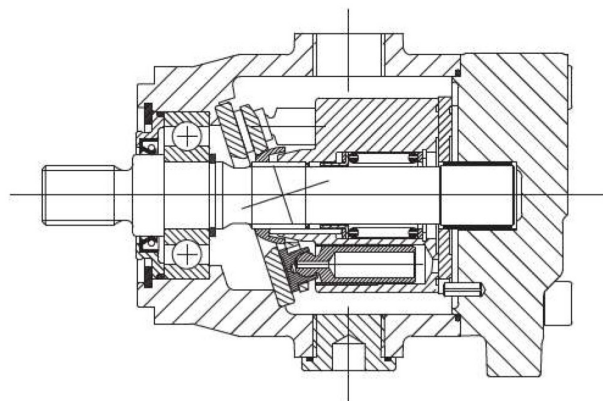


# M4MF Series

Axial Piston Motors Fixed Displacement



The M4 MF series axial piston motors have been designed to work both in an open and in a closed circuit. Control systems now available are making it easy to use these motors in any application for industrial and mobile fields. Development of rotating groups, specifically designed, united to an accurate study of oil passage sections, allow high speed rotation, giving extreme reliability for working continuous pressure unit 250 bar and until 350 bar for peak pressure. Motors can be supplied on request with complete accessories such as cross relief valves and built-in relief valves.

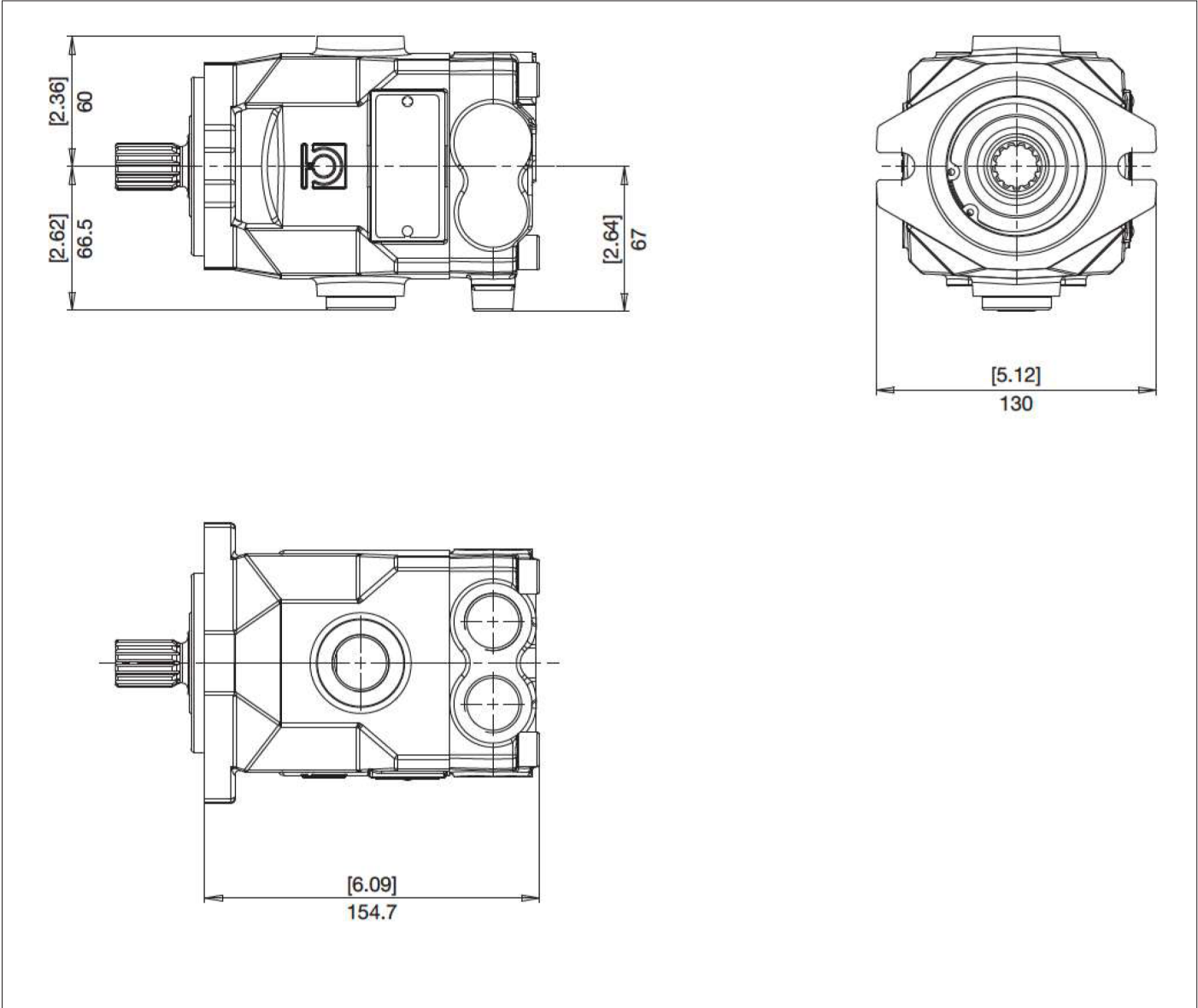
| GROUP | NOMINAL<br>DISPLACEMENT |                 | SWASHPLATE | CONTINUOUS |      | INTERMITTENT |      | PEAK |      | SPEED             |                   | WEIGHT |       |
|-------|-------------------------|-----------------|------------|------------|------|--------------|------|------|------|-------------------|-------------------|--------|-------|
|       |                         |                 |            |            |      |              |      |      |      | MAX               | MIN               |        |       |
|       | cm <sup>3</sup>         | in <sup>3</sup> |            | bar        | psi  | bar          | psi  | bar  | psi  | min <sup>-1</sup> | min <sup>-1</sup> | kg     | lbs   |
| M4MF  | 21                      | 1.28            | 18         | 250        | 3625 | 300          | 4350 | 350  | 5075 | 3600              | 500               | 7.5    | 16.50 |
|       | 28                      | 1.71            | 18         | 250        | 3625 | 300          | 4350 | 350  | 5075 | 3600              | 500               | 7.8    | 17.16 |
|       | 37                      | 2.26            | 18         | 250        | 3625 | 300          | 4350 | 350  | 5075 | 2800              | 500               | 8.1    | 17.82 |

