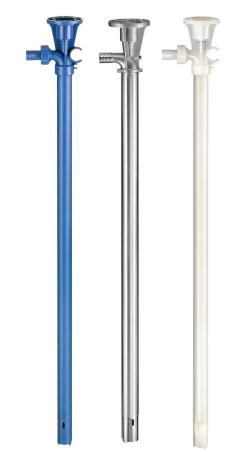


FINISH THOMPSON INC.

EF SERIES PUMPS

EFP, EFS, & EFV OPERATION & PARTS MANUAL

P/N 107317 R13





EU Declaration of Conformity

CE

Finish Thompson Inc. hereby declares that the following machine(s) fully comply with the applicable health and safety requirements as specified by the EU Directives listed. The product may not be taken into service until it has been established that the drive motor for the Drum and Container Pump complies with the provisions of all relevant EU Directives. The complete product complies with the provisions of the EU Directive on machinery safety provided motors manufactured by Finish Thompson Inc. are used.

This declaration is valid provided that the devices are fully assembled and no modifications are made to these devices.

Type of Device:

Drum and Container Pump Tubes and Accessories

BTS - 40/48 HVDP LR-27/40/48 PFP-27/40/48/54/60/72 TBP-27/40/48 STTS-40 HVDP HR-27/40/48 PFS-27/40/48/54/60/72 TBS-40 TMS-40 EFP/EFV/EFS-16/27/40/48/54 PFM-27/40/48/54/60 PFV-27/40/48/54/60/72 TTC/TTS-27/40/48 Nozzles (111030)

Models:

EU Directives: Machinery Safety (2006/42/EC)

Applied Harmonized Standards:

EN ISO 12100 EN 809

Manufacturer: Finish Thompson Inc. 921 Greengarden Road Erie, Pennsylvania 16501-1591 U.S.A

Signed,

President

3 April 2020

Person(s) Authorized to Compile Technical File: Finish Thompson GmbH Otto-Hahn-Strasse 16 Maintal, D-63477 DEU Telephone: 49 (0)6181-90878-0

Introduction

This manual pertains to the EF Series drum pumps and accessories. Finish Thompson Inc. thanks you for choosing our products. We believe the use of our products will be fully satisfactory. When properly installed and operated, your Finish Thompson motor and pump will provide long, trouble-free service; therefore, please read this manual carefully before carrying out any operations on the pump/motor unit. Any use other than that described herein is considered incorrect; and, consequently, Finish Thompson Inc. shall not be held responsible for any damages to people or property. In case of doubt or enquiries, please reply to our Technical Service department directly at the following address:

Finish Thompson, Inc. 921 Greengarden Rd. Erie, PA 16501 U.S.A. Tel. 1-814-455-4478; Fax 1-814-455-8518 www.finishthompson.com; fti@finishthompson.com

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Note: Repair instructions can be downloaded from our web site at www.finishthompson.com or contact Technical Service at 1-800-888-3743.

Warranty, General Terms & Conditions

- 1. The following terms and conditions apply to the sale of machinery, components and related services and products, of Finish Thompson Inc. (hereinafter "the products")
- 2. Finish Thompson Inc. (the manufacturer) warrants only that:
 - a) its products are free of defects in material, design and workmanship at the time of original purchase;
 - b) its products will function in accordance with Finish Thompson Inc. operation manuals; Finish Thompson Inc. does not guarantee that the product will meet the precise needs of the Customer, except for those purposes set out in any invitation to render documents or other documents specifically made available to Finish Thompson Inc. before entering into this agreement;
 - c) high quality materials are used in the construction of the pumps and that machining and assembly are carried out to the highest standards. Except as expressly stated above, Finish Thompson Inc. makes no warranties, express or implied, concerning the products, including all warranties of fitness for a particular purpose.

This warranty shall not be applicable in circumstances other than defects in material, design, and workmanship. In particular warranty shall not cover the following:

