



FINISH THOMPSON INC.

PF SERIES PUMPS

PFS ATEX VERSION

OPERATION & PARTS MANUAL



Introduction

This manual pertains to the PF Series, specifically the ATEX version of the PFS stainless steel drum pump. 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

Index

Introduction	1
Warranty, General Terms & Conditions.....	2
Safety	3
Pump Specifications	4
ATEX Specifications	5
PFS Installation.....	6
Static Protection Kit Assembly.....	6-7
Maintenance	
Disassembly	7
Inspection	8
Reassembly	8
Exploded View	9
Pump Tube Spare Parts List	10
M6A Spare Parts List & View	11
M6XA Spare Parts List & View	12
M10XA Spare Parts List & View	13
ATEX Certificates	14
EC Certificates of Conformity	15-16

Technical Service Hotline: 1-800-888-3743 or email techservice@finishthompson.com

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 re-conditioned 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 contract, 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. **Return Policy.** 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.

Safety

1. Introduction

This manual contains all the information needed for the correct installation, use and maintenance of your new Finish Thompson pump. 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, please make sure to wear the proper clothing, eye protection and follow standard safety procedures when handling corrosive or personally harmful materials.

GENERAL DANGER

ALWAYS use a stainless steel pump tube with an explosion proof electric motor or air motor and static protection kit with grounded discharge hose when pumping or mixing flammable or combustible material.

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 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.

ALWAYS clean the pump on a regular basis to avoid any dust buildup greater than 5mm deep.

ALWAYS check compatibility and temperature range of pump with liquids used. A Chemical Resistance and Material Selection Guide can be downloaded from our website at www.finishthompson.com.

NEVER run dry.

NEVER use with liquids containing solids that can damage the internals (i.e. metal chips) without optional strainer.

ALWAYS flush unit with water after each use.

ALWAYS store unit upright, i.e. motor above pump, and away from corrosive liquids and vapors.

ALWAYS check bearings for signs of overheating, abnormal noise or other signs of premature failure on a daily basis. Bearings should be replaced at the first sign of failure.

ALWAYS when using an air motor, use an automaticairline lubricator, moisture trap, and filter in the airline before the motor (use SAE#10 oil in the lubricator). Adjust lubricator to feed one drop of oil per minute of continuous run time. Do not exceed 80 psi (551 kPa) on M6A and 100 psi (689 kPa) on M6XA. Maximum air consumption: M6A = 27 cfm (47 m3/hr), M6XA = 30 cfm (49.5 m3/hr).

DANGER: POWER SUPPLY

Refer to instructions in this manual.

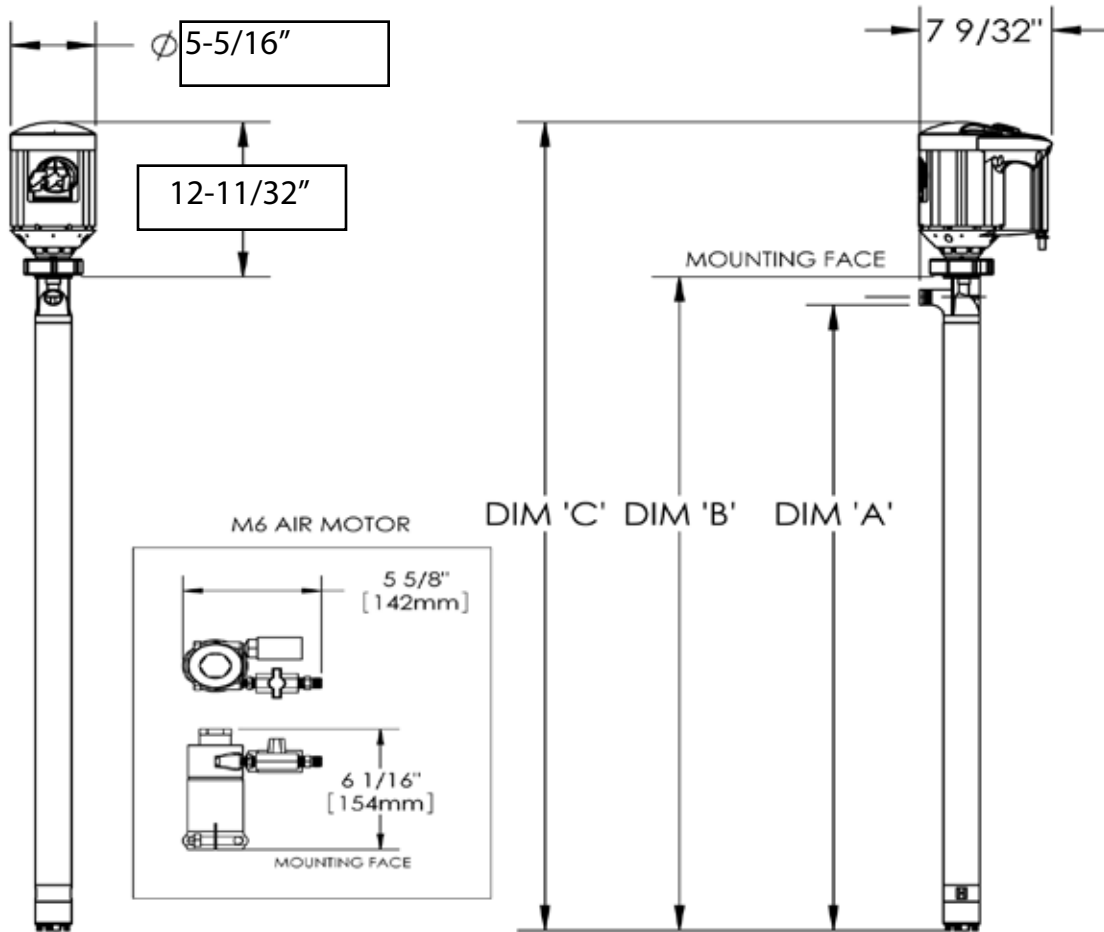
4. Noise Level

90 db at a distance of 3 feet (approximately 1 meter).