# M4MF Series



Axial Piston Motors Fixed Displacement

## DIMENSIONAL DETAILS



# M4MF Series

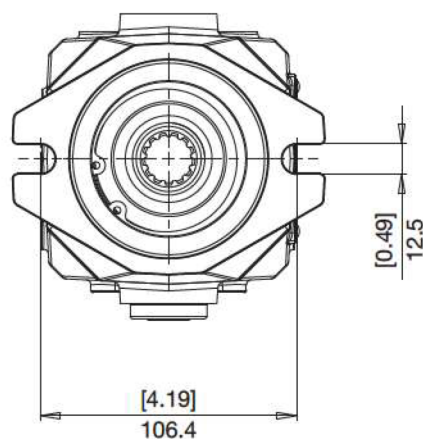
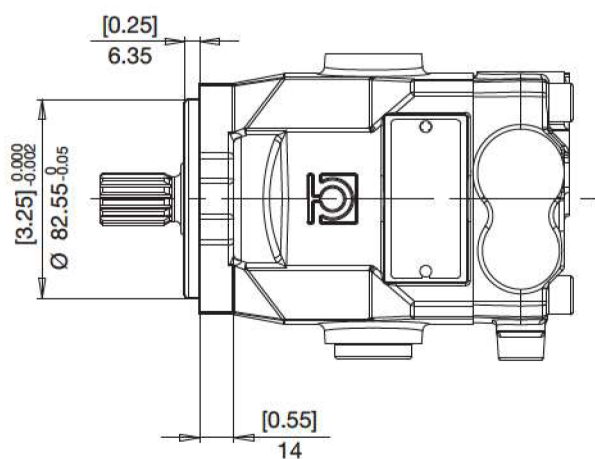
Axial Piston Motors Fixed Displacement



