



# DRUM/BARREL PUMPS PF SERIES

## Sealless, High Performance

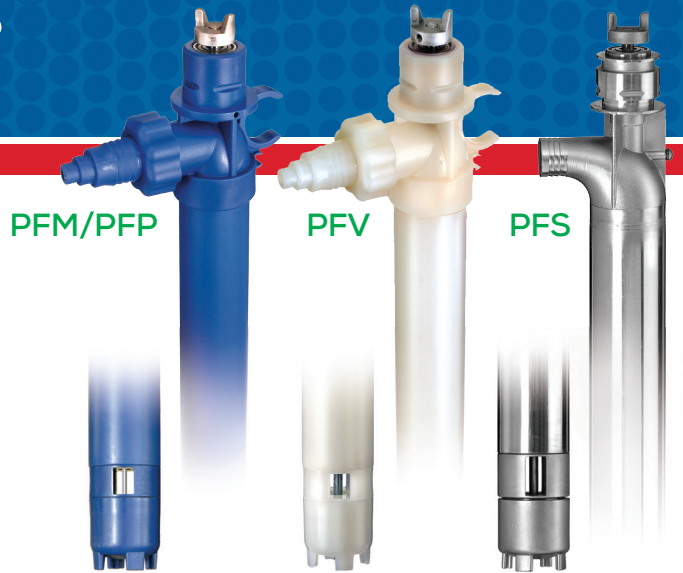
Unique double suction impeller provides high flow and high head. Handles acids, caustics, chemicals and flammables<sup>†</sup>.

- Polypropylene (PP), PVDF, 316SS tubes
- Interchangeable with motors
- Up to 2000 cP with M58P/M59P motors
- FDA-compliant (PFS only)



### Applications:

Acids, bases, solvents<sup>†</sup>, water treatment chemicals, cleaners, plating solutions, kidney dialysis solutions, diesel exhaust fluid (DEF)/AdBlue



Pat. US D658,273 S; Pat. US D657,849 S; Pat. ZL 201130042124.3; Pat. ZL 201130042107.X; OHIM Pat. 001839002-0003

## CONSTRUCTION SPECIFICATIONS

| Pump Model       | Construction Materials |                                | Tube Dia.<br>in (cm) | Discharge<br>Size & Type               | Hose Size<br>in (cm) | Max. Temp. |                  | Min. Temp. |     | Tube Lengths<br>(all models)  |
|------------------|------------------------|--------------------------------|----------------------|--|----------------------|------------|------------------|------------|-----|---|
|                  | Outer Tube             | Internals                      |                      |  |                      | °F         | °C               | °F         | °C  |   |
| PFM              | PP                     | PP, 316SS, FKM, PVDF, PTFE     | 2 (5.1)              | 1" Hose Barb<br>w/ Variable<br>Orifice | 1 (2.54)             | 160        | 71               | 35         | 1.7 | 27" (69 cm)<br>40" (102 cm)<br>48" (122 cm)<br>60" (152 cm)<br>72" (183 cm) |
| PFP              | PP                     | PP, Alloy 625, FKM, PVDF, PTFE |                      |  |                      | 160        | 71               | 35         | 1.7 |   |
| PFV <sup>1</sup> | PVDF                   | PVDF, Alloy 625, FKM, PTFE     |                      |  |                      | 120        | 49               | 35         | 1.7 |   |
| PFS              | 316SS                  | 316SS, FKM, ETFE, PTFE         |                      | 220                                    |                      | 105        | -20 <sup>2</sup> | -29        |     |   |

<sup>1</sup>PFV-72 = 115°F (46°C) <sup>2</sup>Perlast o-rings limit minimum temperature to 5° F (-15° C); Buna-FDA o-rings have same temperature range as FKM

<sup>†</sup>When pumping flammables or combustibles, use explosion proof electric or air drive motors on stainless steel tubes with static protection kit.

Note: ATEX versions of some pump models are available. Please see PF Series ATEX flyer or contact Finish Thompson.

