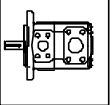

MOTORS

- MHP motors

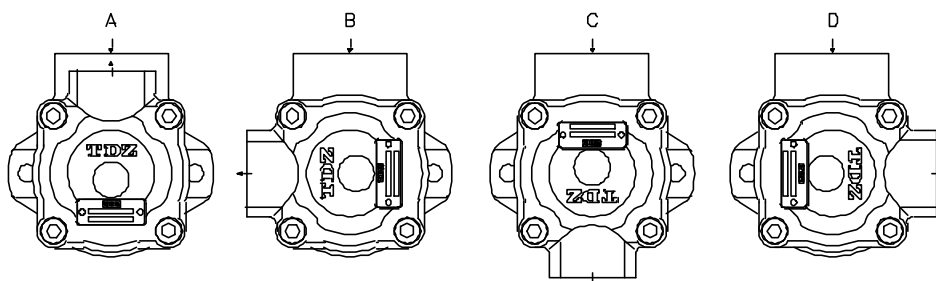
Mt



VANE MOTORS CODE

| <u>F3</u> | <u>MHP</u> | <u>2</u> | <u>10</u> | <u>D</u> | <u>1</u> | <u>A</u> |
|-----------|------------|----------|-----------|----------|----------|----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |

- 1 - "F3" means special seals for fire-resistant fluids. Omit if not required.
- 2 - **Motor type:**
MHP = 10 vanes motor, mobile and industrial use, metric threads.
- 3 - **Motor model:**
Models 2.
- 4 - **Flow:** In litres per minute at 1000 rpm and 7 bar.
- 5 - **D = Right-hand** direction of rotation (Clockwise).
Y = Left-hand direction of rotation (Counterclockwise).
(To check the direction of rotation view from the shaft end).
- 6 - **Shaft type:** See on each motor model information.
- 7 - **Outlet position from the shaft:**
A: In line with inlet.
B: 90° on the right from inlet (90° clockwise from inlet).
C: 180° from inlet.
D: 90° on the left from inlet (90° counterclockwise from inlet).

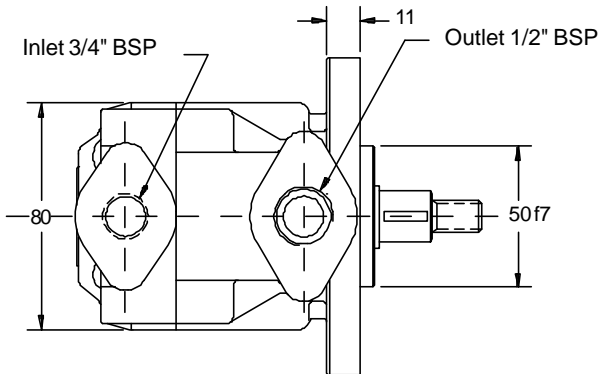
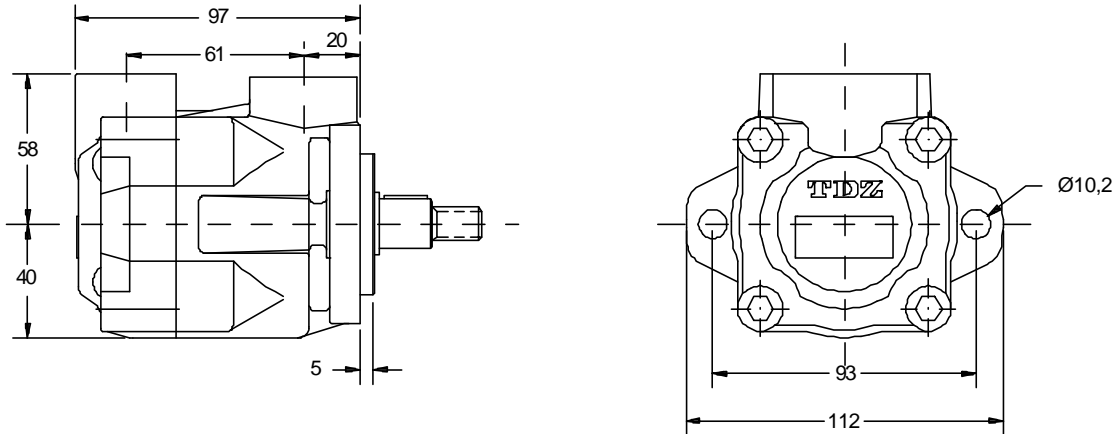


