

HIGH PERFORMANCE, VARIABLE SPEED DRUM PUMP MOTORS



Features:

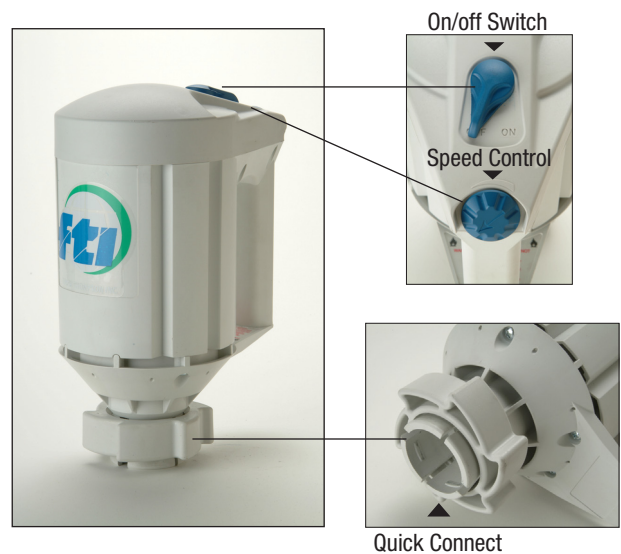
- 650 watt continuous duty motor
- Infinitely variable electronic speed control
- 3,500 - 10,000 rpm speed
- Splash-proof, IP24 design
- Quick connection of motor to pump tube with unique collet design - no tools required
- Integral motor overload – moving switch to off position automatically resets overload
- Double wall thermoplastic motor housing reduces noise and vibration
- 115V or 230V, 50/60 Hz models for worldwide operation
- and approvals
- RoHS Compliant
- 12 foot (3.5 m) cord with plug
- For use on all PF, TB and TBP Series pump tubes
- Made in the U.S.A.



P with 3V motor

Model	Part Number	Electrical Requirements	Plug Type
5V	106658	230 VAC/50-60 Hz	CEE7/4

Pump Model	Max. Flow		Max. Head		Max. Viscosity	Max. SG
	gpm	lpm	ft.	m	cP	
PF	40	151	80	24	500	1.83
TB	20	75.7	28	8.53	200	1.4
TBP	20	75.7	39.5	12	200	1.4



DRUM/BARREL PUMPS PF SERIES

Sealless, High Performance

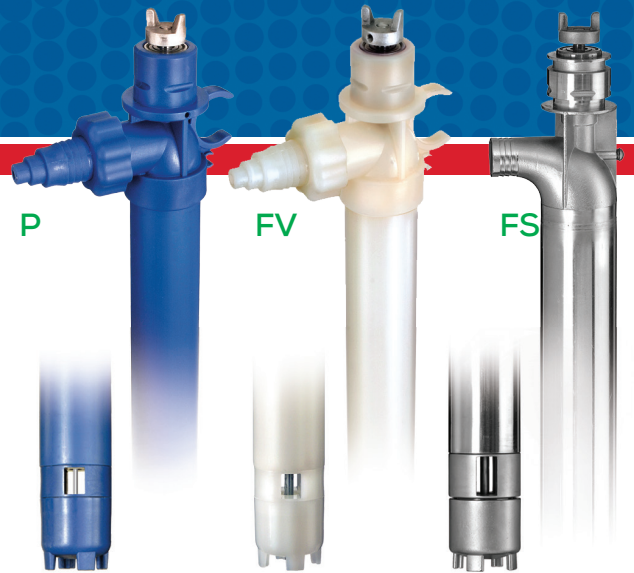
Unique double suction impeller provides high flow and high head. Handles acids, caustics, chemicals and flammables[†].

- Polypropylene (PP), 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



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. in (cm)	Discharge Size & Type	Hose Size in (cm)	Max. Temp.		Min. Temp.		Tube Lengths (all models)
	Outer Tube	Internals				°F	°C	°F	°C	
PM	PP	PP, 316SS, FKM, PVDF, PTFE	2 (5.1)	1" Hose Barb w/ Variable Orifice	1 (2.54)	160	71	35	1.7	27" (69 cm) 40" (102 cm) 48" (122 cm) 60" (152 cm) 72" (183 cm)
PP	PP	PP, Alloy 625, FKM, PVDF, PTFE				160	71	35	1.7	
PV ¹	PVDF	PVDF, Alloy 625, FKM, PTFE				120	49	35	1.7	
PS	316SS	316SS, FKM, ETFE, PTFE		220		105	-20 ²	-29		
				1" Hose Barb						