## PERFORMANCE DATA

| Maximum Flow**        |                  | Maximum Head**     |               | Maximum Specific Gravity | Maximum Viscosity |        |
|-----------------------|------------------|--------------------|---------------|--------------------------|-------------------|--------|
| Electric<br>gpm (lpm) | Air<br>gpm (lpm) | Electric<br>ft (m) | Air<br>ft (m) |                          | Electric          | Air    |
| 40 (151)              | 22 (83)          | 80 (24)            | 38 (11.6)     | 1.8                      | 2,000 cP          | 330 cP |

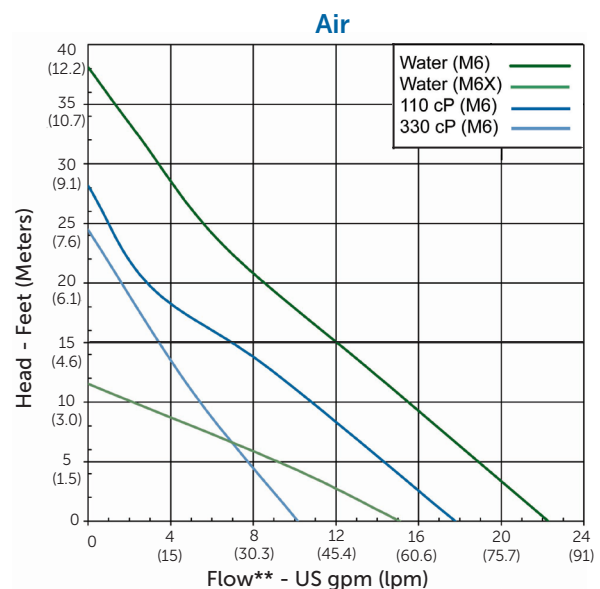
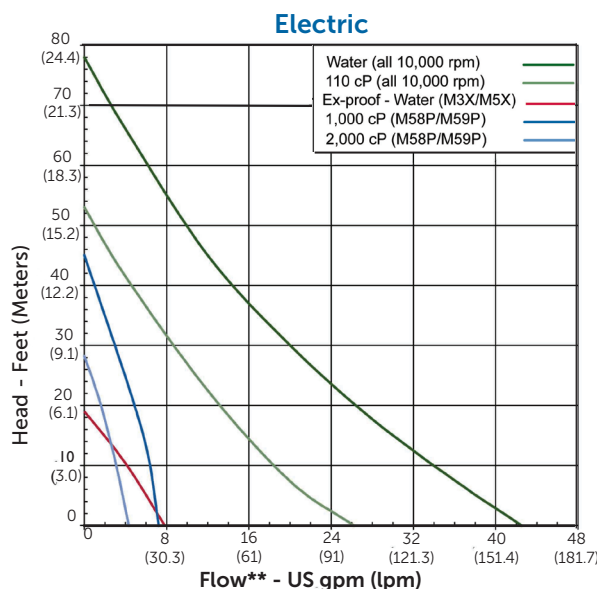
\*\*All testing performed with water at 68° F (20° C) in a full container with the discharge barb at maximum opening. Actual performance may vary by +/- 10%. Actual performance will decrease with increased fluid viscosity and specific gravity.

## VISCOSITY DATA

| Viscosity (cP)        | 100     | 250     | 500     | 1,000   | 2,000  |
|-----------------------|---------|---------|---------|---------|--------|
| Max Flow gpm (lpm)    | 24 (91) | 16 (61) | 11 (42) | 7 (26)  | 4 (15) |
| Max Head feet (meter) | 52 (16) | 51 (16) | 48 (15) | 45 (14) | 28 (9) |

Note: M3/M5V motor: 100-500 cP  
M58/M59P: 500-2,000 cP

Use the handy online Pump Selector at [www.finishthompson.com](http://www.finishthompson.com) for help choosing a pump.



# DRUM/BARREL PUMPS

## MOTOR DATA



ODP  
(M3V, M5V, M5V-US, M3V-UK)



TEFC  
(M3T, M5T, M58P, M59P)



Exp-Proof  
(M3X, M5X, M10X)



Air  
(M6, M6X)

| Model | Description | Certification | Electrical Requirements | Input W | Output W | RPM | Maximum Viscosity cP |
|-------|-------------|---------------|-------------------------|---------|----------|-----|----------------------|
|-------|-------------|---------------|-------------------------|---------|----------|-----|----------------------|