VANE MOTOR TYPE MHP-2

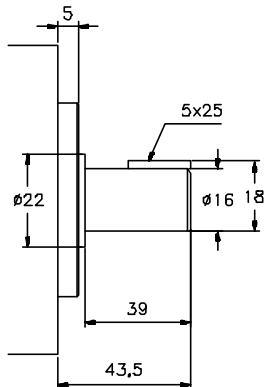


| | FLOW | | | | | SPEED (rpm) (3) | | | PRES. (Bar) | | CONNECTION | | WEIGHT (Kgs.) |
|-------------------------------|------|-----|-----|-----|-----|-----------------|--------------|----------------|-------------|-----------|------------|----------|---------------|
| | 7 | 8 | 10 | 12 | 15 | Mín. | Máx. Contin. | Máx. Intermit. | Contin. | Intermit. | Inlet | Outlet | |
| Lts. a 1000 rpm | 7 | 8 | 10 | 12 | 15 | | | | | | | | |
| Gal. a 1200 rpm | 2,2 | 2,5 | 3,2 | 3,8 | 4,7 | | | | | | | | |
| Torque (N.m) ⁽¹⁾ | 11 | 13 | 16 | 19 | 24 | | | | | | | | |
| Nom. Power(CV) ⁽²⁾ | 1,5 | 1,7 | 2,1 | 2,5 | 3,1 | 300 | 3000 | 3500 | 150 | 175 | 1/2" BSP | 1/2" BSP | 3,6 |

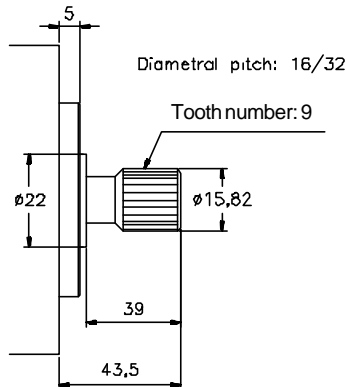
- (1) Theoretical Torque in N.m at 100 Bar.
 - (2) Nominal Power in H.P. at 100 Bar and 1000 r.p.m.
 - (3) For pressures lower of 100 bar, the maximum speed can increase until 20%
- Flow and power diagrams, see corresponding pump



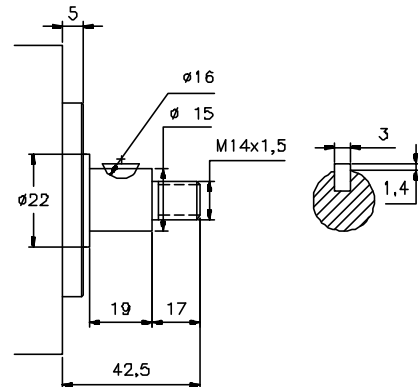
Nº 1 shaft



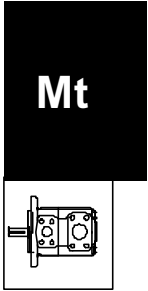
Nº 2 shaft



Nº 3 shaft



Enquire about other types of shafts



ORDERING CODE

Model No. **MD4C - 075 - 1 - N - 00 - C 1 02 ..**

Series external drain

Nominal flow

| | |
|----------|---------------|
| (torque) | 0,39 Nm/bar |
| 027 | (0,45 Nm/bar) |
| 031 | (0,55 Nm/bar) |
| 043 | (0,74 Nm/bar) |
| 055 | (0,93 Nm/bar) |
| 067 | (1,13 Nm/bar) |
| 075 | (1,27 Nm/bar) |
| 100 | (1,56 Nm/bar) |

Type of Shaft

- 1 = Keyed (SAE B)
- 2 = Keyed (non SAE)
- 3 = Splined (SAE B)
- 9 = Special (non SAE)

Rotation

N = Bi-directional

Modification

Port

- connections
- 1 5/16" UNF
 - 9/16"-18 UNF Drain
 - 02 = 4 Bolt Flange
 - 3/8"-16 UNC Threaded
 - 9/16"-18 UNF Drain
 - 03 = Threaded Port 3/4" BSP
 - 3/8" BSP Drain
 - 04 = 4 Bolt Flange
 - 3/8-16 UNC Threaded
 - 3/8" BSP Drain
 - M4 = 4 Bolt Flange
 - Metric Threaded M10x20
 - 3/8" BSP Drain