5. Modifications and Spare Parts

Any changes concerning the service of the pump 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.

PUMP SPECIFICATIONS	
MODEL PFS ATEX	
Outer Tube Diameter	2" (51 mm)
Discharge Type	1" hose barb
Max. Specific Gravity	1.83
Max. Viscosity	500 cP
Min./ Max. Fluid Temperature	5°F Min. to 220°F Max.
	21°C Min. to 105°C Max.
Wetted Materials	316 Stainless Steel, Perlast, PTFE, ETFE



MODEL	DIM A (in)	DIM B (in)	DIM C (in)	DIM A (mm)	DIM B (mm)	DIM C (mm)
PFS-27	27	29	41-3/8	685.8	737	1050.9
PFS-40	40	42	54-3/8	1016	1067	1381.1
PFS-48	48	50	62-3/8	1219.2	1270	1584.3
PFS-60	60	62	74-3/8	1524	1575	1889.1
PFS-72	72	74	86-3/8	1828.8	1880	2193.9

ATEX COMPLIANCE

The FTI PFS drum pump has been designed for use in hazardous environments. It meets the requirements set forth by EC directive 94/9/EC. This pump is designed to operate in zone 0 where explosive atmospheres are present. All three components (drum pump tube, motor and Static Protection Kit) must be properly installed.

TEMPERATURE CLASSIFICATION

The surface temperature of the PFS pump depends upon the temperature of the fluid being pumped. Below is a chart showing the temperature class that the pump falls in for various fluid temperatures, when used in locations where the ambient air temperature is no greater than 104°F (40°C). The PFS, when used in hazardous locations, should only be used on products that allow for safe operation within these classes.

Fluid Temperature	Maximum Surface Temperature	Temperature Class	Maximum Allowable Surface Temperature
75°F (24°C)	171°F (77°C)	T5	212°F (100°C)
135°F (57°C)	185°F (85°C)	T4	275°F (135°C)
190°F (88°C)	200°F (93°C)	T4	275°F (135°C)
220°F (104°C)	208°F (97°C)	T4	275°F (135°C)

ATEX MOTOR INFORMATION



This symbol appears on labels of motors that are designed for use in hazardous atmospheres. These motors comply with the applicable standards and specifications and meet the requirements of the guidelines of the EC directive 94/9/EC (ATEX 100a). They are intended to be used in zones 1 and 2 where explosive atmospheres are likely to occur.

Complete the following checklist prior to starting installation in a hazardous area. All actions must be completed in accordance with ATEX 100a.

Checklist for installation in hazardous areas:

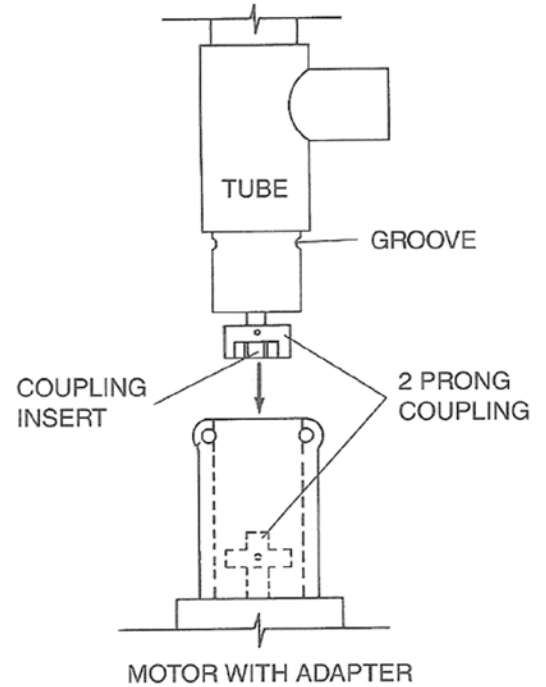
- Read motor label to check that motor has been designed for use in a hazardous application:
- Hazardous Zone
- Hazardous category
- Equipment group
- Temperature class
- Maximum surface temperatures
- Check the site environment for potentially explosive oils, acids, gases, vapors or radiation
- Check the site to make sure that the motor will be adequately ventilated and that there is no external heat input. The cooling air may not exceed 104°F/40°C.
- Check that the motor is not damaged.
- Maximum motor surface temperature should not exceed 275°F/135°C based on ATEX temperature class T4 ambient range +1C° to + 40°C (34°F / 104°F).