## FLANGES

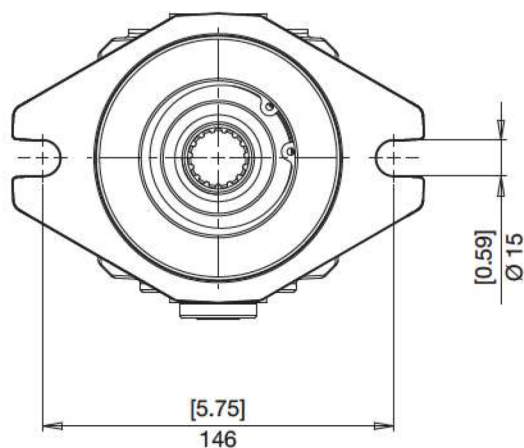
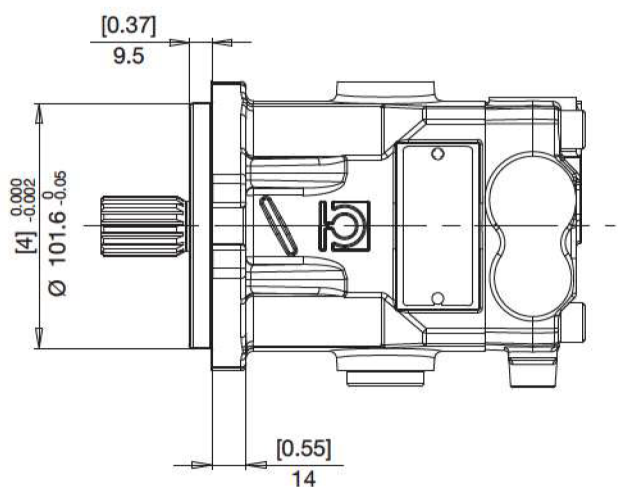
### A

