MUNICIPAL CATALOG

2024 Rev. 2 06/01/2024



Blue-White®

Revision 1 update(03/25/24) includes the following modifications and updates:

- 1. CO² Feed System now includes injector with standard shipment.
- 2. Tube Tool no longer provided with pumps (exception M2 pump)
- 3. Changes to fittings provided with MD3 pump. Options added to part number matrix.
- 4. Spares Kits added to MD3 pump.
- 5. MD1 Standoff part number change.(Replace part #76001-966 with #90018-087)
- 6. New "Elbow" adapter options offered on MD1 pump. Revised part number matrix with options for installed adapters on pumps.
- 7. Additional adapter kits added to MD1 spare parts.
- 8. Skid Fittings (pump to skid) page added. Required kit when ordering skid with pumps that include "M" or "F" connectors.
- 9. Added F-1000 / F-2000 flow rate info to page 58, 60.
- 10. Added EP O-rings to flow meter spare parts.

Revision 2 update (07/01//24) includes the following modifications and updates:

- 1. Added spare parts for F-300M.
- 3. Added A-100NP Polymer Pump.
- 4. Added ordering notes to Skid matrices.



5300 Business DriveHuntington Beach, CA 92649

Table of Contents

POLICY	4
PERISTALTIC PUMPS	5
M1	6
M2	8
M3	10
M4	12
M5	14
A100NFP / A100NVP (Polymer)	16
Peristaltic Pump Warranty	18
DIAPHRAGM PUMPS	19
C2	20
C3	22
MD1	24
MD3	26
Diaphragm Pump Warranty	28
SKID SYSTEMS	29
Plastic	
CFPS-1	30
CFPS-2	32
CFPS-3	34
Wall	
CFWS-1	36
CFWS-2	38
Metal	
CFS-1	40
CFS-2	42
Skid Adapter Kits	44
Skid System Warranty	46
ANALYZER PANELS	47
APFCL Chlorine Analyzer	48
APNTU Turbidity Analyzer	50
APH2O Multi-Parameter Analyzer	52
Analyzer Panel Warranty	54

FLOW METERS	57
Ultrasonic Flow Meters	
MS6	58
Paddlewheel Flow Meters	
Micro-Flo	60
F-1000	62
F-2000	64
Variable Area Flow Meters	
F-300	66
F-300M	68
F-400	70
F-410	72
F-420	74
F-430	76
F-550	78
F-440	80
F-450	82
F-451	84
F-452	86
F-460	88
F-461	90
F-462	92
Flow Meter Warranty	94
TANKS AND ACCESSORIES	95
STAR III TANK	96
CHEMICAL TANK	97
ACCESSORIES	98
CO ₂ FEED SYSTEM	101
REPLACEMENT PARTS	107

POLICY

DEALERS

Please contact the factory for the stocking outlet nearest you.

MINIMUM ORDER

The minimum acceptable order is \$150.00. There are no exceptions.

TERMS

Terms are NET 30 DAYS on approved credit. We do not ship orders to accounts with past-due balances. If you have not established open account terms with Blue-White, you may prepay your order or pay with a credit card. All major credit cards are accepted.

PAYMENT POLICY

Net amount of invoice is due in full according to terms. A service charge of 1.5% will be added to outstanding balances beyond the term limit.

Any account over 45 days will be subject to credit hold.

FREIGHT

For all allowable items, our normal means of shipment is via United Parcel Service. Should you wish an alternate means of shipment, you must advise the factory at the time you place your order. All shipments ship Ex Works. Buyer assumes all responsibilities for transit and delivery.

RETURNED GOODS

Any merchandise being returned to the factory, regardless of the reason for the return, must have a Returned Merchandise Authorization number. Contact our inhouse sales staff for an RMA number. The factory does not accept C.O.D. shipments.

All returns are subject to a restock charge.

Blue-White does not permit the return of products because of overstock, discontinued products, etc. Under no circumstance will the factory consider the return of products over six months old from date of original factory shipment.

ORDER ADD-ON

Please be certain your order is complete when placed. Since orders are immediately entered into the computer as received, we may not be unable to "add-on" later. Your understanding of this situation, and your cooperation are most appreciated. Any changes to a current order may result in extended lead times.

Possession of this price schedule does not guarantee the right to purchase directly from the factory. F.O.B. Huntington Beach, CA

See instruction manual at www.blue-white.com for detailed installation and operating requirements.

PROCEDURE FOR IN WARRANTY REPAIR

Warranty service must be performed by the factory or an authorized service center. Contact the factory or local repair center to obtain a RMA (Return Material Authorization) number. It is recommended to include foot strainer and injection/check valve fitting since these devices may be clogged and part of the problem. Decontaminate, dry, and carefully pack the product to be repaired. Please enclose a brief description of the problem and proof of purchase. Prepay all shipping and insurance cost. COD shipments will not be accepted. Damage caused by improper packaging is the responsibility of the sender. When In-Warranty repair is completed, the factory pays for return shipping to the dealer or customer.

PRODUCT USE WARNING

Blue-White products are manufactured to meet the highest quality standards in the industry. Each product instruction manual includes a description of the associated product warranty and provides the user with important safety information. Purchasers, installers, and operators of Blue-White products should take the time to inform themselves about the safe operation of these products. In addition, Customers are expected to do their own due diligence regarding which products and materials are best suited for their intended applications. BLUE-WHITE is pleased to assist in this effort but does not guarantee the suitability of any particular product for any specific application as Blue-White does not have the same degree of familiarity with the application that the customer/end user has. While BLUE-WHITE will honor all of its product warranties according to their terms and conditions, Blue-White shall only be obligated to repair or replace its defective parts or products in accordance with the associated product warranties.

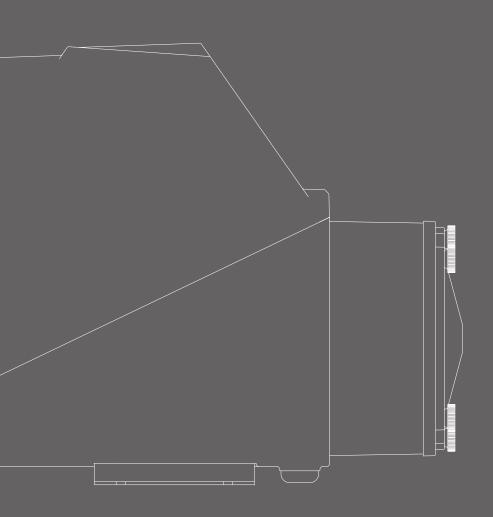
BLUE-WHITE SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE WHETHER DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF OR RELATED TO THE FAILURE OF ANY OF ITS PARTS OR PRODUCTS OR OF THEIR NONSUITABILITY FOR A GIVEN PURPOSE OR APPLICATION.

CHEMICAL RESISTANCE WARNING

BLUE-WHITE offers a wide variety of wetted parts. Purchasers, installers, and operators of Blue-White products must be well informed and aware of the precautions to be taken when injecting or measuring various chemicals, especially those considered to be irritants, contaminants or hazardous. Customers are expected to do their own due diligence regarding which products and materials are best suited for their applications, particularly as it may relate to the potential effects of certain chemicals on Blue-White products and the potential for adverse chemical interactions. Blue-White tests its products with water only. The chemical resistance information included in this instruction manual was supplied to BLUE-WHITE by reputable sources, but Blue-White is not able to vouch for the accuracy or completeness thereof. While BLUE-WHITE will honor all of its product warranties according to their terms and conditions, Blue-White shall only be obligated to repair or replace its defective parts or products in accordance with the associated product warranties.

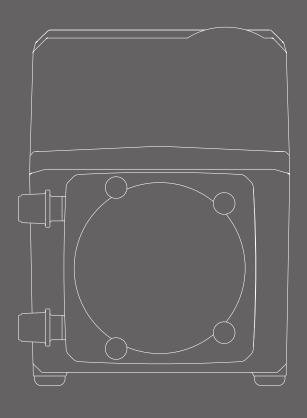
BLUE-WHITE SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, WHETHER DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF OR RELATED TO THE USE OF CHEMICALS IN CONNECTION WITH ANY BLUE-WHITE PRODUCTS.

Users of electrical and electronic equipment (EEE) with the WEEE marking per Annex IV of the WEEE Directive must not dispose of end of life EEE as unsorted municipal waste, but use the collection framework available to them for the return, recycle, recovery of WEEE and minimize any potential effects of EEE on the environment and human health due to the presence of hazardous substances. The WEEE marking applies only to countries within the European Union (EU) and Norway. Appliances are labeled in accordance with European Directive 2002/96/EC. Contact your local waste recovery agency for a Designated Collection Facility in your area.



MUNICIPAL

Peristaltic
Metering Pumps



Blue-White®

FLEXFLO® Peristaltic Metering Pump

- > Tube Failure Detection senses tube rupture, no false triggering
- > Heavy duty display shield protects pump controls
- > Remote Start/Stop, which is one non-powered dry contact closure
- > Relay outputs include a single 250V/3A and a single solid state
- > SCADA I/O include: 4-20 mA input, 4-20 mA output



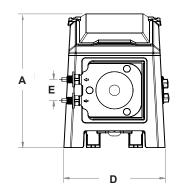
Highlights

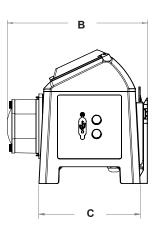
Flow range	Pressures up to	Turndown ratio	Suction lift
.0001 - 5.60 GPH	100 PSI	10,000:1	30 ft.
.0004 – 21.2 LPH	(6.89 bar)		(at sea level)

Exclusive	Motor	Pump Weight	Warranty
Tube Failure Detection	Brushless	6 lb.	5 Years
(TFD+)	DC	(2.7 kg)	

Dimensions

Dim	Inch	cm	Dim	Inch	cm
Α	9"	22.9	D	7.25"	19.6
В	10"	25.2	E	2.5"	18.5
С	7.75"	19.6			





What's in the box-

M1 Peristaltic Metering Pump w/ removable power cord. Two tube assemblies (One installed, one spare)

Mounting hardware kit / Rear bracket

Display shield

Instruction Manual

Optional Accessories Not included (ordered separately): Suction tubing/Discharge tubing, Injection Valves, Suction strainer, M12 communication cables, or Wall Mount Bracket.



Model Number Matrix FLEXFLO® Model Number

M1

FLEXFLO® Peristaltic Metering Pump

Power Cord (Operating voltage requirement 96VAC to 264VAC)

- 115V 50/60Hz, power cord NEMA 5/15 plug (US) (detachable 6 ft)
- 6 220V 50/60Hz, power cord CEE 7/V11 plug (EU) (detachable - 6 ft)
- X No Power Cord (Power cord is required - See accessories for power cord options)

Pump Tube Size and Material

- 1/4" OD Flex-A-Thane® | 0.0001 1.09 GPH | .0069 69 mL/Min | 65 PSI (4.5 bar)
- 3 7/16" OD Flex-A-Thane® | 0.0005 - 5.60 GPH | .0353 - 353 mL/Min | 50 PSI (3.45 bar)
- 4 1/4" OD Flex-A-Prene® | 0.0001 - 0.44 GPH | .0028 - 28 mL/Min | 100 PSI (6.89 bar)
- 6 3/8" OD Flex-A-Prene® | 0.0001 - 1.35 GPH | .0085 - 85 mL/Min | 100 PSI (6.89 bar)
- 7/16" OD Flex-A-Prene® | 0.0004 4.17 GPH | .0263 263 mL/Min | 50 PSI (3.45 bar) 7
- 8 7/16" OD Flex-A-Chem® | 0.0003 - 3.09 GPH | .0195 - 195 mL/Min | 50 PSI (3.45 bar)

Inlet/Outlet Connection Size, Connection Type

- 3/8" OD x 1/4" ID Tube Compression Fitting
- М 1/2" Male NPT Fitting
- MB 1/2" Male BSPT Fitting, Natural PVDF (Kynar)

Sample Model Number

Accessories



KIT-S07 KIT-S15 **KIT-S30**

* Includes cover and foot valve

KIT-S07 (7 Gallon), KIT-S15 (15 Gallon), KIT-S30 (30 Gallon) STAR III TANKS, PP







USB A-C CABLE - 3 ft

90010-663 115V/60Hz NEMA 5/15 90010-664 220V/50Hz CEE 7/V11 90010-665 230V/50Hz BS 1363/A 90010-666 240V/50Hz AS 3112 90010-696 230V60Hz NEMA 6/15 90010-821 115V Lockable

POWER CABLES - 6 ft



KIT-M12 TWO M12 CABLES - 9.8 ft



Visit Accessory Pages for More Options



1/4" x 3/8 clear PVC suct. tubing



1/4" x 3/8" PE disch. tubing

M2

FLEXFLO® Peristaltic Metering Pump

- > Peristaltic pump design does not have valves that can clog requiring maintenance
- > Self priming even against maximum line pressure
- > Patented Tube Failure Detection (TFD) senses tube failure by detecting chemical in the pump head, no false triggering
- > SCADA Inputs/Outputs include: 4-20mA input, Pulse Input, Frequency Input,

4-20ma output, TFD alarm output



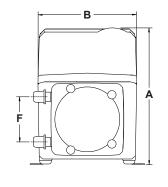
Highlights

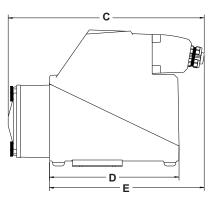
Flow range	Pressures up to	Turndown ratio	Suction lift
.0085 - 21.23 GPH	125 PSI	200 : 1	30 ft.
.032 - 80.4 LPH	(8.6 bar)		(at sea level)

Exclusive	Motor	Pump Weight	Warranty
Tube Failure Detection	Brushed	28.4 lb.	5 Years
(TFD)	DC Motor	(12.9 kg)	

