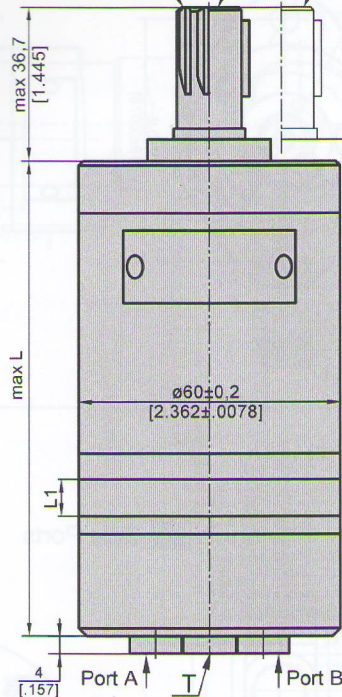


DIMENSIONS AND MOUNTING DATA  
MM, MMS, MMP, MMD

Three Bolts Mount

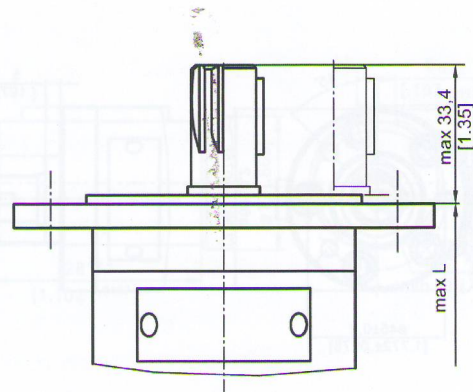
SH Shaft C Shaft CK Shaft



Shaft Dim.  
See Page 11

Flange Dim.  
See Page 10

F Oval Mount (2 Holes)



Rear Ports

Standard Rotation

Viewed from Shaft End

Port A Pressurized - CW

Port B Pressurized - CCW

Reverse Rotation

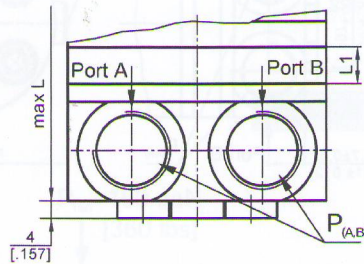
Viewed from Shaft End

Port A Pressurized - CCW

Port B Pressurized - CW

Port Dim.  
See Page 10

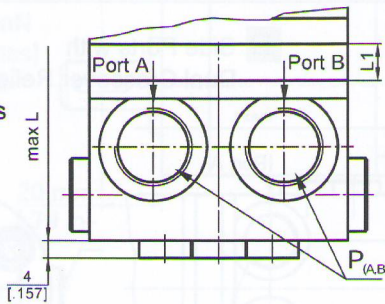
S Side Ports



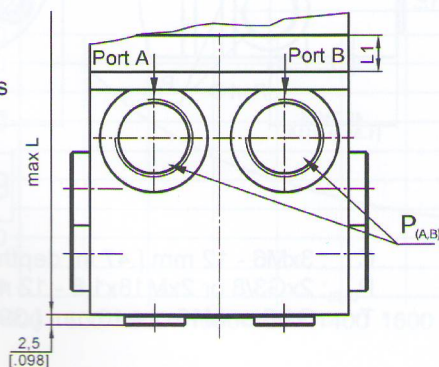
$P_{(A,B)}$ : 2xG3/8 or 2xM18x1,5 - 12 mm [.47 in] depth

T : G1/8 or M10x1 - 10 mm [.39 in] depth

P Side Ports



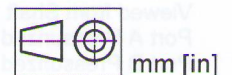
D Side Ports



| Type    | L,mm [in.]    | Type     | L,mm [in.]    | L <sub>1</sub> ,mm [in.] |
|---------|---------------|----------|---------------|--------------------------|
| MM 8    | 104 [4.094]   | MMS 8    | 105 [4.134]   | 3,5 [.138]               |
| MM 12,5 | 106 [4.173]   | MMS 12,5 | 107 [4.213]   | 5,5 [.217]               |
| MM 20   | 109 [4.291]   | MMS 20   | 110 [4.331]   | 8,5 [.335]               |
| MM 32   | 114 [4.488]   | MMS 32   | 115 [4.528]   | 13,5 [.531]              |
| MM 40   | 117,5 [4.626] | MMS 40   | 118,5 [4.665] | 17 [.669]                |
| MM 50   | 121,5 [4.783] | MMS 50   | 122,5 [4.823] | 21 [.827]                |

| Type     | L,mm [in.]    | Type     | L,mm [in.]    | L <sub>1</sub> ,mm [in.] |
|----------|---------------|----------|---------------|--------------------------|
| MMP 8    | 115 [4.528]   | MMD 8    | 134 [5.276]   | 3,5 [.138]               |
| MMP 12,5 | 117 [4.606]   | MMD 12,5 | 136 [5.354]   | 5,5 [.217]               |
| MMP 20   | 120 [4.724]   | MMD 20   | 139 [5.472]   | 8,5 [.335]               |
| MMP 32   | 125 [4.921]   | MMD 32   | 144 [5.669]   | 13,5 [.531]              |
| MMP 40   | 128,5 [5.039] | MMD 40   | 147,5 [5.807] | 17 [.669]                |
| MMP 50   | 132,5 [5.217] | MMD 50   | 151,5 [5.965] | 21 [.827]                |