- d) Periodic checks, maintenance, repair and replacement of parts due to normal wear and tear;
- e) Damage to the product resulting from:
 - i. Tampering with, abuse or misuse, including but not limited to failure to use the product for its normal purposes as stated at the time of purchase or in accordance with Finish Thompson, Inc. instructions for use and maintenance of the product, or the installation or improper ventilation or use of the product in a manner inconsistent with the technical or safety standard in force;
 - ii. Repairs performed by non-authorized service workshop, or opening of the unit by non-authorized personnel, or use of non genuine Finish Thompson Inc. parts;
 - iii. Accidents, force majeure or any cause beyond the control of Finish Thompson Inc., including but not limited to lightning, water, fire, earthquake, and public disturbances, etc.
- 3. The warranty shall cover the replacement or repair of any part, which is documented to be faulty due to construction or assembling, with new or repaired parts free of charge delivered by Finish Thompson, Inc. Parts subjected to normal wear and tear shall not be covered by the warranty. Finish Thompson, Inc. shall decide as to whether the defective or faulty part shall be replaced or repaired. Transportation charges are prepaid to Finish Thompson.
- 4. The warranty of the products shall be valid for a period of **12 months** from the date of delivery, under the condition that notice of the alleged defect to the products or parts thereof be given to Finish Thompson, Inc. within the term of 8 days from the discovery.
- 5. Repair or replacement under the terms of this warranty shall not give a right to an extension to, or a new commencement of, the period of warranty. Repair or replacement under the terms of this warranty may be fulfilled with functionally equivalent reconditioned units. Finish Thompson Inc. qualified personnel shall be solely entitled to carry out repair or replacement of faulty parts after careful examination of the motor. Faulty parts or components when replaced by Finish Thompson Inc. will become the property of Finish Thompson Inc. If this warranty does not apply, the purchaser shall bear all cost for labor, material and transportation.
- 6. Finish Thompson Inc. will not be liable on any claim, whether in contact, tort, or otherwise, for any indirect, special, incidental, or consequential damages, caused to the customer or to third parties, including loss of profits, process down time, transportation costs, costs associated with replacement or substitution products, labor costs, installation or removal costs. In any and all events, manufacturer's liability shall not exceed the purchase price of the product and/or accessories.
- 7. <u>Return Policy</u>. Should you have any problems with this product, please contact the distributor in your area. The distributor will determine if a return to the factory is necessary and will contact the factory for a Return Authorization Number. Otherwise, contact our Technical Service Hotline (1-800-888-3743) or e-mail techservice@finishthompson.com if you have any questions regarding product operation or repair.

Warranty Registration

Thank you for your purchase of this quality Finish Thompson product. Be sure to take a minute to register your pump at <u>Finishthompson.com/warranty</u>. Simply provide the model number, serial number and a few other pieces of information.

Safety

1. Introduction

This manual contains all the information needed for the correct installation, use and maintenance of your new Finish Thompson pump and accessories. It should be read and understood by all the personnel involved in installation, operating and servicing of the pump before it is started.

2. Operator Qualification and Training

The personnel in charge of the installation, the operation, and the maintenance of the pump must be qualified and able to perform the operations described in this manual. Finish Thompson, Inc. shall not be held responsible for the training level of personnel and for the fact that they are not fully aware of the contents of this manual.

3. Safety Instructions

FOR YOUR OWN SAFETY

BEFORE using or servicing your pump or accessories, please make sure to wear the proper clothing, eye protection and follow standard safety procedures when handling corrosive or personally harmful materials.

GENERAL DANGER

NEVER use a plastic pump, plastic accessory, or an open, splash-proof, TEFC or non-ATEX motor when pumping or mixing flam mable or combustible material.

ALWAYS use a Model EFS 316SS pump tube with Model S4 air motor and static protection kit with grounded discharge hose, P/N 107429, when pumping or mixing flammable or combustible material. Follow Assembly, Installation & Operating Instructions from manual, P/N J102721, included with the static protection kit or it can be accessed online at www.finishthompson.com/ downloads.

ALWAYS ensure the pump, hose, and motor are bonded to ground, and the tanks/containers are separately bonded to ground.

ALWAYS inspect the integrity of the ground wire connections prior to each use.

NEVER leave the pump unattended while in use.

NEVER run the pump dry without fluid.

NEVER run the pump with a closed valve (deadhead) for longer than 1 minute.

ALWAYS use and store the pump and motor in an upright position.

NEVER use in pressurized containers.

ALWAYS use a chemically compatible hose rated for the temperature of the product being pumped.

ALWAYS tighten and torque a stainless steel hose clamp to 25 in-lbs (2.8 N·m)

ALWAYS select the proper o-ring material. Improper material selection could lead to swelling and be a possible source of leaks. This is the responsibility of the end user.

ALWAYS check the pump for leaks on a regular basis. If leaks are noticed, the pump must be repaired or replaced immediately.

DANGER: POWER SUPPLY

Refer to instructions in the appropriate motor Operation & Installation Manual.

4. Noise Level

Refer to specifications in the appropriate motor Operation & Installation Manual.

