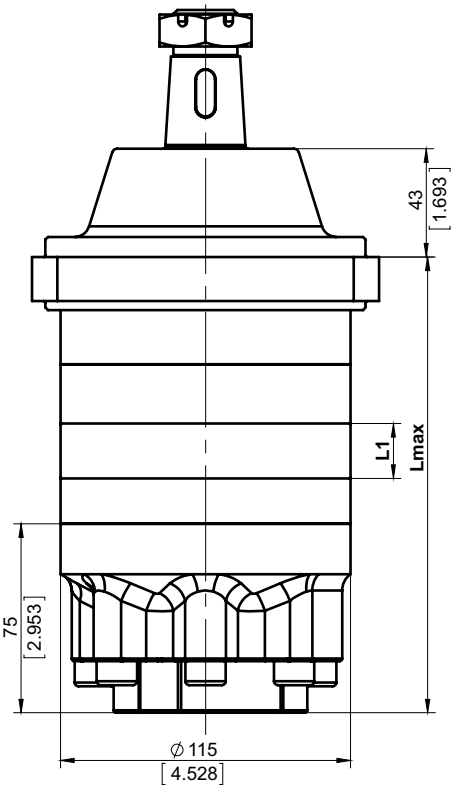
Standard Rotation
Viewed from Shaft End
Port **A** Pressurized - **CW**
Port **B** Pressurized - **CCW**

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

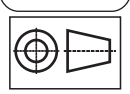


Port version E, port size 6,7,8
view without flange





Flange Dim.
See Page 4,5



mm [in]

	Port Size		
	6	7	8
$P_{(A,B)}$	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF

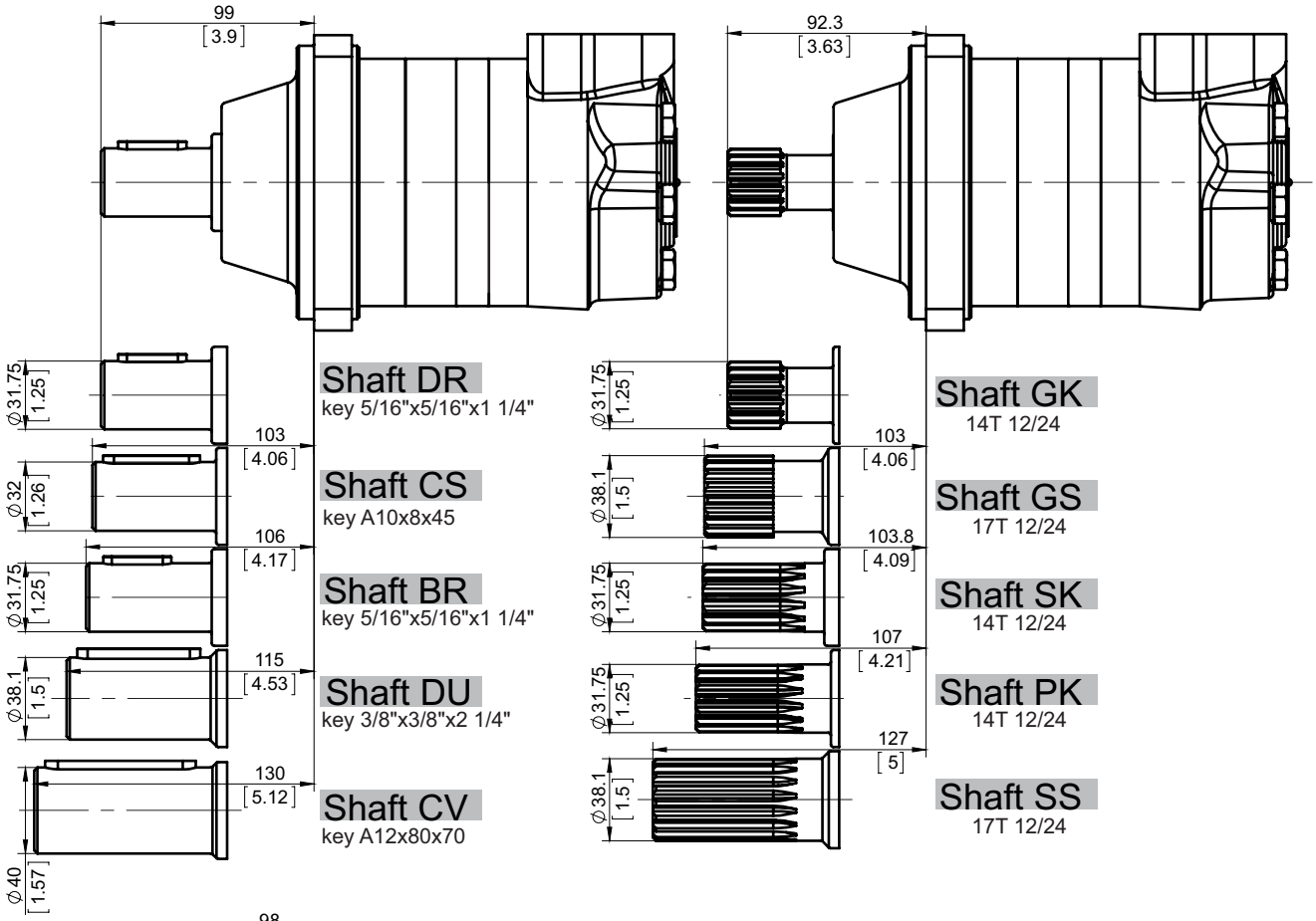
Type			L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZ**M**WL**160**	MYZ**M**WM**160**	MYZ**M**WN**160**	21,8 [.86]	124.3[4.89]	167.7[6.60]
MYZ**M**WL**200**	MYZ**M**WM**200**	MYZ**M**WN**200**	27,8 [1.09]	130.3[5.13]	173.7[6.84]
MYZ**M**WL**250**	MYZ**M**WM**250**	MYZ**M**WN**250**	34,8 [1.37]	137.3[5.41]	180.7[7.11]
MYZ**M**WL**315**	MYZ**M**WM**315**	MYZ**M**WN**315**	43,5 [1.71]	146[5.75]	189.4[7.46]
MYZ**M**WL**400**	MYZ**M**WM**400**	MYZ**M**WN**400**	54,8 [2.16]	157.3[6.19]	200.7[7.90]
MYZ**M**WL**470**	MYZ**M**WM**470**	MYZ**M**WN**470**	65,0 [2.56]	167.5[6.59]	210.9[8.30]
MYZ**M**WL**500**	MYZ**M**WM**500**	MYZ**M**WN**500**	69,4 [2.73]	171.9[6.77]	215.3[8.48]
MYZ**M**WL**550**	MYZ**M**WM**550**	MYZ**M**WN**550**	76,0 [2.99]	178.5[7.03]	221.9[8.74]

