PORTABLE FLUID TRANSFER SOLUTIONS **DRUM/BARREL PUMPS**





PF SERIES PUMP TUBES

Sealless, High Performance

Unique double suction impeller provides high flow and high head. Sealless design improves reliability. Model PFS offers FDA-compliant material and ATEX certified options.



APPLICATIONS

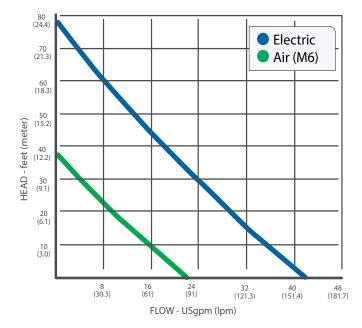
Acids, bases, solvents[†], flammables[†], water treatment chemicals, cleaners, plating solutions, kidney dialysis solutions, sanitary, diesel exhaust fluid (DEF)/AdBlue

PF SERIES SPECIFICATIONS

- Maximum flow*: up to 40 gpm (151 lpm)
- Maximum head*: up to 80 ft (24 m)
- · Maximum temperature:

-Polypropylene 160° F (71° C) -PVDF** 120° F (49° C) -316SS 220° F (105° C)

- Maximum specific gravity: 1.8
- Maximum viscosity: up to 2,000 cP with electric motor
 up to 330 cP with air motor
- 2 in (5.1 cm) tube diameter
- 1 in (2.5 cm) discharge
- Pat. US D658, 274S; Pat. ZL 201130042124.3; OHIM Pat. 001839002-0003



See MOTOR DATA pages for applicable motor models.

'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%.

**PFV-72 = 115 $^{\circ}$ F (46 $^{\circ}$ C) maximum temperature

Actual performance will decrease with increased fluid viscosity and specific gravity.



TUBE LENGTHS

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



THREADED FOOT

Heavy duty threaded foot prevents breakage.



PUMP	CONSTRUCTION MATERIALS						
MODEL	OUTER TUBE	INTERNALS					
PFM	Polypropylene	316SS, PP, FKM, PVDF. PTFE					
PFP	Polypropylene	Alloy 625, PP, FKM, PVDF, PTFE					
PFV	PVDF	Alloy 625, FKM, PVDF . PTFE					
PFS	316SS	316SS, FKM, ETFE, PTFE					

EF SERIES PUMP TUBES

Sealless, Best Value

This pump provides an economical choice for light duty transfer. Ideal replacement for hand pumps. ATEX certified options available.



APPLICATIONS

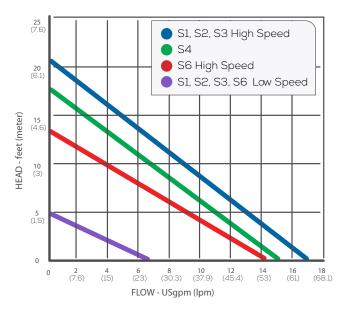
Light acids and bases, solvents[†], flammables[†], plating solutions, sodium hypochlorite, cleaners, coolants, diesel exhaust fluid (DEF)/AdBlue

EF SERIES SPECIFICATIONS

- Maximum flow*: up to 17 gpm (64.4 lpm)
- Maximum head*: up to 20 ft (6.1 m)
- · Maximum temperature:

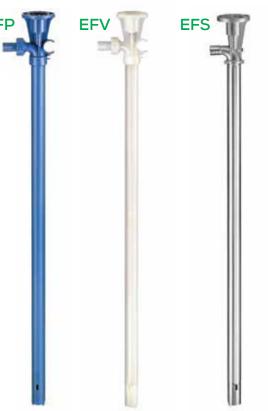
-Polypropylene 150° F (66° C) -PVDF 160° F (71° C) -316SS 212° F (100° C)

- Maximum** specific gravity: 1.6
- Maximum** viscosity: 300 cP with electric/air motor 100 cP with 12V motor
- 1-1/4 in (3.2 cm) tube diameter (EFP, EFS)
 1-5/16 in (3.3 cm) tube diameter (EFV)
- 3/4 in (1.9 cm) discharge
- Pat. US D658,273 S; Pat. US D657,849 S; Pat. ZL 201130042121.X; Pat. ZL 201130042107.X; OHIM Pat. 001839002-0002; OHIM Pat.001839002-0001



See MOTOR DATA pages for applicable motor models.