5. Modifications and Spare Parts

Any changes concerning the service of the pump or accessory as originally purchased can be executed only after written approval from Finish Thompson Inc. It is recommended to use only genuine Finish Thompson Inc. spare parts and approved accessories. The use of non-original spare parts or non-approved accessories will void warranty and removes any responsibility on the manufacturer's behalf for any damage caused to people or things.

6. Cleaning

It is highly recommended to flush pumps and accessories with clean water or some other neutralizing fluid compatible with pump materials when done pumping or when switching chemicals.

IMPORTANT SAFETY INFORMATION FOR PUMPING FLAMMABLE OR HAZARDOUS SUBSTANCES

Read these instructions before operating the pump and motor equipment. The manufacturer will not be responsible for any damage to property or to persons caused by improper use of the equipment.

WARNING: It is the responsibility of the user to operate the pump in conformance with OSHA rules for dispensing liquids. Pump containers should be grounded when using with flammable or combustible liquids to avoid static electricity.

- 1. Use only an explosion-proof rated electric or non-electric (air) motors on stainless steel pump tubes with a Static Protection Kit when transferring flammable or combustible liquids.
- WARNING: Never use an open, splash-proof, TEFC, battery-operated or non-explosion-proof rated motor or a plastic pump tube when transferring flammable or combustible liquids.
- 2. When operating a drum pump (especially when pumping flammable, combustible or hazardous liquids) follow all electrical and safety codes.
 - a) In the United States: the United States Occupational Safety and Health Act (OSHA), most recent National Electrical Code (NEC), National Fire Protection, Inc. (NFPA) Code 30 (Flammable and Combustible Code), NFPA 77 (Static Electricity), NFPA 251 (Standard Method of fire Test of Building Construction), NFPA 704 (Identification of the Fire Hazards of Materials), and other NFPA codes, local codes and ordinances.
 - b) Outside the United States: the ATEX equipment directive 2014/34/EU where applicable, the ATEX workplace 99/92/EC directive where applicable, in addition the precautions of the U.S. codes listed herein and all other local codes and ordinances.
- Pumping hazardous, flammable, or combustible liquids should only be done in buildings, rooms, or areas suited for this purpose. (See NFPA 30, NFPA 78, NFPA 80, NFPA 251, NFPA 704, other suitable NFPA codes, OSHA, ATEX workplace 99/92/EC directive insurance companies, and other local codes and ordinances.)
- 4. When filling cans, drums, etc. with combustible or flammable liquids, both container pumping from and container pumping to, should be bonded and grounded to dissipate possible accumulations of static electricity, and minimize sparks caused by static electricity (refer to NFPA 77 and CLC/TR 60079-32-1 for specific details).

A WARNING: Avoid splashing. Splash filling can create static electricity and is extremely hazardous. Reduce motor speed to prevent splashing.

WARNING: Fluid velocity must be 3 feet/.9 meter/second maximum (7 gpm/26.5 lpm in 1" hose and 4 gpm/15 lpm in 3/4" hose) to reduce risk of static electricity. Reduce motor speed to reduce the fluid velocity.

5. Before using, confirm that the pump and any accessories (hose, nozzle, flow meter, etc.) materials of construction are suitable for the material to be pumped and that the maximum temperature is not exceeded.

INFORMATIONS IMPORTANTES SUR LA SÉCURITÉ DURANT LE POMPAGE DE SUBSTANCES INFLAMMABLES OU DANGEREUSES

Veuillez lire attentivement ces instructions avant d'utiliser la pompe et l'équipement du moteur. Le fabricant ne sera pas tenu responsable des dommages matériels ou corporels causés par une utilisation inappropriée de l'équipement.

AVERTISSEMENT: Il est de la responsabilité de l'utilisateur de faire fonctionner la pompe conformément aux règles OSHA (Santé et Sécurité au Travail) relatives à la distribution de liquides. Les conteneurs de pompes doivent être électriquement mis à la terre lors de l'utilisation de liquides inflammables ou combustibles afin d'éviter toute électricité statique.

1. Lors du transfert de liquides inflammables ou combustibles, utilisez uniquement des moteurs électriques ou non électriques (pneumatiques) antidéflagrants sur des tubes de pompe en acier inoxydable dotés d'un dispositif de protection antistatique.

AVERTISSEMENT: N'utilisez jamais de moteur ouvert, à l'épreuve des éclaboussures, TEFC, alimenté par piles ou non antidéflagrant, ni un tube de pompe en plastique lors du transfert de liquides inflammables ou combustibles.