Installation, Assembly & Maintenance Instructions

PFS Installation

Installation

1. Remove the drum pump and motor from its packaging and inspect for shipping damage.
2. Spin the pump coupling to verify there is no binding. Verify that the black rubber coupling insert is firmly seated in the metal pump coupling.
3. Verify that the housing cover (item 16) is on tight (it has left hand threads).
4. Remove the (2) socket head screws and nuts from the motor/motor mount.
5. Position the pump and motor couplings for proper alignment.
6. Slide the pump tube and motor together until the couplings mate and are completely seated.
7. Install the (2) socket head screws and nuts and tighten securely.
8. Connect Static protection kit per diagram located below.

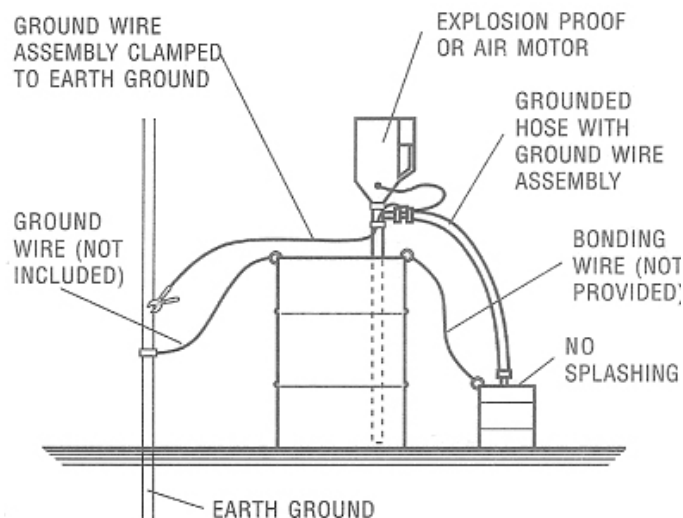


NOTE: When pumping flammable or combustible materials, DO NOT operate pump unless the static protection kit is properly connected; otherwise, the pump/motor will not comply with ATEX requirements.

Static Protection Kit Assembly

Hose attachment to pump:

1. Place the stainless steel hose clamp onto the short section of the grounded hose.
2. Slide the short section of the grounded hose assembly over the pump tubes discharge spout. Tighten the clamp. Note: The grounded hose comes with the ground wire assembly already attached.
3. Attach the ground wire assembly to the pump tube using the #8 ring terminal and supplied 8-32 x 1/4" brass screw and brass lock washer.
4. Attach the ground wire assembly to the motor (see instructions below).
5. Check electrical continuity between the clamp on the end of the ground wire assembly and the end of the grounded hose. The electrical resistance must be one (1) Ohm or less. If it is greater than one (1) Ohm, re-check all connections.



Ground wire attachment to motors:

Electric Explosion Proof:

1. Screw #10-32 plated nut onto exposed machine screw in motor housing.
2. Attach #10 ring terminal from the end of the ground wire assembly to exposed machine screw in motor housing using #10-32 plated nut and #10 lock washer.

Air Motor:

1. Remove one of the Allen head set screws from the motor mount.
2. Slide the 1/4-20 x 5/8" long round head machine screw through the 1/4" ring terminal on ground wire assembly.
3. Thread 1/4-20 plated nut onto the screw.
4. Insert the screw into the hole on the motor mount and tighten (do not over tighten).
5. Using a 7/16" wrench, tighten the 1/4-20 nut against the ring terminal.

Drum Pump Installation

1. Install the pump and Static Protection Kit as described and shown in Figure 2.
2. Connect the ground wire assembly to an earth ground using the supplied clamp.
3. Connect the ground wire between the drum and the earth ground.
4. Connect the ground wire between the receiving container and earth ground (or use a bonding wire to connect to the drum).
5. Check electrical continuity of all components before pumping. All should be one (1) Ohm or less.
6. Avoid splashing when operating the pump. Splash filling can create static electricity.

PFS Maintenance

Disassembly

1. Remove the housing cover (item 16) by turning it clockwise (left hand thread) while gripping the impeller housing (item 13).
2. Turn the impeller until a hole in the shaft can be seen through the square slot in the impeller housing (item 13), and insert 3/32 pin into the hole. Holding the pin, turn the impeller (item 15) counterclockwise (right-hand thread) and remove it.
3. Remove the impeller housing (item 13) by gripping the intake tube and turning the housing clockwise (left hand thread).
4. Place a wooden board or rubber mat on the floor (to protect the threads on the bottom of the shaft) and gently tap the shaft (item 14) on it until the inner tube (item 9), shaft sleeve (item 10), and bottom bearing (item 11) drops out. Continue to tap the shaft until both bearings (item 3) are exposed at the top of the pump.
5. Pull the bearings and shaft out through the top of the pump.

