

DRUM/BARREL PUMPS EF SERIES

Sealless, Best Value

This pump provides an economical and lightweight choice for light duty transfer. Ideal replacement for hand pumps.

- Polypropylene (PP), pure PP/PVDF, 316SS tubes
- Interchangeable with motors
- Dual speed adjustable motors
- Integral strainer
- Built-in hose, cord clips (EFP/EFV only)



Applications:

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



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

CONSTRUCTION SPECIFICATIONS

Pump Model	Construction Materials		Tube Dia.	Discharge	Hose Size	Max. Temp.*		Min. Temp.		Tube Lengths
	Outer Tube	Internals	in (cm)	Size & Type	in (cm)	°F	°C	°F	°C	in (cm)
EFP	PP	316SS, FKM, PTFE, PP	1-1/4 (3.2)	3/4" Hose Barb	3/4 (1.91)	150	66	0	-18	16 (41)
EFV	Pure PP/Pure PVDF	Alloy 625, FKM, PTFE, ETFE, PP	1-5/16 (3.3)			160	71	0	-18	27 (69)
EFS	316 Stainless Steel	316SS, FKM, PTFE, ETFE	1-1/4 (3.2)			212	100	0	-18	40 (102)
										48 (122)
										54 (137)**

*EFV-54 Maximum Temperature = 150°F (66°C)

**54 inch (137 cm) tube length available only in EFP and EFV

[†]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 EF Series ATEX flyer or contact Finish Thompson.

PERFORMANCE DATA

Maximum Flow ¹			Maximum Head ¹			Max. Specific Gravity ²	Maximum Viscosity		
Elec. gpm (lpm)	Air gpm (lpm)	12V gpm (lpm)	Elec. ft (m)	Air ft (m)	12V ft (m)		Elec.	Air	12V
17 (64.4)	15 (56.8)	14 (53.0)	20 (6.1)	17 (5.2)	13 (4.0)	1.6	300 cP	300 cP	100 cP

¹All 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.

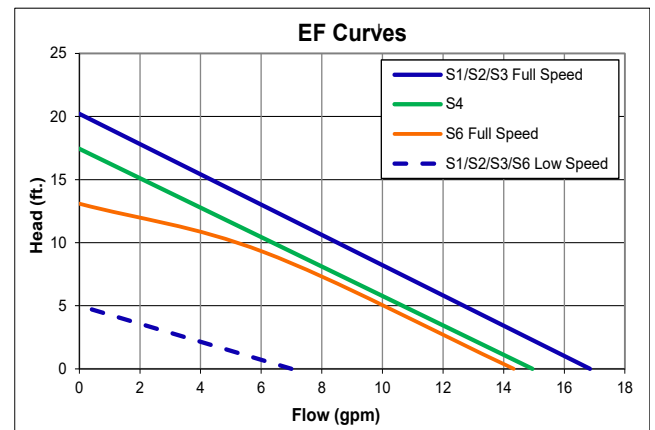
²Max. specific gravity is dependent on fluid viscosity. Refer to Specific Gravity Maximums table & curve below.

VISCOSITY DATA

Electric/Air Motor				12V Motor		
Viscosity (cP)	100	200	300	Viscosity (cP)	50	100
Max Flow gpm (lpm)	7 (26)	5 (19)	4 (14)	Max Flow gpm (lpm)	7 (26)	3 (11)
Max Head ft (m)	16 (5)	16 (5)	16 (5)	Max Head ft (m)	11 (3)	14 (4)

Note: Viscosity data is based on motors operating at high speed.

Maximum Performance Limits		
High Speed Motor Setting		
If specific gravity is:	viscosity cannot exceed:	
	S1, S2, S3, S4	S6
1.0	300 cP	100 cP
1.1	300 cP	50 cP
1.2	125 cP	1 cP
1.6	1 cP	-
Low Speed Motor Setting		
If specific gravity is:	viscosity cannot exceed:	
	S1, S2, S3	S6
1.0	100 cP	25 cP
1.2	75 cP	25 cP
1.6	1 cP	25 cP



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DRUM/BARREL PUMPS

MOTOR DATA



ODP (S1, S2, S3, S6*)



Air (S4)

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

ODP (Open Drip Proof), Splashproof, IP24 Motors

S1	Ergonomic, lightweight design with downdraft cooling. Continuous duty, dual speed, double insulated. 12 ft. (3.5 m) cord with plug and manual reset circuit breaker included.	QPS	115VAC/60 Hz	230	110	8,000/14,000	300
S2		CE	230VAC/50-60 Hz	230	110	8,000/14,000	300
S3 ¹		CE	115V/50-60 Hz	230	110	8,000/14,000	300
S6	Ergonomic, lightweight cordless design. Built-in rechargeable lithium ion battery pack. Dual speed. Dual cooling fans w/ overload protection. Charging jack w/ flip cover. Patent pending.	CE	12V (10.8V w/ work load)	150	100	8,000/12,000	100