- 2. Lors de l'utilisation d'une pompe à tambour (en particulier lors du pompage de liquides inflammables, combustibles ou dangereux), respectez tous les codes électriques et les codes de sécurité.
 - a) Aux États-Unis : Loi américaine sur la sécurité et la santé au travail (OSHA); le code national de l'électricité (NEC) le plus récent; le code 30 de la NFPA (code d'inflammabilité et de produits combustibles); le code NFPA 77 (électricité statique); le code NFPA 251 (Méthode standard de test d'incendie de la construction de bâtiments); le code NFPA 704 (Identification des risques d'incendie des matériaux) et autres codes et règlements de la NFPA.
 - b) En dehors des États-Unis : La directive sur les équipements ATEX 2014/34 / EU, le cas échéant, la directive ATEX sur le lieu de travail 99/92 /EC, le cas échéant, ainsi que les précautions des codes des États-Unis énumérés dans la présente et de tous les autres codes, lois et règlements locaux.
- Le pompage de liquides dangereux, inflammables ou combustibles ne doit être effectué que dans des bâtiments, des pièces ou des zones adaptées à cet usage. (Voir NFPA 30, NFPA 78, NFPA 80, NFPA 251, NFPA 704, autres codes NFPA appropriés, OSHA, les directives des compagnies d'assurance ATEX 99/92 /CE, et autres codes, lois et règlements locaux.)
- 4. Lors du remplissage de bidons, fûts, etc. avec des liquides combustibles ou inflammables, les conteneurs d'où le liquide est pompé et le conteneur recevant le liquide doivent être reliés et mis à la terre pour éviter toute accumulation éventuelle d'électricité statique et minimiser ainsi les étincelles causées par l'électricité statique (voir NFPA 77). et CLC / TR 60079-32-1 pour des détails spécifiques).

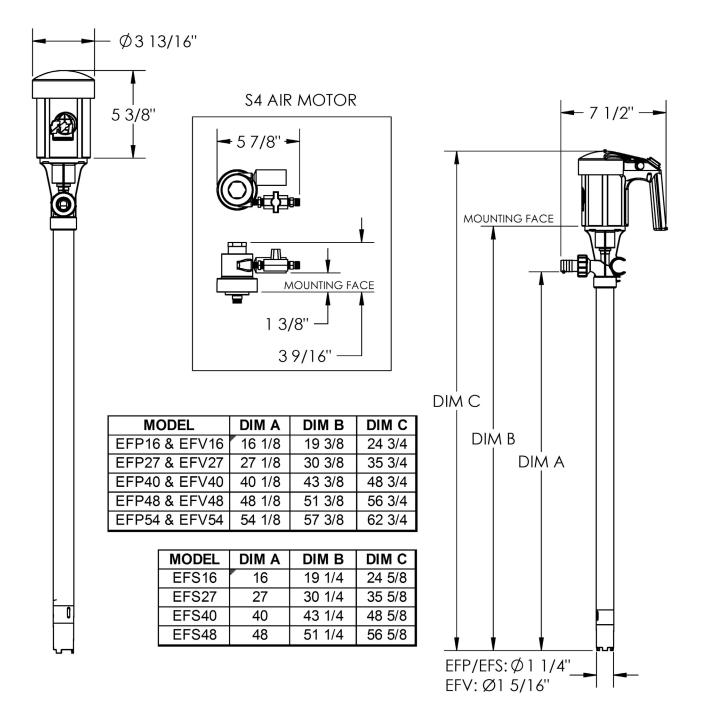
AVERTISSEMENT: Évitez les éclaboussures. Les éclaboussures peuvent créer de l'électricité statique et sont extrêmement dangereuses. Réduisez la vitesse du moteur pour éviter les éclaboussures.

AVERTISSEMENT: La vitesse du fluide doit être au maximum de 3 pieds / 0,9 mètre / seconde (7 gpm / 26,5 lpm dans un tuyau de 1"; et 4 gpm / 15 lpm dans un tuyau de ¾") afin de réduire le risque d'électricité statique. Réduisez la vitesse du moteur afin de réduire ainsi la vitesse du fluide.

5. Avant utilisation, assurez-vous que les matériaux de la pompe et des accessoires (tuyau, ajutage, débitmètre, etc.) sont compatibles avec le fluide et que la température maximale n'est pas dépassée.