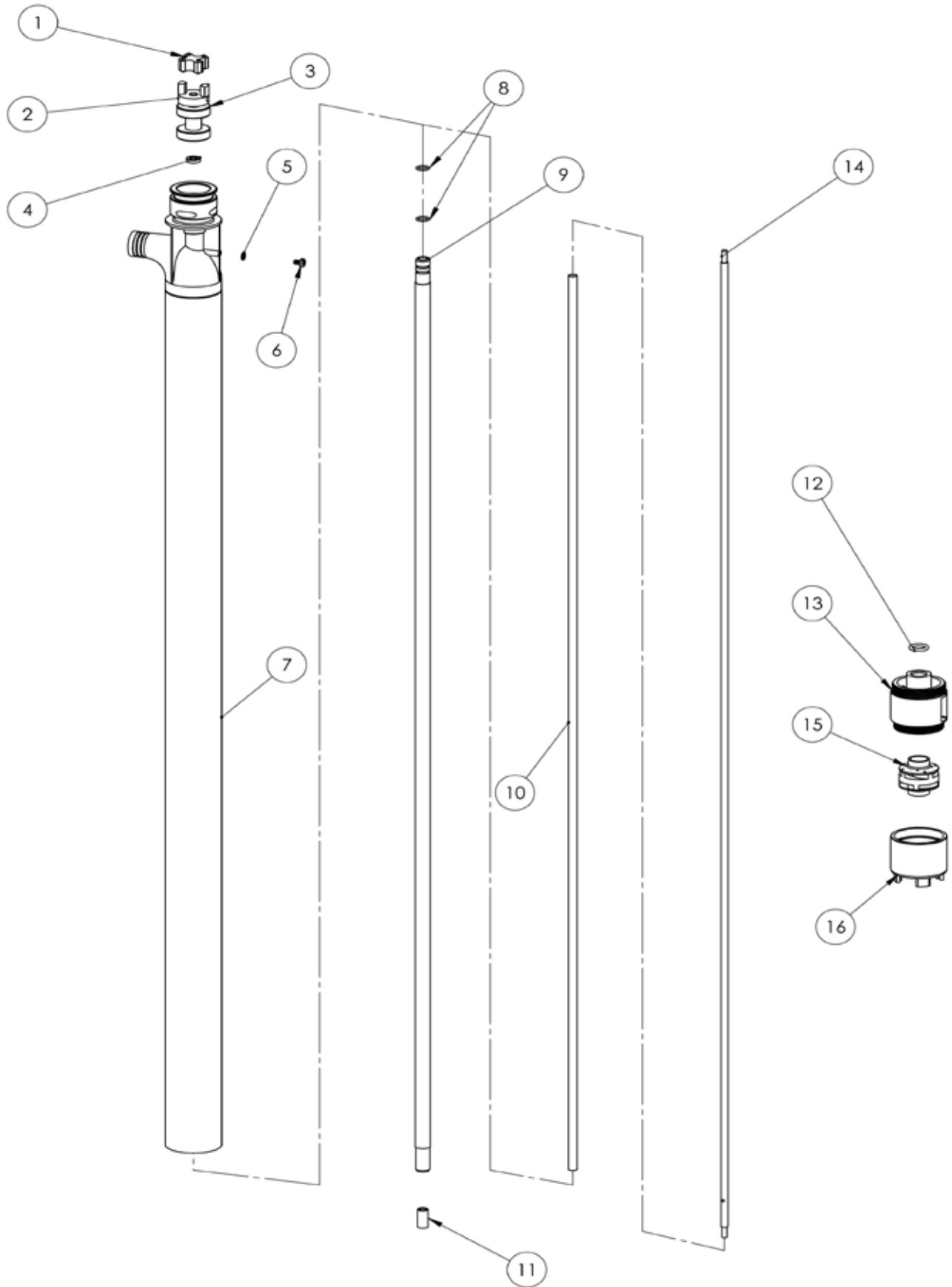
Inspection

1. Check the housing cover (item 16), the impeller (item 15), and the impeller housing (item 13) for wear, rubbing, or damage from foreign objects. Replace if damaged.
Note: The double impeller design of this pump is dependant on the impeller working correctly. Any damage to the impeller can cause pump failure.
2. Inspect the pump shaft (item 14) for wear in the bottom bearing (item 11) and the lip seal (item 4) areas. Replace the shaft if needed.
3. Inspect the bottom bearing (item 11) for internal wear. Inspect all o-rings (items 8 & 12) for nicks or chemical attack. Replace as needed.
4. Inspect the bearing assembly (item 3) for rust or corrosion.
5. If the bearing assembly needs to be replaced, unthread it from the shaft. Insert 3/32" pin into the hole at the bottom and hold the bearing assembly by the half coupling. Turn the shaft counterclockwise (right hand thread) to loosen and remove. If corroded, then a penetrating fluid may be used on the threads to help loosen.
Note: Never reuse the lip seal.

Reassembly

1. Install new lip seal (item 4) into the pump head with the grooved side facing the bottom of the pump.
2. If bearing assembly is replaced -- thread the shaft (item 14) into the bearing assembly (item 3) with the 3/32 hole in the shaft on the other end. Carefully insert the shaft straight through the lip seal (to avoid seal damage) from the top and seat the bearing assembly (item 3) into the pump head.
3. If o-rings are replaced -- install 2 inner tube o-rings (item 8) in the grooves. Install the impeller housing o-ring (item 12) inside the top of the housing. Apply a small amount of Vaseline to the o-rings to aid in assembly.
4. With the pump on a bench, slide shaft liner (item 10) into the inner tube (item 9) assembly onto the shaft until it stops. Slide the shaft liner/inner tube/shaft assembly into the outer tube (item 7) using the shaft (item 14) as a guide.
5. Slide the impeller housing over the shaft, center the bottom of the lower inner tube into the counter bore in the top of the impeller housing, and push / thread into the intake tube bottom (left hand thread).
6. Gripping the coupling at the top of the pump, thread the impeller on (right hand thread). Install the housing cover (left hand thread). turn the coupling to verify there is no binding inside the pump.