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

[†]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 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

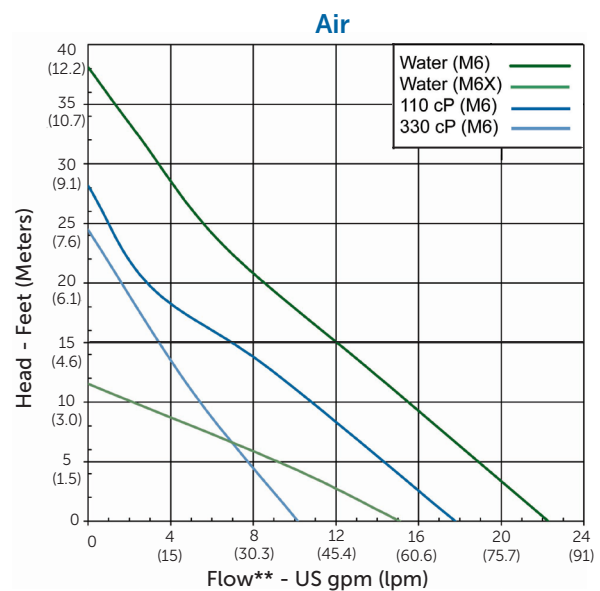
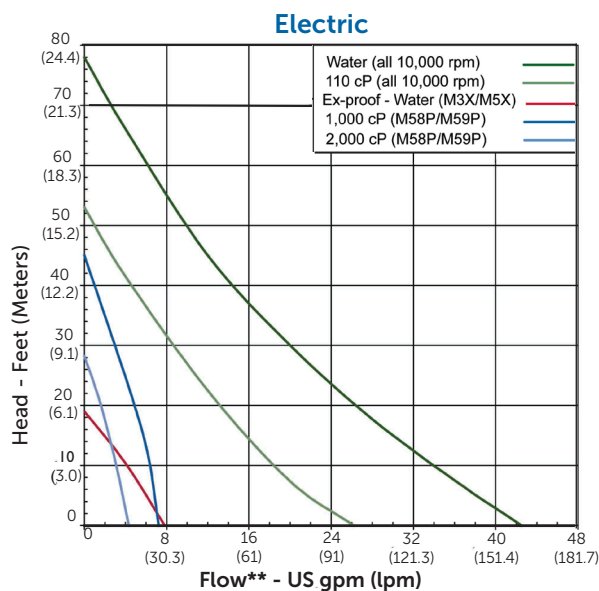
**All testing performed with water at 68° F (20° C) in a full container with the discharge barb at maximum opening. Actual performance may vary by +/- 10%. Actual performance will decrease with increased fluid viscosity and specific gravity.

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)

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

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



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
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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

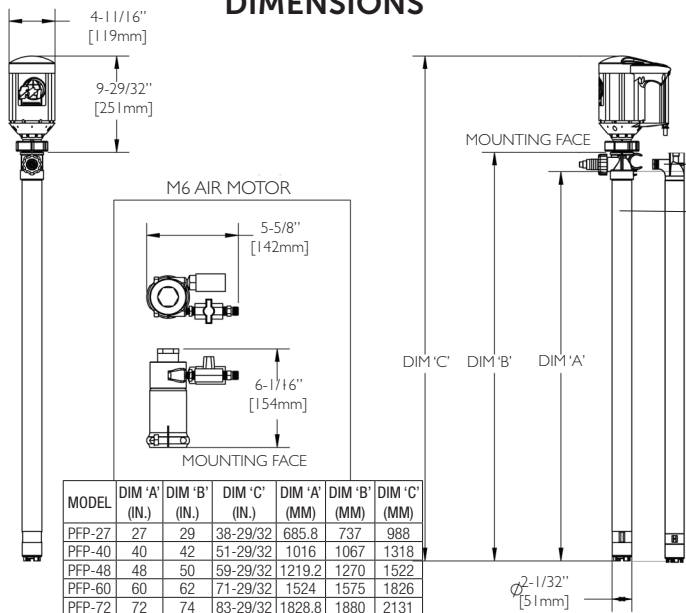
*Suitable for 230V, 60 Hz. Includes a NEMA 6-15 plug.

**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

