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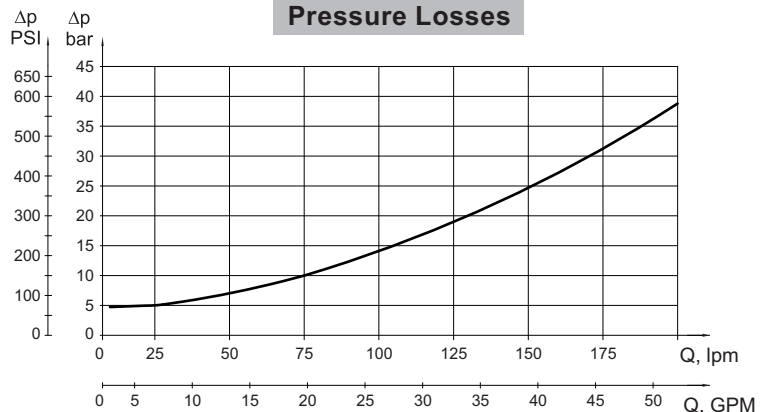
## GENERAL

<b>Max. Displacement,</b> cm <sup>3</sup> /rev [in <sup>3</sup> /rev]	801,8 [48.91]
<b>Max. Speed,</b> [RPM]	590
<b>Max. Torque,</b> daNm [lb-in]	cont.: 259 [22920]    int.: 340 [30090]
<b>Max. Output,</b> kW [HP]	65 [87]
<b>Max. Pressure Drop,</b> bar [PSI]	cont.: 250 [3600]    int.: 350 [5080]
<b>Max. Oil Flow,</b> lpm [GPM]	240 [63.4]
<b>Min. Speed,</b> [RPM]	5
<b>Permissible Shaft Loads</b> daN [lbs]	P <sub>a</sub> =1500 [3300]
<b>Pressure fluid</b>	Mineral based- HLP(DIN 51524) or HM(ISO 6743/4)
<b>Temperature range,</b> °C [°F]	-40÷140 [-40÷284]
<b>Optimal Viscosity range,</b> mm <sup>2</sup> /s [SUS]	20÷75 [98÷347]
<b>Filtration</b>	ISO code 20/16 (Min. recommended fluid filtration of 25 micron)

### Oil flow in drain line

Pressure drop bar [PSI]	Viscosity mm <sup>2</sup> /s [SUS]	Oil flow in drain line lpm [GPM]
200 [2900]	20 [98]	2,5 [.660]
	35 [164]	1,5 [.400]
275 [3990]	20 [98]	4 [1.057]
	35 [164]	2,5 [.660]

### Pressure Losses



## SPECIFICATION DATA

Type		TMYF 315	TMYF 400	TMYF 500	TMYF 630	TMYF 800
Displacement, cm <sup>3</sup> /rev [in <sup>3</sup> /rev]		314,5 [19.19]	400,9 [24.5]	499,6 [30.5]	629,1 [38.38]	801,8 [48.91]
Max. Speed, [RPM]	cont.	480	450	400	315	240
	int.*	570	590	480	370	290
Max. Torque, daNm [lb-in]	cont.	135 [11950]	172 [15220]	224 [19820]	259 [22920]	270 [23900]
	int.*	160 [14160]	200 [17700]	260 [23010]	320 [28320]	340 [30090]
	peak**	180 [15930]	230 [20355]	286 [25315]	360 [31860]	402 [35580]
Starting Torque, daNm [lb-in]		92 [8140]	115 [10180]	144 [12745]	180 [15930]	205 [18140]
Max. Output, kW [HP]	cont.	50 [67]	55 [74]	55 [74]	50 [67]	50 [67]
	int.*	55 [74]	60 [80]	65 [87]	60 [80]	60 [80]
Max. Pressure Drop, bar [PSI]	cont.	300 [4350]	300 [4350]	300 [4350]	275 [3990]	225 [3263]
	int.*	350 [5080]	350 [5080]	350 [5080]	350 [5080]	300 [4350]
	peak**	400 [5800]	400 [5800]	400 [5800]	400 [5800]	350 [5080]
Max. Oil Flow lpm [GPM]	cont.	150 [39.6]	180 [47.6]	200 [52.8]	200 [52.8]	200 [52.8]
	int.*	180 [47.6]	240 [63.4]	240 [63.4]	240 [63.4]	240 [63.4]
Max. Inlet Pressure bar [PSI]	cont.	300 [4350]	300 [4350]	300 [4350]	300 [4350]	300 [4350]
	int.*	380 [5510]	380 [5510]	380 [5510]	380 [5510]	380 [5510]
	peak**	420 [6090]	420 [6090]	420 [6090]	420 [6090]	420 [6090]
Max. Starting Pressure with Unloaded Shaft, bar [PSI]		5 [70]	5 [70]	5 [70]	5 [70]	5 [70]
Max. Return Pressure with Drain Line, bar [PSI]	cont.	140 [2030]				
	int.*	175 [2540]				
	peak**	210 [3046]				
Drain line:		<b>Should always be used!</b>				
Weight, kg [lb]	TMYFT	31,2 [68.8]	31,8 [70.1]	32,4 [71.4]	34 [74.9]	34,5 [76.1]
	TMYFV	38,2 [84.4]	38,8 [85.5]	39,4 [86.9]	41 [90.4]	41,5 [91.5]