SAE A



### B

SAE B

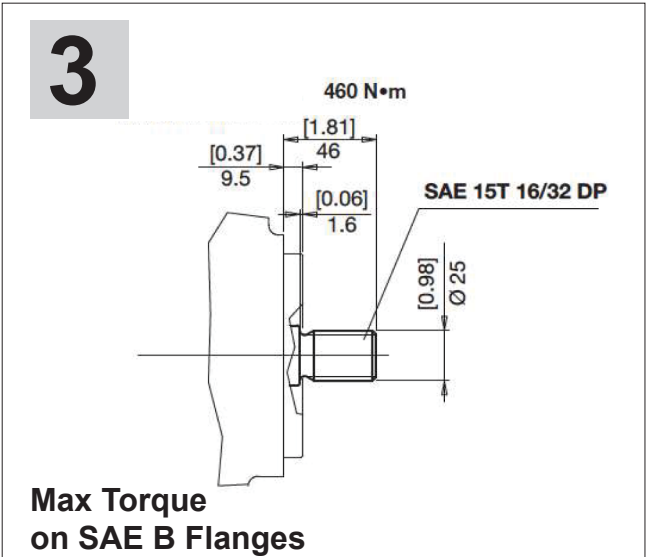
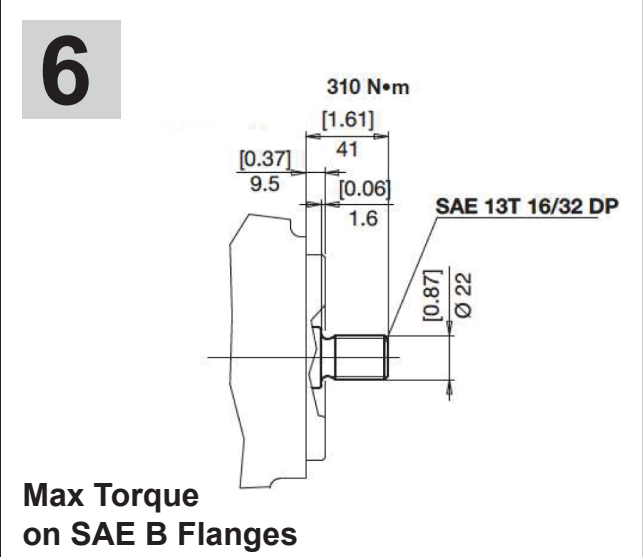
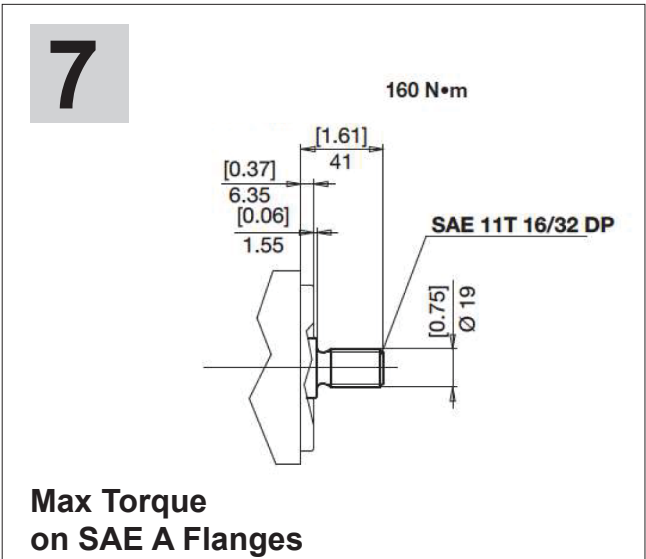
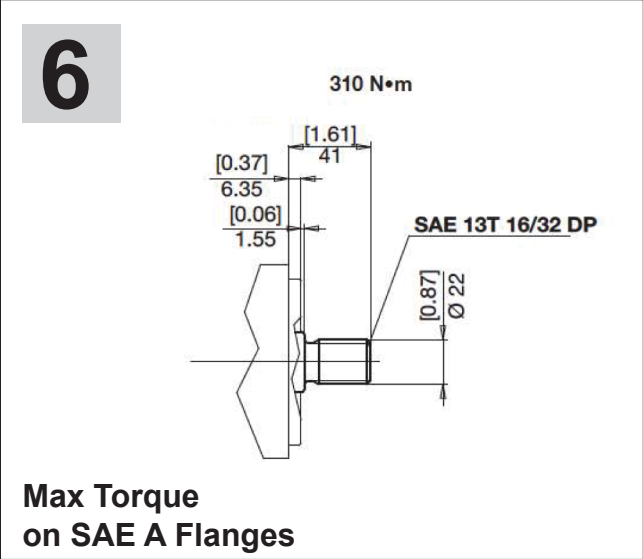
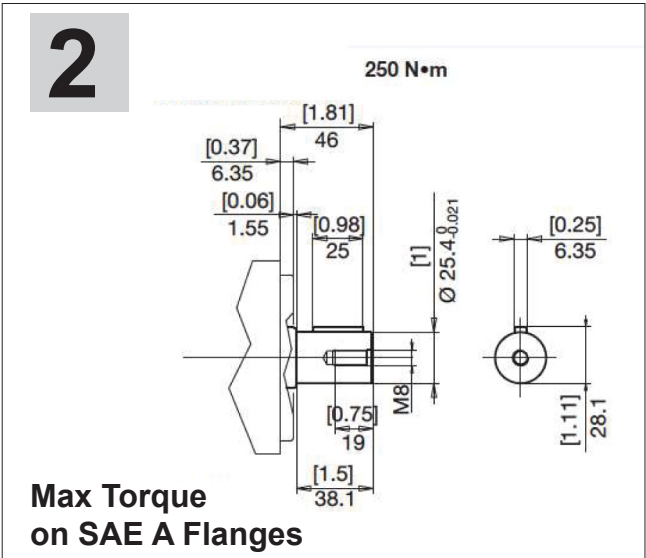
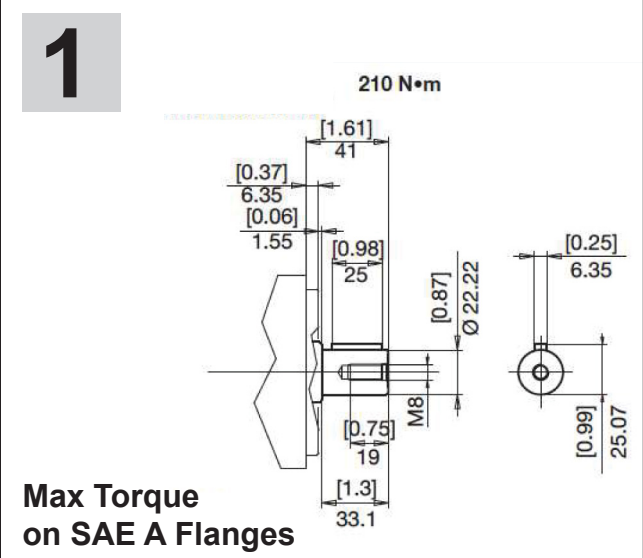