 $tWhen\ pumping\ flammables\ or\ combustibles,\ use\ air\ drive\ motors\ on\ stainless\ steel\ tubes\ with\ static\ protection\ kit.$



TUBE LENGTHS

EFP/EFV: 16" (41cm), **27"** (69cm), **40"** (102cm), **48"** (122cm), **54"** (137 cm)

EFS: 16" (41cm), 27" (69cm), 40" (102cm), 48" (122cm)



BUILT-IN STRAINER

Prevents solids from entering the tube and damaging the pump. (EFP/EFV only)



PUMP	CONSTRUCTION MATERIALS						
MODEL	OUTER TUBE	INTERNALS					
EFP	Polypropylene	316SS, FKM, PTFE, PP					
EFV	Pure PP/PVDF	Alloy 625, FKM, PTFE, ETFE, PP					
EFS	316SS	316SS, FKM, PTFE, ETFE					

^{*}All testing performed with water at $68^{\circ F}$ (20° C). Actual performance can vary by +/- 10%. Actual performance will decrease with increased fluid viscosity and specific gravity.

^{**}Maximum specific gravity is dependent on fluid viscosity; maximum fluid viscosity is dependent upon specific gravity.

TT SERIES PUMP TUBES

Sealed, Medium Viscosity/Flow

Sealed pump with PTFE screw-type lifting compressors. Ideal for liquids containing small particulate or solvents. Model STTS constructed of FDA-compliant materials.

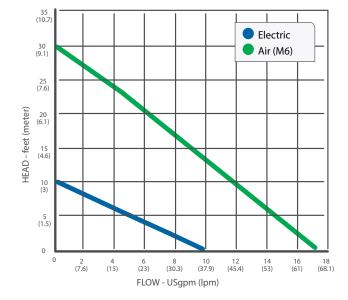


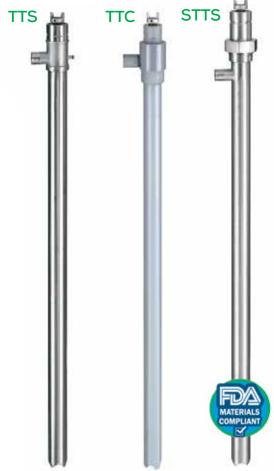
APPLICATIONS

Inks, paints, solvents[†], sanitary, sodium hypochlorite, food products

TT SERIES SPECIFICATIONS

- Maximum flow*: up to 16 gpm (61 lpm)
- Maximum head*: up to 30 ft (9 m)
- Maximum temperature: 150° F (66° C)
- Maximum specific gravity: 1.8
- Maximum viscosity: up to 500 cP with electric motor
 up to 2,000 cP with air motor
- 1-1/2 in (3.8 cm) tube diameter (TTS, STTS) 1-5/8 in (4.1 cm) tube diameter (TTC)
- 1 in (2.5 cm) discharge





TUBE LENGTHS

TTC, TTS - 27" (69cm), 40" (102cm), 48" (122cm) STTS - 40" (102cm)





PTFE bottom bearing/strainer prevents potentially damaging large solids from entering the pump.

See MOTOR DATA pages for applicable motor models.

tWhen 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). Actual performance can vary by +/- 10%. Actual performance will decrease with increased fluid viscosity and specific gravity.

PUMP MODEL	CONSTRUCTION MATERIALS					
FOMF MODEL	OUTER TUBE	INTERNALS				
TTS	316SS	316SS, PTFE				
TTC	CPVC	Alloy 625, PTFE				
STTS	316SS	316SS, PTFE				

BT/HVDP PUMP TUBES

High Viscosity/High Head

BT Series - High viscosity sealed design with PTFE screw-type lifting compressors for liquids up to 15,000 cP

HVDP Series - Progressive cavity, positive displacement, mechanically sealed pump for high viscosity liquids up to 20,000 cP (HR model - *pictured*) or 100,000 cP (LR model). FDA-compliant material options.



APPLICATIONS

Oils, resins, solvents[†], waxes, adhesives, gear lube, glycerin, silicone, lotions, polymers, honey, juice concentrate, hair and bath gel, corn syrup, etc.