Dimensions

Dim	Inch	cm	Dim	Inch	cm
Α	10-1/4"	26	D	9-1/2"	24.1
В	7-1/2"	19	E	11"	27.9
С	14"	35.6	F	3-3/8"	8.6





What's in the box-

M2 Peristaltic Metering Pump

Two tube assemblies (One installed, one spare)

Tube installation tool

Mounting hardware kit (Includes Standard and Extended Mounting Brackets) USB Drive (Operating Manual)

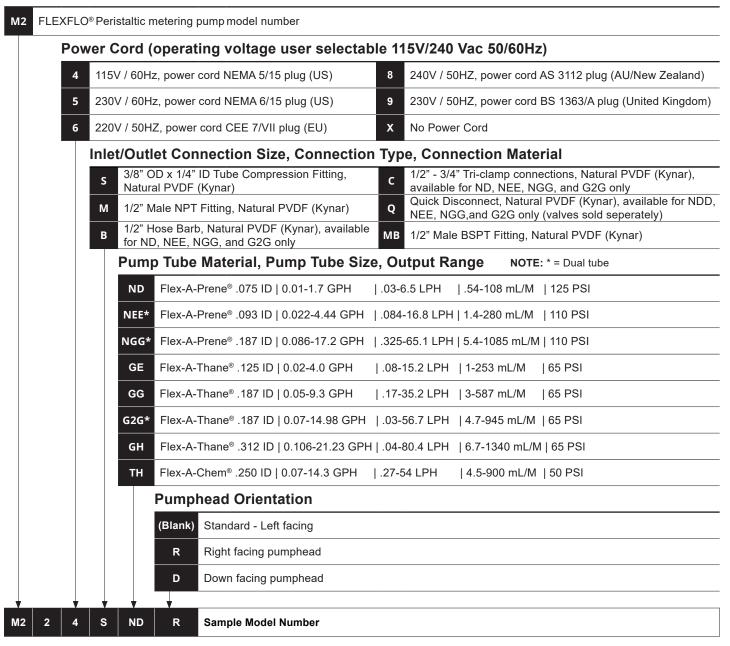
Optional Accessories Not included (ordered separately): Suction tubing/Discharge tubing, Injection Valves, Suction strainer, Quick Disconnect fittings, communication cables, or Wall Mount Bracket.



Index Website Product Page Replacement Parts Accessories

Model Number Matrix

FLEXFLO® Model Number



Accessories







Visit Accessory Pages for More Options

M2

M3

FLEXFLO® Peristaltic Metering Pump

- > 5" touchscreen color LCD display
- > User-friendly configurations
- > Self priming peristaltic metering pump delivers smooth chemical feed
- > Tube Failure Detection (TFD) system senses tube failure
- > Inputs include: 4-20mA, Remote Start/Stop, Pulse Inputs, Industrial Protocols
- > Outputs include: 4-20mA, Frequency, (4) Alarm Outputs, Industrial Protocols



Highlights

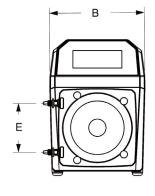
Flow range	Pressures up to	Turndown ratio	Suction lift
.0002 - 33.3 GPH	125 PSI	10,000 : 1	30 ft.
.0007 - 126 LPH	(8.6 bar)		(at sea level)

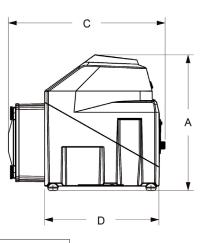
Accessories

Exclusive	Motor	Pump Weight	Warranty
Tube Failure Detection	Brushless	25.4 lb.	5 Years
(TFD)	DC Motor	(11.5 kg)	

Dimensions

Dim	Inch	cm	Dim	Inch	cm
Α	11-3/4"	29.8	D	10.5"	26.5
В	8-1/4"	20.9	E	4-1/4"	10.8
С	13-1/2"	34.5			





What's in the box-

M3 Peristaltic Metering Pump w/ removable power cord Two tube assemblies (1 installed, 1 spare)

Tube installation tool

Mounting hardware kit (Includes Standard and Extended Mounting Brackets)

QR Code link to Operating Manual

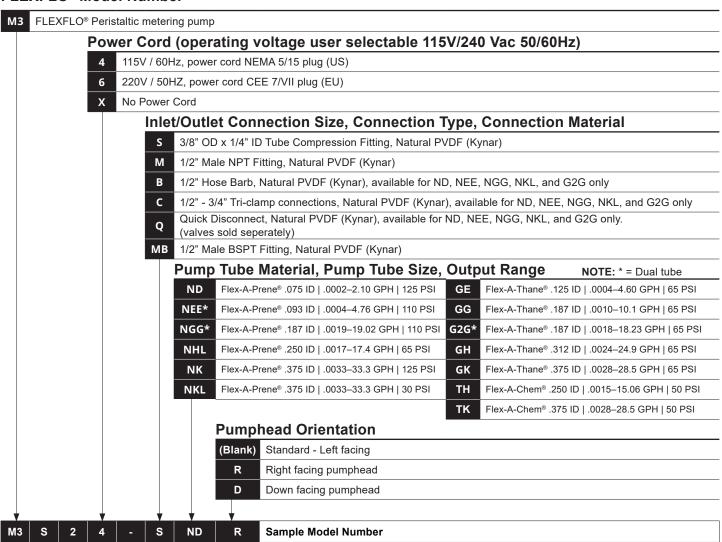
Optional Accessories Not included (ordered separately): Suction tubing/Discharge tubing, Injection Valves, Suction strainer, Quick Disconnect fittings, M12 communication cables, Ethernet/Modbus cables, or Wall Mount Bracket.



Index Website Product Page Replacement Parts Accessories

Model Number Matrix

FLEXFLO® Model Number



Accessories







90010-663 115V/60Hz NEMA 5/15 90010-664 220V/50Hz CEE 7/V11 90010-665 230V/50Hz BS 1363/A 90010-666 240V/50Hz AS 3112 90010-696 230V/60Hz NEMA 6/15 90010-711 115V Lockable

POWER CABLES - 6 ft

A-014NK-6A
Injector, PVDF, 1/4" "S" Conn.



FLEXFLO® Peristaltic Metering Pump

- > 5" touchscreen color LCD display
- > User-friendly configurations
- > Self priming peristaltic metering pump delivers smooth chemical feed
- > Tube Failure Detection (TFD) system senses tube failure
- > Inputs include: 4-20mA, Remote Start/Stop, Pulse Inputs, Industrial Protocols
- > Outputs include: 4-20mA, Frequency, (4) Alarm Outputs, Industrial Protocols



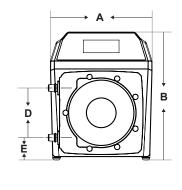
Highlights

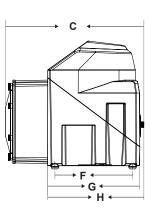
Flow range	Pressures up to	Turndown ratio	Suction lift
.0028 - 158.5 GPH	125 PSI	10,000 : 1	30 ft.
.0108 - 600 LPH	(8.6 bar)		(at sea level)

Exclusive	Motor	Pump Weight	Warranty
Tube Failure Detection	Brushless	45.5 lb.	5 Years
(TFD)	DC Motor	(20.64 kg)	

Dimensions

Dim	Inch	cm	Dim	Inch	cm
Α	12.1"	30.8	E	2.7"	6.8
В	15.3"	38.8	F	9.3"	23.5
С	16.5"	41.9	G	11.0"	27.8
D	5.9"	15.0	Н	11.5"	29.2





What's in the box-

M4 Peristaltic Metering Pump w/ removable cord

Two tube assemblies

Tube installation tool

Mounting hardware kit (Includes Standard and Extended Mounting Brackets)

QR Code link to Operating Manual

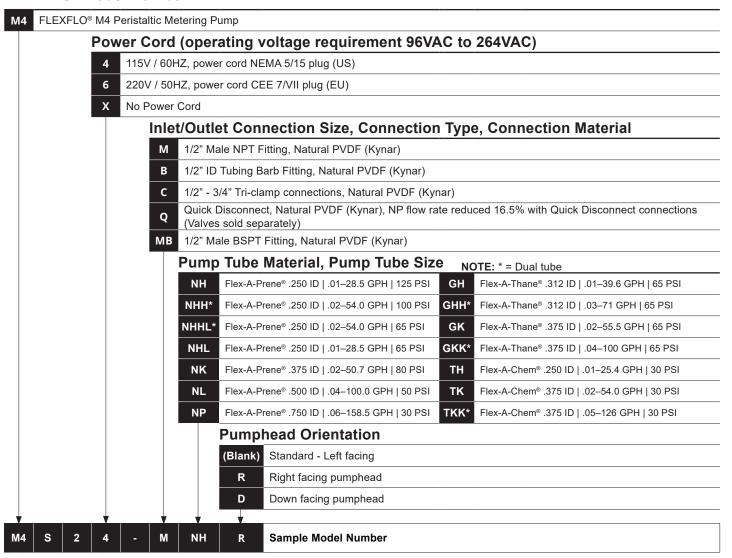
Optional Accessories Not included (ordered separately): Suction tubing/Discharge tubing, Injection Valves, Suction strainer, Quick Disconnect fittings, M12 communication cables, Ethernet/Modbus cables, or Wall Mount Bracket.



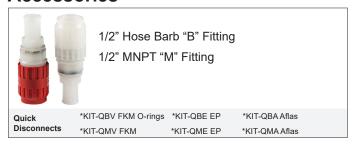
Index Website Product Page Replacement Parts Accessories

Model Number Matrix

FLEXFLO® Model Number



Accessories







90010-663 115V/60Hz NEMA 5/15 90010-664 220V/50Hz CEE 7/V11 90010-665 230V/50Hz BS 1363/A 90010-666 240V/50Hz AS 3112 90010-696 230V/60Hz NEMA 6/15 90010-711 115V Lockable

POWER CABLES - 6 ft





M4

M5

FLEXFLO® Peristaltic Metering Pump

- > 5" touchscreen color LCD display
- > User-friendly configurations
- > Self priming peristaltic metering pump delivers smooth chemical feed
- > Tube Failure Detection (TFD) system senses tube failure
- > Inputs include: 4-20mA, Remote Start/Stop, Pulse Inputs, Industrial Protocols
- > Outputs include: 4-20mA, Frequency, (4) Alarm Outputs, Industrial Protocols



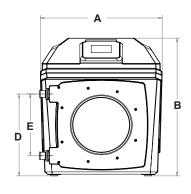
Highlights

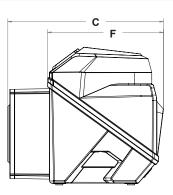
Flow range	Pressures up to	Turndown ratio	Suction lift
.0076 - 534 GPH	65 PSI	10,000 : 1	30 ft.
.0286 - 2041 LPH	(4.4 bar)		(at sea level)

Exclusive	Motor	Weight	Warranty
Tube Failure Detection	Brushless	178 lb.	5 Years
(TFD)	DC Motor	(80.7 kg)	

Dimensions

Dim	Inch	cm	Dim	Inch	cm
Α	25.7"	65.2	D	17.9"	45.4
В	30.1"	76.4	E	13.5"	34.3
С	32.8"	83.3	F	24.4"	62.0





What's in the box-

M5 Peristaltic Metering Pump w/ removable cord

One complete tube assembly (installed)

One Replacement Tube Kit

Floor Mounting Brackets

QR Code link to Operating Manual

Optional Accessories Not included (ordered separately): Suction tubing/Discharge tubing, Injection Valves, Suction strainer, M12 communication cables, Ethernet/Modbus cables.

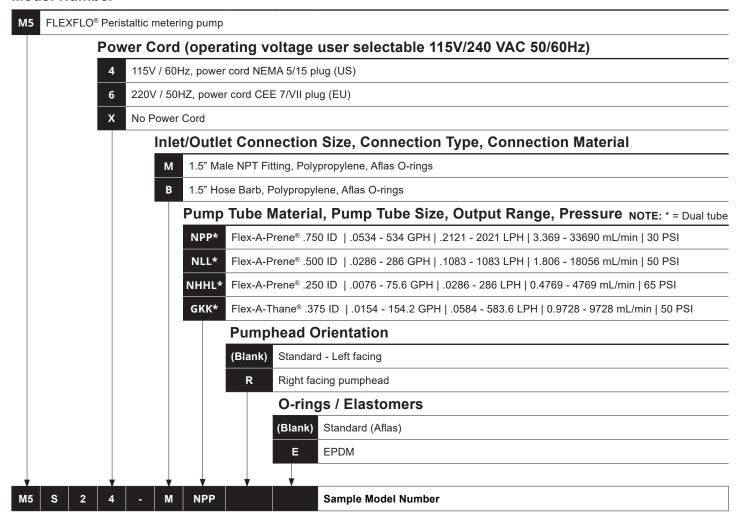


Index Website Product Page Replacement Parts Accessories

Model Number Matrix

M5

Model Number



Accessories









*KIT-M12-3 Three M12 Cables and KIT-M12-6 Six M12 Cables also available.

Visit Accessory Pages for More Options

A-100N (Polymer) FLEXFLO® Peristaltic Metering Pump

- > Enhanced Tube Failure Detection (TFD+) detects oil and water based polymers
- > Gentle pumping action for long chain polymers
- > Ideal for low and high viscosity fluids
- > Manual and Digital 4-20ma speed control models.



