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





PUMPING SOLUTIONS AROUND THE WORLD

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

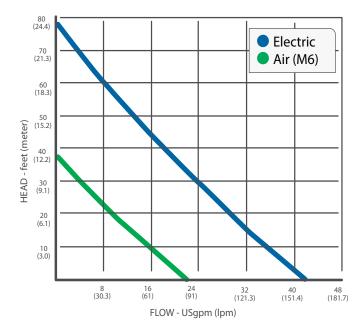
Acids, bases, solvents[†], flammables[†], water treatment chemicals, cleaners, plating solutions, kidney dialysis solutions, sanitary, diesel exhaust fluid (DEF)/AdBlue

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

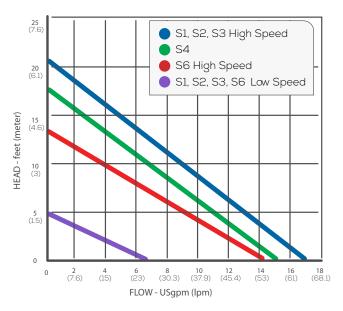
Light acids and bases, solvents[†], flammables[†], plating solutions, sodium hypochlorite, cleaners, coolants, diesel exhaust fluid (DEF)/AdBlue

EF SERIES SPECIFICATIONS

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

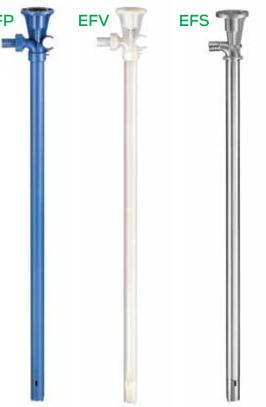
-Polypropylene 150° F (66° C) -PVDF 160° F (71° C) -316SS 212° F (100° C)

- 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 PUMPTUBES

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.

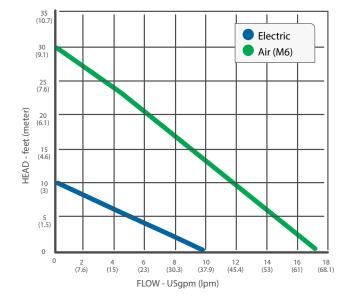


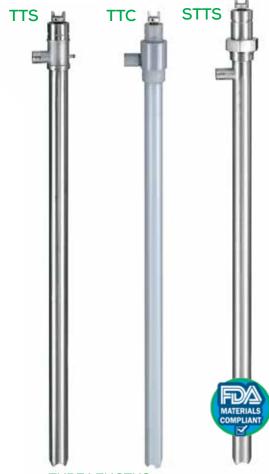
APPLICATIONS

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





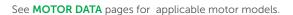
TUBE LENGTHS

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





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



†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.

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

Designed to allow passage of small solids.





HVDP 1

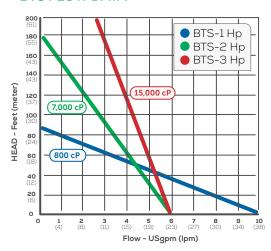
BTS

TUBE LENGTHS

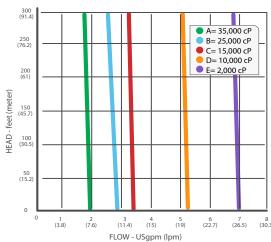
BTS: 40"(102cm)

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

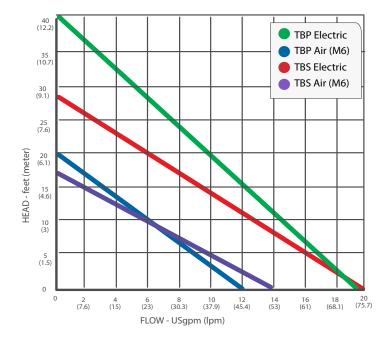
Acids, bases, solvents[†], water treatment chemicals, bleach, swimming pool chemicals, cleaners

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 - 40" (102cm)

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





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



PUMP	CONSTRU	CTION 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.



TUBE LENGTHS

40" (102cm)



TMS

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







S1, S2, S3, S6



M3T, M5T, M7T, M8T



M15, M16, M17



M73, M74, M75, M76

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	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	circuit breaker included.	CE	115VAC/50-60 Hz	650	400	3,500-10,000	500	PF, TB
S1	Ergonomic, lightweight design with downdraft cooling. Continuous duty,	CSA	115VAC/60 Hz	230	110	8,000 / 14,000	300	EF
S2	dual speed, double insulated. 12 ft.	C.F.	230VAC/50-60 Hz	230	110	8,000 / 14,000	300	EF
S3	(3.5 m) cord and manual reset circuit breaker included.	CE	115VAC/50-60 Hz	230	110	8,000 / 14,000	300	EF
S6*	Lightweight, cordless, dual speed, built- in rechargeable li-ion battery, 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) MOTORS