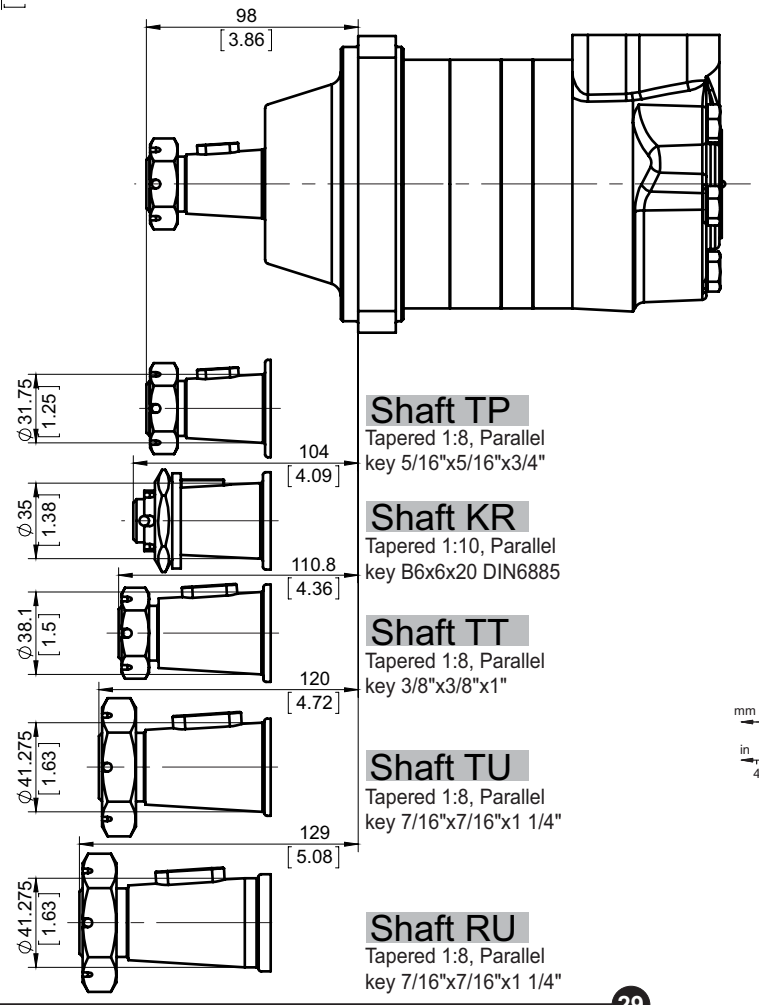
	Port Size		
	6	7	8
$P_{(A,B)}$	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF

Type			L_1, mm [in]	L_{max}, mm [in]
MYZ**E**WL**160**	MYZ**E**WM**160**	MYZ**E**WN**160**	21,8 [.86]	180.8[7.12]
MYZ**E**WL**200**	MYZ**E**WM**200**	MYZ**E**WN**200**	27,8 [1.09]	186.8[7.35]
MYZ**E**WL**250**	MYZ**E**WM**250**	MYZ**E**WN**250**	34,8 [1.37]	193.8[7.63]
MYZ**E**WL**315**	MYZ**E**WM**315**	MYZ**E**WN**315**	43,5 [1.71]	202.5[7.97]
MYZ**E**WL**400**	MYZ**E**WM**400**	MYZ**E**WN**400**	54,8 [2.16]	213.8[8.42]
MYZ**E**WL**470**	MYZ**E**WM**470**	MYZ**E**WN**470**	65,0 [2.56]	224[8.82]
MYZ**E**WL**500**	MYZ**E**WM**500**	MYZ**E**WN**500**	69,4 [2.73]	228.4[8.99]
MYZ**E**WL**550**	MYZ**E**WM**550**	MYZ**E**WN**550**	76,0 [2.99]	235[9.25]