# M4MF Series



Axial Piston Motors Fixed Displacement

## SPLINE SHAFTS



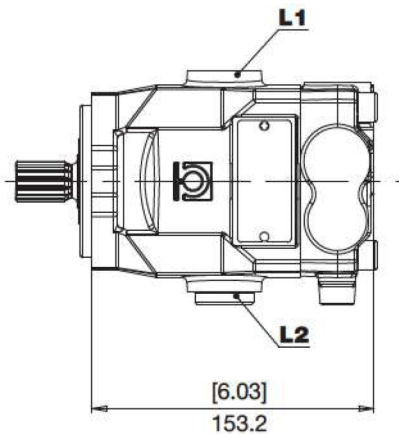
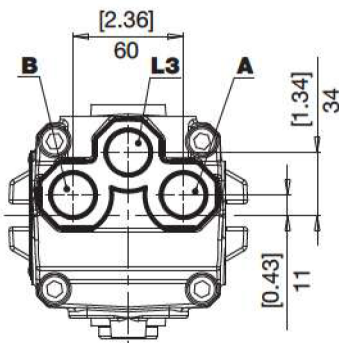
# M4MF Series

Axial Piston Motors Fixed Displacement

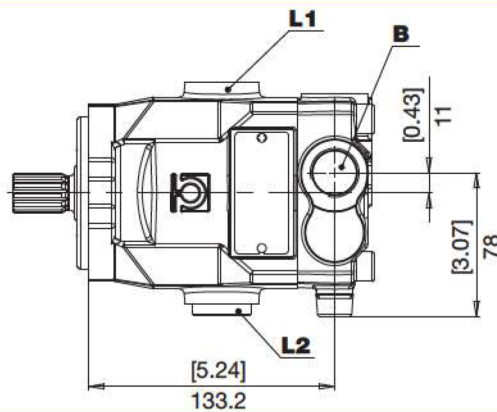
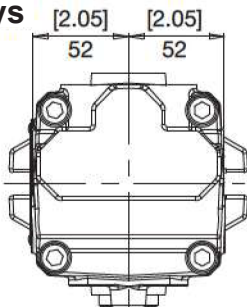


## POSITION OF PORTS

### 1 Rear Optional Rear Drain

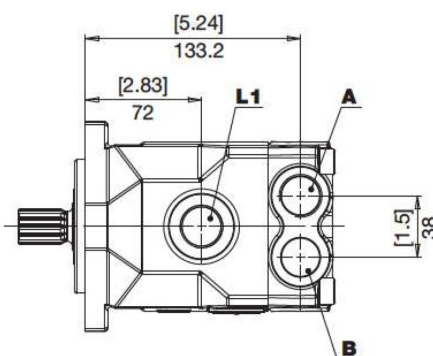
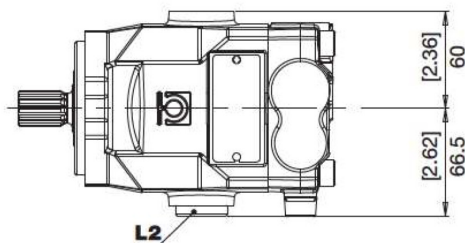


