

## Hydraulic Gear Motor Model GM-F20



The GM-F20 Gear Motor is constructed of an aluminum gear body and end plates and is available in 11 displacement sizes from 0.24 - 1.52 in<sup>3</sup>/rev (4 - 25 cm<sup>3</sup>/rev). The standard mounting flange is SAE "A" 2-bolt. The standard drive shaft is a 5/8" diameter straight shaft with a 5/32" key - other shaft options available as outlined in Ordering Example.

### Recommended working conditions:

FILTRATION: 25 micron or better  
OIL TEMP: -25° - 80° C (-12° - 175° F)

OIL VISCOSITY: 6 - 200 cSt  
AMBIENT -22° - 55° C (-8° - 130° F)

INLET PRESSURE: 12 - 32 psi absolute

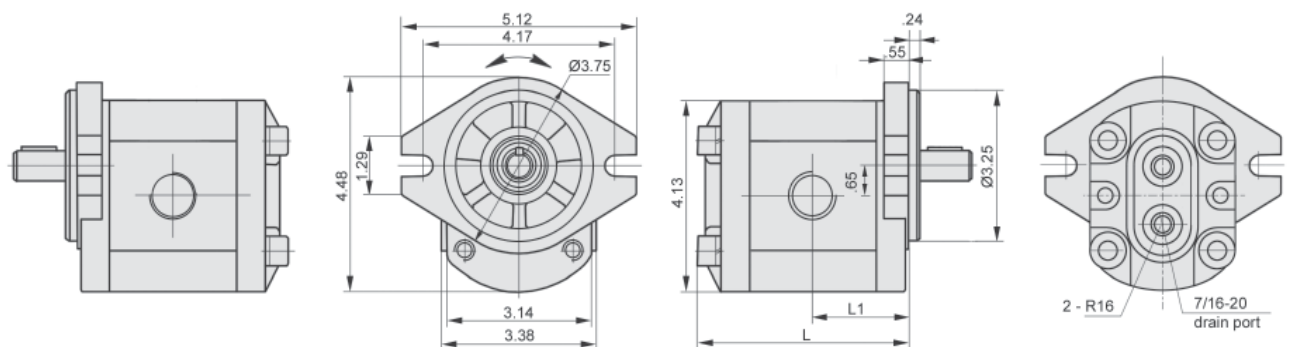
### Technical Specifications

| Model     | Displacement<br>in <sup>3</sup> (cm <sup>3</sup> ) / rev | Pressure - psi |      | Speed - rpm |      |     |
|-----------|----------------------------------------------------------|----------------|------|-------------|------|-----|
|           |                                                          | Rated          | Max  | Rated       | Max  | Min |
| GM-F20-04 | 0.24 (4)                                                 | 2900           | 3625 | 2000        | 4000 | 500 |
| GM-F20-06 | 0.36 (6)                                                 | 2900           | 3625 | 2000        | 4000 | 500 |
| GM-F20-08 | 0.48 (8)                                                 | 2900           | 3625 | 2000        | 3500 | 500 |
| GM-F20-10 | 0.61 (10)                                                | 2900           | 3625 | 2000        | 3500 | 500 |
| GM-F20-12 | 0.73 (12)                                                | 2900           | 3625 | 2000        | 3500 | 500 |
| GM-F20-14 | 0.85 (14)                                                | 2900           | 3625 | 2000        | 3500 | 500 |
| GM-F20-16 | 0.97 (16)                                                | 2900           | 3625 | 2000        | 3000 | 500 |
| GM-F20-18 | 1.09 (18)                                                | 2900           | 3625 | 2000        | 3000 | 500 |
| GM-F20-20 | 1.22 (20)                                                | 2900           | 3625 | 2000        | 3000 | 500 |
| GM-F20-23 | 1.40 (23)                                                | 2900           | 3625 | 2000        | 3000 | 500 |
| GM-F20-25 | 1.52 (25)                                                | 2900           | 3625 | 2000        | 3000 | 500 |

Flow Rate (gpm) = Displacement (in<sup>3</sup>/rev) X speed (rpm) / 231  
Volumetric efficiency % ≥93

### Installation Data

| Model     | L     | L1    | Ports  |        |
|-----------|-------|-------|--------|--------|
|           |       |       | In     | Out    |
| GM-F20-04 | 3.70" | 1.69" | SAE-12 | SAE-12 |
| GM-F20-06 | 3.87" | 1.77" | SAE-12 | SAE-12 |
| GM-F20-08 | 3.95" | 1.85" | SAE-12 | SAE-12 |
| GM-F20-10 | 4.12" | 1.89" | SAE-12 | SAE-12 |
| GM-F20-12 | 4.25" | 1.97" | SAE-12 | SAE-12 |
| GM-F20-14 | 4.35" | 2.00" | SAE-12 | SAE-12 |
| GM-F20-16 | 4.50" | 2.07" | SAE-12 | SAE-12 |
| GM-F20-18 | 4.60" | 2.16" | SAE-12 | SAE-12 |
| GM-F20-20 | 4.72" | 2.20" | SAE-12 | SAE-12 |
| GM-F20-23 | 4.84" | 2.28" | SAE-12 | SAE-12 |
| GM-F20-25 | 5.05" | 2.36" | SAE-16 | SAE-16 |



### Ordering Example:

| Category | Series | Displacement | Drive Shaft | Rotation |
|----------|--------|--------------|-------------|----------|
| GM       | F20    | 16           | P           | A        |

| Category           | Series              | Frame Size                          | Drive Shaft                                                                  | Rotation                                                                                |
|--------------------|---------------------|-------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| GM =<br>Gear Motor | F20 =<br>F20 Series | 04/06/08/10/12<br>14/16/18/20/23/25 | P = 5/8" dia. Straight<br>P1 = 3/4" dia. Straight<br>S9 = SAE 9-tooth Spline | C = Clockwise<br>A = Counter-Clockwise<br>B = Bidirectional*<br>(viewed from shaft end) |

\*Special Order