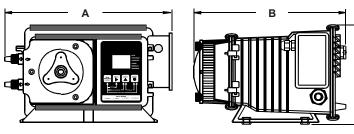
Highlights

Index

Flow range	Pressures up to	Turndown ratio	Suction lift
.1 - 5.2 GPH .4 - 20 LPH	65 PSI (4.5 bar)	20 : 1	30 ft. Water, 0 psig (9.14 m, 0 bar)
Exclusive	Motor	Weight	Warranty
Tube Failure Detection (TFD+)	Brushed DC	8 lb. (3.63 Kg)	1 Year

Dimensions

Dim	Inch	cm
Α	9.50"	24.10
В	9.125"	23.18
С	6.00"	15.24



*Polymer Units A-100NVP, A-100NFP only

What's in the box

A100N Peristaltic Metering Pump Two tube assemblies (one installed, one spare) Suction tube - clear PVC 5' length (3/8" OD, 1/4" ID) Suction strainer (C-342-6) Suction ceramic weight Discharge tube – opaque polyethylene

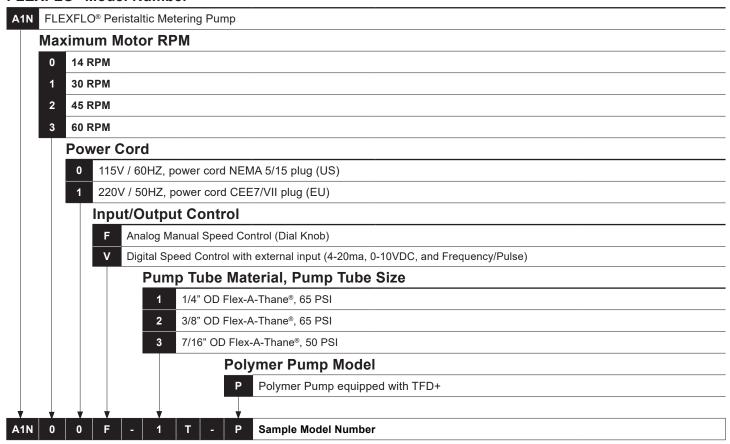
5' length (3/8" OD, 1/4" ID) Discharge injection fitting with 1/2 psi check (A-014N-6A) Mounting hardware kit Display shield Tube nuts (x2) Silicon Oil, 5 ml bottle Instruction manual

Index Website Product Page Replacement Parts Accessories Page

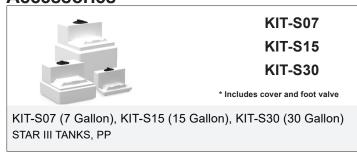
Model Number Matrix

A100NP

FLEXFLO® Model Number



Accessories













Visit Accessory Pages for more Options

PERISTALTIC PUMP WARRANTY

LIMITED WARRANTY

Your Blue-White product is a quality product and is warranted for a specific time from date of purchase (proof of purchase is required). The product will be repaired or replaced at our discretion. Failure must have occurred due to defect in material or workmanship and not as a result of operation of the product other than in normal operation as defined in the product manual. Warranty status is determined by the product's serial label and the sales invoice or receipt. The serial label must be on the product and legible. The warranty status of the product will be verified by Blue-White or a factory authorized service center. Pump Head and roller assembly is warrantied against damage from chemical attack when proper TFD (Tube Failure Detection) system instructions and maintenance procedures are followed.

FLEXFLO® M1, M2, M3, M4, and M5 pumps are warranted for 5 years from date of purchase (proof of purchase is required). Pumps will be repaired or replaced at our discretion. Pump Head and roller assembly is warrantied for 2 years against damage from chemical attack when proper TFD (Tube Failure Detection) system instructions and maintenance procedures are followed.

WHAT IS NOT COVERED

- FLEXFLO® Pump Tube Assemblies and rubber components
 They are perishable and require periodic replacement.
- Pump removal, or re-installation, and any related labor charge.
- Freight to the factory, or service center.
- Products that have been tampered with, or in pieces.
- Damage resulting from misuse, carelessness such as chemical spills on the enclosure, abuse, lack of maintenance, or alteration which is out of our control.
- Damage by faulty wiring, power surges or acts of nature.

BLUE-WHITE does not assume responsibility for any loss, damage, or expense directly or indirectly related to or arising out of the use of its products. Failure must have occurred due to defect in material or workmanship and not as a result of operation of the product other than in normal operation as defined in the pump manual

Warranty status is determined by the pump's serial label and the sales invoice or receipt. The serial label must be on the pump and legible. The warranty status of the pump will be verified by Blue-White or a factory authorized service center.

PROCEDURE FOR IN WARRANTY REPAIR

Warranty service must be performed by the factory or an authorized service center. Contact the factory or local repair center to obtain a RMA (Return Material Authorization) number. It is recommended to include foot strainer and injection/ check valve fitting since these devices may be clogged and part of the problem. Decontaminate, dry, and carefully pack the product to be repaired. Please enclose a brief description of the problem and proof of purchase. Prepay all shipping and insurance cost. COD shipments will not be accepted. Damage caused by improper packaging is the responsibility of the sender. When In-Warranty repair is completed, the factory pays for return shipping to the dealer or customer.

PRODUCT USE WARNING

Blue-White products are manufactured to meet the highest quality standards in the industry. Each product instruction manual includes a description of the associated product warranty and provides the user with important safety information. Purchasers, installers, and operators of Blue-White products should take the time to inform themselves about the safe operation of these products. In addition, Customers are expected to do their own due diligence regarding which products and materials are best suited for their intended applications. BLUE-WHITE is pleased to assist in this effort but does not guarantee the suitability of any particular product for any specific application as Blue-White does not have the same degree of familiarity with the application that the customer/end user has. While BLUE-WHITE will honor all of its product warranties according to their terms and conditions, Blue-White shall only be obligated to repair or replace its defective parts or products in accordance with the associated product warranties.

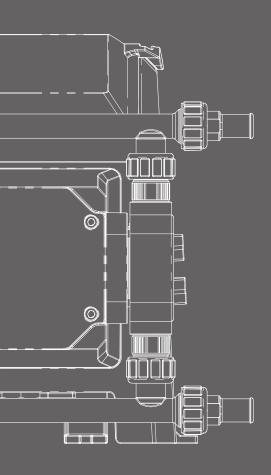
BLUE-WHITE SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE WHETHER DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF OR RELATED TO THE FAILURE OF ANY OF ITS PARTS OR PRODUCTS OR OF THEIR NONSUITABILITY FOR A GIVEN PURPOSE OR APPLICATION.

CHEMICAL RESISTANCE WARNING

BLUE-WHITE offers a wide variety of wetted parts. Purchasers, installers, and operators of Blue-White products must be well informed and aware of the precautions to be taken when injecting or measuring various chemicals, especially those considered to be irritants, contaminants or hazardous. Customers are expected to do their own due diligence regarding which products and materials are best suited for their applications, particularly as it may relate to the potential effects of certain chemicals on Blue-White products and the potential for adverse chemical interactions. Blue-White tests its products with water only. The chemical resistance information included in this instruction manual was supplied to BLUE-WHITE by reputable sources, but Blue-White is not able to vouch for the accuracy or completeness thereof. While BLUE-WHITE will honor all of its product warranties according to their terms and conditions, Blue-White shall only be obligated to repair or replace its defective parts or products in accordance with the associated product warranties.

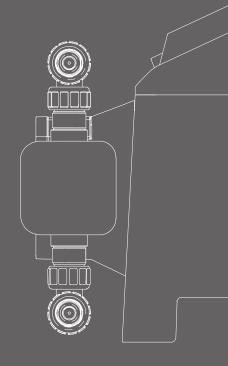
BLUE-WHITE SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, WHETHER DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF OR RELATED TO THE USE OF CHEMICALS IN CONNECTION WITH ANY BLUE-WHITE PRODUCTS.

Users of electrical and electronic equipment (EEE) with the WEEE marking per Annex IV of the WEEE Directive must not dispose of end of life EEE as unsorted municipal waste, but use the collection framework available to them for the return, recycle, recovery of WEEE and minimize any potential effects of EEE on the environment and human health due to the presence of hazardous substances. The WEEE marking applies only to countries within the European Union (EU) and Norway. Appliances are labeled in accordance with European Directive 2002/96/EC. Contact your local waste recovery agency for a Designated Collection Facility in your area.



MUNICIPAL

Diaphragm Metering Pumps



Blue-White®

CHEM-FEED® Diaphragm Metering Pump



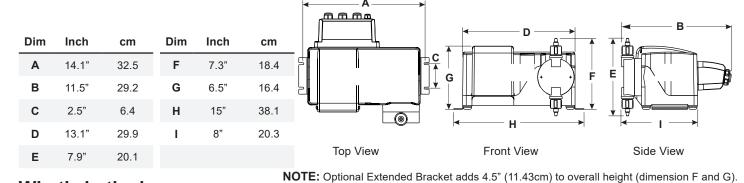
- > Built-in leak detection (DFD) senses diaphragm failure
- > Patented DiaFlex® offers zero breakdown, reducing maintenance
- > 4-20mA input and 4-20mA output on V model
- > Heavy duty PVDF pump head and valves are standard

Highlights

Flow range	Pressures up to	Turndown ratio	Suction lift
.02 - 16.5 GPH	175 PSI	100 : 1	15 ft.
.1 - 62.5 LPH	(12 bar)		(at sea level)

Exclusive	Motor	Weight	Warranty
Diaphragm Failure	Brushed	24 lb.	2 Years
Detection (DFD)	DC Motor	(10.9 kg)	

Dimensions



What's in the box

C2 Diaphragm Metering Pump

Option "E" - 1/2" M/NPT inlet and outlet, with 1/2" M/NPT injection fitting

• ½" M/NPT injector • ½" M/NPT foot valve Option "A,B,C" – ½" ID x 3/4" OD tubing pump head

Option "F" - 1/2" F/NPT inlet and outlet, with 1/2" M/NPT injection fitting

• 1/2" M/NPT injector • 1/2" M/NPT foot valve Mounting hardware kit Junction box connectors

QR Code link to Operating Manual

Discharge injection fitting with check valve

• ½" hose barb injector • ½" hose barb foot valve

- Tubing and hose clamp
- Option "D" 1/4" ID x 3/8" OD Tubing pump head
- · Suction foot valve and ceramic weight
- Injector, suction tubing 10 ft.
- · discharge tubing 10ft.



Index Website **Product Page** Replacement Parts Accessories

Model Number Matrix

Model Number

C2 Diaphragm metering pump

Series

- Single manual output control (manual/local control only)
- Multiple automatic input output control and alarm modes (remote control)

Input Voltage

- 115V / 60Hz, power cord NEMA 5/15 plug (US) 240V / 50HZ, power cord AS 3112 plug (AU/New Zealand)
- 230V / 60Hz, power cord NEMA 6/15 plug (US) 230V / 50HZ, power cord BS 1363 plug (UK)
- 220V / 50HZ, power cord CEE 7/VII plug (EU)

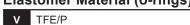
CAM Stroke Length and Diaphragm Size

- .060" (1.52 mm) stroke with small diaphragm | .10-10 GPH | 175 PSI
- 2 .060" (1.52 mm) stroke with large diaphragm | .165-16.5 GPH | 175 PSI
- 3 .040" (1.02 mm) stroke with small diaphragm | .067-6.7 GPH | 175 PSI
- .040" (1.02 mm) stroke with Micro-Feed | .02-2.3 GPH | 150 PSI
- .060" (1.52 mm) stroke with Micro-Feed | .04-4.0 GPH | 150 PSI

Electrical Options

X Standard equipment

Elastomer Material (o-rings)



Fitting Connection Types

1/2" Hose Barb Inlet, 1/2" Male NPT Outlet, with 1/2" Male NPT Injection Fitting

EP (Ethylene Propylene)

- 1/2" Hose Barb Inlet, 1/2" Female NPT Outlet, with 1/2" Male NPT Injection Fitting
- 1/2" Hose Barb Inlet and Outlet, with 1/2" ID Hose Barb Injection Fitting
- 3/8" OD Tube Compression Inlet, Outlet, and Injection Fitting
- Ε 1/2" Male NPT Inlet and Outlet, with 1/2" Male NPT Injection Fitting
- 1/2" Female NPT Inlet and Outlet, with 1/2" Male NPT Injection Fitting

Diaphragm Type

(Blank) Standard DiaFlex® Diaphragm

S Flex-A-Prene® Diaphragm (Caustic Soda resistant diaphragm)

2 Sample Model Number

Accessories



Wall Mount Bracket, HDPE



71000-555

PVDF INJECTOR, 1/4" ID tubing 71000-579

PVDF INJECTOR.1/2" Hose Barb 71000-577

PVDF INJECTOR, 1/2" MNPT

Visit Accessory Pages for More Options



C-334-6-10

Suction Tubing, Clear PVC 1/4"x 3/8", 10 ft C-335-6-25

Discharge Tubing, PE, 1/4" x 3/8", 25 ft 76001-361

Suction Tubing, Clear PVC, 1/2" ID, 8ft 90008-437

Discharge Tubing, Braided PVC, 1/2" ID

Ball Check Cartridge Options

C2

20000-228

Ball Check Cart. Hastelloy Balls 20000-229

Ball Check Cart. PTFE Balls

70001-409 (2 req.)

Ball Check Cart., Single Ceramic Ball with Hastelloy Spring

C3

CHEM-FEED® Diaphragm Metering Pump

BAN-WINE CHEM-FEED

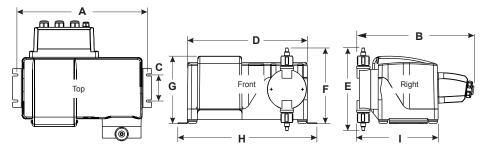
- > Built-in leak detection (DFD) senses diaphragm failure
- > Exclusive Patented DiaFlex® diaphragm
- > Signal inputs include: 4-20mA ("V" Model), pulse inputs ("V" Model), and Remote start/stop
- > Signal outputs include: Relay (3 amp) and 4-20mA ("V" Model)

Highlights

Flow range	Pressures up to	Turndown ratio	Suction lift
.262 - 40.6 GPH	150 PSI	100 : 1	15 ft. Water, 0 psig
.99 - 154 LPH	(10.3 bar)		(4.5 m, 0 bar)
Exclusive	Motor	Weight	Warranty
Diaphragm Failure	Brushed	31 lb.	2 Years
Detection (DFD)	DC	(14.06 Kg)	

Dimensions

Dim	Inch	cm	Dim	Inch	cm
Α	14.1"	35.8	F	7.8"	19.8
В	12"	30.5	G	6.5"	16.5
С	2.5"	6.4	Н	15"	38.1
D	13.1"	33.3	1	8"	20.3
E	9"	22.9			



NOTE: Optional Extended Bracket adds 4.5" (11.43cm) to overall height (dimension F and G).