PUMP SPECIFICATIONS					
	MODEL EFP	MODEL EFV	MODEL EFS		
Outer Tube Diameter	1-1/4" (3.22 cm)	1-5/16" (3.3 cm)	1-1/4" (3.2 cm)		
Discharge Spout	3/4" Barb	3/4" Barb	3/4" Barb		
Discharge Thread	1" NPT	1" NPT	Optional		
Max. Specific Gravity	1.6	1.6	1.6		
Max. Viscosity	300 cP	300 cP	300 cP		
Min / May Fluid Temperature	0° F Min. to 150° F Max.	0° F Min. to 160° F* Max.	0° F Min. to 212° F Max.		
Min./ Max. Fluid Temperature	(-18° C Min. to 66° C Max.)	(-18° C Min. to 71° C* Max.)	(-18° C Min. to 100° C Max.)		
Wetted Materials	Polypropylene, FKM, PTFE, ETFE, 316 SS	Pure Polypropylene, PVDF, FKM, PTFE, ETFE, Alloy 625	316 SS, FKM (optional PTFE seal, EPDM, Perlast o-rings), PTFE, ETFE		

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



OPERATION

- 1. Make sure the motor (electric or air) is properly installed on the pump tube and is in the off position. See motor instruction manual for installation instructions.
- Insert the pump tube into the fluid to be dispensed and the hose into the container to be filled prior to starting the pump. Bung adapters are available to provide a tighter fit between the pump tube and bung opening of a standard drum. Check drum pump accessories at <u>www.finishthompson.com</u> or contact your local Finish Thompson distributor for bung adapter info.
- 3. Make sure the pump's discharge hose is properly secured before operating the motor, torque Finish Thompson hose clamps to 25 in-lbs(2.8 N·m).
- 4. Begin pumping by turning the motor on and verifying that there are no leaks. If leaks are noticed immediately turn the motor off and check all discharge hose connections.

NEVER allow the pump to run dry.

NEVER pump liquids containing solids that can damage internal pump parts (i.e. metal chips). Pumping solids can lead to increased wear.

Hose & Cord Storage

EFP & EFV model pumps have a built-in hose & cord clip. You can use these clips to store your hose and keep the plug off the floor, free of damage and corrosion. When selecting a discharge hose, you should use a 3/4" ID reinforced chemically compatible hose secured with a stainless steel hose clamp. See figures A and B below.

Figure A





Figure B

DISASSEMBLY & REASSEMBLY INSTRUCTIONS

Disassembly

- Cover, Impeller, & Diffuser Removal Unthread the diffuser cover (item 19). Turn it clockwise (left-hand thread). See Figure 1. Unthread the impeller (item 18) turning it counter clockwise (right hand thread) using a flat-head screwdriver or hand while holding the coupling insert and coupling (items 1 & 2) with the other hand. See Figure 2. Note: If the shaft unthreads from the coupling, use a pliers to hold the top of the shaft. Care should be taken to not damage the shaft threads. For longer 40" and 48" pump lengths, two people may be required to hold the shaft and unthread the impeller. Unthread the diffuser (item 17) turning it clockwise (left-hand thread).
- Shaft Removal To remove the shaft (item 4), tap the bottom of the shaft on a piece of wood or plastic and push the shaft up and out of the head (item 6). Grab the half coupling or bearing and pull the shaft assembly straight out of the head. Note: Take care to not bend the shaft. <u>Important</u> - The shaft should only be removed if the bearing is frozen and needs to be replaced.
- 3. **Intake Tube Removal** For EFP & EFV Models Remove the intake tube (item 16). Hold the head (item 6) in one hand and with the other hand, turn the intake tube clockwise (left-hand thread). When completely unthreaded, pull the intake tube away from the head exposing the inner tube and center support (items 13 & 14).
- 4. **Inner Tube & Center Support Removal** To remove the inner tube and center support, turn the inner tube to unseat the o-rings (item 12) and then pull the inner tube away from the head.
- 5. **Shaft Sleeve Removal** The shaft sleeve (item 15) will drop out of the inner tube by holding it in a vertical position and turning.
- 6. **Center Support Removal** 40" and 48" lengths only If the center support (item 14) needs to be replaced, it can be removed by spreading open the fingers and disengaging it from the inner tube. *See figure 3*.
- 7. Inner Tube & Shaft Sleeve Removal The intake tube and head for EFS models are welded together. To remove the inner tube and shaft sleeve (items 13 & 15 indicated on the Exploded View on pg. 8-9), hold the outer tube and head assembly in a vertical position, and the shaft sleeve will fall out. To remove the inner tube, "pretend" to hit the bottom of the pump on the floor but stop before it actually hits. This motion will allow the weight of the inner tube to release the o-rings, and it will drop out of the bottom of the pump. It is recommended to do this over a soft surface to prevent damaging the inner tube as it drops out of the pump.
- 8. **Seal Removal** To remove the seal (item 5) from the head (item 6 or item 16 for EFS), use a hook tool, available at most hardware stores, to pull the seal out from the top of the head. Take care not to damage the seal seat area. *See figure 4.* Note: The seal should be replaced if worn or the bearing is failing or frozen.