PFS ATEX SPARE PARTS EXPLODED VIEW



PUMP SPARE PARTS LIST

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	COUPLING INSERT	
			J100014
2	1	COUPLING HALF	
			J100012
3*	1	BEARING ASSEMBLY	
			A101110
4*	1	LIP SEAL	
		1/4"	107622
5	1	LOCK WASHER	
		#8 BRASS	J100823
6	1	SCREW	
		#8-32 X 1/4 BRASS PAN HEAD	J100822
7	1	INTAKE TUBE ASSEMBLY	
		27" MODELS	107619-1
		40" MODELS	107619-2
		48" MODELS	107619-3
		60" MODELS	107619-4
		72" MODELS	107619-5
8*	2	INNER TUBE O-RING	
		PERLAST	105620
9	1	STAINLESS STEEL INNER TUBE	
		27" MODELS	107616-1
		40" MODELS	107616-2
		48" MODELS	107616-3
		60" MODELS	107616-4
		72" MODELS	107616-5
10*	1	PTFE SHAFT SLEEVE	
		27" MODELS	107615-1
		40" MODELS	107615-2
		48" MODELS	107615-3
		60" MODELS	107615-4
		72" MODELS	107615-5
11*	1	BOTTOM BEARING	
		PTFE	108195
12*	1	IMPELLER HOUSING O-RING	
		PERLAST	107621
13	1	IMPELLER HOUSING	
		Stainless steel	**
14	1	SHAFT	
		27" MODELS	M100004-5
		40" MODELS	M100004-3
		48" MODELS	M100004-4
		60" MODELS	M100004-12
		72" MODELS	M100004-13
15*	1	IMPELLER ASSEMBLY	
		ETFE	A100002-3
16	1	HOUSING COVER	
		STAINLESS STEEL	**

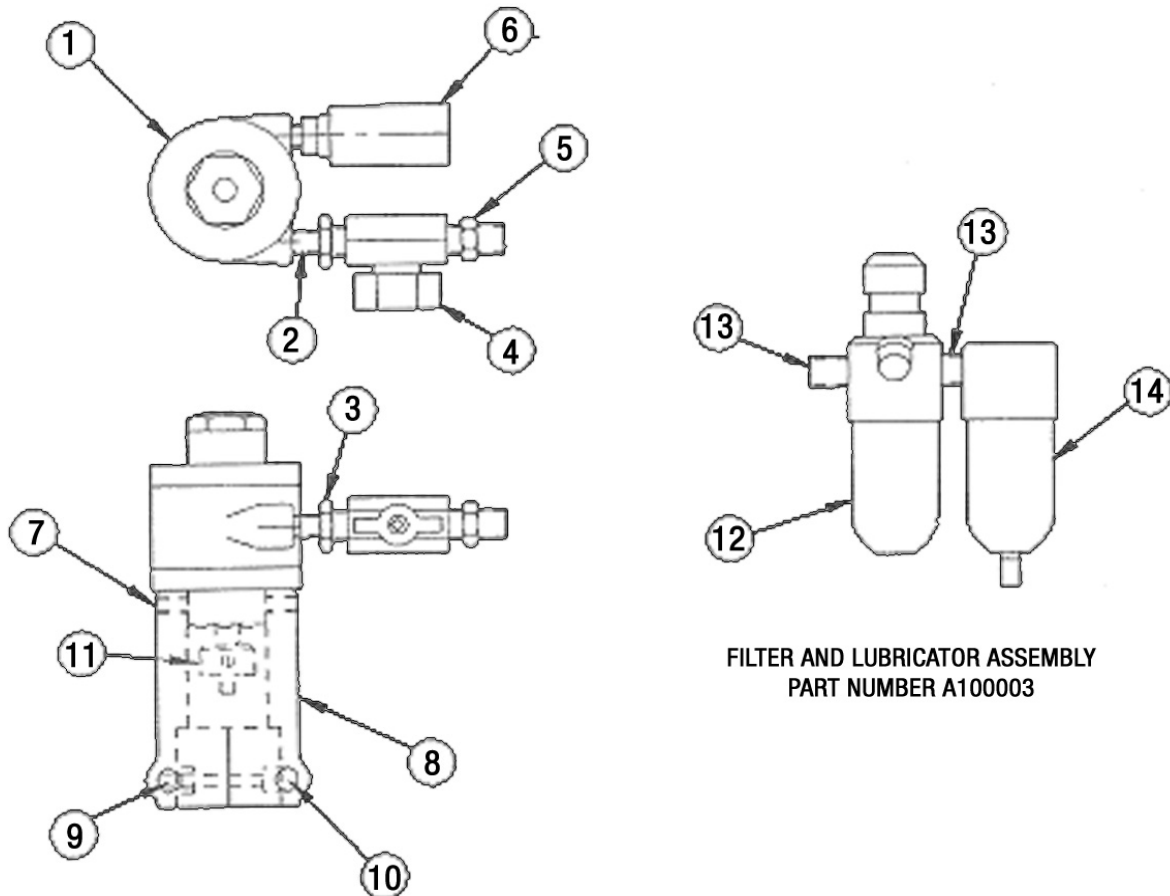
*Recommended Spare Parts

If either impeller housing or housing cover are being replaced, both **must be ordered to ensure proper fit. Part number for housing cover and impeller kit is 108130.