### 2 Opposite Sideways



### 3 Coupled Sideways

| DIRECTION | INPUT |
|-----------|-------|
| RIGHT     | A     |
| LEFT      | B     |

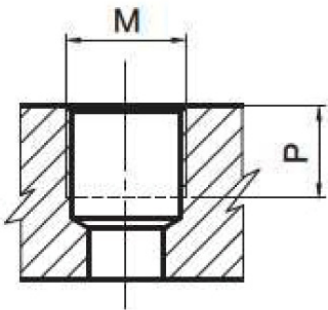


# M4MF Series

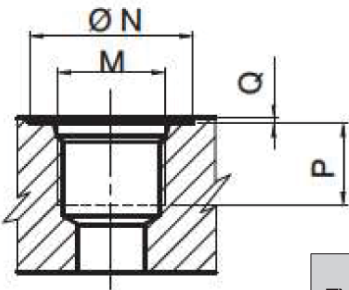


Axial Piston Motors Fixed Displacement

## PORTS



| TYPE | M             |    | P  |      |
|------|---------------|----|----|------|
|      |               | Nm | mm | in   |
| G6   | 3/4" GAS BSPP | 90 | 19 | 0.75 |



| TYPE | SIZE | N  |      | P  |      | Q   |      | M             |    |
|------|------|----|------|----|------|-----|------|---------------|----|
|      |      | mm | in   | mm | in   | mm  | in   |               | Nm |
| U6   | 3/4" | 41 | 1.81 | 19 | 0.75 | 0.3 | 0.01 | 1-1/16-12 UNF | 90 |

| TYPE | A - B<br>INLET / OUTLET | L1 - L2 - L3<br>DRAIN |
|------|-------------------------|-----------------------|
| R    | G6                      | G6                    |
| U    | U6                      | U6                    |

# M4MF Series

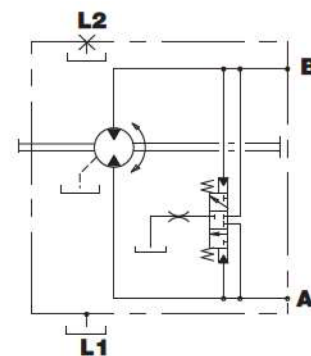
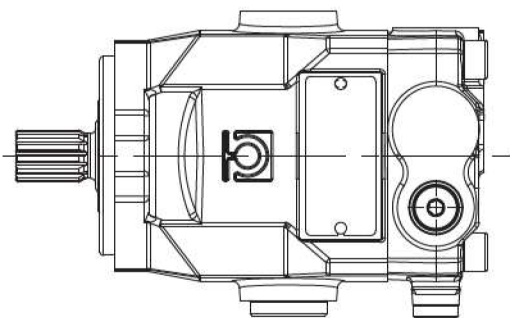
Axial Piston Motors Fixed Displacement



## ACCESSORIES

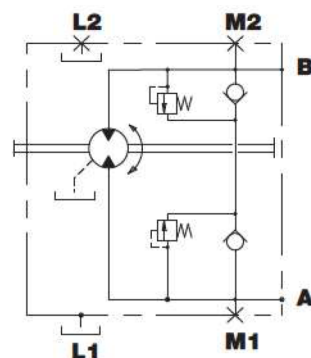
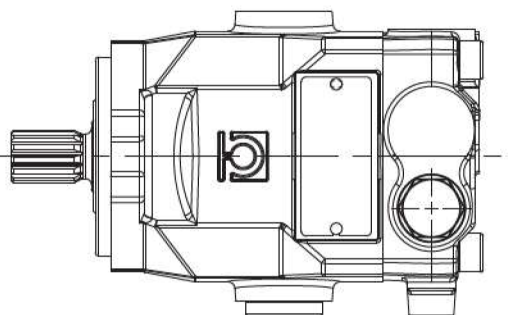
**V**

Flushing and Boost Valve (5 - 7 l/min)