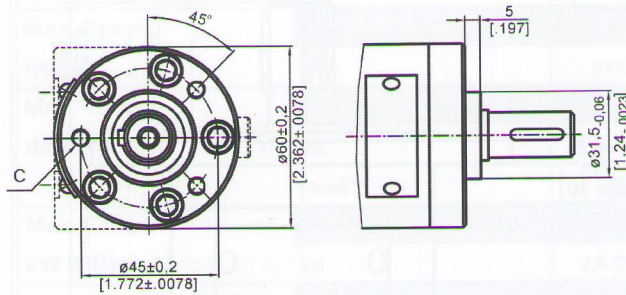
For "F" Flange +3,5 mm



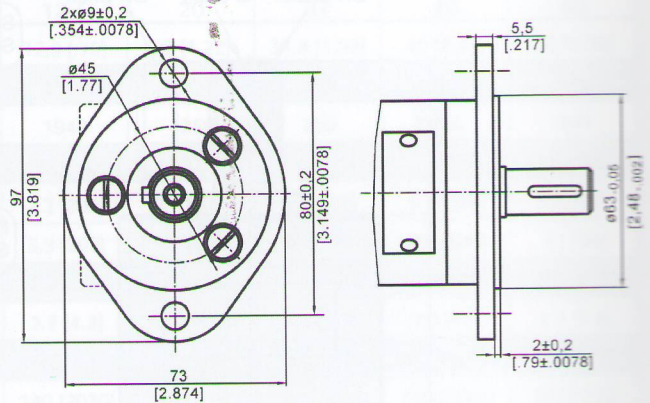


MOUNTING

Three Bolts Mount

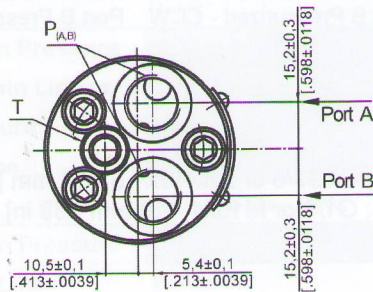


F Oval Mount (2 Holes)

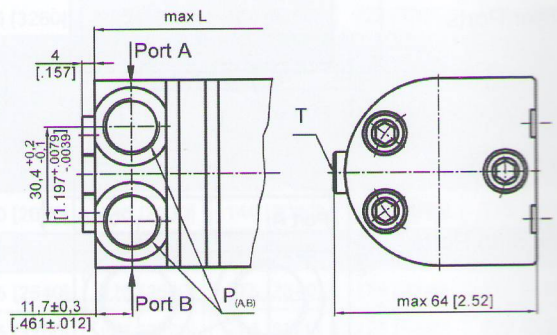


PORTS

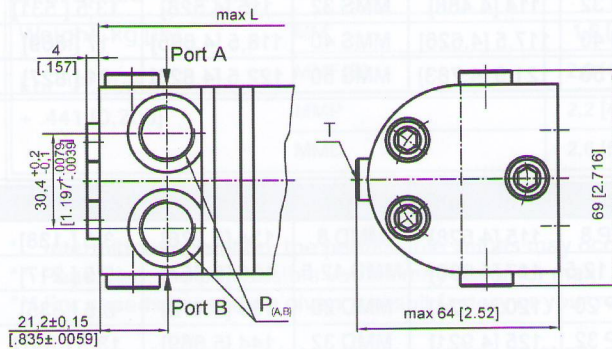
Rear Ports



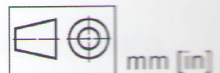
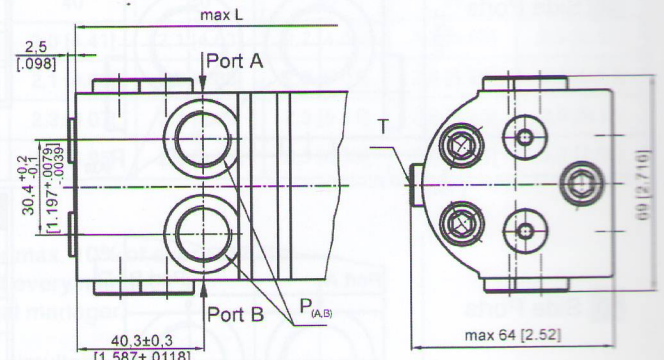
S Side Ports