Flanges type WL, WM and WN

Shaft distance

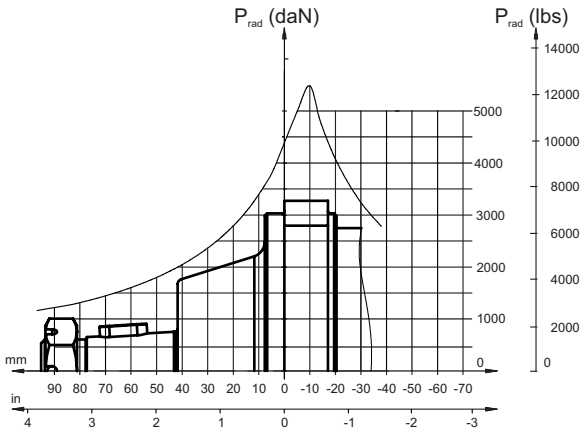




Shaft Dim.
See Page 6,7,8

PERMISSIBLE SHAFT LOADS

The curves apply to a B10 bearing life (ISO281) of 2000 hours at 100 RPM.



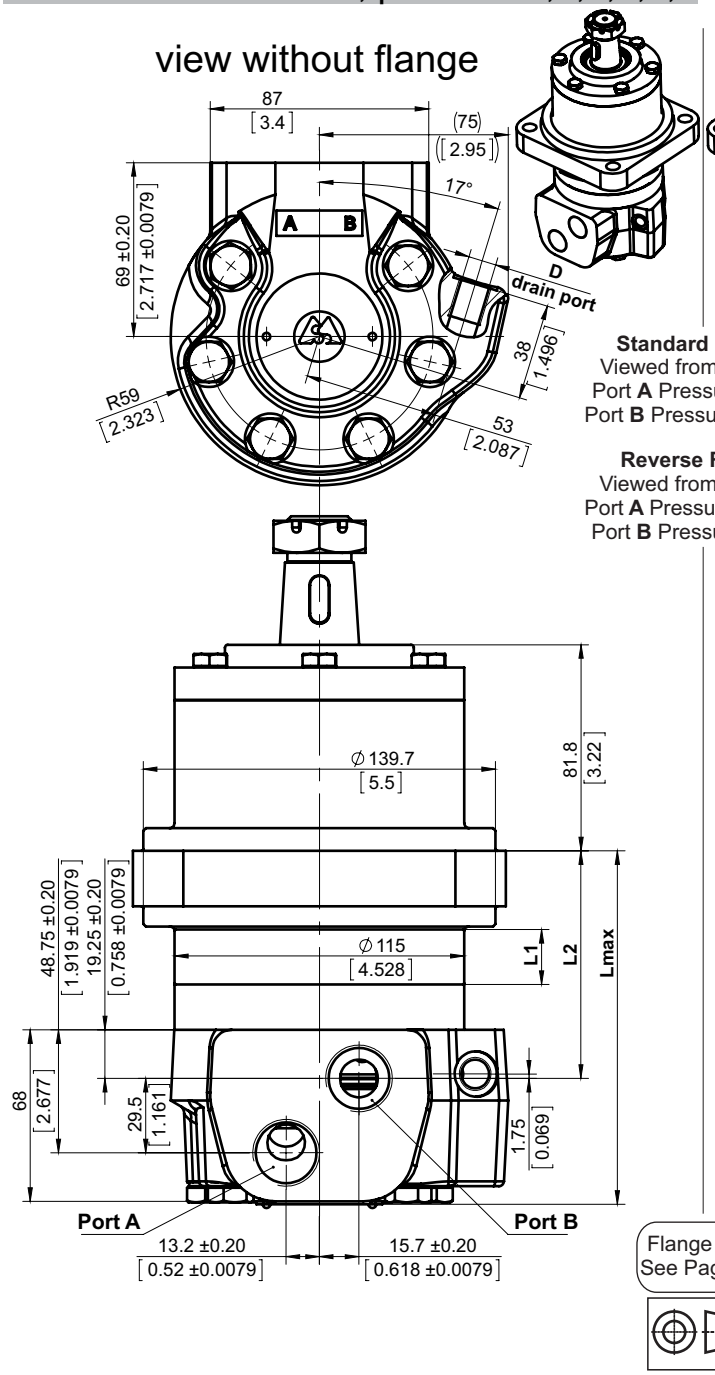
The permissible radial load on the shaft is shown for an axial load of 0 N as function of the distance from the mounting flange to the point of load application
For permissible axial load please ask

mm [in]