¹S3 motor is built to meet UK 115V requirements and does not include plug

Air Motors*

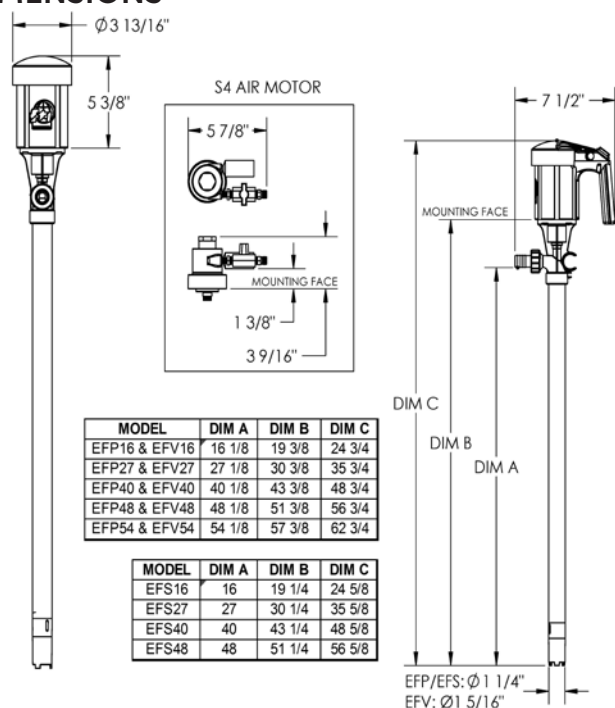
S4**	Lightweight. Operates from customer-supplied compressed air source. Variable speed. Muffler and control valve.	CE	40 psi @ 27 cfm	-	400	300-11,000	300
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*An air motor is a non-electrical device which means the possibility of explosion from igniting flammables or combustibles is reduced. Air motor performance will depend upon user's compressor and system setup.

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

Note: ATEX versions of some motors are available. Please see EF Series ATEX flyer or contact Finish Thompson.

DIMENSIONS



ACCESSORIES

Wall Hanger

Stores pump & charger upright on the wall



Charger

Standard or car charger

Static Protection Kit

4 ft. (122 cm) synthetic rubber cross-linked PE grounded hose with brass fittings with 3/4" MNPT, ground wire, and clamps



Discharge Hose

Reinforced PVC, EPDM

Dispensing Nozzles

Polypro/316SS, Stainless steel/FKM



Bung Adapters

Stainless Steel, Polypropylene

DRUM/BARREL PUMPS EF SERIES ATEX

ATEX Certified Best Value Drum Pump

Sealless economy drum pump certified for container-to-container transfer of flammables or combustibles.

- 316 stainless steel tube
- Air motor
- Perlast® (perfluoroelastomer/FFKM) o-rings
- Hose barb discharge connections
- 1.2 m grounded hose with grounded wire assembly
- ATEX Ex II 1/2G c IIB T3 certified



Applications:

Acetone, alcohol, toluene, xylene, mineral spirits, diesel fuel, kerosene, gasoline, etc.



Construction Specifications

Pump Model	Construction Materials	Tube Diameter	Discharge	Hose Size	Maximum Temperature		Minimum Temperature		Tube Lengths
		in (cm)	Size & Type	in (cm)	°F	°C	°F	°C	in (cm)
EFS	316 SS, FKM, EPDM, Perlast, PTFE, ETFE	1-1/4 (3.2)	3/4" Hose Barb	3/4 (1.9)	212	100	5	-15	16" (41 cm) 27" (69 cm) 40" (102 cm) 48" (122 cm)

Perlast® is a registered trademark of Precision Polymer Engineering Limited.

Performance Data

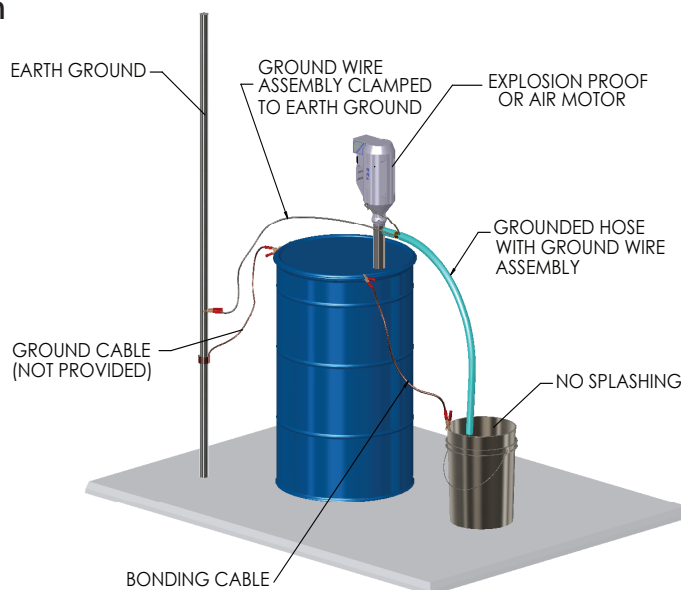
Maximum Flow*	Maximum Head	Maximum Specific Gravity	Maximum Viscosity
Air gpm (lpm)	Air ft (m)		Air
15 (56.8)	17 (5.2)	1.6	50 cP

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



*Static sparking can cause an explosion. Always follow NFPA 77 and CLC/TR 60079-32-1 guidelines for control of static electricity and proper grounding methods when using ATEX and Hazardous Location motor models.

Explosion-proof Installation



MOTOR DATA



Air
(S4A)

Model	Description	Certification	Air Requirements	Output W	RPM	Maximum Viscosity cP
ATEX Certified Electric Motors						
S4A	Lightweight. Operates from customer-supplied compressed air source. Variable speed. Muffler and control valve.	CE/ATEX II 2G Ex h IIC T4 Gb II 2D Ex h IIC T135°C Db $+1^{\circ}\text{C} \leq T_{\text{amb}} \leq 40^{\circ}\text{C}$	up to 2.8 bar @ 12.7 lps	370	300-11,000	50

STATIC PROTECTION KIT



Description	Non-Wetted Materials	Hose ID	Hose OD	Fitting Size	Fitting Type
Synthetic rubber cross-linked polyethylene (XLPE) with brass hose fittings and grounding wire	Synthetic rubber with imbedded grounding wire	3/4" (19.1 mm)	1.25" (31.8 mm)	3/4" (19.1 mm)	NPT

NOTE: ATEX compliance requires use of a Static Protection Kit.

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