M6A AIR MOTOR SPARE PARTS LIST & VIEW

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	AIR MOTOR	M101717
2	1	PIPE NIPPLE	J100107
3	1	HEX REDUCER BUSHING	J100057
4	1	BALL VALVE	J100073
5	1	HOSE FITTING	J100036
6	1	MUFFLER	J100033
7	2	SET SCREW	J100040
8	1	AIR MOTOR MOUNT	M100013-3
9	2	CAP SCREW SOCKET HEAD	J100023
10	2	NUT HEX	J100024
11	1	HALF COUPLING	A101621
12	1	LUBRICATOR	J100035
13	2	PIPE NIPPLE	J102463
14	1	FILTER	J100034

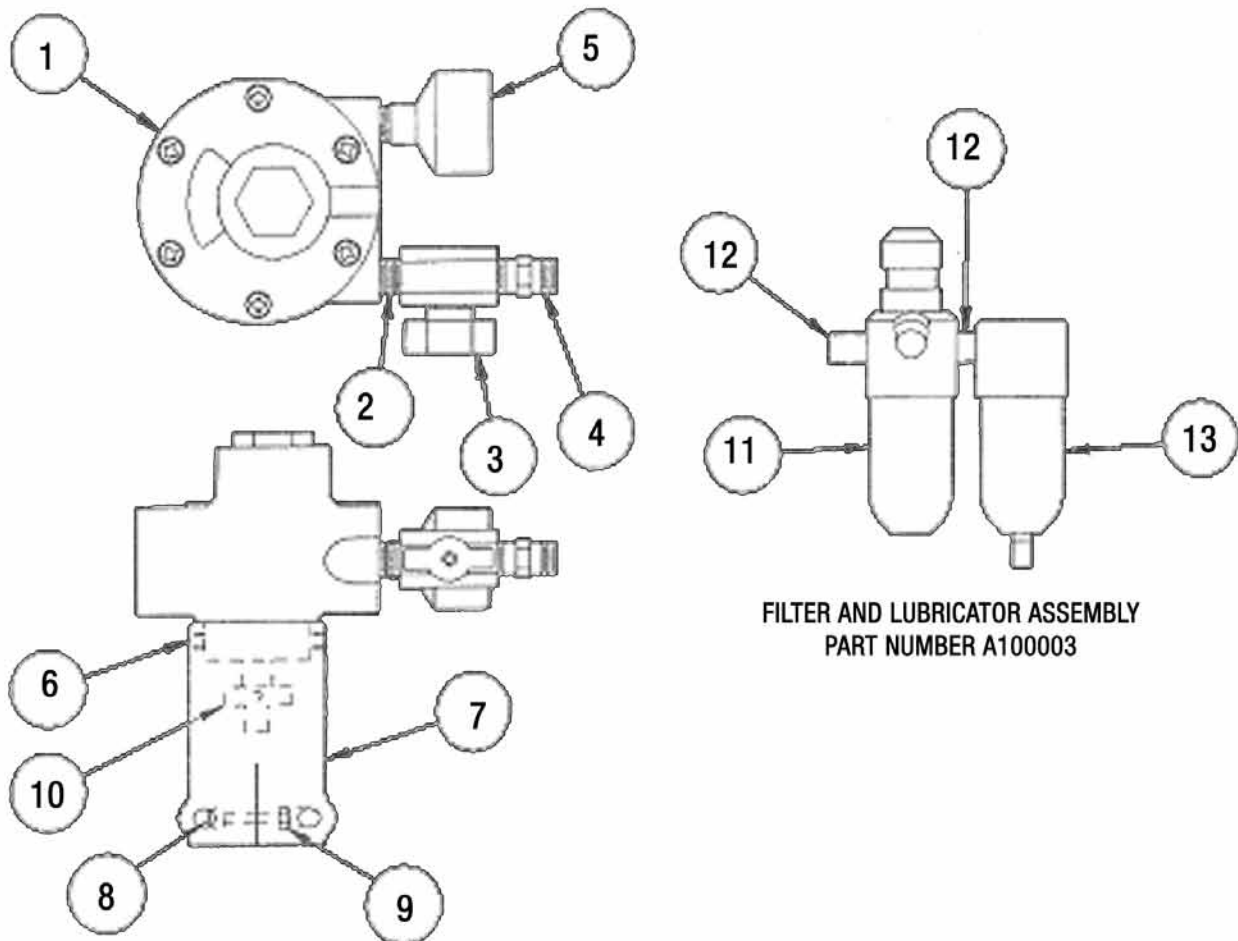
Not shown: Air Motor Repair Kit J100060



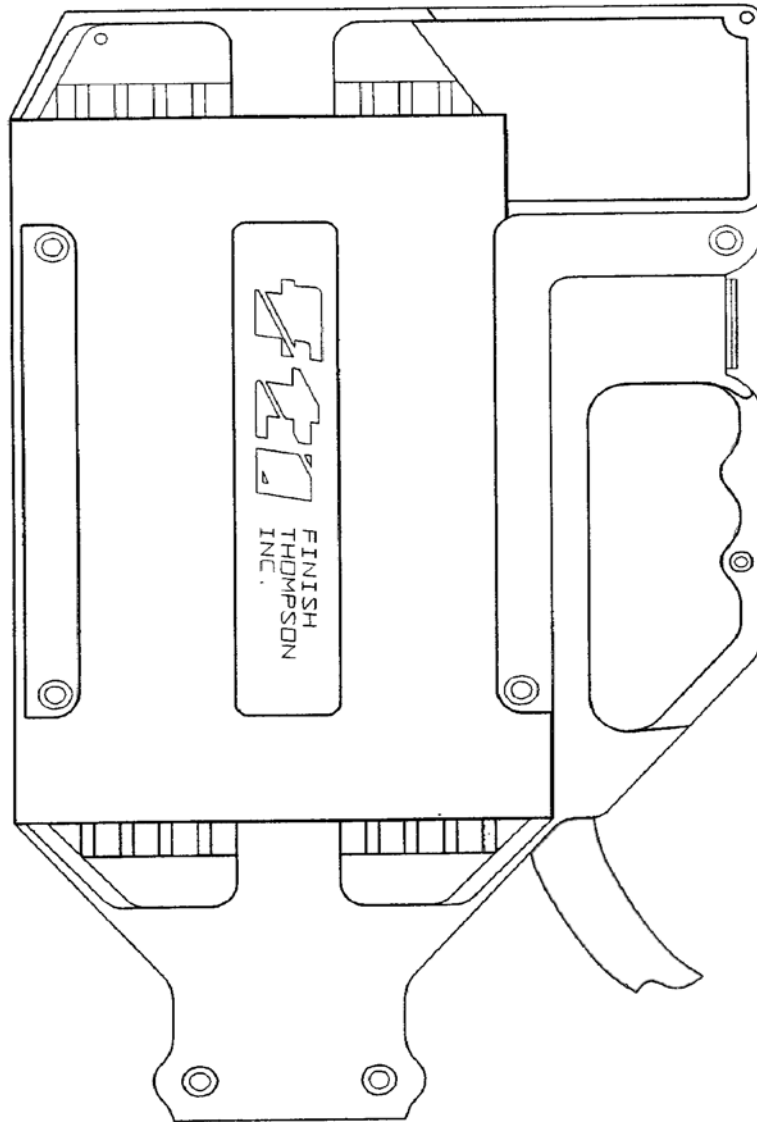
M6XA AIR MOTOR SPARE PARTS LIST & VIEW

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	AIR MOTOR	M101720
2	1	PIPE NIPPLE	J102463
3	1	BALL VALVE	J100073
4	1	HOSE FITTING	J100036
5	1	MUFFLER	J100074
6	2	SET SCREW	J100040
7	1	AIR MOTOR MOUNT	M100013-4
8	2	CAP SCREW SOCKET HEAD	J100023
9	2	NUT HEX	J100024
10	1	HALF COUPLING	A101620
11	1	LUBRICATOR	J100035
12	2	PIPE NIPPLE	J102463
13	1	FILTER	J100034

Not shown: Air Motor Repair Kit J100075



M10XA ELECTRIC MOTOR SPARE PARTS



The "M10X" Series motor housing repair kit number is A101455. **Repairs to any item other than the thermoplastic enclosure voids warranty.**

Note: Motor housing repair kits include motor covers, labels and screws to repair the motor should it be damaged.



Physical Technical Testing Institute
Ostrava-Radvanice



EC-Type Examination Certificate

- (1) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
- (2) EC-Type Examination Certificate Number:
FTZÚ 08 ATEX 0083
- (3) Equipment or protective system: **Pump motor type M10X**
- (4) Manufacturer: **Finish Thompson Inc.**
- (5) Address: **921 Greengarden Road, Erie, PA 16501-1591 USA**
- (6) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (7) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential Report N° **08/0083 dated 28 May 2008**