Figure 1



Figure 2

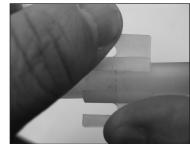


Figure 3



Figure 4

Reassembly

1. **Seal Installation** - For EFP & EFV models, take the head (item 6), and for EFS models take the outer tube with head (item 16), and install a new seal (item 5). Insert the open part of the seal into the lower bore of the head. *See figure 5.* Use a 3/8" (9.5 mm) dowel to press and seat the seal into place. Seal sits slightly below the surface. *See figure 6.*



Figure 5

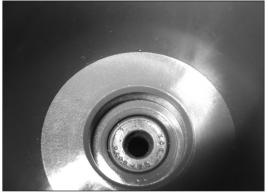


Figure 6

- 2. **Reinstall** the half coupling, bearing and shaft (items 2, 3 & 4 indicated on the Exploded View on pg. 8-9) as an assembly into the head. If the bearing needs to be replaced it is recommended to purchase a new shaft, bearing and half coupling assembly because the EF Series shaft can be damaged when removing or installing the bearing.
- 3. **Shaft Installation** Slide the shaft down through the seal until the bearing engages the bearing bore in the head. Use any size dowel under 1"(25.4 mm) in diameter and press the half coupling, bearing and shaft into place using an arbor press or by lightly tapping with a soft mallet. Note: Do not use excessive force. Unthread the half coupling counter clockwise (right hand thread) to verify that the bearing is seated properly. *See figure 7*. Reinstall the half coupling.
- Inner Tube, Center Support & Shaft Sleeve Installation for all models -Reinstall the inner tube, center support (if used) and shaft sleeve (items 13, 14 & 15). Slide the shaft sleeve onto the shaft. The shaft sleeve is self-positioning so



Figure 7

slide it up as far as it will go on the shaft. Reinstall the inner tube with center support (if used) over the shaft and shaft sleeve. The double o-ring side seats up into the head with a slight twisting motion. Make sure the inner tube is seated properly. The bottom of the inner tube will be flush with the bottom of the outer tube when properly seated.

5. Intake Tube Installation - for EFP & EFV models - Install the intake tube (item 16). Make sure the center support (if used) is installed correctly on the inner tube. The center support has a slight taper that allows the outer tube to slide easily over it. *See figure 8.* Slide the intake tube with external threads over the shaft, shaft sleeve, inner tube and center support (if used) up into the head (item 6). Turn the intake tube counter clockwise (left hand thread) to tighten it into the head. Hand tighten.

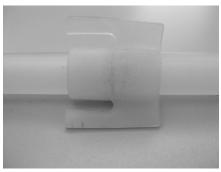


Figure 8

6. **Diffuser Installation** - for all models - Install the diffuser (item 17) onto the bottom of the outer tube. Insert the shaft through the small support opening on the diffuser. *See figure 9.* The small support opening will insert up inside the inner tube (item 13). With a slight push and turn, thread the diffuser into the outer tube (item 16) turning counter clockwise (left hand thread).









7. Thread the diffuser (item 17) completely onto the bottom of the outer tube (item 16). Hand tighten. Thread the impeller onto the shaft by hand. While holding the half coupling with the other hand, turn the impeller clockwise (right hand thread). *See figure 11.* Install the diffuser cover (item 19) onto the diffuser turning counter clockwise (left and thread). Hand Tighten. *See Figures 12 & 13.*