MODEL	DESCRIPTION	CERTIFICATION	ELECTRICAL	INPUT	OUTPUT	RPM	MAXIMUM VISCOSITY - P	PUMP
			REQUIREMENTS	W	W		VISCOSITY cP	SERIES
МЗТ	IP55. 12 ft. (3.5 m) cord with plug, downdraft cooling, & quick connection to pump without tools. "T" versions feature manual reset. TV versions feature variable speed, solid state overload protection, zero voltage release.	CSA	115VAC/60 Hz	1000	680	12,000	1000	PF, TB
M5T		CE	230VAC/50-60 Hz	1000	680	12,000	1000	PF, TB
M3TV		CSA	115VAC/60 Hz	1000	680	0-12,000	2000	PF, TB
M5TV		CE	230VAC/50-60 Hz	1000	680	0-12,000	2000	PF, TB
M7TV		CSA	115VAC/60 Hz	450	250	0-6,000	500	TT, TM
M8TV		CE	230VAC/50-60 Hz	450	250	0-6,000	500	TT, TM
M15	IP54. A 12 ft. (3.5 m) cord is provided.	Independent	230/460V/60 Hz	Varies by mfg.	0.75 kW	3,450	800	ВТ
M16		Testing Laboratory	230/460V/60 Hz		1.5 kW	1,725	7,000	ВТ
M17		Approval	230/460V/60 Hz		2.2 kW	1,725	15,000	BT
M73	IP55. 12 ft. (3.5 m) cord with plug. Sin-	CSA	115V/1ph/60 Hz	1000 W	680 W	12,000	10,000	HVDP
M74	gle speed with manual circuit breaker.	CE	230V/1ph/50-60 Hz	1000 W	680 W	12,000	10,000	HVDP
M75	IP55. 12 ft. (3.5 m) cord with plug. Variable speed, solid state overload	CSA	115V/1ph/60 Hz	1000 W	680 W	0-12,000	20,000	HVDP
M76	protection, zero voltage release, downdraft cooling & quick connection to pump w/out tools.	CE	230V/1ph/50-60 Hz	1000 W	680 W	0-12,000	20,000	HVDP

*U.S. Patent No. 9,273,697

Note: Maximum viscosity can vary by pump series.

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



MOTOR DATA For Drum/Barrel Pumps



EXPLOSION PROOF MOTORS

			ELECTRICAL	INPUT	OUTPUT		MAXIMUM	PUMP
MODEL	DESCRIPTION	CERTIFICATION REQUIREMENTS		W	W	RPM	VISCOSITY cP	SERIES
МЗХ	Continuous duty, IP54. 12 ft. (3.5 m)	CSA	115VAC/50-60 Hz	230	75	5,000	10	PF
M7X	cord. Single speed with internal circuit breaker.	CSA	115VAC/50-60 Hz	500	180	2,850-3,450	400	TT, TM
M5XV	Continuous duty, IP55. 12 ft. (3.5 m) cord w/out plug. Variable speed, solid	CE/ATEX Ex II 2G Ex d ib IIB T5 Gb	230VAC/50-60 Hz	1000	680	0-12,000	2000	PF
M8XV	state overload protection, zero voltage release, downdraft cooling & quick connection to pump w/out tools.	CE/ATEX Ex II 2G Ex d ib IIB T5 Gb	230VAC/50-60 Hz	450	250	0-6,000	500	TT, TM

AIR MOTORS*

MODEL	DESCRIPTION	CERTIFICATION	AIR	OUTPUT	RPM	MAXIMUM	PUMP
			REQUIREMENTS	W		VISCOSITY cP	SERIES
M6/M6A		CE/ATEX Ex II 2 GDc T4+1CTa+40C [‡]	80-100 psi @15-32 cfm	400	300-9,000	1,500 [†]	PF, TT, TB
M6X/M6XA		CE/ATEX Ex II 2 GDc T4+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	ВТ
M19	customer-supplied compressed air source. Vari-	CE	100 psi @ 80-120 cfm	1500	300-3,000	7,000	ВТ
M20	able speed via supplied control valve. Motors are provided with		100 psi @ 120-170 cfm	2200	300-2,500	15,000	ВТ
M65	muffler and control valve.	C.F.	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 @ 27cfm	400	300 -11,000	300	EF

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

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

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



UC SERIES

ANSI DIMENSIONAL

MAGNETIC DRIVE PUMPS



DB & SP SERIES
PREMIUM MAGNETIC
DRIVE SEALLESS
CENTRIFUGAL PUMPS



AP SERIES
SEALED STAINLESS
STEEL CENTRIFUGAL
PUMPS



VKC SERIES
VERTICAL MAGNETIC
DRIVE SEALLESS
CENTRIFUGAL PUMPS



GP SERIESSEALED PLASTIC
CENTRIFUGAL PUMPS



MSKC SERIES

MULTI-STAGE MAGNETIC

DRIVE SEALLESS

CENTRIFUGAL PUMPS



AFTERMARKET AODD PUMP REPLACEMENT PARTS



PREMIUM AODD PUMPS AVAILABLE 2016



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