- (8) Compliance with Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2003 EN 60079-1:2004
- (9) If the sign „X” is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (10) This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- (11) The marking of the equipment or protective system shall include following:

Ex II 2G Ex d IIA T4

This EC-Type Examination Certificate is valid till: **31.05.2013**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 30.05.2008

Number of pages: 3
Page: 1/3

This certificate is granted subject to the general conditions of the Physical Technical Testing Institute. This certificate may only be reproduced in its entirety and without any change, schedule included.

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Physical Technical Testing Institute
Ostrava-Radvanice

(13) **Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 08 ATEX 0083**

- (15) Description of Equipment or Protective System:
One phase explosion proof induction motor of the type M10X are made with a flame proof enclosure for motors and terminal parts. The motors part with a surface cooling and the terminal compartment are made from aluminium alloy. The motor is closed by means of the front and rear ball bearing shields. Both shields are made from aluminium alloy. Behind the front shield there is a fan fastened to the shaft and it is protected by a perforated cover made from plastic material.
Overpressure test according to cl. 15.1.3.1 of the standard EN 60079-1 – 4 times the reference pressure for enclosure, by overpressure 9 bar.
Reference pressure: 1.94 bar

Technical data:

Power: 0.48 kW
Main voltage: 230 V to 240 V
Main current: 4.1 A
Frequency: 50 Hz / 60 Hz

(16) Report No.: 08/0083 dated 26.05.2008

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:
Covered by standards mentioned in (9) of this certificate.