BT & HVDP SERIES SPECIFICATIONS

- Maximum flow*: up to 10 gpm (38 lpm)
- Maximum head*:

BTS 200 ft (61 m) HVDP over 300 ft (91 m)

• Maximum temperature:

BTS 200° F (93° C) HVDP 180° F (82° C)

- Maximum specific gravity: 1.8
- Maximum viscosity:

BTS 15,000 cP HVDP-HR 20,000 cP HVDP-LR 100,000 cP

- 2 in (5.1 cm) tube diameter
- BTS discharge: 1-1/2 in (3.8 cm)
 HVDP discharge: 1-1/2 in (3.8 cm) or
 2 in (5 cm)

BT SCREW-TYPE LIFTING COMPRESSOR



HVDP PROGRESSIVE CAVITY
POSITIVE DISPLACEMENT
Designed for high viscosities.



HVDP 1

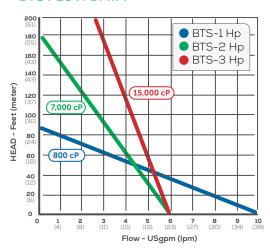
BTS

TUBE LENGTHS

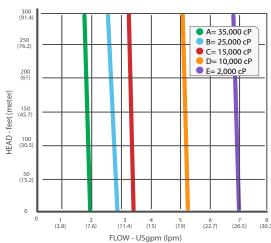
BTS: 40"(102cm)

HVDP: 27"(69cm), 40"(102cm), 48"(122cm)

BTS FLOW DATA



HVDP FLOW DATA





UNIQUE CAMLOCK FEATUREFor quick disassembly of the HVDP.

See MOTOR DATA pages for applicable motor models.

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

*Actual performance can vary by +/- 10%. Actual performance will decrease with increased fluid viscosity and specific gravity.

PUMP	CONSTRUCTION MATERIALS					
MODEL	OUTER TUBE	INTERNALS				
BTS	316SS	PTFE, 316SS				
HVDP	316SS	316SS, Buna N, FKM, PTFE				

TB SERIES PUMP TUBES

Sealed, Lightweight Economy Drum Pump

Lightweight pumps suitable for low to medium viscosity mild corrosives, solvents, and chemicals. Fits smaller bung openings.



APPLICATIONS

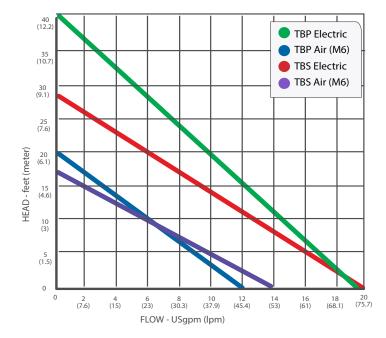
Acids, bases, solvents[†], water treatment chemicals, bleach, swimming pool chemicals, cleaners

TB SERIES SPECIFICATIONS

- Maximum flow*: up to 20 gpm (75.7 lpm)
- Maximum head*:

TBS 28ft (8.53 m) TBP 39.5 (12 m)

- Maximum temperature: 150° F (66° C)
- Maximum specific gravity: 1.4
- Maximum viscosity: 200 cP
- 1-1/2 in (3.8 cm) tube diameter (TBS) 1-21/32 in (4.1 cm) tube diameter (TBP)
- 1 in (2.5 cm) discharge



See MOTOR DATA pages for applicable motor models.

†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). Actual performance can vary by +/- 10%. Actual performance will decrease with increased fluid viscosity and specific gravity.



TUBE LENGTHS

TBS 27" (69cm), 40" (102cm), 48" (122cm) TBP - 40" (102cm)





The TBP variable flow barb allows flow to be increased by removing steps on barb.



PUMP	CONSTRUCTION MATERIALS						
MODEL	OUTER TUBE INTERNALS						
TBS	316SS	316SS, PTFE					
TBP	Pure polypropylene	Pure PVDF, Alloy 625, PTFE					

TM SERIES PUMP MIXER

Sealed, Light/Medium Viscosity

Sealed mixer with 4-blade turbine mixing/blending capability. Ideal for mixing drums with settled materials.



APPLICATIONS

Dyes, inks, paints, stains, mild corrosives, solvents[†], flammables[†]

TM SERIES SPECIFICATIONS

Maximum circulation: 14 gpm (53 lpm)
Maximum temperature: 200° F (93°C)

Maximum specific gravity: 1.8
Maximum viscosity: 1000 cP
2 in (5.1 cm) tube diameter

• 1 in (2.5 cm) discharge

• Fluid is pulled into the top of the mixer tube and is discharged under pressure out of the bottom in a continuous blending cycle.

• Top-to-bottom mixing action allows rapid suspension of settled solids.



9

TMS

TUBE LENGTHS

40" (102cm)



TURBINE
Provides high intensity
mixing and suspension of
settled solids.