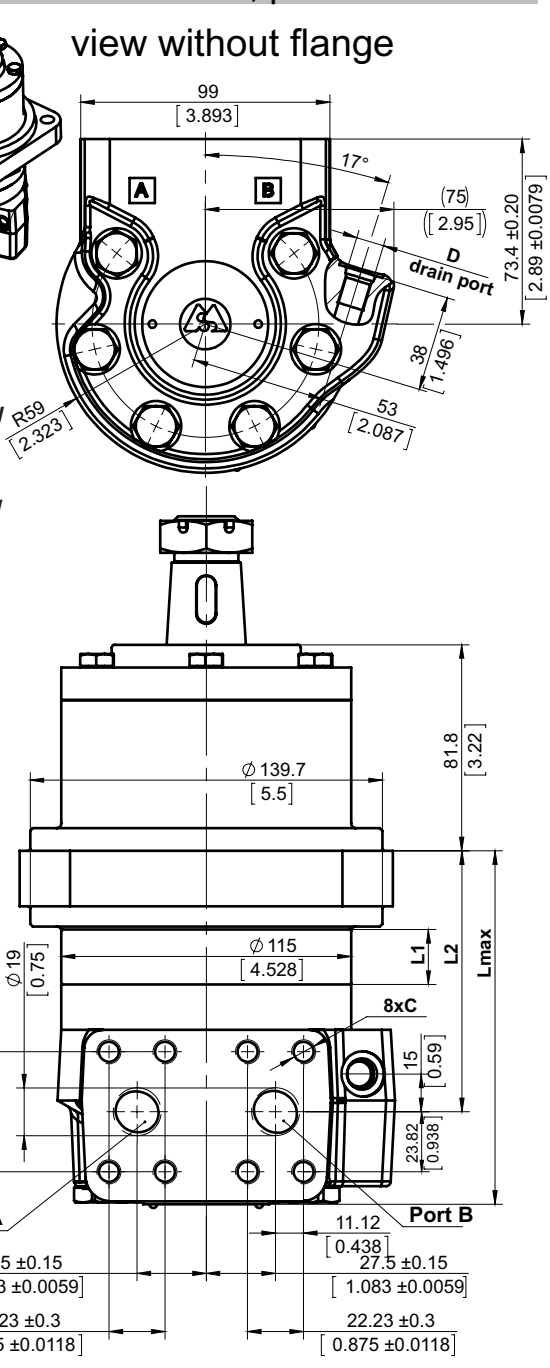
Flanges type WP and WQ

Motor overall dimension and ports

Port version standard, port size 2,3,4,6,7,8



Port version standard, port size 1 and 5



Flange Dim.
See Page 4,5

mm [in]

	Port Size					
	2	3	4	6	7	8
$P_{(A,B)}$	2xG 3/4	2xM27x2	2x1 1/16-12UN	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF	G 1/4	M14x1,5	7/16-20UNF

	Port Size	
	1	5
$P_{(A,B)}$	2xSAE J518 3/4 PSI3000	2xSAE J518 3/4 PSI3000
D	G 1/4	7/16-20 UNF
C	M8-6H	3/8-16 UNC-2B

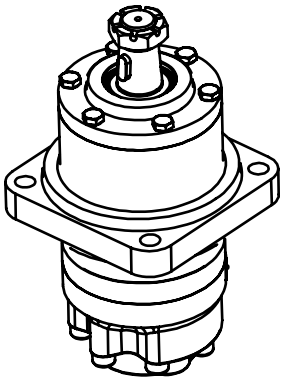
Type		L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZWP**160**	MYZWQ**160**	21,8 [.86]	90.3[3.56]	139.4[5.49]
MYZWP**200**	MYZWQ**200**	27,8 [1.09]	96.3[3.79]	145.4[5.72]
MYZWP**250**	MYZWQ**250**	34,8 [1.37]	103.3[4.07]	152.4[6.00]
MYZWP**315**	MYZWQ**315**	43,5 [1.71]	112.0[4.41]	161.1[6.34]
MYZWP**400**	MYZWQ**400**	54,8 [2.16]	123.3[4.85]	172.4[6.79]
MYZWP**470**	MYZWQ**470**	65,0 [2.56]	133.5[5.26]	182.6[7.19]
MYZWP**500**	MYZWQ**500**	69,4 [2.73]	137.9[5.43]	187[7.36]
MYZWP**550**	MYZWQ**550**	76,0 [2.99]	144.5[5.69]	193.6[7.62]

Type		L_1, mm [in]	L_2, mm [in]	L_{max}, mm [in]
MYZWP**160**	MYZWQ**160**	21,8 [.86]	103.5[4.07]	139.4[5.49]
MYZWP**200**	MYZWQ**200**	27,8 [1.09]	109.5[4.31]	145.4[5.72]
MYZWP**250**	MYZWQ**250**	34,8 [1.37]	116.5[4.59]	152.4[6.00]
MYZWP**315**	MYZWQ**315**	43,5 [1.71]	125.2[4.93]	161.1[6.34]
MYZWP**400**	MYZWQ**400**	54,8 [2.16]	136.5[5.37]	172.4[6.79]
MYZWP**470**	MYZWQ**470**	65,0 [2.56]	146.7[5.78]	182.6[7.19]
MYZWP**500**	MYZWQ**500**	69,4 [2.73]	151.1[5.95]	187[7.36]
MYZWP**550**	MYZWQ**550**	76,0 [2.99]	157.7[6.21]	193.6[7.62]