What's in the box-

C2 Diaphragm Metering Pump Discharge injection fitting with check valve

Option "A", "B" $-\frac{1}{2}$ " ID x 3/4" OD tubing pump head

- ½" M/NPT injector ½" hose barb foot valve
- Tubing and hose clamp

Option "C" - 1/2" ID x 3/4" OD tubing pump head

- 1/2" hose barb injector 1/2" hose barb foot valve
- Tubing and hose clamp

 $\mbox{\bf Option}$ "E" $-1\!\!/\!\!\!2$ M/NPT inlet and outlet, with $1\!\!/\!\!\!2$ M/NPT injection fitting

• 1/2" M/NPT injector • 1/2" M/NPT foot valve

Option "F" – $\frac{1}{2}$ " F/NPT inlet and outlet, with $\frac{1}{2}$ " M/NPT injection fitting

 ½" M/NPT injector • ½" M/NPT foot valve Mounting hardware kit Junction box connectors

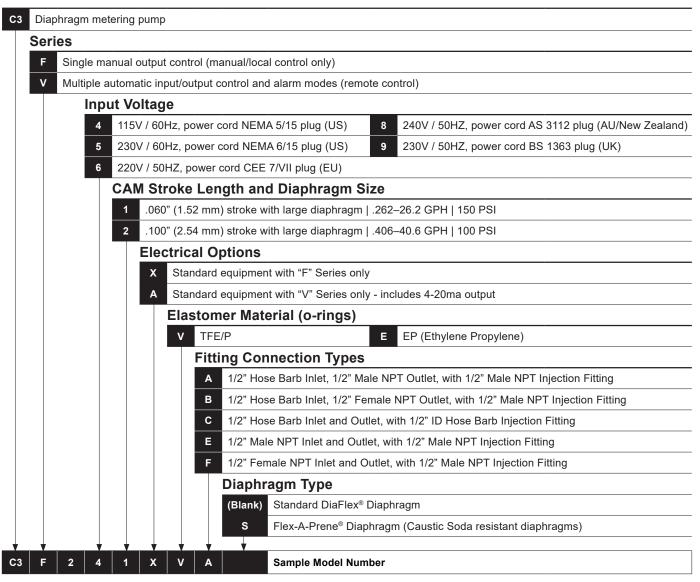
QR Code link to Operating Manual



<u>Index</u> <u>Website</u> <u>Product Page</u> <u>Replacement Parts</u> <u>Accessories</u>

Model Number Matrix

Model Number



Accessories



71000-555PVDF INJECTOR, 1/4" ID tubing

71000-579PVDF INJECTOR,1/2" Hose Barb **71000-577**

PVDF INJECTOR,1/2" MNPT

Visit Accessory Pages for More Options



C-334-6-10

Suction Tubing, Clear PVC 1/4"x 3/8", 10 ft **C-335-6-25**

Discharge Tubing, PE, 1/4" x 3/8", 25 ft **76001-361**

Suction Tubing, Clear PVC, 1/2" ID, 8ft **90008-437**

Discharge Tubing, Braided PVC, 1/2" ID

Ball Check Cartridge Options

C3

20000-228

Ball Check Cart. Hastelloy Balls **20000-229**

Ball Check Cart. PTFE Balls

70001-409 (2 req.)

Ball Check Cart., Single Ceramic Ball with Hastelloy Spring

Accessories

MD1

CHEM-FEED® Multi-Diaphragm Metering Pump

- > Diaphragm Failure Detection system senses diaphragm failure
- > Display shield protects pump controls in harsh environments
- > Patented DiaFlex® offers zero breakdown, reducing maintenance
- > Remote Start/Stop, non-powered dry contact closure
- > Relay outputs include a single 250V/3A and a single solid state
- > SCADA I/O: 4-20 mA input, 4-20 mA output
- > 1/4" x 3/8" inlet/outlet connections standard (1/2" MNPT and 1/2" Hose Barb fittings available)



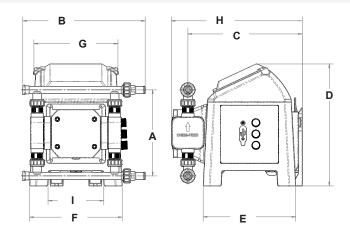
Highlights

Flow range	Pressures up to	Turndown ratio	Suction lift
.0008 - 8.50 GPH	150 PSI	10,000 : 1	20 ft.
.003 – 32.2 LPH	(10.3 bar)		(at sea level)

Exclusive	Motor	Weight	Warranty
Diaphragm Failure	Brushless	8.5 lb.	5 Years
Detection (DFD)	DC Motor	(3.8 kg)	

Dimensions

Dim	Inch	cm	Dim	Inch	cm
Α	6.67"	16.94	F	7.18"	18.23
В	9.49"	24.10	G	6.52"	16.55
С	8.87"	22.54	Н	10.40"	26.41
D	9.46"	24.02	1	4.32"	10.98
E	7.18"	18.23			



What's in the box-

MD1 Multi-Diaphragm Metering Pump

Discharge injection fitting with check valve

Suction foot valve

Suction ceramic weight

Mounting hardware kit

Display shield

Instruction manual

Optional Accessories not included: Suction Tubing, Discharge Tubing, M12 connector cables, optional connectors (1/2" MNPT, 1/2" Hose Barb).

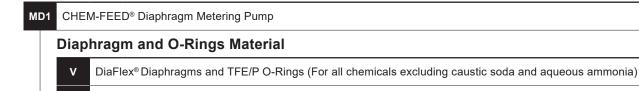


Index Website **Product Page** Replacement Parts Accessories

Model Number Matrix

MD1

CHEM-FEED® Model Number



Pump Fittings (Inlet / Outlet)

- 1/2" ID Barb Straight Fittings
- С 1/2" ID Barb Elbow Fittings
- S 1/4" x 3/8" Compression Straight Fittings
- Т 1/4" x 3/8" Compression Elbow Fittings
- 1/2" M/NPT Straight Fittings М
- 1/2" M/NPT Elbow Fittings

Power Cord - Removable (Operating voltage requirement 96VAC to 264VAC)

115V 50/60Hz, power cord NEMA 5/15 plug (US)

Flex-A-Prene® Diaphragms and EP O-Rings (For caustic soda and aqueous ammonia)

- 6 220V 50/60Hz, power cord CEE 7/V11 plug (EU)
- X No Power Cord Provided (Power cord is required - See accessories for power cord options)

MD1 В Sample Model Number

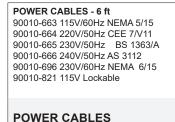
Accessories



STAR III TANKS, PP











KIT-CQA (Aflas) / KIT-CQE (EP) QUICK CONNECT KIT MD1

Teflon Ball Check Cartridge Valve Kit (PVDF body, TFE/P O-rings, PTFE balls) 4 cartridges included. (3 Double-Ball, 1 De-Gas)

KIT-DVA1-P PTFE Ball Check

MD3

CHEM-FEED® Multi-Diaphragm Metering Pump

- > Diaphragm Failure Detection system senses diaphragm failure
- > Patented DiaFlex® offers zero breakdown, reducing maintenance
- > Smooth chemical dosing, no pulsation dampener needed
- > Near pulseless flow diaphragm metering
- > Signal inputs include: 4-20mA, pulse inputs, and Remote Start/Stop

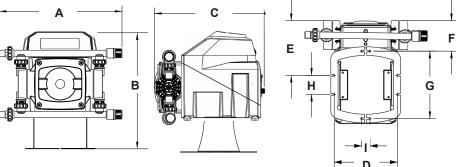


Highlights

Flow range	Pressures up to	Turndown ratio	Suction lift
.03 - 52.6 GPH	145 PSI	2,000:1	19 ft.
.10 - 199 LPH	(10 bar)		(at sea level)

Exclusive	Motor	Weight	Warranty
Diaphragm Failure	Brushless	53 lb.	5 Years
Detection (DFD)	DC Motor	(24.04 kg)	

Dimensions



Dim	Inch	cm	Din	n Inch	cm
Α	16.13"	40.97	F	4.00"	10.15
В	16.29"	41.37	G	8.86"	22.50
С	14.12"	35.86	Н	2.50"	6.35
D	8.30"	21.08	- 1	1.10"	2.79
E	7.24"	18.37			

What's in the box-

MD3 Multi-Diaphragm Metering Pump

Suction foot valve, PVDF, 1/2" MNPT or 1/2" Hose Barb

Mounting hardware kit, including extended mounting brackets Fitting Kit (model specific)

- 1/2" M/NPT Elbow connections, or
- 1/2" M/NPT Straight connections, or
- 1/2" Hose barb Straight connections, or
- 1/2" Hose Barb Elbow connections
- Union nuts

Quick Start Guide

Not included: Injector, Suction Tubing, Discharge Tubing, M12 Cables



Index Website **Product Page** Replacement Parts Accessories

Model Number Matrix

CHEM-FEED® Model Number

MD3S CHEM-FEED® Multi-Diaphragm Metering Pump

Maximum Strokes per Minute

2 380 SPM (190 RPM)

Input Voltage / Power Cord

- 115V / 60Hz, power cord NEMA 5/15 plug (US)
- 230V / 60Hz, power cord NEMA 6/15 plug (US)
- 220V / 50HZ, power cord CEE 7/VII plug (EU)
- 240V / 50HZ, power cord AS 3112 plug (Australia/New Zealand)
- 9 230V / 50HZ, power cord BS 1363/A plug (United Kingdom)
- No Power Cord (Pump requires power cord. See accessories for other power cord options)

Stroke Length / Diaphragm Size

.090" Stroke - Large Diaphragm

Electrical

Standard Equipment - C13 power cord connector, six M12 signal connectors, Ethernet/Modbus port & Profibus M12 connector.

Elastomer Material (O-Rings)

- DiaFlex Diaphragms and TFE/P O-rings (For most chemicals, not compatible with Sodium Hydroxide and Aqeuous Ammonia)
 - Flex-A-Prene Diaphragms and EPDM O-rings (for Sodium Hydroxide and Aqueous Ammonia)

Pump Head Fittings and Foot Valve

- 1/2" M/NPT Elbow Fittings & 1/2" M/NPT Footvalve
- М 1/2" M/NPT Straight Fittings & 1/2" M/NPT Footvalve
- В 1/2" Barb Straight Fittings & 1/2" Barb Footvalve
- 1/2" Barb Elbow Fittings & 1/2" Barb Footvalve

MD3S 2 4 X

Sample Model Number

Accessories





71000-579 PVDF INJECTOR, 1/2" Hose Barb 71000-577 PVDF INJECTOR, 1/2" MNPT

76001-361 Suction Tubing, Clear PVC, 1/2" ID, 8ft 90008-437

Discharge Tubing, Braided PVC, 1/2" ID

Ball Check Cartridge Options

MD3

20000-229 (2 reg.)

Ball Check Cart. PTFE Balls

20000-228 (2 req.)

Ball Check Cart. Hastelloy Balls

70001-409 (4 req.) Ball Check Cart., Single Ceramic

Ball with Hastelloy Spring



KIT-M12 Two M12 Cables - 9.8 ft.



KIT-DP3 Profibus Cable, 3 ft

90010-663 115V/60Hz NEMA 5/15 90010-664 220V/50Hz CEE 7/V11 90010-665 230V/50Hz BS 1363/A 90010-666 240V/50Hz AS 3112 90010-696 230V/60Hz NEMA 6/15 90010-711 115V Lockable

POWER CABLES - 6 ft

Visit Accessory Pages for More Options

DIAPHRAGM PUMP WARRANTY

LIMITED WARRANTY

Your Blue-White product is a quality product and is warranted for a specific time from date of purchase (proof of purchase is required). The product will be repaired or replaced at our discretion. Failure must have occurred due to defect in material or workmanship and not as a result of operation of the product other than in normal operation as defined in the product manual. Warranty status is determined by the product's serial label and the sales invoice or receipt. The serial label must be on the product and legible. The warranty status of the product will be verified by Blue-White or a factory authorized service center.

CHEM-FEED® C2 and C3 pumps are warranted for 2 years from date of purchase (proof of purchase is required). CHEM-FEED® MD1 and MD3 pumps are warranted for 5 years from date of purchase (proof of purchase is required). Pumps will be repaired or replaced at our discretion.

DIAFLEX® diaphragms are warranted for the life of the pump. Blue-White will replace a damaged diaphragm at no cost to the customer provided the pump was at all times operated within the guidelines included in the pump's operation manual. This warranty only applies to DIAFLEX® diaphragms, not the pumps themselves. Blue-White pumps are separately covered by warranties specific to them.

WHAT IS NOT COVERED

- Rubber components and wear components.
 - They are perishable and require periodic replacement.
- Pump removal, or re-installation, and any related labor charge.
- Freight to the factory, or service center.
- Products that have been tampered with, or in pieces.
- Damage resulting from misuse, carelessness such as chemical spills on the enclosure, abuse, lack of maintenance, or alteration which is out of our control.
- Damage by faulty wiring, power surges or acts of nature.

BLUE-WHITE does not assume responsibility for any loss, damage, or expense directly or indirectly related to or arising out of the use of its products. Failure must have occurred due to defect in material or workmanship and not as a result of operation of the product other than in normal operation as defined in the pump manual.

Warranty status is determined by the pump's serial label and the sales invoice or receipt. The serial label must be on the pump and legible. The warranty status of the pump will be verified by Blue-White or a factory authorized service center.