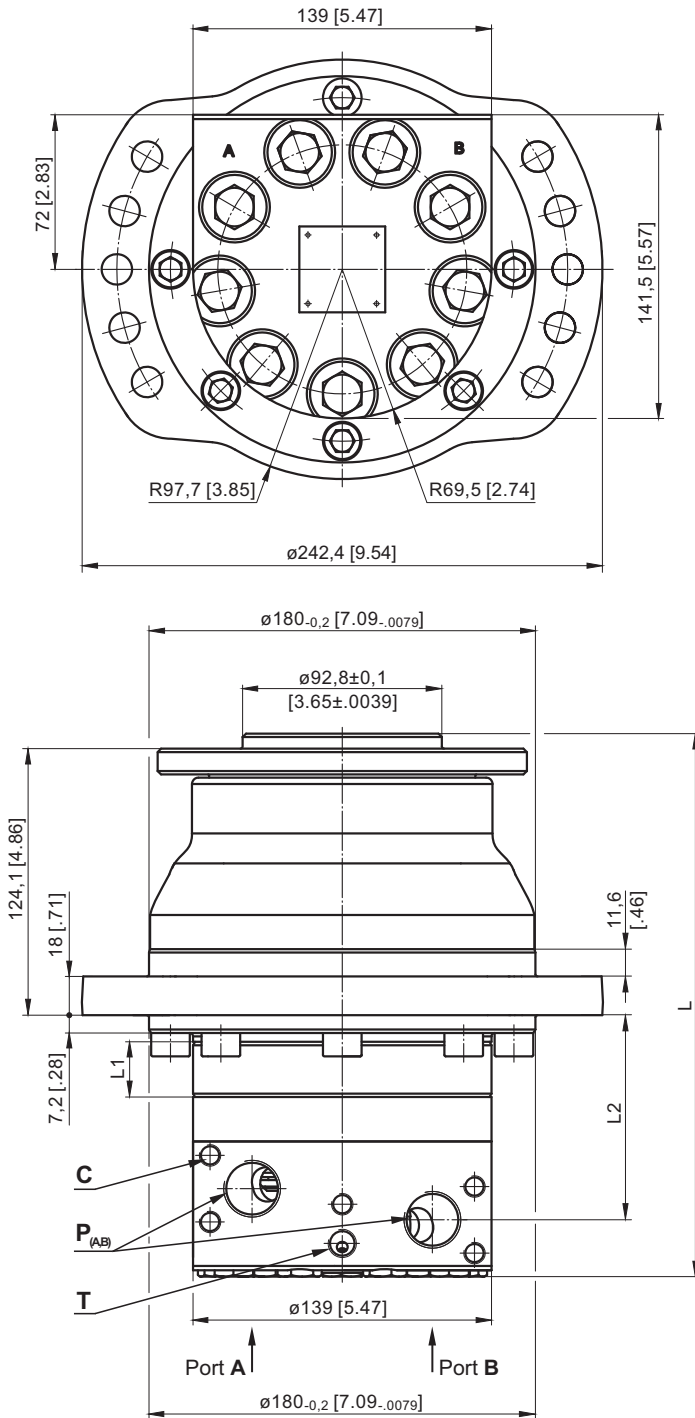
\* Intermittent operation: the permissible values may occur for max. 10% of every minute.