Flanges type WP and WQ

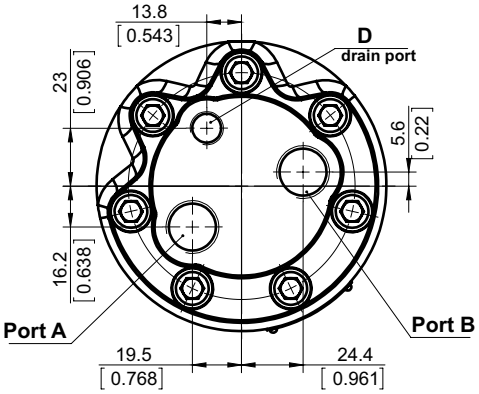
Motor overall dimension and ports

Port version E, port size 6,7,8



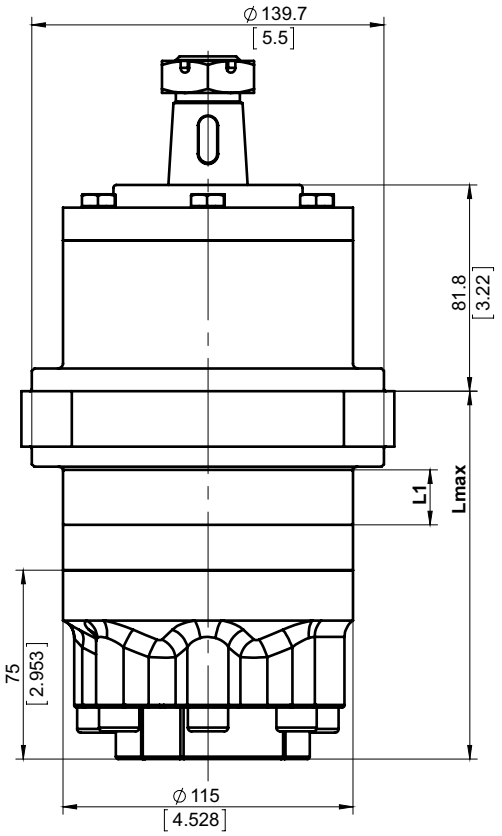
Flange Dim.
See Page 4,5

view without flange



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

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



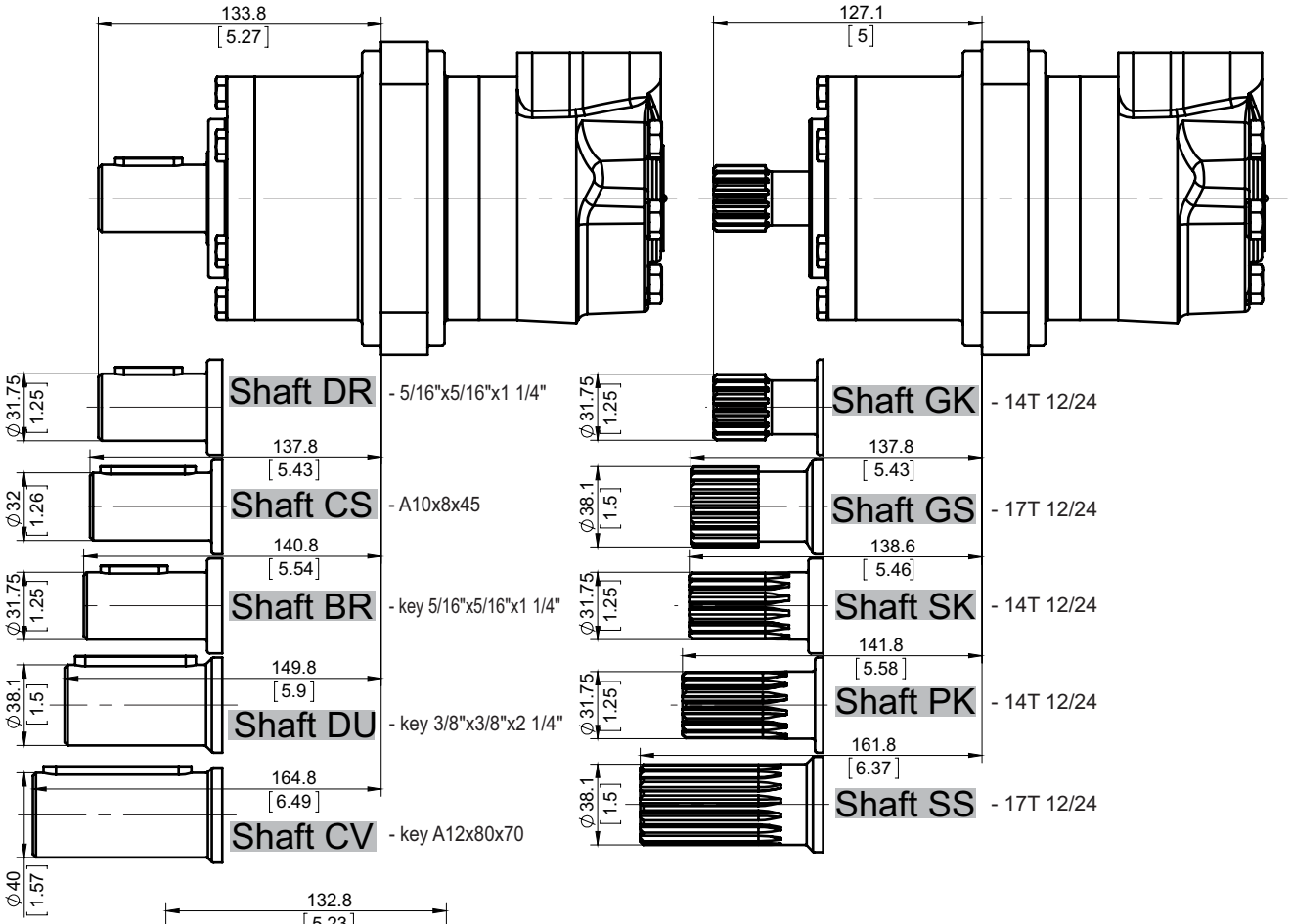
	Port Size		
	6	7	8
$P_{(A,B)}$	2xG 1/2	2xM22x1,5	2x 7/8-14UNF
D	G 1/4	M14x1,5	7/16-20UNF