PROCEDURE FOR IN WARRANTY REPAIR

Warranty service must be performed by the factory or an authorized service center. Contact the factory or local repair center to obtain a RMA (Return Material Authorization) number. It is recommended to include foot strainer and injection/ check valve fitting since these devices may be clogged and part of the problem. Decontaminate, dry, and carefully pack the product to be repaired. Please enclose a brief description of the problem and proof of purchase. Prepay all shipping and insurance cost. COD shipments will not be accepted. Damage caused by improper packaging is the responsibility of the sender. When In-Warranty repair is completed, the factory pays for return shipping to the dealer or customer.

PRODUCT USE WARNING

Blue-White products are manufactured to meet the highest quality standards in the industry. Each product instruction manual includes a description of the associated product warranty and provides the user with important safety information. Purchasers, installers, and operators of Blue-White products should take the time to inform themselves about the safe operation of these products. In addition, Customers are expected to do their own due diligence regarding which products and materials are best suited for their intended applications. BLUE-WHITE is pleased to assist in this effort but does not guarantee the suitability of any particular product for any specific application as Blue-White does not have the same degree of familiarity with the application that the customer/end user has. While BLUE-WHITE will honor all of its product warranties according to their terms and conditions, Blue-White shall only be obligated to repair or replace its defective parts or products in accordance with the associated product warranties.

BLUE-WHITE SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE WHETHER DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF OR RELATED TO THE FAILURE OF ANY OF ITS PARTS OR PRODUCTS OR OF THEIR NONSUITABILITY FOR A GIVEN PURPOSE OR APPLICATION.

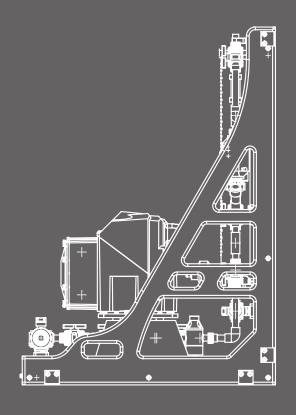
CHEMICAL RESISTANCE WARNING

BLUE-WHITE offers a wide variety of wetted parts. Purchasers, installers, and operators of Blue-White products must be well informed and aware of the precautions to be taken when injecting or measuring various chemicals, especially those considered to be irritants, contaminants or hazardous. Customers are expected to do their own due diligence regarding which products and materials are best suited for their applications, particularly as it may relate to the potential effects of certain chemicals on Blue-White products and the potential for adverse chemical interactions. Blue-White tests its products with water only. The chemical resistance information included in this instruction manual was supplied to BLUE-WHITE by reputable sources, but Blue-White is not able to vouch for the accuracy or completeness thereof. While BLUE-WHITE will honor all of its product warranties according to their terms and conditions, Blue-White shall only be obligated to repair or replace its defective parts or products in accordance with the associated product warranties.

BLUE-WHITE SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, WHETHER DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF OR RELATED TO THE USE OF CHEMICALS IN CONNECTION WITH ANY BLUE-WHITE PRODUCTS.

Users of electrical and electronic equipment (EEE) with the WEEE marking per Annex IV of the WEEE Directive must not dispose of end of life EEE as unsorted municipal waste, but use the collection framework available to them for the return, recycle, recovery of WEEE and minimize any potential effects of EEE on the environment and human health due to the presence of hazardous substances. The WEEE marking applies only to countries within the European Union (EU) and Norway. Appliances are labeled in accordance with European Directive 2002/96/EC. Contact your local waste recovery agency for a Designated Collection Facility in your area.

MUNICIPAL Skid Systems



Blue-White®

CFPS-1

CHEM-FEED® Plastic Simplex Skid System

- > Chemically resistant polyethylene structure
- > Leak free, threadless connections
- > Pressure Relief Valve protects the system from over-pressurization
- > Check Valve protects the user from back-flow
- > Flow Indicator provides a visual indication of chemical movement

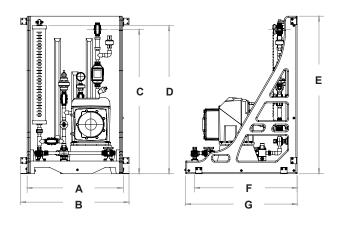


Highlights

Piping	Pressures up to	Compatibility	Drip tray
PVC Schedule 80 (optional CPVC, PVDF, and Chem Proline®)	150 PSI (10.3 bar)	M1, M2, M3, M4, C2, C3, MD1, MD3	2.22 Gal (8.4L)
Frame material	Mounting position	Skid weight	Warranty
Polyethylene	Floor or wall	80 lb. (36 Kg)	2 Years

Dimensions

Dim	Inch	cm	Dim	Inch	cm
Α	30.00"	76.20	E	49.50"	125.73
В	34.00"	86.36	F	32.15"	81.65
С	45.37"	115.24	G	35.00"	88.90
D	46.47"	118.04			



What's in the box-

Standard

- -Pressure Relief Valve
- -Check Valve
- -Flow Indicator
- -Inlet Y Strainer
- -Inlet/outlet connection tubing
- -Wall/Floor Mounting brackets
- -USB Drive (Operating Manual)

Optional Components(See product matrix)

- -Calibration Cylinder
- -Pulsation Dampener
- -Pressure Gauge with Guard
- -Pressure Switch
- -Back Pressure Valve
- -MS6 Chemical Flow meter
- -Terminal Box
- -Electrical Outlet Box



Index

Model Number Matrix

*Consult factory for pricing

CHEM-FEED® Simplex Skid System Matrix - Municipal

CFPS	S-1	Single	e pum	p syst	tem -	PE struc	ture												
		lı	nlet/	Outl	et														
			A S	ingle I	nlet / S	Single Ou	utlet												
		2	X N	one, S	Skid Pa	anel Only	/												
			P	Pipin	g/Ur	nions													
				A P	VC			В	CP	VC					С	PVDF		D	Chem Proline®
				S	eals	;													
				,	/ FI	KM				Е	EPD	М							
					Т	ubing	Со	nne	ctio	ns	(Veri	fy tu	bin	g con	necti	on mate	ches pump ou	utlet whe	n ordering)
			A 1/2" ID B 1/2" ID C 1/4" ID PTFE B 1/2" ID PTFE D 1/4" ID PTFE																
							Cal	libra	atior	ı Co	olur	nn							
							Α	128	GPH	(400	0 mL	.) PV	0			F	3 GPH (100	mL) PVC	;
							В	64 (GPH (2000	mL)	PVC				Р	32 GPH (10	000 mL) G	lass
							С	32 (GPH (1000	mL)	PVC				Q	16 GPH (50	00 mL) Gla	ass
							D	16 (GPH	(500	mL)	PVC				R	6 GPH (200	0 mL) Glas	SS
							E	8 G	PH (2	50 m	L) P	VC				s	3 GPH (100	mL) Glas	SS
						_		Pu	Isat	ion	Da	mpe	ene	er					
								Р	10	cubic	in				х	Not In	ıcluded		
									Ba	ıck	Pre	ssu	re	Val	/e				
									В	In	clude	d				Х	Not Included		
										P	res	sure	e G	aug	e w	/Guar	d		
										A	2	00 P	SI			В	100 PSI		C 30 PSI
											F	Pres	su	ıre S	wit	ch w/C	Guard		
												S I	nclu	ided			X	Not Inclu	ıded
												F	·Ιο	w M	ete	w/Sti	rainer		
													A	10-50	000 m	ıL/m	В	100-100	00 mL/m
													x	Not I	nclud	ed			
														Ter	min	al Box	ζ		
														TA	М38	S/M4S/M	D3S	TD	M3/M4/MD3(Legacy)
														ТВ	M1/	MD1		X	Not Included
														тс	M2/	C2/C3			
															Pu	mps			
															Р	Moun	ted	X	Not Included
		,	ļ,	↓ ,	ļ,						, .								000-198 when ordering with or "F = 1/2"FNPT" connections.
CFPS	S-1	М	Α .	A \	/ /	A -	A	Р	В	-	. :	s	A	TA	Р	Samp	le Model Num	ber	

NOTE: When ordering pumps for skids, pump head orientation is standard LEFT facing only. All skids are pressure tested prior to shipment. Pumps are purchased and shipped separately. Contact factory for quote/pricing on 5-point performance testing.

CFPS-2

CHEM-FEED® Plastic Duplex Skid System

- > Chemically resistant polyethylene structure
- > Leak free, threadless connections
- > Pressure Relief Valve protects the system from over-pressurization
- > Check Valve protects the user from back-flow
- > Flow Indicator provides a visual indication of chemical movement



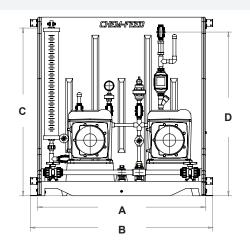
Highlights

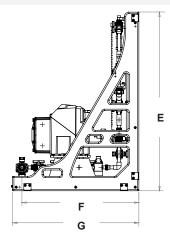
Piping	Pressures up to	Compatibility	Drip tray
PVC Schedule 80	150 PSI	M1, M2, M3, M4,	2.3 Gal
(optional CPVC, PVDF,	(10.3 bar)	C2, C3, MD1, MD3	(11.4L)

and Chem Proline®)			
Frame material	Mounting position	Skid weight	Warranty
Polyethylene	Floor or wall	120 lb.	2 Years
		(54 kg)	

Dimensions

Dim	Inch	cm	Dim	Inch	cm
Α	46.50"	118.11	E	49.50"	125.73
В	50.50"	128.27	F	32.40"	82.30
С	46.47"	118.04	G	35.00"	88.90
D	45.37"	115.24			





What's in the box

Standard

- -Pressure Relief Valve
- -Check Valve
- -Flow Indicator
- -Inlet Y Strainer
- -Inlet/outlet connection tubing
- -Wall/Floor Mounting brackets
- -USB Drive (Operating Manual)

Optional Components(See product matrix)

- -Calibration Cylinder
- -Pulsation Dampener
- -Pressure Gauge with Guard
- -Pressure Switch
- -Back Pressure Valve
- -MS6 Chemical Flow meter
- -Terminal Box
- -Electrical Outlet Box

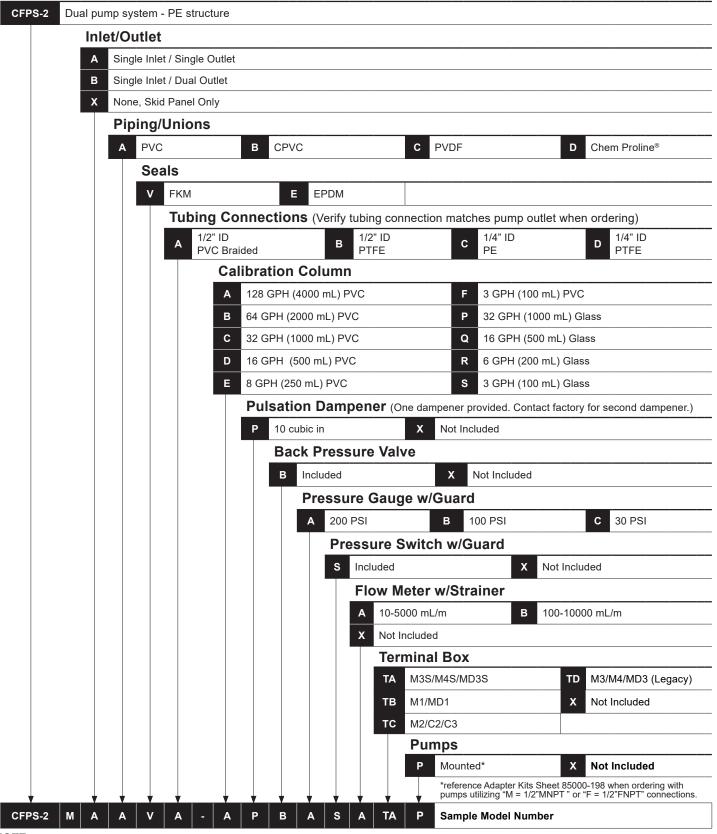


Index

Model Number Matrix

*Consult factory for pricing

CHEM-FEED® Duplex Skid System Matrix - Municipal



NOTE: When ordering pumps for skids, pump head orientation is standard LEFT facing only. *When ordering skid with pumps of different model numbers, please include complete model number of each pump and location on skid with order. Contact factory for quote/pricing on 5-point performance testing.

