

PF Series Drum Pumps



FINISH THOMPSON INC.

Sealless, High Performance Drum Pump

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

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

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



Tube Lengths

27" (69cm), 40" (102cm), 48" (122cm), 60" (152cm), 72" (183cm)

Construction Specifications

| Pump Model | Construction Materials | | Tube Dia. in (cm) | Discharge Size & Type | Hose Size in (cm) | Max. Temp. | | Min. Temp. | |
|------------|------------------------|---|----------------------|---------------------------------|----------------------|------------|-----|------------|-----|
| | Outer Tube | Internals | | | | °F | °C | °F | °C |
| PFM | Polypropylene | Polypropylene, 316SS, FKM, PVDF, PTFE | 2 (5.1) | 1" Hose Barb w/Variable Orifice | 1 (2.54) | 160 | 71 | 35 | 1.7 |
| PFP | Polypropylene | Polypropylene, Alloy 625, FKM, PVDF, PTFE | | | | 160 | 71 | 35 | 1.7 |
| PFV | PVDF | PVDF, Alloy 625, FKM, PTFE | | | | 120 | 49 | 35 | 1.7 |
| PFS | 316SS | 316SS, FKM, ETFE, PTFE | | | | 220 | 105 | -20 | -29 |

†PFV-72 = 115°F (46°C)

‡Perlast o-rings limit minimum temperature to 5° F (-15° C); Buna-FDA o-rings have same temperature range as FKM

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

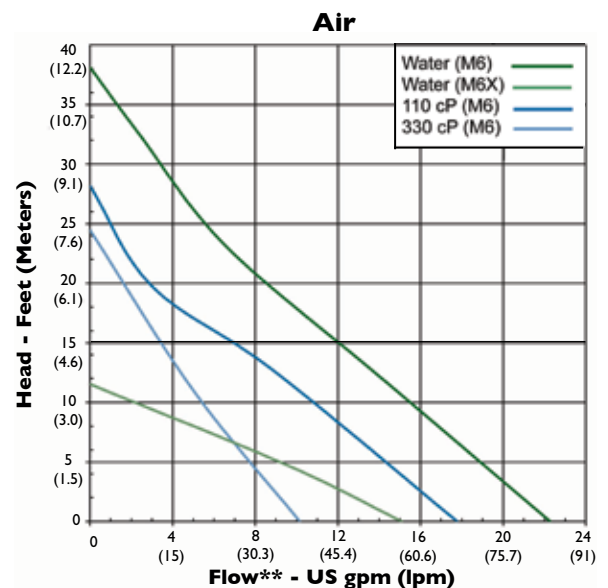
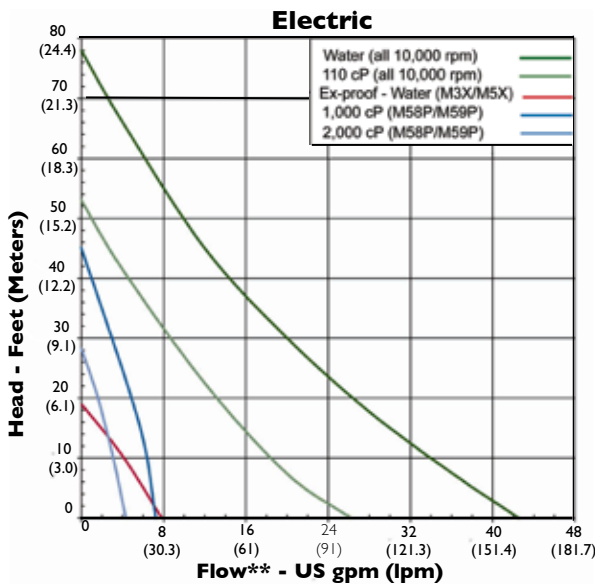
Performance Data

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

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 (15) | 48 (14) | 45 (14) | 28 (9) |

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



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

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

**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.

Need help choosing a pump? Use the handy online Pump Selector at www.finishthompson.com.





| 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. Downdraft cooling system and double wall housing. Continuous duty, variable speed. 12 ft. (3.5 m) cord with plug and 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 plug and 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 plug and 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. 12ft. (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***

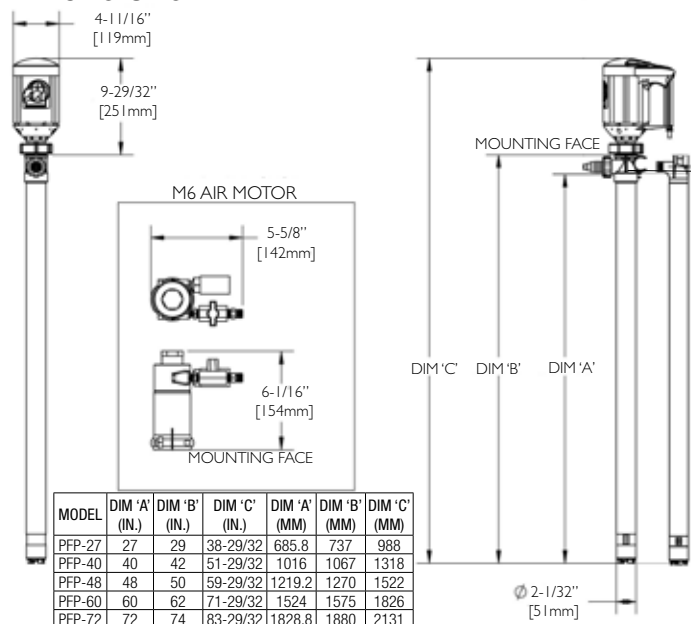
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|-----|--|----|------------------------|---|-----|-----------|-----|
| M6 | Lightweight. Operates from customer-supplied compressed air source. Variable speed. Muffler and control valve. | CE | 80-100 psi @ 15-32 cfm | - | 400 | 300-9,000 | 330 |
|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



Wall Mount Bracket



Strainers



Discharge Spout