See MOTOR DATA pages for applicable motor models.

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

PUMP MODEL	CONSTRUCTION MATERIALS					
	OUTER TUBE	INTERNALS				
TMS	316SS	316SS, PTFE				

MOTOR DATA For Drum/Barrel Pumps











M3V, M5V, M5V-US, M3V-UK

S1, S2, S3, S6

M3T, M5T, M7T, M8T

M15, M16, M17

M58H, M59H, M58P, M59P

ODP (OPEN DRIP PROOF), SPLASHPROOF, IP24 MOTORS

				INPUT	OUTPUT			
MODEL	DESCRIPTION	CERTIFICATION	ELECTRICAL REQUIREMENTS	W	W	RPM	MAXIMUM VISCOSITY cP	PUMP SERIES
M3V	Quick connects to pump without tools.	CSA	115VAC/50-60 Hz	650	400	3,500-10,000	500	PF, TB
M5V	Downdraft cooling system and double wall housing. Continuous duty, variable speed. 12 ft. (3.5 m) cord and integral circuit breaker included.	CE	230VAC/50-60 Hz	650	400	3.500-10,000	500	PF, TB
M5V-US*		CE	230VAC/50-60 Hz	650	400	3,500-10,000	500	PF, TB
M3V-UK		CE	115VAC/50-60 Hz	650	400	3,500-10,000	500	PF, TB
S1	Ergonomic, lightweight design with down-	CSA	115VAC/60 Hz	230	110	8,000 / 14,000	300	EF
S2	draft cooling. Continuous duty, dual speed, double insulated. 12 ft. (3.5 m) cord and	CE	230VAC/50-60 Hz	230	110	8,000 / 14,000	300	EF
S3	manual reset circuit breaker included.	CE	115VAC/50-60 Hz	230	110	8,000 / 14,000	300	EF
S6**	Lightweight cordless design. Built-in rechargeable lithium ion battery. Dual speed. Overload protection. Charging jack w/ flip cover.	CE	12V (10.8V w/ work load)	150	100	8,000/12,000	100	EF

TEFC (TOTALLY ENCLOSED FAN COOLED), IP54 MOTORS

MODEL	DESCRIPTION	CERTIFICATION	ELECTRICAL	INPUT	OUTPUT	RPM	MAXIMUM	PUMP
MODEL	DESCRIPTION	CERTIFICATION	REQUIREMENTS	W	W	RPM	VISCOSITY cP	SERIES
МЗТ		CSA	115VAC/50-60 Hz	640	400	10,000	500	PF, TB
M5T	Molded plastic housing features integral handle. Continuous duty. A 12 ft. (3.5 m)	CE	230VAC/50-60 Hz	640	400	10,000	500	PF, TB
M7T	cord and circuit breaker with manual reset are provided.	CSA	115VAC/50-60 Hz	500	180	2,850/3,450	500	TT, TM
M8T		CE	230VAC/50-60 Hz	500	180	2,850/3,450	500	TT, TM
M15			230/460V/60 Hz	t	0.75 kW	3,450	800	BT
M16	Continuous duty. A 12 ft. (3.5 m) cord is provided.	***	230/460V/60 Hz	t	1.5 kW	1,725	7,000	BT
M17	, , , , , , , , , , , , , , , , , , ,		230/460V/60 Hz	t	2.2 kW	1,725	15,000	BT
M58H			115VAC/50-60 Hz	1000	800	5,000-10,000	20,000	HVDP
M59H	Molded plastic housing features integral handle. Continuous duty, variable speed. A 12 ft. (3.5 m) cord and circuit breaker with manual reset is provided.		230VAC/50-60 Hz	1000	800	5,000-10,000	20,000	HVDP
M58P			115VAC/50-60 Hz	1000	800	5,000-10,000	2,000	PF, TB
M59P	with managereset is provided.		230VAC/50-60 Hz	1000	800	5,000-10,000	2,000	PF, TB

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

Note: Maximum viscosity can vary by pump series.

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



^{**}U.S. Patent No. 9,273,697

^{***}Carries independent testing laboratory approval.

[†] Input power for induction motors will vary by manufacturer.