CFPS-3

CHEM-FEED® Plastic Triplex Skid System

- > Chemically resistant polyethylene structure
- > Leak free, threadless connections
- > Pressure Relief Valve protects the system from over-pressurization
- > Check Valve protects the user from back-flow
- > Flow Indicator provides a visual indication of chemical movement



Highlights

Piping

PVC Schedule 80 (optional CPVC, PVDF, and Chem Proline®)

Pressures up to

150 PSI (10.3 bar)

Compatibility

M1, M2, M3, M4, C2, C3, MD1, MD3 **Drip tray**

2.74 Gallons (10.37L)

Frame material

Polyethylene

Mounting position

Floor only

Skid weight

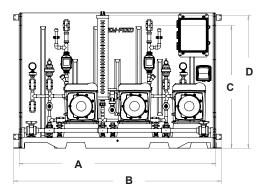
200 lb. (91 Kg)

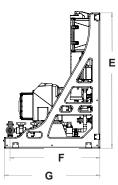
Warranty

2 Years

Dimensions

Dim	Inch	cm	Dim	Inch	cm
Α	72.00"	182.88	E	49.50"	125.73
В	76.00"	193.04	F	32.91"	83.59
С	44.85"	113.92	G	35.00"	88.90
D	48 57"	123 37			





What's in the box

Standard

- -Pressure Relief Valve
- -Check Valve
- -Flow Indicator
- -Inlet Y Strainer
- -Inlet/outlet connection tubing
- -Wall/Floor Mounting brackets
- -USB Drive (Operating Manual)

Optional Components(See product matrix)

- -Calibration Cylinder
- -Pulsation Dampener
- -Pressure Gauge with Guard
- -Pressure Switch
- -Back Pressure Valve
- -MS6 Chemical Flow meter
- -Terminal Box
- -Electrical Outlet Box

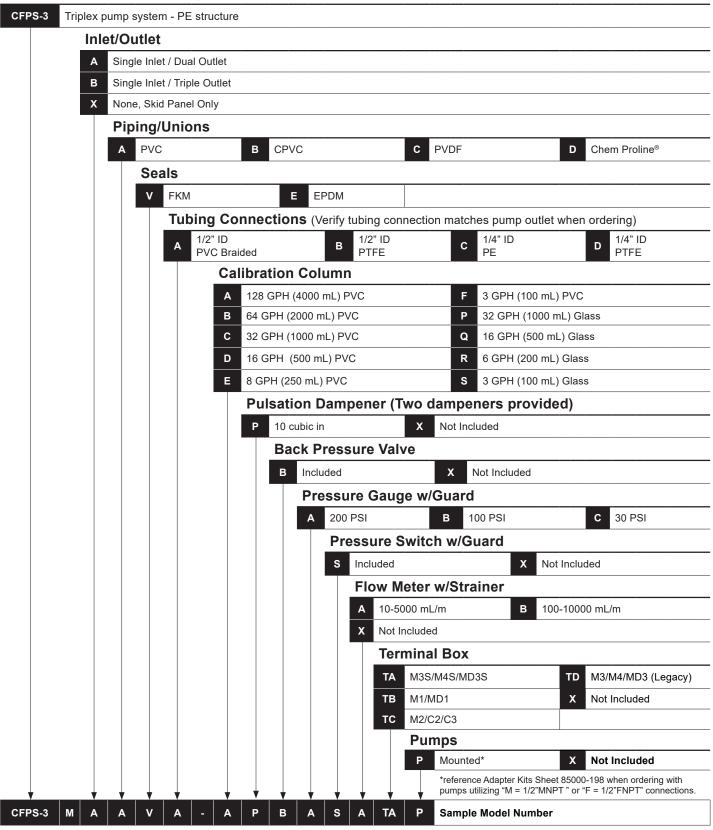


Model Number Matrix

*Consult factory for pricing

CFPS-3-M

CHEM-FEED® Triplex Skid System Matrix - Municipal



NOTE: When ordering pumps for skids, pump head orientation is standard LEFT facing only. When ordering skid with pumps of different model numbers, please include complete model number of each pump and location on skid with order. Contact factory for quote/pricing on 5-point performance testing.

CFWS-1

CHEM-FEED® Wall Mount Simplex Skid System

- > Chemically resistant polyethylene structure
- > Leak free, threadless connections
- > Pressure Relief Valve protects the system from over-pressurization
- > Check Valve protects the user from back-flow
- > Flow Indicator provides a visual indication of chemical movement



Highlights

Piping

PVC Schedule 80 (optional CPVC, PVDF, and Chem Proline®)

Pressures up to

150 PSI (10.3 bar)

Compatibility

M1, M2, M3, M4, C2, C3, MD1, MD3 **Pump Shelf**

Polyethylene

Frame material

Polyethylene

Mounting position

Wall Only

Skid weight

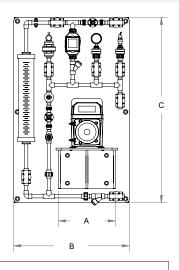
45 lb. (20 Kg)

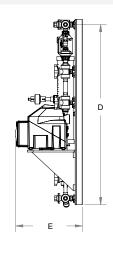
Warranty

2 Years

Dimensions

Dim	Inch	cm	 Dim	Inch	cm
Α	14.75"	37.5	D	46.63"	118.4
В	30.00"	76.2	E	17.29"	43.9
С	48.00"	121.9			





What's in the box-

Standard

- -Pressure Relief Valve
- -Check Valve
- -Inlet Y Strainer
- -Inlet/outlet connection tubing
- -Wall Mounting brackets
- -USB Drive (Operating Manual)

Optional Components(See product matrix)

- -Calibration Cylinder
- -Pulsation Dampener
- -Pressure Gauge with Guard
- -Pressure Switch
- -Back Pressure Valve
- -MS6 Chemical Flow meter
- -Terminal Box
- -Electrical Outlet Box



Model Number Matrix

*Consult factory for pricing

CHEM-FEED® Simplex Wall Skid System Matrix - Municipal

CFWS-1	Single	e pum	p syst	em - s	ingle o	chemi	cal /	sin	gle o	utlet,	PE str	ucture)						
	_	Inlet	:/Out	tlet															
		Α	Single	Inlet /	Single	Outle	ŧ												
		х	None,	Skid P	Panel C	Only													
	_		Pipi	ng/U	nion	S													
			Α	PVC				(PVDF							'		
			В	CPVC				ı	0	CHEM	1 PROI	INE®							
		-		Seals	S														
				V F	KM				E I	EPDN	1								
				7	Гubir	ng C	oni	nec	tio	ns (\	/erify t	ubing	cor	nned	ction n	natches pum	p outlet wh	nen ordering)	
					A 1	/2" ID	PVC	Bra	ided			С	1/	/4" [[D PE				
					B 1	/2" ID	PTF	E				D	1/	/4" [[D PTFE				
					C	Calib	rat	ion	Co	lum	n								
						A 1	28 G	PH	(400	0 mL)	PVC				F	3 GPH (100	mL) PVC		
						В 6	4 GF	РΗ (2	2000	mL) F	PVC				Р	32 GPH (10	00 mL) Glas	ss	
						C 3	2 GF	РН (1000	mL) F	PVC				Q	16 GPH (50	0 mL) Glass	3	
					ı	D 1	6 GF	РН (500	mL) P	VC				R	6 GPH (200	mL) Glass		
						E 8	GPI	H (2	50 ml	L) PV	0				S	3 GPH (100	mL) Glass		
						F	Puls	ati	on	Dan	npen	er							
							P	10 c	ubic	in				х	Not In	cluded			
								Ва	ck l	Pres	sure	Val	ve						
								В	Inc	luded					X	Not Included			
									Pı	ess	ure (aug	je v	w/G	uard	1			
									A	20	0 PSI				B 10	00 PSI	С	30 PSI	
										Pı	ressı	ıre S	Swi	tch	w/G	uard			
										s	Incl	uded				X	Not Included		
											Flo	w M	ete	er v	v/Stra	ainer			
											Α	10-5	5000	mL/	/min				
											В	100	-100	00 n	nL/min				
											х	Not	Inclu	uded	d				
		Ų.		<u> </u>					_ ↓	↓	↓	*refe pun	eren ips i	ce A utiliz	Adapter zing "N	r Kits Sheet 8 // = 1/2"MNPT	5000-198 w " or "F = 1/	hen ordering wit 2"FNPT" connec	h ctions.
CFWS-1	М	A	A	v	A .	A	Р	В	A	s	A	Х]	х	Samp	le Model Nun	nber		

NOTES: When ordering pumps for skids, pump head orientation is standard LEFT facing only. Terminal Boxes quoted and mounted separately. All skids are pressure tested prior to shipment. Pumps are puchased and shipped separately. Contact factory for quote/pricing on 5-point performance testing.

CFWS-2

CHEM-FEED® Wall Mount Duplex Skid System

- > Chemically resistant polyethylene structure
- > Leak free, threadless connections
- > Pressure Relief Valve protects the system from over-pressurization
- > Check Valve protects the user from back-flow
- > Flow Indicator provides a visual indication of chemical movement



Highlights

PipingPressures up toCompatibilityPump ShelfPVC Schedule 80150 PSIM1, M2, M3, M4,Polyethylene

(optional CPVC, PVDF, and Chem Proline®)

150 PSI M1, M2, M3, M4, (10.3 bar) C2, C3, MD1, MD3

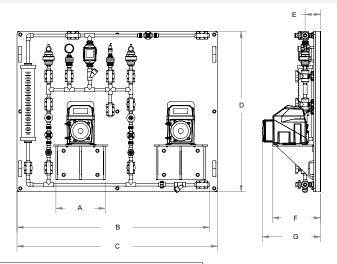
Frame material Mounting position Skid weight Warranty

Polyethylene Floor only 80 lb. (36 Kg)

2 Years

Dimensions

Dim	Inch	cm	Dim	Inch	cm
Α	14.75"	37.5	E	4.63"	117.0
В	57.53"	146.1	F	14.38"	36.5
С	60.00"	152.4	G	17.41"	44.2
D	48 NN"	121 0			



What's in the box

Standard

- -Pressure Relief Valve
- -Check Valve
- -Inlet Y Strainer
- -Inlet/outlet connection tubing
- -Wall Mounting brackets
- -USB Drive (Operating Manual)

Optional Components(See product matrix)

- -Calibration Cylinder
- -Pulsation Dampener
- -Pressure Gauge with Guard
- -Pressure Switch
- -Back Pressure Valve
- -MS6 Chemical Flow meter
- -Terminal Box
- -Electrical Outlet Box



Model Number Matrix

*Consult factory for pricing

CHEM-FEED® Duplex Wall Skid System Matrix - Municipal

CFWS	S-2	Dupl	ex p	oump	sys	tem -	single	e cl	hemi	cal / s	ingle	outlet,	PE stru	ıcture					
			Inl	et/C	Dutl	et													
			A	Siı	ngle I	nlet /	Single	e O	utlet								,		
			х	No	one, S	Skid P	anel (Onl	у										
		_		P	ipin	g/U	nion	ıs											
				A	Р	VC					C F	PVDF						'	
				В	C	PVC					D (СНЕМ Г	PROLIN	NE®					
					S	eals	5												
					,	V F	KM				E E	EPDM							
						1	Гubi	ng	Co	nne	ctior	ıs (Ve	rify tul	oing conn	ectic	on ma	atches pump outle	et whe	en ordering)
							A 1	1/2"	ID P	VC Br	aided			C 1/4	l" ID	PE			
							В 1	1/2"	ID P	TFE				D 1/4	l" ID	PTFE	<u> </u>		
								Са	libr	atio	n Co	lumn	1						
								Α	12	8 GPH	I (4000) mL) P	VC			F	3 GPH (100 mL) F	PVC	
							B 64 GPI				GPH (2000 mL) PVC			Р	P 32 GPH (1000 mL) Glass				
								С	32	GPH	(1000	mL) PV	'C			Q	16 GPH (500 mL)	Glass	
								D	16	GPH	(500 m	nL) PVC	;			R	6 GPH (200 mL) (Glass	
								E	8 (SPH (2	250 mL	.) PVC				s	3 GPH (100 mL) (Glass	
									Ρι	ulsat	ion	Damı	oene	(10 cubic	in.)				
									Р	Tw	o Dam	peners		D		One D	ampener	Х	Not Included
										Ва	ack F	Press	ure \	/alve					
										В	Inc	luded				X N	Not Included		
											Pr	essu	re Ga	auge w/	Gua	ard			
											Α	200	PSI		Е	B 10	00 PSI	С	30 PSI
												Pre	essur	e Switc	h w	v/Gu	ard		
												s	Inclu	ded			X Not Inc	cluded	
													Flo	w Mete	r w/	/Stra	ainer		
													Α	10-5000 ו	mL/m	min			
													В	100-1000	0 mL	L/min			
													х	Not Inclu	ded				
↓				_ \		<u> </u>	<u> </u>		_ ↓	↓	↓	↓		*reference pumps u	e Ad tilizii	dapter ng "M	Kits Sheet 85000- I = 1/2"MNPT " or "	198 wi F = 1/	hen ordering with 2"FNPT" connections.
CFWS	S-2	М	Α	A	. ,	v	A	Α	Р	В	А	s	Α	х	5	Sampl	le Model Number		

NOTES: When ordering pumps for skids, pump head orientation is standard LEFT facing only. Terminal Boxes quoted and mounted separately. All skids are pressure tested prior to shipment. Pumps are puchased and shipped separately. Contact factory for quote/pricing on 5-point performance testing.