\*\* 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 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 (ISO 6743/4).  
If using synthetic fluids consult the factory for alternative seal materials.
4. Recommended minimum oil viscosity 13 mm<sup>2</sup>/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.

**TMYFT...5...**



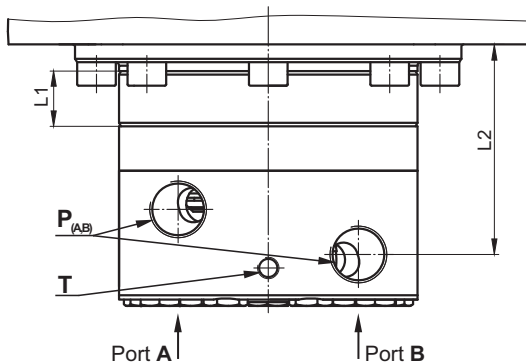
	Versions		
	2	4	5
<b>C</b>	-	-	5xM10
<b>P(A,B)</b>	2xG $\frac{3}{4}$	2x1 $\frac{1}{16}$ -12 UN O-ring	2xG $\frac{3}{4}$
<b>T</b>	G $\frac{1}{4}$	$\frac{9}{16}$ -18 UNF	G $\frac{1}{4}$

**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



**TMYFT...2(4)...**

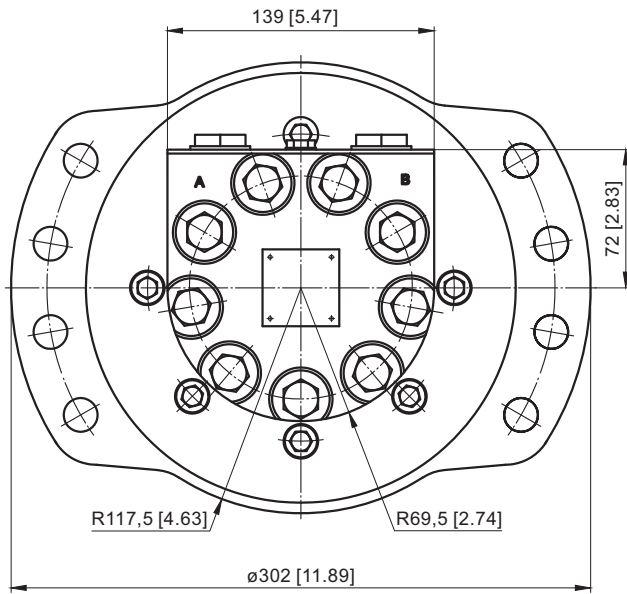


Type	$L_{max}$ , mm [in]	$L_2$ , mm [in]	$L_1$ , mm [in]
TMYFT 315...5	253,5 [ 9.98]	95,5 [3.76]	25,5 [1.00]
TMYFT 400...5	260,5 [10.26]	102,5 [4.04]	32,5 [1.28]
TMYFT 500...5	268,5 [10.58]	110,5 [4.35]	40,5 [1.59]
TMYFT 630...5	279,0 [10.98]	121,0 [4.76]	51,0 [2.00]
TMYFT 800...5	293,0 [11.54]	135,0 [5.31]	65,0 [2.56]