P Side Ports with Single Crossover Relief Valve



D Side Ports with Dual Crossover Relief Valve



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

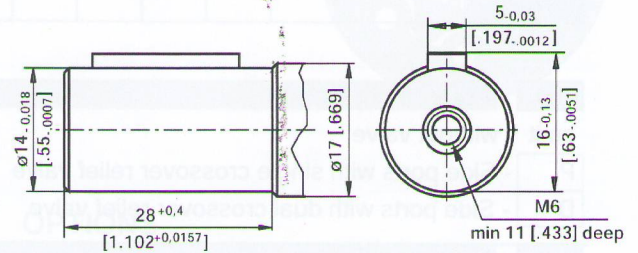
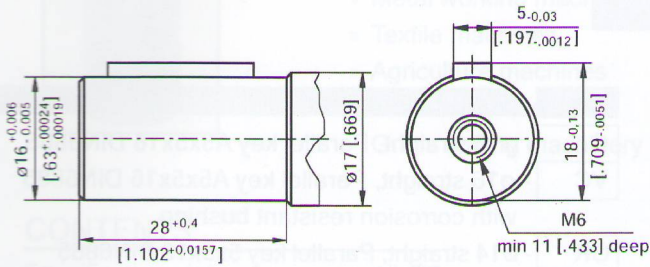
C : 3xM6 - 12 mm [.47 in] depth  
P<sub>(A,B)</sub> : 2xG3/8 or 2xM18x1,5 - 12 mm [.47 in] depth  
T : G1/8 or M10x1 - 10 mm [.39 in] depth



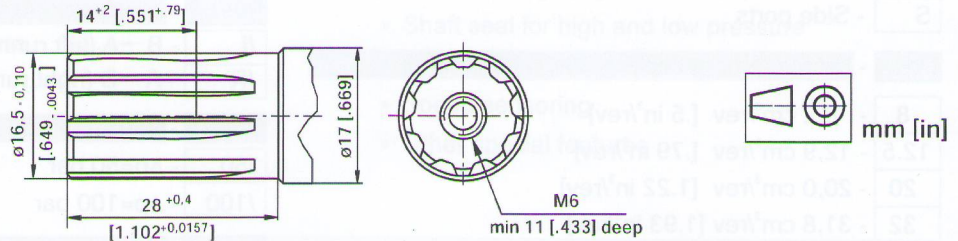
SHAFT EXTENSIONS

**C** -  $\phi 16$  straight, Parallel key 5x5x16 DIN 6885  
Max. Torque 3,9 daNm [345 lb-in]

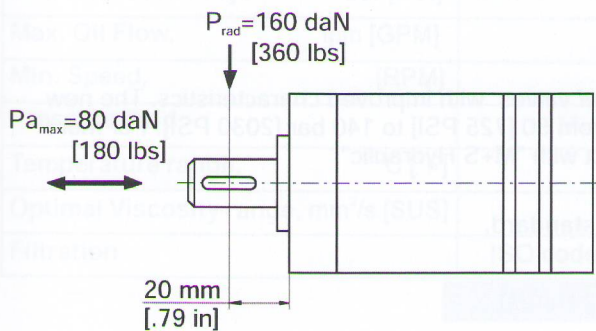
**CK** -  $\phi 14$  straight, Parallel key 5x5x16 DIN 6885  
Max. Torque 3 daNm [265 lb-in]



**SH** -  $\phi 16,5$  Splined, B17x14 DIN 5482  
Max. Torque 4,4 daNm [390 lb-in]



PERMISSIBLE SHAFT LOAD



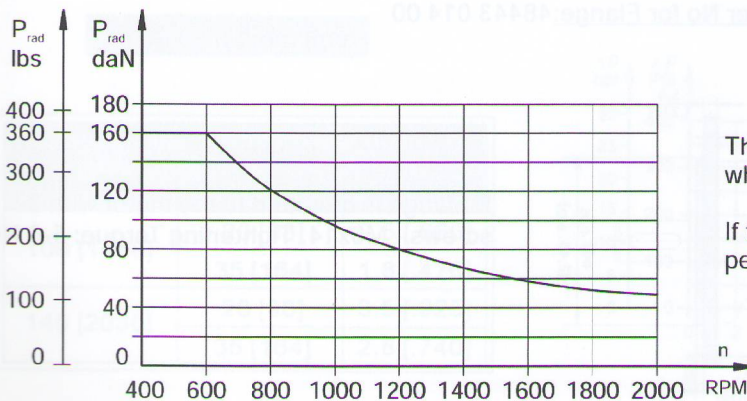
The permissible radial shaft load [Prad] is calculated from the distance [L] between the point of load application and the mounting surface:

$$P_{rad} = \frac{600}{n} \times \frac{13040}{61,5+L} \text{ , [daN]}$$

[L in mm; L ≤ 80 mm]

$$P_{rad} = \frac{600}{n} \times \frac{1155}{2,42 + L} \text{ , [lbs]}$$

[L in inch; L ≤ 3.15 in]



The drawing shows the permissible radial load when L=20 mm [0.79 in].

If the calculated shaft load exceeds the permissible, a flexible coupling must be used.