CFS-1

CHEM-FEED® Aluminum Simplex Skid System

- > The pre-fabricated design allows for easy installation
- > Strong, lightweight polyester powder coated welded aluminum structure
- > Dual side inlets enable connection of multiple skids to the same inlet
- > Flow Indicator provides a visual indication of chemical movement
- > Optional Flow Verification Sensor for monitoring system



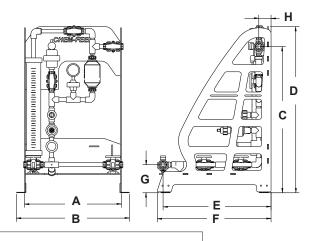
Highlights

Piping	Pressures up to	Compatibility	Drip tray
PVC Schedule 80	150 PSI	M1, M2, M3, M4,	4 Gallons
(optional CPVC)	(10.3 bar)	C2, C3, MD1, MD3	(15.1L)

Frame material	Mounting position	Skid weight	Warranty
Powder coated aluminum	Floor or wall	60 lb. (27.2 kg)	2 Years

Dimensions

Dim	Inch	cm	Dim	Inch	cm
Α	20.25"	51.40	E	22.75"	57.80
В	23.75"	60.30	F	24.00"	61.00
С	30.75"	78.10	G	6.00"	15.20
D	35.00"	88.90	Н	2.50"	6.40



What's in the box-

Standard

- -Pressure Relief Valve
- -Check Valve
- -Flow Indicator
- -Inlet Y Strainer
- -Mounting Pads
- -USB Drive (Operating Manual)

Optional Components(See product matrix)

- -MS6 Chemical Flow meter
- -Calibration Cylinder
- -Pulsation Dampener
- -Pressure Gauge with Guard



Index

Model Number Matrix

CFS-1-M

*Consult factory for pricing

CHEM-FEED® Engineered Skid System - Municipal

		. ,	ngle chemical / sing	•							
Pip			/ Seal Materia	als (Verify tub	ing co			mp outlet when ordering)			
А	PVC piping, FK				Е	CPVC piping					
	1/2" ID PVC bra		connections			CPVC piping		tubing connections			
В	PVC piping, EP 1/2" ID PVC bra		connections		F						
	PVC nining FK		OTHICOHOTIS			1/2" ID OD PVC braided tubing connections CPVC piping, FKM seals					
С	1/4" ID polyethy		onnections		G			tubing connections			
	PVC nining FP				ш	CPVC piping					
D	1/4" ID Polyethy				Н			tubing connections			
Х	Skid frame only	without pipin	ig								
	Structure A	Assembly	Materials								
	A Chemical	resistant pow	vder coated aluminu	um stand with 3°	16SS n	nounting pads					
	Che	emical Fe	ed Flow Mete	er							
	Α	MS612 che	emical feed flow me	ter with meter m	nount d	isplay, 10-5,00	0 mL/mii	n (0.158 - 79.2 GPH)			
	В	MS622 che	emical feed flow me	eter with meter m	nount d	isplay, 100-10,	000 mL/ı	min (1.58 - 158.5 GPH)			
	Х	None									
		Calibration Cylinder PVC Glass									
		A 64 G	PH (2000 mL)		Α						
		B 32 G	PH (1000 mL)		В		Р	32 GPH (1000 mL)			
		C 16 G	PH (500 mL)		С		Q	16 GPH (500 mL)			
		D 8 GP	PH (250 mL)		D		R	6 GPH (200 mL)			
		E 3 GP	PH (100 mL)		E		S	3 GPH (100 mL)			
		X None	e								
		Puls	sation Dampe	ner							
		A	10 cubic inch, CP\ diaphragm	VC body, PTFE			X N	IONE			
			Pressure Gau	uge w/Guar	ď						
			A 200 PSI ga	•			С	30 PSI gauge, PTFE			
			diaphragm					diaphragm			
			B 100 PSI ga diaphragm	uge, PTFE			X	None			
			Pum	p Isolation	Valv	9					
			(Blani	k) None				141			
			Α	Isolation ba	all shut	off valves at o	check va	alve			
	, 🗼 📗			*reference / "M = 1/2"M	Adapte	r Kits Sheet 85	5000-198 PT" con	3 when ordering with pumps utilizing nections.			
FS-1 A	A - A	AA	A -	Sample Mo							

NOTES: When ordering pumps for skids, pump head orientation is standard LEFT facing only. Terminal Boxes quoted and mounted separately. All skids are pressure tested prior to shipment. Pumps are purchased and shipped separately. Contact factory for quote/pricing on 5-point performance testing.

CFS-2

CHEM-FEED® Aluminum Duplex Skid System

- > The pre-fabricated design allows for easy installation
- > Strong, lightweight polyester powder coated welded aluminum structure
- > Dual side inlets enable connection of multiple skids to the same inlet
- > Flow Indicator provides a visual indication of chemical movement
- > Optional Flow Verification Sensor for monitoring system



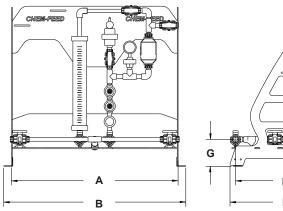
Highlights

Piping	Pressures up to	Compatibility	Drip tray
PVC Schedule 80	150 PSI	M1, M2, M3, M4,	8 Gallons
(optional CPVC)	(10.3 bar)	C2, C3, MD1, MD3	(30.3L)

Frame material	Mounting position	Skid weight	Warranty
Powder coated	Floor or wall	70 lb.	2 Years
aluminum		(31.8 kg)	

Dimensions

Dim	Inch	cm	Dim	Inch	cm
Α	36.25"	92.10	E	22.75"	57.80
В	39.75"	101.00	F	24.00"	61.00
С	30.75"	78.10	G	6.00"	15.20
D	35.00"	88.90	Н	2.50"	6.40



G F

What's in the box-

Standard

- -Pressure Relief Valve
- -Check Valve
- -Flow Indicator
- -Inlet Y Strainer
- -Mounting Pads
- -USB Drive (Operating Manual)

Optional Components(See product matrix)

- -MS6 Chemical Flow meter
- -Calibration Cylinder
- -Pulsation Dampener
- -Pressure Gauge with Guard



<u>Index</u> <u>Website</u> <u>Product Page</u>

CFS-2

Α

Α

Α

Model Number Matrix CFS-2-M

CHEM-FEED® Engineered Skid System - Municipal

*Consult factory for pricing

Municipal Dual pump system - single chemical / single outlet

Pining / Volves / Unions / Seel Metariola / Unions / Un

Piping / Valves / Unions / Seal Materials (Verify tubing connection matches pump outlet when ordering)

	Α	PVC piping, FKM seals,	E	CPVC piping, FKM seals,
	A	1/2" ID PVC braided tubing connections		1/2" ID PVC braided tubing connections
В	ь	PVC piping, EPDM seals,	_	CPVC piping, EPDM seals,
	Ь	1/2" ID PVC braided tubing connections	Г	1/2" ID PVC braided tubing connections
	С	PVC piping, FKM seals,	G	CPVC piping, FKM seals,
	<u> </u>	1/4" ID polyethylene tubing connections	G	1/4" ID Polyethylene tubing connections
	D	PVC piping, EPDM seals,	н	CPVC piping, EPDM seals,
	ט	1/4" ID Polyethylene tubing connections	п	1/4" ID Polyethylene tubing connections
	Х	Skid frame only without piping		

Structure Assembly Materials

A Chemical resistant powder coated aluminum stand with 316SS mounting pads

Chemical Feed Flow Meter

A MS612 chemical feed flow meter with meter mount display, 10-5,000 mL/min (0.158 - 79.2 GPH)

B MS622 chemical feed flow meter with meter mount display, 100-10,000 mL/min (1.58 - 158.5 GPH)

X None

Calibration Cylinder	PVC	Glass	
A 64 GPH (2000 mL)	Α		
B 32 GPH (1000 mL)	В	Р	32 GPH (1000 mL)
C 16 GPH (500 mL)	С	Q	16 GPH (500 mL)
D 8 GPH (250 mL)	D	R	6 GPH (200 mL)
E 3 GPH (100 mL)	Е	S	3 GPH (100 mL)
X None			

Pulsation Dampener

Α	10	cubic inch,	CPVC body, PTFE diaphragm	x	None
	Pre	ssure C	Sauge w/Guard		
	Α	200 PSI	gauge, PTFE diaphragm	С	30 PSI gauge, PTFE diaphragm
	В	100 PSI	gauge, PTFE diaphragm	х	None
		Pum	p Isolation Valves		
		(Blan	None		
	A Isolation ball shut-off valves at check				es
			Piping Orientation		
			(Blank) Standard		

*reference Adapter Kits Sheet 85000-198 when ordering with pumps utilizing "M = 1/2"MNPT " or "F = 1/2"FNPT" connections.

NOTES: When ordering pumps for skids, pump head orientation is standard LEFT facing for right pump, and Right facing for left pump.. Terminal Boxes quoted and mounted separately. All skids are pressure tested prior to shipment. Pumps are purchased and shipped separately. Contact factory for quote/pricing on 5-point performance testing.

Sample Model Number

PUMP to SKID ADAPTER KITS

An adapter kit must be added to order of a skid (single, duplex, triplex) with the following pumps: A1, M1, A2, M2, A3, M3, A4, M4. (with "M" type tube fittings)

C2, C3. (with "F" type connections.)

(Kits are not necessary when ordering CD3 or MD3 pumps, or pumps with "S", "B", or "Q" tube fittings.) Number of adapter kits ordered must equal number of pumps. No extra charge for the Kits when ordered with skids.

A1 / M1 Pumps with M type tube fittings



[KIT-CSP] 72000-789: Kit Coupling S/A .37T .50F/NPT PVC [KIT-CSC] 72000-791: Kit Coupling S/A .37T .50F/NPT CPVC



[KIT-CBP] 72000-788: Kit Coupling S/A .50 Barb .50F/NPT PVC [KIT-CBC] 72000-790: Kit Coupling S/A .50 Barb .50F/NPT CPVC

A2/M2, A3/M3, A4/M4 Pumps w/ M type tube fittings



[KIT-USPV] 72000-781: Kit Union S/A .37T .50F/NPT PVC/FKM [KIT-USPE] 72000-782: Kit Union S/A .37T .50F/NPT PVC/EP [KIT-USCV] 72000-785: Kit Union S/A .37T .50F/NPT CPVC/FKM [KIT-USCE] 72000-786: Kit Union S/A .37T .50F/NPT CPVC/EP



[KIT-UBPV] 72000-779: Kit Union S/A .50 Barb .50F/NPT PVC/FKM [KIT-UBPE] 72000-780: Kit Union S/A .50 Barb .50F/NPT PVC/EP [KIT-UBCV] 72000-783: Kit Union S/A .50 Barb .50F/NPT CPVC/FKM [KIT-UBCE] 72000-784: Kit Union S/A .50 Barb .50F/NPT CPVC/EP

C2 / C3 Pumps with F type connections



[KIT-EBP] 72000-787: Kit Elbow S/A .50 Barb .50 M/NPT PVC

<u>Index</u> <u>Website</u>

Notes:

SKID SYSTEM WARRANTY

LIMITED WARRANTY

Your Blue-White product is a quality product and is warranted for a specific time from date of purchase (proof of purchase is required). The product will be repaired or replaced at our discretion. Failure must have occurred due to defect in material or workmanship and not as a result of operation of the product other than in normal operation as defined in the product manual. Warranty status is determined by the product's serial label and the sales invoice or receipt. The serial label must be on the product and legible. The warranty status of the product will be verified by Blue-White or a factory authorized service center.

CHEM-FEED® skid systems are warrantied for 2 years from date of purchase (proof of purchase is required). The system will be repaired or replaced at our discretion. The metering pump may have its own warranty and is not covered under this warranty.

WHAT IS NOT COVERED

- Pump removal, or re-installation, and any related labor charge.
- Freight to the factory, or service center.
- Products that have been tampered with, or in pieces.
- Damage resulting from misuse, carelessness such as chemical spills on the enclosure, abuse, lack of maintenance, or alteration which is out of our control.
- Damage by faulty wiring, power surges or acts of nature.

BLUE-WHITE does not assume responsibility for any loss, damage, or expense directly or indirectly related to or arising out of the use of its products. Failure must have occurred due to defect in material or workmanship and not as a result of operation of the product other than in normal operation as defined in the pump manual.

Warranty status is determined by the pump's serial label and the sales invoice or receipt. The serial label must be on the pump and legible. The warranty status of the pump will be verified by Blue-White or a factory authorized service center.

PROCEDURE FOR IN WARRANTY REPAIR

Warranty service must be performed by the factory or an authorized service center. Contact the factory or local repair center to obtain a RMA (Return Material Authorization) number. It is recommended to include foot strainer and injection/ check valve fitting since these devices may be clogged and part of the problem. Decontaminate, dry, and carefully pack the product to be repaired. Please enclose a brief description of the problem and proof of purchase. Prepay all shipping and insurance cost. COD shipments will not be accepted. Damage caused by improper packaging is the responsibility of the sender. When In-Warranty repair is completed, the factory pays for return shipping to the dealer or customer.

PRODUCT USE WARNING

Blue-White products are manufactured to meet the highest quality standards in the industry. Each product instruction manual includes a description of the associated product warranty and provides the user with important safety information. Purchasers, installers, and operators of Blue-White products should take the time to inform themselves about the safe operation of these products. In addition, Customers are expected to do their own due diligence regarding which products and materials are best suited for their intended applications. BLUE-WHITE is pleased to assist in this effort but does not guarantee the suitability of any particular product for any specific application as Blue-White does not have the same degree of familiarity with the application that the customer/end user has. While BLUE-WHITE will honor all of its product warranties according to their terms and conditions, Blue-White shall only be obligated to repair or replace its defective parts or products in accordance with the associated product warranties.

BLUE-WHITE SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE WHETHER DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF OR RELATED TO THE FAILURE OF ANY OF ITS PARTS OR PRODUCTS OR OF THEIR NONSUITABILITY FOR A GIVEN PURPOSE OR APPLICATION.

CHEMICAL RESISTANCE WARNING

BLUE-WHITE offers a wide variety of wetted parts. Purchasers, installers, and operators of Blue-White products must be well informed and aware of the precautions to be taken when injecting or measuring various chemicals, especially those considered to be irritants, contaminants or hazardous. Customers are expected to do their own due diligence regarding which products and materials are best suited for their applications, particularly as it may relate to the potential effects of certain chemicals on Blue-White products and the potential for adverse chemical interactions. Blue-White tests its products with water only. The chemical resistance information included in this instruction manual was supplied to BLUE-WHITE by reputable sources, but Blue-White is not able to vouch for the accuracy or completeness thereof. While BLUE-WHITE will honor all of its product warranties according to their terms and conditions, Blue-White shall only be obligated to repair or replace its defective parts or products in accordance with the associated product warranties.

BLUE-WHITE SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, WHETHER DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF OR RELATED TO THE USE OF CHEMICALS IN CONNECTION WITH ANY BLUE-WHITE PRODUCTS.

Users of electrical and electronic equipment (EEE) with the WEEE marking per Annex IV of the WEEE Directive must not dispose of end of life EEE as unsorted municipal waste, but use the collection framework available to them for the return, recycle, recovery of WEEE and minimize any potential effects of EEE on the environment and human health due to the presence of hazardous substances. The WEEE marking applies only to countries within the European Union (EU) and Norway. Appliances are labeled in accordance with European Directive 2002/96/EC. Contact your local waste recovery agency for a Designated Collection Facility in your area.