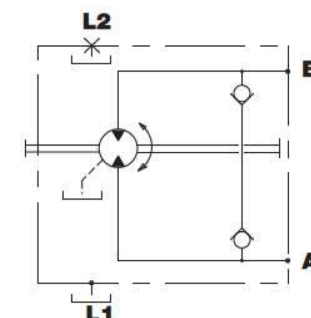
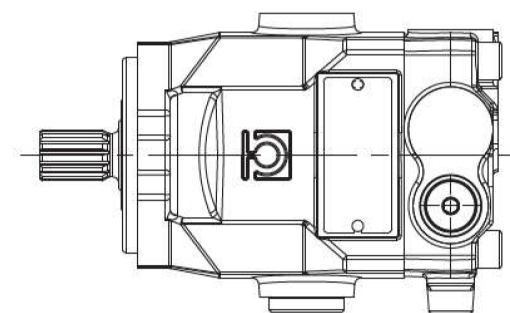
**M**

Pressure Limiter and Anticavitation Valve



**A**

Anticavitation Valve



# M4MF Series



Axial Piston Motors Fixed Displacement

## HOW TO ORDER

MODEL CODE

|   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|   |   |   |   |   |   |   |   |   |    |

### 1 - SERIES

|              |                                         |
|--------------|-----------------------------------------|
| <b>M4 MF</b> | Axial piston motors, fixed displacement |
|--------------|-----------------------------------------|

### 2 - DISPLACEMENT

|           |                                                                    |
|-----------|--------------------------------------------------------------------|
| <b>21</b> | Displacement 21 cm <sup>3</sup> / rev (1.28 in <sup>3</sup> / rev) |
| <b>28</b> | Displacement 28 cm <sup>3</sup> / rev (1.71 in <sup>3</sup> / rev) |
| <b>37</b> | Displacement 37 cm <sup>3</sup> / rev (2.26 in <sup>3</sup> / rev) |

### 3 - FLANGE

|          |       |
|----------|-------|
| <b>A</b> | SAE A |
| <b>B</b> | SAE B |

### 4 - POSITION OF PORT

|          |                               |
|----------|-------------------------------|
| <b>1</b> | Users A - B Rear              |
| <b>2</b> | Users A - B Opposite sideways |
| <b>3</b> | Users A - B Coupled sideways  |

### 5 - DIRECTION OF ROTATION

|          |                |
|----------|----------------|
| <b>B</b> | Bi-Directional |
|----------|----------------|

### 6 - SHAFT PROFILE

|          |                                          |
|----------|------------------------------------------|
| <b>1</b> | Round Shaft Ø 22.22 (7/8")               |
| <b>2</b> | Round Shaft Ø 25.4 (1")                  |
| <b>3</b> | Male Splined Shaft Z15 16/32" d.p. (Std) |
| <b>6</b> | Male Splined Shaft Z13 16/32" d.p.       |
| <b>7</b> | Male Splined Shaft Z11 16/32" d.p.       |

### 7 - PORTS

|          |                |
|----------|----------------|
| <b>-</b> | Refer to chart |
|----------|----------------|

### 8 - ACCESSORIES

|          |                                           |
|----------|-------------------------------------------|
| <b>0</b> | No Accessories                            |
| <b>A</b> | Anticavitation Valve                      |
| <b>M</b> | Pressure Limiter and Anticavitation Valve |
| <b>P</b> | Rear Drainage                             |
| <b>V</b> | Flushing and Boost Valve                  |



# M4MF Series

Axial Piston Motors Fixed Displacement



## HOW TO ORDER Cont.

### 9 - VALVE SETTING

|          |                 |
|----------|-----------------|
| <b>0</b> | <b>No Valve</b> |
| <b>B</b> | <b>150 Bar</b>  |
| <b>D</b> | <b>180 Bar</b>  |
| <b>E</b> | <b>210 Bar</b>  |
| <b>G</b> | <b>250 Bar</b>  |
| <b>I</b> | <b>280 Bar</b>  |
| <b>L</b> | <b>300 Bar</b>  |
| <b>O</b> | <b>350 Bar</b>  |
| <b>P</b> | <b>400 Bar</b>  |
| <b>Q</b> | <b>420 Bar</b>  |
| <b>R</b> | <b>450 Bar</b>  |

### 10 - SPECIAL VERSIONS