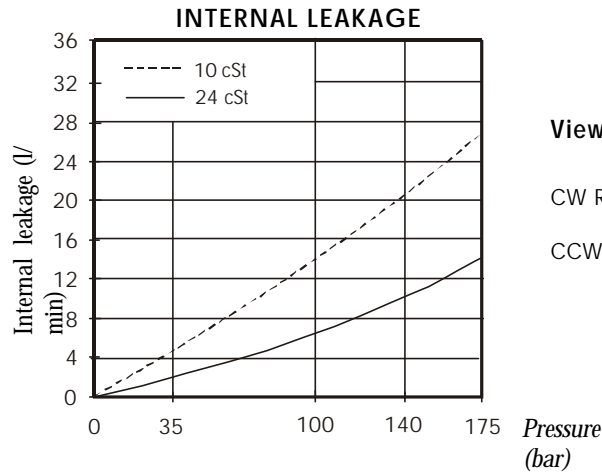
Seal Class

1 = 1

Desing letter

Porting combination

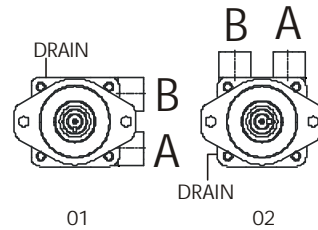
- 01 = Side ports (right/left)
- 02 = Side ports (up/down)



View from shaft end:

- CW Rotation A = inlet, B = outlet
- CCW Rotation A = outlet, B = inlet

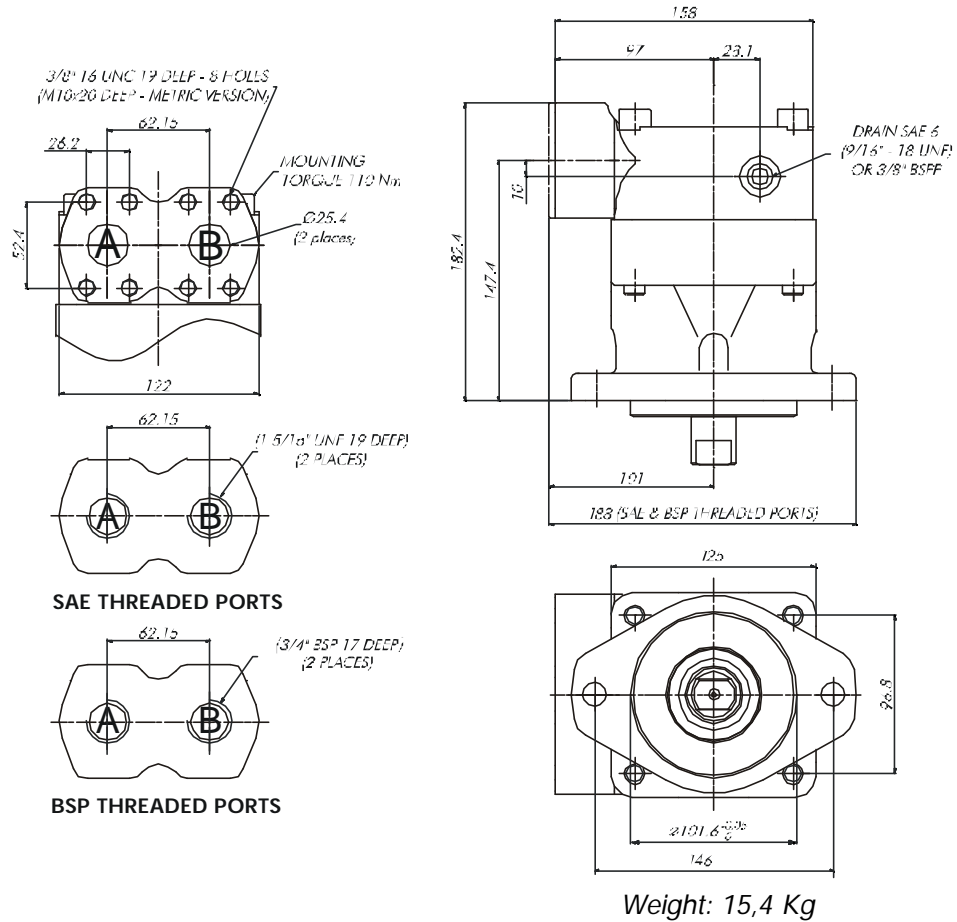
Porting combination



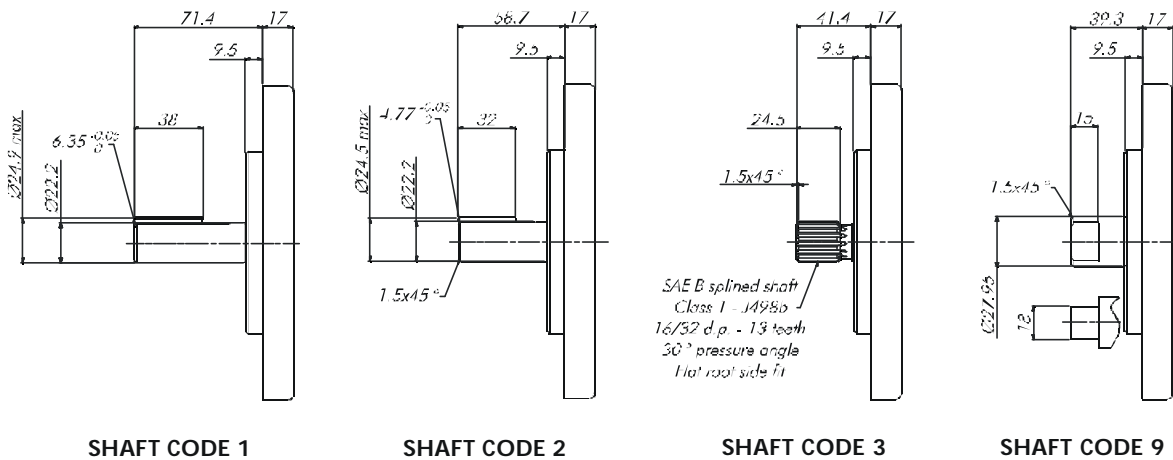
OPERATING CHARACTERISTICS (24 cSt)

| Model | Volumetric displacement (Vi) cc/rev | Input flow at n = 2000 RPM | | Torque T at n = 2000 RPM | Power output at n = 2000 RPM |
|------------|--|----------------------------|----------------|-----------------------------|---------------------------------|
| | | Theoretical | at 175 bar ? p | at 175 bar ? p | at 175 bar ? p |
| | | l/min | l/min | Nm | kW |
| MD4C - 024 | 24.4 | 49.0 | 63.0 | 60.5 | 12.7 |
| MD4C - 027 | 28.2 | 56.0 | 70.0 | 70.0 | 14.7 |
| MD4C - 031 | 34.5 | 69.0 | 83.0 | 86.8 | 18.0 |
| MD4C - 043 | 45.5 | 93.0 | 107.0 | 120.0 | 25.1 |
| MD4C - 055 | 58.8 | 118.0 | 132.0 | 149.0 | 31.2 |
| MD4C - 067 | 71.1 | 142.0 | 156.0 | 170.0 | 35.6 |
| MD4C - 075 | 80.1 | 160.0 | 174.0 | 198.0 | 41.5 |