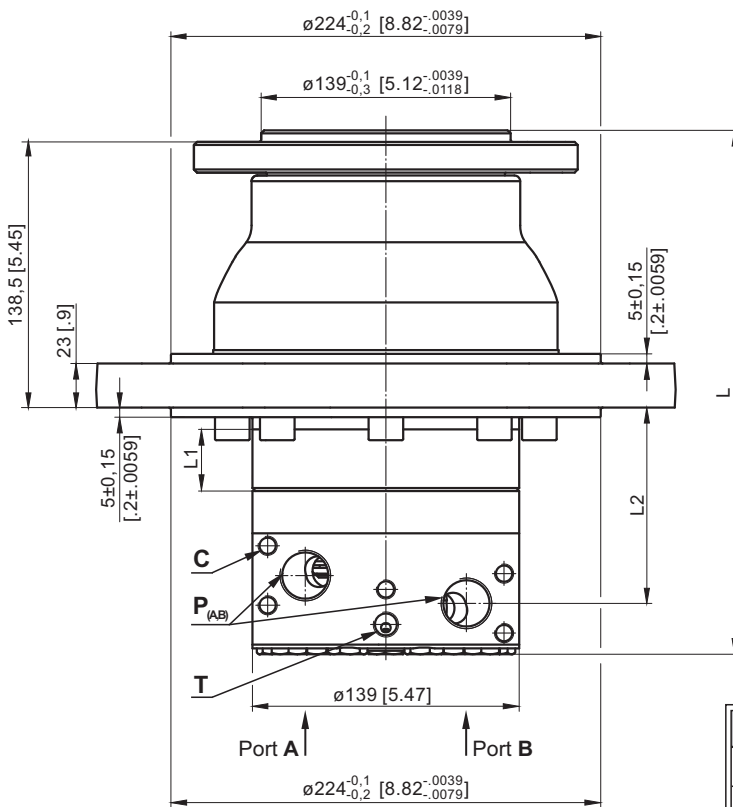
Type	$L_{max}$ , mm [in]	$L_2$ , mm [in]	$L_1$ , mm [in]
TMYFT 315...2(4)	253,5 [ 9.98]	98,0 [3.86]	25,5 [1.00]
TMYFT 400...2(4)	260,5 [10.26]	105,0 [4.13]	32,5 [1.28]
TMYFT 500...2(4)	268,5 [10.58]	113,0 [4.45]	40,5 [1.59]
TMYFT 630...2(4)	279,0 [10.98]	123,5 [4.86]	51,0 [2.00]
TMYFT 800...2(4)	293,0 [11.54]	137,5 [5.41]	65,0 [2.56]

**OUTLINE DIMENSIONS REFERENCE**

**TMYFV...5...**



	Versions		
	2	4	5
<b>C</b>	-	-	5xM10
<b>P(A,B)</b>	2xG <sup>3</sup> / <sub>4</sub>	2x1 <sup>1</sup> / <sub>16</sub> -12 UN O-ring	2xG <sup>3</sup> / <sub>4</sub>
<b>T</b>	G <sup>1</sup> / <sub>4</sub>	<sup>9</sup> / <sub>16</sub> -18 UNF	G <sup>1</sup> / <sub>4</sub>