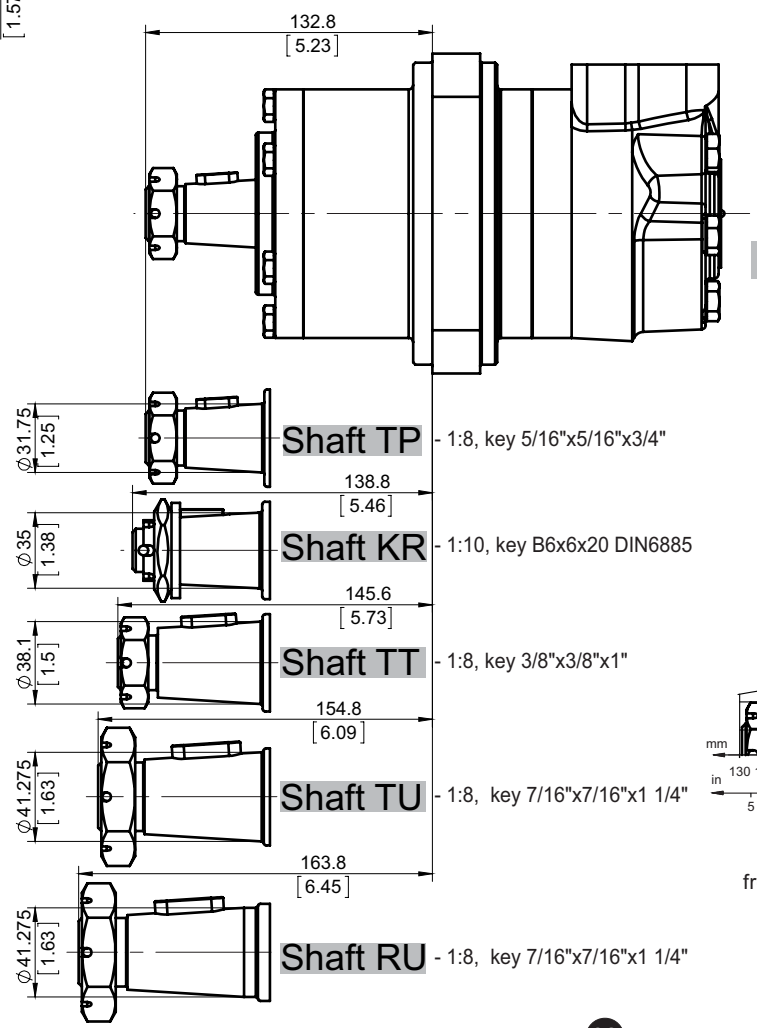
Type		L_1, mm [in]	L_{max}, mm [in]
MYZEWP**160**	MYZEWQ**160**	21,8 [.86]	146[5.75]
MYZEWP**200**	MYZEWQ**200**	27,8 [1.09]	152[5.98]
MYZEWP**250**	MYZEWQ**250**	34,8 [1.37]	159[6.26]
MYZEWP**315**	MYZEWQ**315**	43,5 [1.71]	167.7[6.60]
MYZEWP**400**	MYZEWQ**400**	54,8 [2.16]	179[7.05]
MYZEWP**470**	MYZEWQ**470**	65,0 [2.56]	189.2[7.45]
MYZEWP**500**	MYZEWQ**500**	69,4 [2.73]	193.6[7.62]
MYZEWP**550**	MYZEWQ**550**	76,0 [2.99]	200.2[7.88]

mm [in]