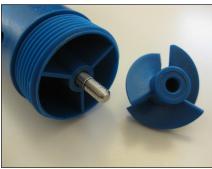


Figure 11

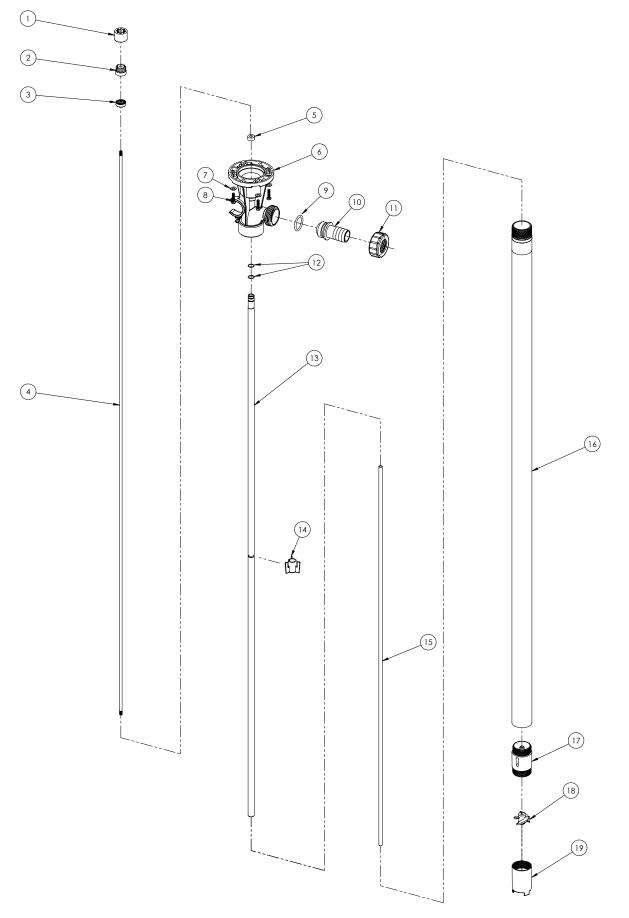


Figure 12

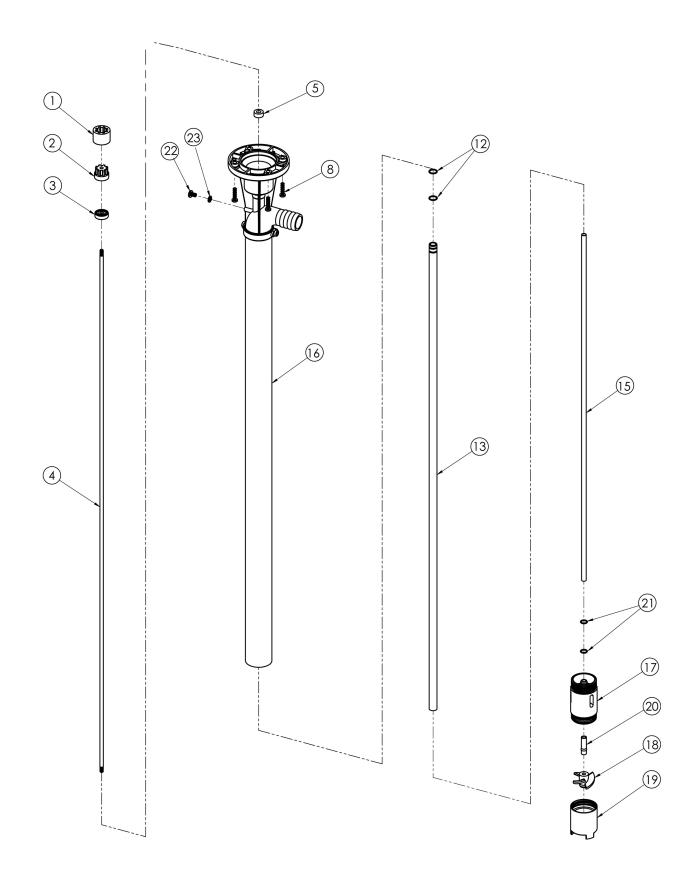


Figure 13

EFP & EFV SERIES PUMP EXPLODED VIEW



EFS SERIES PUMP EXPLODED VIEW



PUMP SPARE PARTS LIST

TEM	QTY	DESCRIPTION		PART NUMBER	
			MODEL EFP	MODEL EFV	MODEL EF
*1	1	COUPLING INSERT	1102400	1102422	1102400
		COUPLING HALF	J103422	J103422	J103422
2	1		107300	107300	107300
		BEARING	101000	101000	101000
3	1	AVAILABLE ONLY AS PART OF COUPLING HALF, BEARING & SHAFT ASSEM	BLY		
4	- 1	SHAFT			
4	1	AVAILABLE ONLY AS PART OF COUPLING HALF, BEARING & SHAFT ASSEM	BLY		
		COUPLING HALF, BEARING & SHAFT ASSEMBLY	1		1
		COUPLING HALF, BEARING & SHAFT - 16"	107589-1	107590-1	107589-1
2,3,4	1	COUPLING HALF, BEARING & SHAFT - 27"	107589-2	107590-2	107589-2
2,0,1		COUPLING HALF, BEARING & SHAFT - 40"	107589-3	107590-3	107589-3
		COUPLING HALF, BEARING & SHAFT - 48"	107589-4	107590-4	107589-4
		COUPLING HALF, BEARING & SHAFT - 54" SEAL	107589-5	107590-5	N/A
*5	1	FKM (STANDARD)	107297	107297	107297
5		PTFE (USED WITH PERLAST OR EPDM 0-RINGS)	108701	108701	107297
		PUMP HEAD	100701	100701	100701
6	1	POLYPROPYLENE	107071-1	N/A	N/A
-		PVDF	N/A	107071-2	N/A
7	A	FLAT WASHER	•		
7	4	STAINLESS STEEL	J103601	J103601	N/A
8	4	HI-LOW SCREW			
0	4	STAINLESS STEEL	J101020	J101020	J101020
		SPOUT O-RING		1	1
*9	1	FKM (STANDARD)	106155	106155	N/A
		EPDM	106154	106154	N/A
	1	SPOUT			
10		POLYPROPYLENE - 3/4" Hose Barb	107072-1	N/A	N/A
		PVDF - 3/4" Hose Barb	N/A	107072-2	N/A
11	1	POLYPROPYLENE	107069-1	N/A	N/A
11		PVDF	N/A	107069-2	N/A N/A
		INNER TUBE O-RING	N/A	107005-2	N/A
		FKM (STANDARD)	107299	107299	107299
*12	2	EPDM	107729	107729	107729
		PERLAST	N/A	N/A	110001
		INNER TUBE	- · ·	1	1
		16"	107294-1	107294-1	107578-1
13	1	27"	107294-2	107294-2	107578-2
15		40"	107294-3	107294-3	107578-3
		48"	107294-4	107294-4	107578-4
		54"	107294-5	107294-5	N/A
*14	1		10000	40700-	
		TEFZEL® (ETFE) - 40", 48", & 54" LENGTHS ONLY SHAFT SLEEVE - PTFE	107068	107068	N/A