MOTOR DATA For Drum/Barrel Pumps



EXPLOSION PROOF MOTORS

		CERTIFICATION	ELECTRICAL	INPUT	OUTPUT		MAXIMUM	PUMP
MODEL	DESCRIPTION		REQUIREMENTS	W	W	RPM	VISCOSITY cP	SERIES
МЗХ	Explosion proof design suitable for use in hazardous areas and ideal for	CSA	115VAC/50-60 Hz	230	75	5,000	10	PF
M5X*	applications with flammable liquids. The TEFC housing protects the motor	CE	230VAC/50-60 Hz	230	75	5,000	10	PF
M7X	internals from dust, corrosive vapors and water splashes. A 12ft. (3.5m)	CSA	115VAC/50-60 Hz	500	180	2,850-3,450	400	TT, TM
M10X	cord and internal circuit breaker are provided. Continuous duty rated.	CE/ATEX Ex II 2G Ex IIA T4	230VAC/50-60 Hz	640	400	10,000	500	PF, TB

AIR MOTORS **

MODEL	DESCRIPTION	CERTIFICATION	AIR	OUTPUT	DDM	MAXIMUM	PUMP
MODEL	DESCRIPTION	CERTIFICATION	REQUIREMENTS	W	RPM	VISCOSITY cP	SERIES
M6/M6A		CE/ ATEX Ex II 5GDc +1CTa+40C [‡]	80-100 psi @15-32 cfm	400	300-9,000	1,500 [†]	PF, TT, TB
M6X/M6XA		CE/ ATEX Ex II 5GDc +1CTa+40C [‡]	80-100 psi @15-32 cfm	600	300-6,000	2,000 [†]	PF, TT, TB, TM
M18	Lightweight, easy to handle yet powerful. Operates from		100 psi @ 40-70 cfm	750	300-3,000	800	BT
M19	customer-supplied compressed air source.	CE	100 psi @ 80-120 cfm	1500	300-3,000	7,000	BT
M20	Variable speed via supplied control valve. Motors are		100 psi @ 120-170 cfm	2200	300-2,500	15,000	BT
M65	provided with muffler and control valve.	CE	100 psi @ 25 cfm	560	300-3,000	15,000	HVDP
M66		CE	100 psi @ 70 cfm	1000	300-3,000	100,000	HVDP
S4/S4A		CE/ CE/ATEX EX II 2 GDc T4+1C <ta<+40c<sup>‡</ta<+40c<sup>	40 psi @ 27 cfm	400	300 -11,000	300	EF

^{*}Motor suitable for hazardous areas that do not require independent certification.

‡M6A/M6XA/S4A motor models <u>only</u> are ATEX certified. M6/M6X/S4 models are CE certified. Maximum viscosity for PF Series is 330 cP. †Maximum viscosity can vary by pump series.

^{**}An air motor is a non-electrical device which means the possibility of explosion from igniting flammables or combustibles is reduced.

Air motor performance will depend upon user's compressor and system setup.

ACCESSORIES

Flow Meters

- Dispense precise amount of fluids from containers.
- Handles chemicals and corrosive liquids.
- Large LCD display in GPM or LPM, 20 cP maximum +/-1% accuracy and repeatability.
- All models are factory calibrated.
- Some models may be field calibrated.
- Batch control versions available.
- Corrosion resistant polypropylene or PVDF.
- Engineered connections for fast assembly to PFM, PFP and PFV drum pumps.





Discharge Tubing

Flexible tubing connects to the pump discharge. Available in PVC, reinforced PVC and special EPDM for Diesel Exhaust Fluid applications.

Strainers

Strainers attach to pump tubes preventing foreign objects from entering the pump.





Wall Mount Bracket

Allows pump to be stored in an upright position.

Drum Adapters

Secures the pump tube in the barrel's bung opening. Fits standard 2" NPT bung opening. Available in polypropylene, galvanized or stainless steel.



Chargers

Double insulated with LED charge status indicator for recharging S6 battery motor. Available in 115V with US plug, 230V with Euro plug or 12V for use in most vehicle outlets.



Static Protection Kit

Increases safety when transferring flammable or combustible liquids. Kit includes cross-linked polyethylene grounded hose, ground wire and clamps.





Air Hose

15 feet (4.6m) air hose assembly sold separately.

Filter/ Lubricator Assembly

Conditions compressed air by removing free moisture and solids. Also lubricates the air for longer air motor life.





Nozzles provide a convenient way to control liquid flow. Available in polypropylene, aluminum and stainless steel.

OTHER GREAT PRODUCTS FROM FINISH THOMPSON



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CENTRIFUGAL PUMPS



AFTERMARKET AODD PUMP REPLACEMENT PARTS



PREMIUM AODD PUMPS AVAILABLE 2016



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