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 30.05.2008

Page: 2/3

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Ostrava-Radvanice

(13) **Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 04 ATEX 0293X**

(15) Description of Equipment or Protective System:

A type PFS drum pump is used for transferring fluids from one container to another. There are five different lengths available for the PFS pump and they are as follows : 68, 101, 122, 152 a 183 cm. Each pump has the same construction materials and design. The pump consists of a carbon fiber filled impeller housed in a stainless steel impeller housing. A stainless steel shaft , is running through the pump tube and is supported by two bushings, drives the impeller. PFS pump can handle fluids up to 104°C (220 °F), and 330 cP. The pump is equipped by a static protection kit to connect the pump to earth ground.

The pump may be equipped by following types of air motors:

Pneumatic drive	
M6	M6X
300-6000 rpm	300-3000 rpm
0,37 kW	0,56 kW
II 2G c T5	II 2G c T5

(16) Report No. : 04/0293

(17) Special conditions for safe use:

Fluid temperature	Temperature class for ambient temperature 40°C
up to 24 °C	T5
up to 104 °C	T4

(18) Essential Health and Safety Requirements:
Covered by standard mentioned in (9) of this certificate.

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

Date of issue: 11.09.2004

Number of pages: 2

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-Physical Technical Testing Institute
Ostrava-Radvanice



EC-Type Examination Certificate

- (1) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
- (2) EC-Type Examination Certificate Number:
FTZÚ 04 ATEX 0293X
- (3) Equipment or protective system: **Drum pumps of type PFS ..**
- (4) Manufacturer : **FINISH THOMPSON INC.**
- (5) Address: **921 Greengarden Road, Erie, PA 16501-1591, USA**
- (6) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (7) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential Report N° **04/0293 dated 8 September 2004**
- (8) Compliance with Essential Health and safety requirements has been assured by compliance with:
EN 1127-1:1997 EN 13463-1:2001 EN 13463-5:2003
- (9) If the sign „X” is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (10) This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- (11) The marking of the equipment or protective system shall include following:

Ex II 1/2G c II C T5 .. T4

This EC-Type Examination Certificate is valid till:

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body

Date of issue: 11.09.2004

Number of pages: 2

This certificate is granted subject to the general conditions of the Physical Technical Testing Institute. This certificate may only be reproduced in its entirety and without any change, schedule included.

Physical Technical Testing Institute
tská 7, 716 07 Ostrava Radvanice, tel +420 596 232 715, fax +420 596 232 672, e-mail: ftzu@ftzu.cz





FINISH THOMPSON INC.

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EC DECLARATION OF CONFORMITY

Finish Thompson Inc. hereby declares that the following machines fully comply with the applicable health and safety requirements as specified by the EC Directives listed. This declaration is valid provided that the devices are fully assembled and no modifications are made to these machines.

Type of Device:
Drum or Container Pump

Pump Models:
PFS-27, PFS-40, PFS-48, PFS-60, PFS-72

EC Directives:
Equipment and protective systems intended for use in potentially
explosive atmospheres (94/9/EC)

EC-Type Examination:
Physical Technical testing Institute 1026
Ostrava-Radvanice
FTZU 04 ATEX 0293X

Product Quality Assurance Notification:
Physical Technical Testing Institute 1026
Ostrava-Radanice
FTZU 08 ATEX Q 003

Applicable Harmonized Standards:
EN 1127-1: 2007
EN 13463-1:2009
EN 13463-5:2003

Casey D. Bowes
CEO and President
January 1, 2011



FINISH THOMPSON INC

921 Greenway Road Englewood, CO 80150-1581 U.S.A.
Tel: 303-465-4678 Fax: 303-465-8518
Email: fti@finishthompson.com www.finishthompson.com

EC DECLARATION OF CONFORMITY

Finish Thompson Inc. hereby declares that the following machines fully comply with the applicable health and safety requirements as specified by the EC Directives listed. This declaration is valid provided that the devices are fully assembled and no modifications are made to these machines.

Type of Device:
Pump Motor

Pump Motor Models:
M10X

EC Directives:
Equipment and protective systems intended for use in potentially
explosive atmospheres (94/9/EC)

EC-Type Examination:
Physical Technical Testing Institute 1026
Ostrava-Radvanice
FTZU 08 ATEX 0083X

Product Quality Assurance Notification:
Physical Technical Testing Institute 1026
Ostrava-Radvanice
FTZU 08 ATEX Q 003

Applicable Harmonized Standards:
EN 60079-0:2008
EN 60079-1:2007

Casey D. Bowes
CEO and President
January 1, 2011



EC DECLARATION OF CONFORMITY

Finish Thompson Inc. hereby declares that the following machines fully comply with the applicable health and safety requirements as specified by the EC Directives listed:


Type of Device:
Pump Motor

Pump Motor Models:
M6, M6X

EC Directives:
Equipment and Protective Systems Intended For Use In Potentially
Explosive Atmospheres (94/9/EC)

Applicable Harmonized Standards:
DIN EN 1127-1:2008-02
DIN EN 13463-1:2003-06
DIN EN 13463-5: 2004-03

The products are marked with the following characteristics:

 II 2 GDc +1°C Ta +40°C

Documentation archived in FTZÚ Ostrava Radviance, EC code 1026

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



Casey D. Bowes
CEO and President
June 29, 2011