### ODP (Open Drip Proof), Splashproof, IP24 Motors

|         |   |     |                 |     |     |              |     |
|---------|---|-----|-----------------|-----|-----|--------------|-----|
| M3V     | Quick connects to pump without tools. Downtoast cooling system and double wall housing. Continuous duty, variable speed. 12 ft. (3.5 m) cord with integral circuit breaker. | CSA | 115VAC/50-60 Hz | 650 | 400 | 3,500-10,000 | 500 |
| M5V     |   | CE  | 230VAC/50-60 Hz | 650 | 400 | 3,500-10,000 | 500 |
| M5V-US* |   | CE  | 230VAC/50-60 Hz | 650 | 400 | 3,500-10,000 | 500 |
| M3V-UK  |   | CE  | 115VAC/50-60 Hz | 650 | 400 | 3,500-10,000 | 500 |

### TEFC (Totally Enclosed Fan Cooled), IP54 Motors

|      |  |     |                 |       |     |              |       |
|------|--|-----|-----------------|-------|-----|--------------|-------|
| M3T  | Continuous duty. A 12 ft. (3.5 m) cord with circuit breaker with manual reset                | CSA | 115VAC/50-60 Hz | 640   | 400 | 10,000       | 500   |
| M5T  |  | CE  | 230VAC/50-60 Hz | 640   | 400 | 10,000       | 500   |
| M58P | Continuous duty, variable speed. 12 ft. (3.5 m) cord with circuit breaker with manual reset. | -   | 115VAC/50-60 Hz | 1,000 | 800 | 5,000-10,000 | 2,000 |
| M59P |  | -   | 230VAC/50-60 Hz | 1,000 | 800 | 5,000-10,000 | 2,000 |

### Explosion Proof Motors

|       |  |     |                 |     |     |        |     |
|-------|--|-----|-----------------|-----|-----|--------|-----|
| M3X   | Suitable for use in hazardous areas, ideal for flammable liquids. TEFC housing. 12 ft. (3.5m) cord, internal circuit breaker. Continuous duty rated. | CSA | 115VAC/50-60 Hz | 230 | 75  | 5,000  | 10  |
| M5X** |  | CE  | 230VAC/50-60 Hz | 230 | 75  | 5,000  | 10  |
| M10X  |  | CE  | 230VAC/50-60 Hz | 640 | 400 | 10,000 | 500 |

### Air Motors\*\*\*

|     |  |    |                        |   |     |           |     |
|-----|--|----|------------------------|---|-----|-----------|-----|
| M6  | Lightweight. Operates from customer-supplied compressed air source. Variable speed. Muffler and control valve. | CE | 80-100 psi @ 15-32 cfm | - | 400 | 300-9,000 | 330 |
| M6X |  | CE | 80-100 psi @ 15-32 cfm | - | 600 | 300-6,000 | 330 |

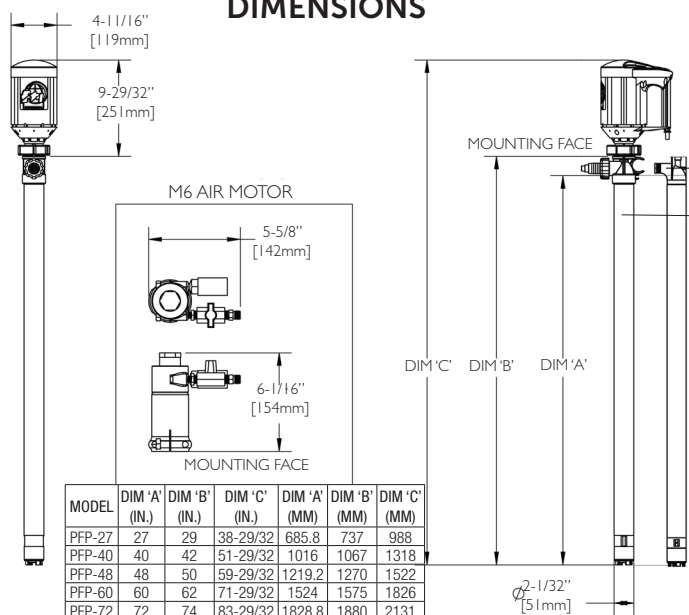
\*Suitable for 230V, 60 Hz. Includes a NEMA 6-15 plug.

\*\*Motor suitable for hazardous areas that do not require independent certification.

\*\*\*An air motor is a non-electrical device meaning possibility of explosion from igniting flammables/combustibles is reduced. Air motor performance will depend upon user's system setup.

Note: ATEX versions of some motors are available. Please see PF Series ATEX flyer or contact Finish Thompson for more information.

## DIMENSIONS



## ACCESSORIES

### Static Protection Kit



### Nozzles



### Discharge Spout



### Strainers



### Wall Mount Bracket