Flanges type WP and WQ

Shaft distance

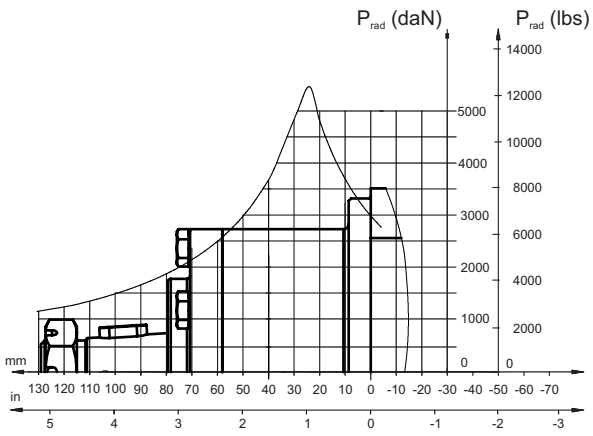




Shaft Dim.
See Page 6,7,8

PERMISSIBLE SHAFT LOADS

The curves apply to a B10 bearing life (ISO281) of 2000 hours at 100 RPM.



The permissible radial load on the shaft is shown for an axial load of 0 N as function of the distance from the mounting flange to the point of load application
For permissible axial load please ask

mm [in]

ORDER CODE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
M Y Z															

Pos.1 - Port version

omit - MYZ standard version

M - M version, Side ports, similar to MS(MLHS)

N* - N version, Side ports, compact version

E - E version, Rear ports

M version is in use for external valves KPBS, KPDS, etc.

Pos.2 - Mounting Flange

A - 2-Bolt flange, SAE A, spigot dia. 82,5[3.25“], BC 106,35 [4.19“], Bolt Dia. 13.5 [0.53“]

4A - 4-Bolt flange, SAE A, spigot dia. 82,5[3.25“], BC 106,35 [4.19“], Bolt Dia. 13.5 [0.53“]

F - 6-Bolt flange, similar to SAE A, Magneto, spigot dia. 82,5[3.25“],BC 106,35 [4.19“], Bolt Dia. 13.5 [0.53“]

B - 2-Bolt flange, SAE B, spigot dia. 101.6[4“], BC 146 [5.748“], Bolt Dia. 14.3 [0.563“]

4B - 4-Bolt flange, SAE B, spigot dia. 101.6[4“], BC 127 [5“], Bolt Dia. 15 [0.59“]

4L - 4-Bolt flange, ISO 3019-2, Spigot Dia. 125 [4,921“], BC 160 [6.3“], Bolt Dia. 14 [0.551“]

4C - 4-Bolt flange, SAE C, Spigot Dia. 127 [5“], BC 161.92 [6.375“], Bolt Dia. 14.3 [0.563“]

WJ - 4-Bolt flange, Wheel, Spigot Dia. 107.9 [2.25“], BC- 147,6 [5.81“], Bolt Dia. 13.6 [0.535“]

WL - 4-Bolt flange, Wheel, Spigot Dia. 125 [4.921“], BC- 160 [6.3“], Bolt Dia. 13.6 [0.531“]

WM - 4-Bolt flange, Wheel, Spigot Dia. 127 [5“], BC- 161.9 [6.374“], Bolt Dia. 14.3 [0.563“]

WN - 4-Bolt flange, Wheel, Spigot Dia. 127 [5“], BC- 153.9 [6.06“], Bolt Dia. 13.5 [0.532“]

WP - 4-Bolt flange, Wheel, Spigot Dia. 139.7 [5.5“], BC- 165 [6.06“], Bolt Dia. 13.5 [0.532“]

WQ - 4-Bolt flange, Wheel, Spigot Dia. 139.7 [5.5“], BC- 165 [6.06“], Bolt Dia. 14.3 [0.563“]

S* - Short version - under development.

Mounting Flange type WP and WQ are not available for:
- Side ports type M (pos.1 - M option)

Pos.3 - Displacement code

110* - under development

130* - under development

160 - 9.63 in^3/rev [157,9 cm^3/rev]

200 - 12.28 in^3/rev [201,3 cm^3/rev]

250 - 15.38 in^3/rev [252,2 cm^3/rev]

315 - 19.20 in^3/rev [314,9 cm^3/rev]

400 - 24.20 in^3/rev [396,8 cm^3/rev]

470 - 28.70 in^3/rev [470,5 cm^3/rev]

500 - 30.65 in^3/rev [502,4 cm^3/rev]

550 - 33.55 in^3/rev [550,0 cm^3/rev]

Pos.4 - Shaft Extensions**

omit - only for short version **S** (pos.2)