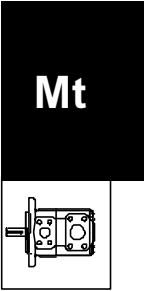
PORT CONNECTIONS



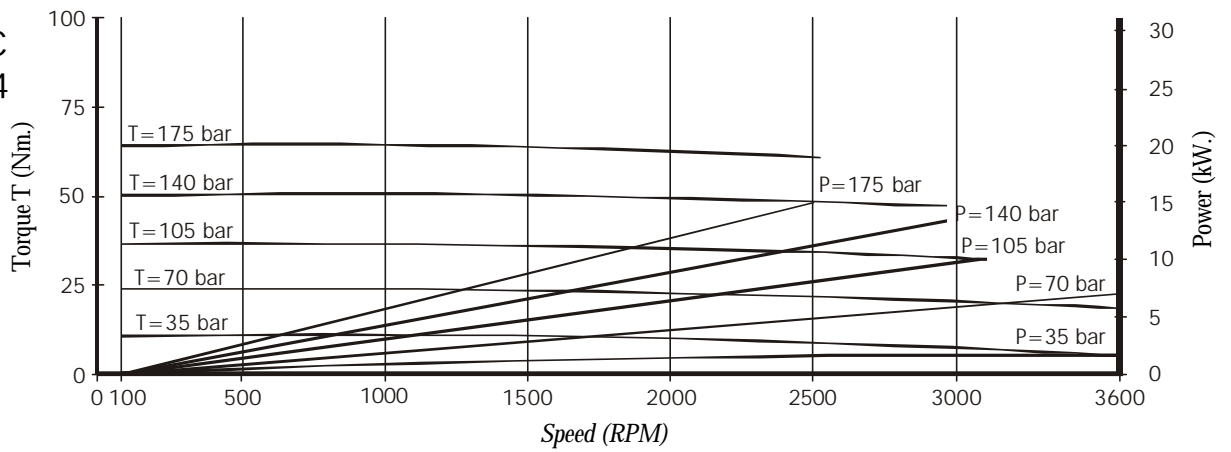
SHAFT TYPE



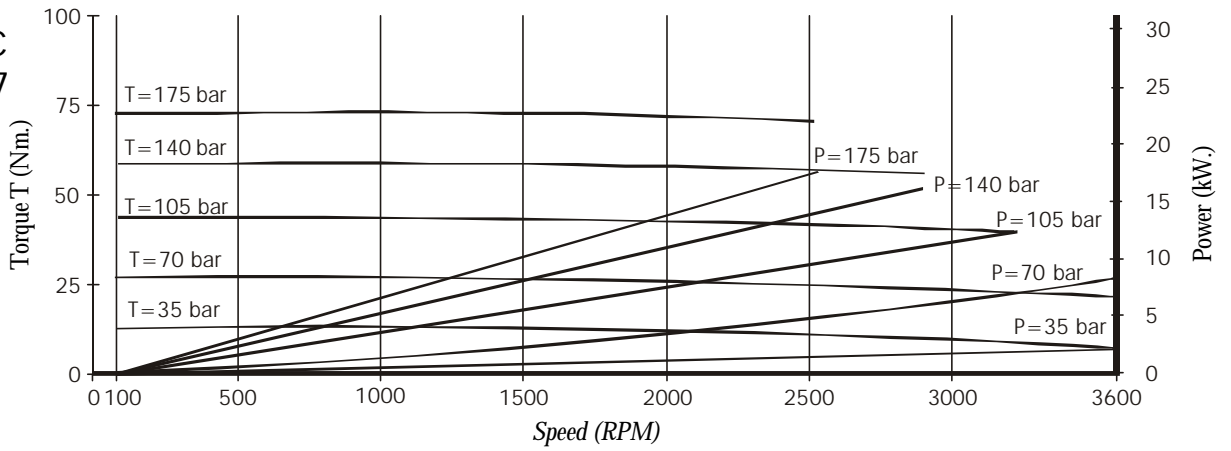
Enquire about other shaft type



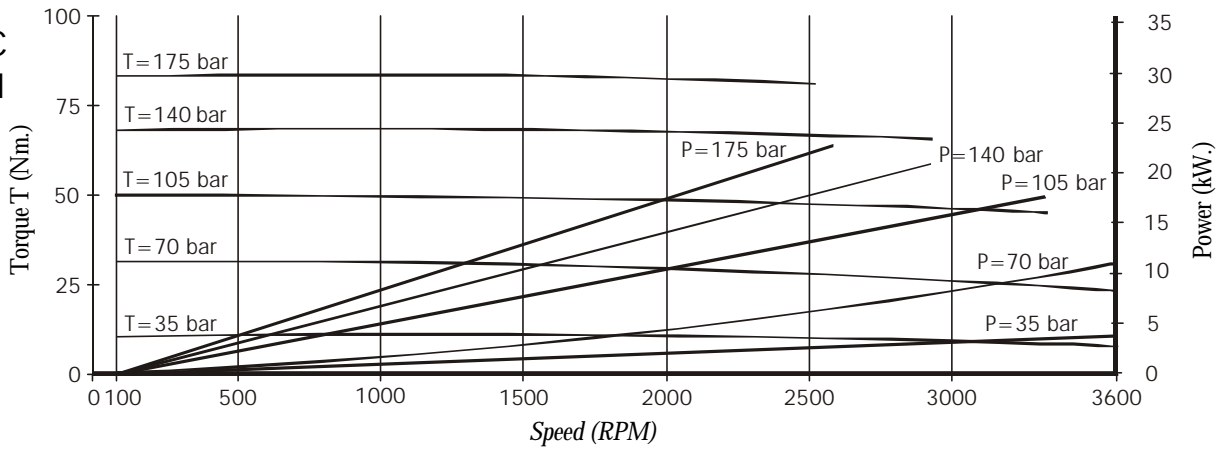
MD4C
024



MD4C
027



MD4C
031



MD4C
043