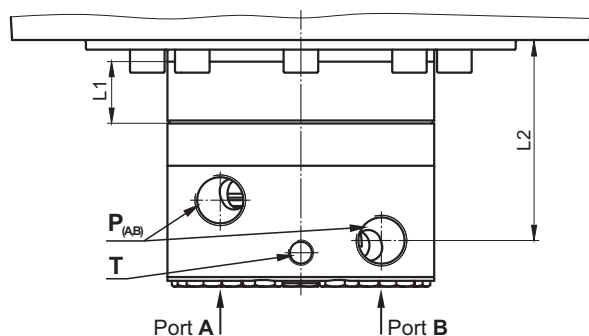


**Standard Rotation**  
Viewed from Shaft End  
Port A Pressurized - **CW**  
Port B Pressurized - **CCW**

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



**TMYFV...2(4)...**

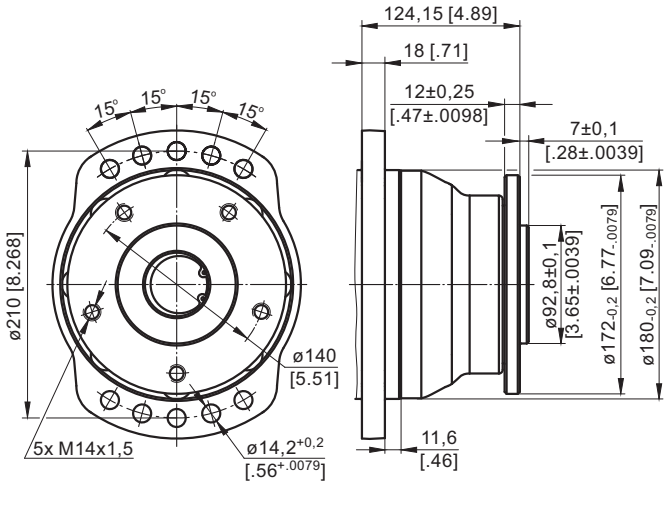


Type	L <sub>max</sub> , mm [in]	L <sub>2</sub> , mm [in]	L <sub>1</sub> , mm [in]
TMYFV 315...5	266,0 [10.47]	95 [3.74]	25,5 [1.00]
TMYFV 400...5	273,0 [10.75]	102 [4.02]	32,5 [1.28]
TMYFV 500...5	281,0 [11.06]	110 [4.33]	40,5 [1.59]
TMYFV 630...5	291,5 [11.48]	121 [4.76]	51,0 [2.00]
TMYFV 800...5	305,5 [12.03]	135 [5.31]	65,0 [2.56]

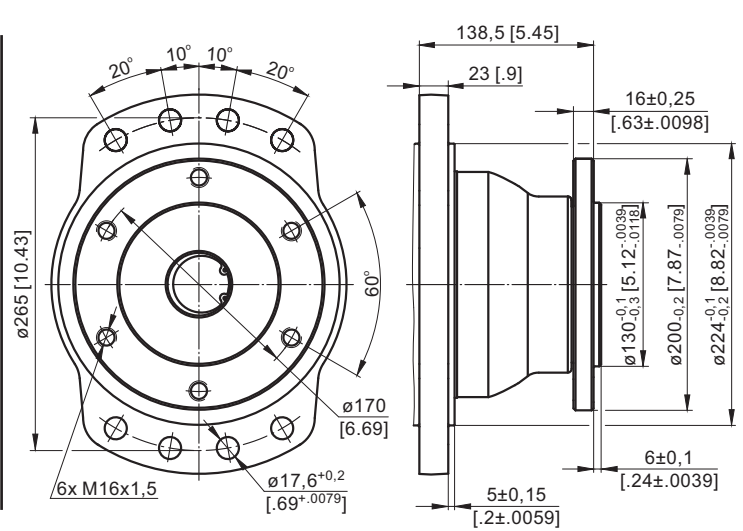
Type	L <sub>max</sub> , mm [in]	L <sub>2</sub> , mm [in]	L <sub>1</sub> , mm [in]
TMYFV 315...2(4)	266,0 [10.47]	97,5 [3.84]	25,5 [1.00]
TMYFV 400...2(4)	273,0 [10.75]	104,5 [4.11]	32,5 [1.28]
TMYFV 500...2(4)	281,0 [11.06]	112,5 [4.43]	40,5 [1.59]
TMYFV 630...2(4)	291,5 [11.48]	123,5 [4.86]	51,0 [2.00]
TMYFV 800...2(4)	305,5 [12.03]	137,5 [5.41]	65,0 [2.56]