		SHAFT SLEEVE - PTFE 16"	107293-1	107293-1	107293-1
		27"	107293-1	107293-1	107293-1
*15	1	40"	107293-2	107293-2	107293-2
		48"	107293-4	107293-4	107293-3
		54"	107293-5	107293-5	N/A
		INTAKE TUBE (MODEL EFS INCLUDES PUMP HEAD)			
		16" with hose barb discharge	107295-1	107295-2	107580-1
	1	27" with hose barb discharge	107295-3	107295-4	107580-2
		40" with hose barb discharge	107295-5	107295-6	107580-3
16		48" with hose barb discharge	107295-7	107295-8	107580-4
16		54" with hose barb discharge	107295-9	107295-10	N/A
		16" with MNPT discharge	N/A	N/A	107580-5
		27" with MNPT discharge	N/A	N/A	107580-6
		40" with MNPT discharge	N/A	N/A	107580-7
		48" with MNPT discharge	N/A	N/A	107580-8
*17	1	DIFFUSER W/ PTFE DIFFUSER BUSHING		4/0070 -	
	1		110079-1	110079-2	N/A

ITEM	οτν	DESCRIPTION		PART NUMBER		
	QTY		MODEL EFP	MODEL EFV	MODEL EFS	
		DIFFUSER KIT [†] (DIFFUSER, COVER, BUSHING, & O-RING)				
17†, 19†, 20, 21	1	316SS w / PTFE BUSHING & FKM 0-RINGS	N/A	N/A	110115	
		316SS w / PTFE BUSHING & PERLAST 0-RINGS	N/A	N/A	110116	
		316SS w / PTFE BUSHING & EPDM 0-RINGS	N/A	N/A	110117	
		IMPELLER				
*18	1	POLYPROPYLENE	107067-1	N/A	N/A	
		TEFZEL® (ETFE)	N/A	107067-2	107067-2	
19	0 1	DIFFUSER COVER				
			110080-1	110080-2	107584	
***20	1	DIFFUSER BUSHING ONLY**				
120		PTFE	N/A	N/A	107585	
		DIFFUSER O-RING				
**21	2	FKM (STANDARD)	N/A	N/A	107586	
121	2	EPDM	N/A	N/A	107766	
		PERLAST	N/A	N/A	110002	
22	1 GROUNDING SCREW BRASS	GROUNDING SCREW				
22		BRASS	N/A	N/A	J100822	
23	1	GROUNDING SCREW LOCKWASHER				
		BRASS	N/A	N/A	J100823	
				N/A =	Not Applicable	

* Recommended Spare Parts

** Item 20 is included in the diffuser (item 17). Diffuser bushing is offered as a separate item for the EFS only.

[†] Item number 17 and 19 sold as part of a kit only to ensure proper fit. Item 20 and 21 are available as part of kit or separately.

Tefzel® is a registered trademark of the DuPont Company.





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