BR - ø31,75 [ø1.25“] straight, Parallel key 5/16"x5/16"x1 1/4", 3/8-16 UNC

DR - ø31,75 [ø1.25“] straight, Parallel key 5/16"x5/16"x1 1/4", 3/8-16 UNC

CS - ø32 [ø1.26“] straight, Parallel key A10x8x45 DIN6885, M8-6H

DU - ø38.1 [ø1.5“] straight, Parallel key 3/8"x3/8"x2 1/4" BS46, 3/8-16 UNC

CV - ø40 [ø1.575“] straight, Parallel key A12x80x70 DIN6885, M12-6H

WD* - ø22,225 [ø 7/8“] 13T Splined ANSI B92.1-1970, 16/32 DP, no thread

LD* - ø22,225 [ø 7/8“] 13T Splined ANSI B92.1-1970, 16/32 DP, 1/4-20 UNC

GD* - ø22,225 [ø 7/8“] 13T Splined ANSI B92.1-1970, 16/32 DP, 5/16-18 UNC

SK - ø31,75 [ø1.25“] 14T Splined ANSI B92.1-1970, 12/24 DP, M8-6H

GK - ø31,75 [ø1.25“] 14T Splined ANSI B92.1-1970, 12/24 DP, 3/8-16 UNC

PK - ø31,75 [ø1.25“] 14T Splined ANSI B92.1-1970, 12/24 DP, 3/8-16 UNC

SL* - ø34,85 [ø1.41“] p.t.o. DIN9611 Form1

GS - ø38,1 [ø1.5“] 17T Splined ANSI B92.1-1970, 12/24 DP, 3/8-16 UNC

SS - ø38,1 [ø1.5“] 17T Splined ANSI B92.1-1970, 12/24 DP, M12-6H

TP - ø31,75 [ø1.25“] Tapered 1:8, Parallel key 5/16"x5/16"x3/4", 1-20 UNEF

KR - ø35 [ø1.378“] Tapered 1:10, Parallel key B6x6x20 DIN6885, M20x1,5

TT - ø38,1 [ø1.5"] Tapered 1:8, Parallel key 3/8"x3/8"x1", 1-20 UNEF

RU - ø41,275 [ø1.625“] Tapered 1:8, Parallel key 7/16"x7/16"x1 1/4", 1 1/4-18 UNEF

TU - ø41,275 [ø1.625“] Tapered 1:8, Parallel key 7/16"x7/16"x1 1/4", 1 1/4-18 UNEF

KV* - ø45 [ø1.772“] Tapered 1:10, Parallel key B12x8x28 DIN6885, M30x2

TV* - ø45 [ø1.772“] Tapered 1:8, Parallel key 7/16"x7/16"x1 1/4", 1 1/4-18 UNEF

Pos.5 - Port Size

1 - ports, 2xSAE J518 3/4 in PSI3000, 7/16-20 UNF

2 - ports, 2xG 3/4, G1/4

3 - ports, 2xM27x2 - 6H, M14x1,5 - 6H

4 - ports, 2x1 1/16-12 UN, 7/16-20 UNF

5 - ports, 2xSAE J518 3/4 in PSI3000, metric, G1/4

6 - ports, 2xG 1/2, G1/4

7 - ports, 2xM22x1,5 - 6H, M14x1,5 - 6H

8 - ports, 2x7/8-14 UNF, 7/16-20 UNF

port sizes (pos.5) 1,2,3,4 and 5 are not available for:
- Rear ports (pos.1 - E option)
- MYZM version(pos.1 - M option)

ORDER CODE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
M Y Z															

Pos.6 - Integrated valves

omit - none, drain line should always be used
1 - with check valves
FL* - Flush Valve
PU* - Purge Valve

Pos.7 - Pressure setting of Integrated valves FL

omit - none
5 * - 5 bars, only for option FL Pos.6
15* - 15 bars, only for option FL Pos.6

Pos.8 - Flow setting of Integrated valves FL and PU

omit - none
L5* - 5 liter/min, only for option FL and PU Pos.6

Pos.9 - Shaft Seal Version

omit - Low pressure seal
U - High pressure seal

Pos.10 - Special Features measure speed

omit - none
T* - Tacho connection
RS* - Speed Sensor
R2S* - Speed Sensor Two directional

Notes:
M version (pos.1) is in use for external valves:
- KPBS
- KPDS, KPES, KPEAS, KPEABS
- KPWS

Port sizes (pos.5) 1,2,3,4 and 5 are not available for:
- Rear ports (pos.1 - E option)
- MYZM version(pos.1 - M option)

Mounting Flange (pos.2) WP and WQ are not available for:
- Side ports type M (pos.1 - M option)

Pos.11 - Special Features

omit - Standard motor
HD - Reinforced motor **HD**

Pos.12 - Special features of gear wheel set

omit - Standard gear wheel set
LL - Low Leakage
LSV - Low Speed Valving
FR - Free rotation
F - Easy rotation

Pos.13 - Direction of rotation

omit - Standard direction
R - Reverse rotation

Pos.14 - Paint and Coating

omit - no Paint or Coating
P - Painted
PC - Corrosion Protected Paint
PS - Special Painted ***
PCS - Special Corrosion Protected Paint***

If a painting option is required, the standard color is black Alkyd-styrenated enamel, Black RAL 9005.
Other color by customer's request

Pos.15 - Design Series

omit - Factory specified

*Under development
**The permissible output torque for shafts must not be exceeded!
***Non painted feeding surface
The hydraulic motors are mangano phosphatized as standard.

SCAN ME

The information placed at your disposal in this brochure can be changed without any notification.
Please be sure that your copy is the newest one.
http://www.ms-hydraulic.com/product_catalog.php

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