**MOUNTING**

**TMYFT**

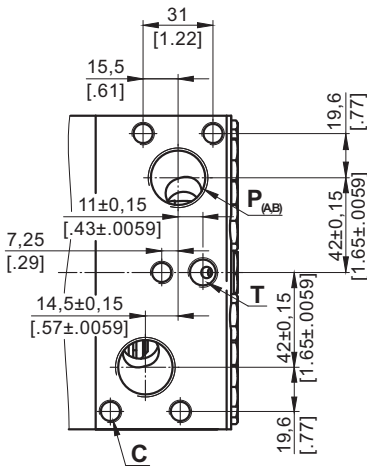


**TMYFV**

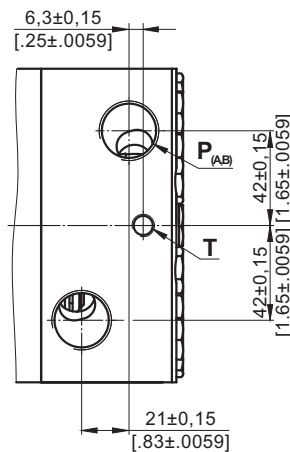


**PORTS**

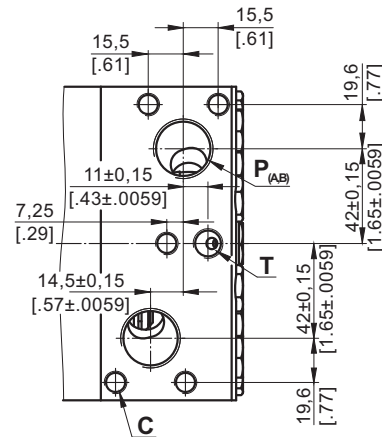
**TMYFT...5...**



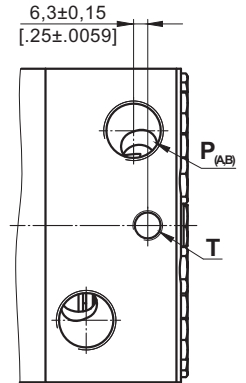
**TMYFT...2(4)...**



**TMYFV...5...**



**TMYFV...2(4)...**



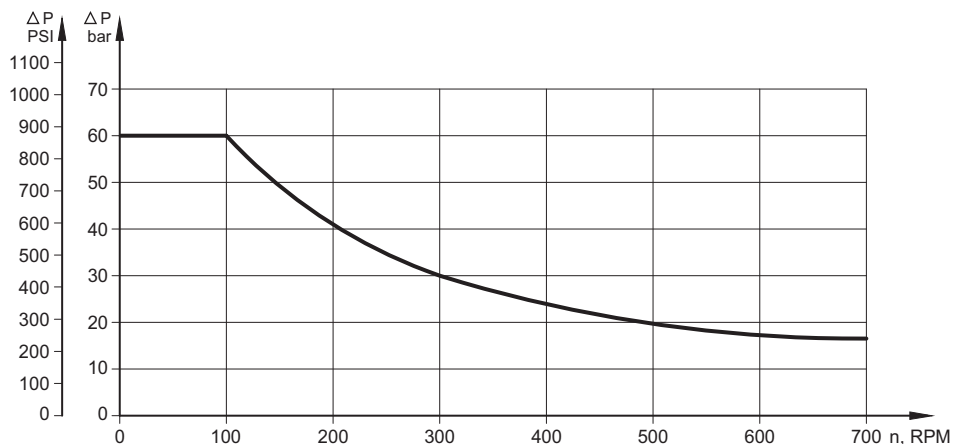
	Versions		
	2	4	5
<b>C</b>	-	-	5xM10
<b>P(A,B)</b>	2xG <sup>3</sup> / <sub>4</sub>	2x1 <sup>1</sup> / <sub>16</sub> -12 UN O-ring	2xG <sup>3</sup> / <sub>4</sub>
<b>T</b>	G <sup>1</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>16</sub> -18 UNF	G <sup>1</sup> / <sub>4</sub>



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

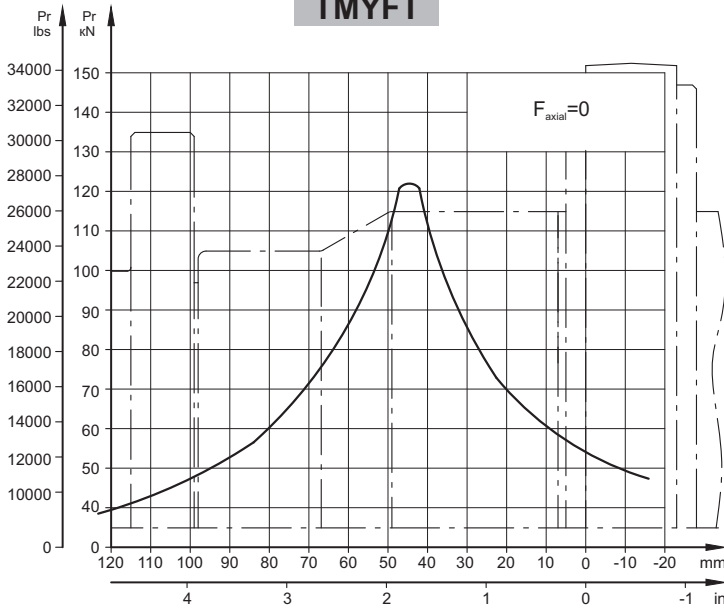
**Reverse Rotation**  
Viewed from Shaft End  
Port A Pressurized - CCW  
Port B Pressurized - CW

**MAX. PERMISSIBLE SHAFT SEAL PRESSURE**



**PERMISSIBLE SHAFT LOADS**

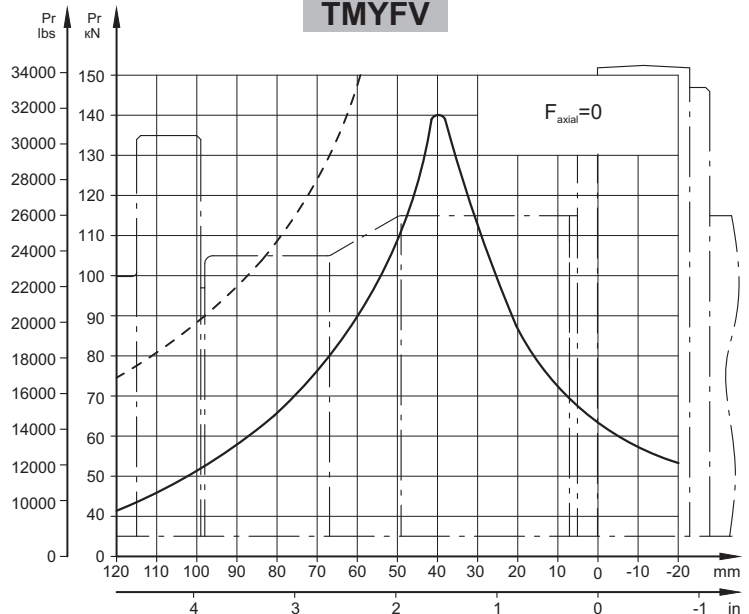
**TMYFT**



n min <sup>-1</sup>	Correction factor
-	-
50	1,23
100	1,00
200	0,81
300	0,72
400	0,66
500	0,62

The curve of the radial load is based on the bearing life L10 by ISO 281 (2000 h at 100 min<sup>-1</sup> or 12 000 000 revolutions). For calculation of the radial load at speed different than 100 min<sup>-1</sup> must be used the coefficients shown in the table.

**TMYFV**



**ORDER CODE**

1	2	3	4	5	6
<b>T</b>	<b>M</b>	<b>Y</b>	<b>F</b>	<b>-</b>	<b>HD</b>

**Pos.1 - Mounting Flange**

- T** - 10-Bolt flange, spigot dia. ø180, BC ø210
- V** - 8-Bolt flange, spigot dia. ø200, BC ø265

**Pos.2 - Displacement code**

- 315** - 314,5 cm<sup>3</sup>/rev [19.19 in<sup>3</sup>/rev]
- 400** - 400,9 cm<sup>3</sup>/rev [24.50 in<sup>3</sup>/rev]
- 500** - 499,6 cm<sup>3</sup>/rev [30.50 in<sup>3</sup>/rev]
- 630** - 629,1 cm<sup>3</sup>/rev [38.38 in<sup>3</sup>/rev]
- 800** - 801,8 cm<sup>3</sup>/rev [48.91 in<sup>3</sup>/rev]

**Pos.3 - Port Size/Type [standard manifold to each]**

- 2** - side ports, 2xG3/4, G1/4, BSP thread, ISO 228
- 4** - side ports, 2x1<sup>1</sup>/<sub>16</sub>-12 UN, O-ring, 9/16-18 UNF
- 5** - side ports, 2xG3/4, G1/4, 5xM10

**Pos.4 - Check Valves**

- omit - without check valves
- 1\*** - with check valves

**Pos.5 - Special Features**

- HD** - Reinforced motor **HD\*\***

For Other **Special Features** see [page 66](#)

**Pos.6 - Design Series**

- omit - without check valves

**NOTES:** \* Not for Port Size Version 5!  
\*\* Drain line should always be used.

The hydraulic motors are mangano-phosphatized as standard.