MUNICIPAL Water Analyzers

Blue-White®

Blue-White

APFCL

CL

Engineering and Technical Data

07-7-8. ○ ○ ○ ○ ○ ○

Key Features

Turn-Key Monitoring Solution for Clean Water Applications

Online Chlorine + pH Analyzer

- Highly Accurate, Real-Time Measurement, Display, and Data-Logging
- Chlorine (Free or Total), pH, and Temperature
- Color Display and Data-Logging Terminal
- FCL700 Smart Sensor
- EPA 334.0 / ISO 7393 Compliant

Highlights

Eroo	Ch	lorine	Math	204
	GII	1011116	IVICII	10)(1

Bare Gold - Electrochemical Method Chlorine Range: 0.1 - 5 PPM

Compensation

Built-in Temperature and pH Parameter Compensation

pH Method

Electrochemical Method

Sampling Chamber

WR05 Sensor Flow Reservoir

Sensor

Self-Cleaning Flat Electrode

Warranty

13 Months

Typical Applications

- Drinking Water / Domestic Water
- Secondary Water Supply
- · Sanitary Water
- · Decorative Water / Swimming Water
- Food & Beverage Process Water
- RO Feedwater





For more help and information regarding APFCL, please visit www.blue-white.com or scan this QR code.

APFCL Analyzer Panel

Model Number

APFCL

Chlorine Analyzer Panel (Chlorine, pH, Temperature)

Includes: TS05 5" Touchscreen Display, WR-05 Flow Reservoir, FCL700 Chlorine/pH/Temperature Sensor, Assembled Panel with Flowmeter, 110VAC Power Cord.

- Power Requirement 110/220VAC / 50-60 Hz, 0.6 A
- CE, RoHS, EPA-334.0 and ISO-7393

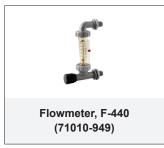
Replacement Parts and Accessories











Sensor Cleaning Solution (90008-988)
AP-MA1.5-CR 1.5 meter Short Cable - 8Pin x Flying leads (90008-954) pH Calibration Combo Pack (4, 7, 10 pH) (90008-983)

Blue-White®



Engineering and Technical Data

APNTU

Online Turbidity Analyzer

Key Features

- Turn-Key Monitoring Solution for Clean Water Applications
- Highly Accurate, Real-Time Measurement, Display, and Data-Logging
- Ultra-Low Turbidity Range
- Touch Screen Display and Data-Logging Terminal
- UT700 Ultra-Low Turbidity Sensor with Unique Flat Surface Distal
 End in Quartz Glass Plate
- EPA 180.1 Compliant

Highlights

Turbidity Dual Range

.001 - 10 / 10 - 40.00 NTU

Sampling Chamber

Single-Sensor Flow Reservoir

Turbidity Accuracy

+/- 0.005 NTU or 2% <10NTU

Sensor

White Light (LED)
Flat Electrode

Turbidity Repeatability

+/- 0.001 NTU or 0.5% <10NTU

Warranty

13 Months

Typical Applications

- Drinking Water
- Domestic Water
- · Secondary Water Supply
- Sanitary Water





For more help and information regarding APNTU, please visit www.blue-white.com or scan this QR code.

APNTU Analyzer Panel

Model Number

APNTU Turbidity Analyzer Panel (Turbidity)

Includes: TS10 7" Touchscreen Display, WR-10 Single Sensor Flow Reservoir, UT700 Turbidity Sensor, Assembled Panel with Flowmeter, 110VAC Power Cord.

- Power Requirement 96-260 VAC / 50-60 Hz: 10A Fuse: 200W
- CE, RoHS, EPA-180.1/334.0















- *500ml 10 NTU Calibration Standard (90008-973)
- *500ml 20 NTU Calibration Standard (90008-974)

Sensor Cleaning Solution (90008-988)

AP-MA1.5-CR 1.5 meter Short Cable - 8Pin x Flying leads (90008-954)

Blue-White



APH2O

Multi Parameter Online Analyzer

Key Features

- Turn-Key Monitoring Solution for Clean Water Applications
- Highly Accurate, Real-Time Measurement, Display, and Data-Logging
- Ultra-Low Turbidity, Chlorine (Free or Total), pH, and Temperature
- Touch Screen Display and Data-Logging Terminal
- FCL700 Smart Sensor
- UT700 Ultra-Low Turbidity Sensor with Unique Flat Surface Distal
 End in Quartz Glass Plate
- EPA 334.0 / ISO 7393 / EPA 180.1 Compliant

Highlights

Turbidity Dual Range

.001 - 10 / 10 - 40.00 NTU

Free Chlorine Method

Bare Gold - Electrochemical Method Chlorine Range: 0.1–5 PPM

Sampling Chamber

Dual Sensor Flow Reservoir

Turbidity Accuracy

+/- 0.005 NTU or 2% <10NTU

pH Method

Electrochemical Method

Warranty

13 Months

Turbidity Repeatability

+/- 0.001 NTU or 0.5% <10NTU

Sensors

White Light (LED) Flat Electrode FCL-700 Composite Sensor

Typical Applications

- Drinking Water
- · Domestic Water
- Secondary Water Supply
- Sanitary Water
- Decorative Water / Swimming Water
- · Food & Beverage Process Water





For more help and information regarding APH2O, please visit www.blue-white.com or scan this QR code.

APH2O Analyzer Panel

Model Number

APH2O

Multi-Parameter Online Analyzer Panel (Chlorine, Turbidity, pH, Temperature)

Includes: TS10 7" Touchscreen Display, WR-20 Dual Sensor Flow Reservoir, UT700 Turbidity Sensor, FCL700 Chlorine/pH/Temperature Sensor, Assembled Panel with Flowmeter, 110VAC Power Cord.

- Power Requirement 96-260 VAC / 50-60 Hz: 10A Fuse: 200W
- CE, RoHS, EPA-180.1/334.0

Replacement Parts and Accessories



















- *500ml 10 NTU Calibration Standard (90008-973)
- *500ml 20 NTU Calibration Standard (90008-974)

Sensor Cleaning Solution (90008-988)

AP-MA1.5-CR 1.5 meter Short Cable - 8Pin x Flying leads (90008-954)

pH Calibration Combo Pack (4, 7, 10 pH) (90008-983)

ANALYZER PANEL WARRANTY

LIMITED WARRANTY

Your Blue-White product is a quality product and is warranted for a specific time from date of purchase (proof of purchase is required). The product will be repaired or replaced at our discretion. Failure must have occurred due to defect in material or workmanship and not as a result of operation of the product other than in normal operation as defined in the product manual. Warranty status is determined by the product's serial label and the sales invoice or receipt. The serial label must be on the product and legible. The warranty status of the product will be verified by Blue-White or a factory authorized service center.

AP Analyzer Panels are warranted for 13 months from date of purchase (proof of purchase is required). Sensors are warranted for 6 months. Units will be repaired or replaced at our discretion.

WHAT IS NOT COVERED

- Wear items.
- Unit removal, or re-installation, and any related labor charge.
- Freight to the factory, or service center.
- Products that have been tampered with, or in pieces.
- Damage resulting from misuse, carelessness such as chemical spills on the enclosure, abuse, lack of maintenance, or alteration which is out of our control.
- Damage by faulty wiring, power surges or acts of nature.

BLUE-WHITE does not assume responsibility for any loss, damage, or expense directly or indirectly related to or arising out of the use of its products. Failure must have occurred due to defect in material or workmanship and not as a result of operation of the product other than in normal operation as defined in the manual.

Warranty status is determined by the serial label and the sales invoice or receipt. The serial label must be on the unit and legible. The warranty status will be verified by Blue-White or a factory authorized service center.

PROCEDURE FOR IN WARRANTY REPAIR

Warranty service must be performed by the factory or an authorized service center. Contact the factory or local repair center to obtain a RMA (Return Material Authorization) number. It is recommended to include foot strainer and injection/ check valve fitting since these devices may be clogged and part of the problem. Decontaminate, dry, and carefully pack the product to be repaired. Please enclose a brief description of the problem and proof of purchase. Prepay all shipping and insurance cost. COD shipments will not be accepted. Damage caused by improper packaging is the responsibility of the sender. When In-Warranty repair is completed, the factory pays for return shipping to the dealer or customer.

PRODUCT USE WARNING

Blue-White products are manufactured to meet the highest quality standards in the industry. Each product instruction manual includes a description of the associated product warranty and provides the user with important safety information. Purchasers, installers, and operators of Blue-White products should take the time to inform themselves about the safe operation of these products. In addition, Customers are expected to do their own due diligence regarding which products and materials are best suited for their intended applications. BLUE-WHITE is pleased to assist in this effort but does not guarantee the suitability of any particular product for any specific application as Blue-White does not have the same degree of familiarity with the application that the customer/end user has. While BLUE-WHITE will honor all of its product warranties according to their terms and conditions, Blue-White shall only be obligated to repair or replace its defective parts or products in accordance with the associated product warranties.

BLUE-WHITE SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE WHETHER DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF OR RELATED TO THE FAILURE OF ANY OF ITS PARTS OR PRODUCTS OR OF THEIR NONSUITABILITY FOR A GIVEN PURPOSE OR APPLICATION.

CHEMICAL RESISTANCE WARNING

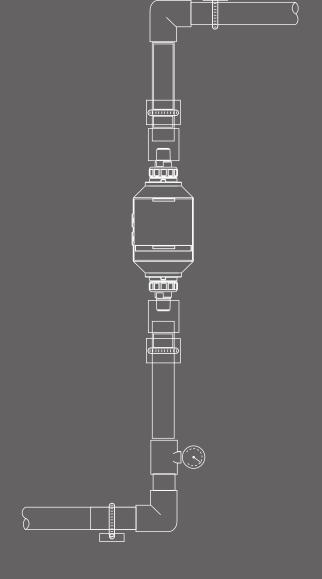
BLUE-WHITE offers a wide variety of wetted parts. Purchasers, installers, and operators of Blue-White products must be well informed and aware of the precautions to be taken when injecting or measuring various chemicals, especially those considered to be irritants, contaminants or hazardous. Customers are expected to do their own due diligence regarding which products and materials are best suited for their applications, particularly as it may relate to the potential effects of certain chemicals on Blue-White products and the potential for adverse chemical interactions. Blue-White tests its products with water only. The chemical resistance information included in this instruction manual was supplied to BLUE-WHITE by reputable sources, but Blue-White is not able to vouch for the accuracy or completeness thereof. While BLUE-WHITE will honor all of its product warranties according to their terms and conditions, Blue-White shall only be obligated to repair or replace its defective parts or products in accordance with the associated product warranties.

BLUE-WHITE SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, WHETHER DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF OR RELATED TO THE USE OF CHEMICALS IN CONNECTION WITH ANY BLUE-WHITE PRODUCTS.

Users of electrical and electronic equipment (EEE) with the WEEE marking per Annex IV of the WEEE Directive must not dispose of end of life EEE as unsorted municipal waste, but use the collection framework available to them for the return, recycle, recovery of WEEE and minimize any potential effects of EEE on the environment and human health due to the presence of hazardous substances. The WEEE marking applies only to countries within the European Union (EU) and Norway. Appliances are labeled in accordance with European Directive 2002/96/EC. Contact your local waste recovery agency for a Designated Collection Facility in your area.

Notes:

Notes:



MUNICIPALFlow Meters



MS6

SONIC-PRO® Flow Meter

- > Inline pipe fittings for easy installation
- > Isolated 4-20 mA output fully configurable
- > Process control via configurable solid state relay
- > User configurable flow rate and total set-point triggers
- > True unions for ease of maintenance



Highlights

Flow range	Pressures up to	Body material	Display
10 - 10,000 mL/min	200 PSI	PVDF	LCD
.158 - 158.5 GPH	(13.8 bar)		

Pipe sizes	Display options	Weight	Warranty
½" Barb, ½" M/NPT,	Remote mount or	1.9 lb.	5 Years
½" PVC slip	meter mount	(0.86 kg)	

Dimensions

	lash		Dim	lu ala	
Dim A	3.8"	9.7	Dim	10.02"	25.5
В	10.0"	25.4	F	3.8"	9.7
С	3.9"	9.9	G	3.7	9.4
D	3.4"	8.6			

Meter Mount Display Meter Body

-What's in the box-

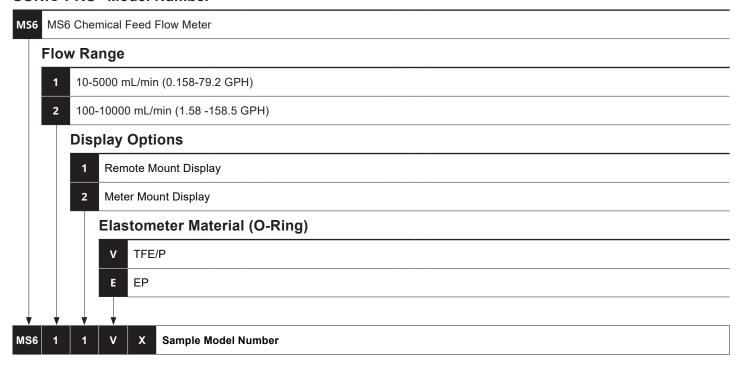
MS6 Chemical Feed meter Meter Body Connection Fittings 3/16" Hex Key USB Drive (Operating Manua and Blue-Central®) USB-A to USB-C connector Power Supply (user configurable)



Model Number Matrix

MS6

SONIC-PRO® Model Number



Display Options





MICRO-FLO

Paddlewheel Flow Verification Sensor

- > High accuracy digital paddlewheel technology
- > 1/8", 1/4"or 1/2" NPT, 1/4"OD or 3/8"OD Tubing sizes
- > Tamper proof factory programming
- > PVC or PVDF adapters available



Highlights

Flow range

.008 - 1.85 GPM .03 - 7.00 LPM

Body material

PVDF

Pressures up to

150 PSI (10 bar)

Connector Size

1/8", 1/4", 1/2" F/NPT

Max. fluid temp.

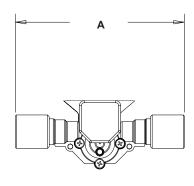
200 °F (93 °C) at 0 PSI

Warranty

1 Year

Dimensions

Dim	Inch	cm
Δ	5.0"	12 7

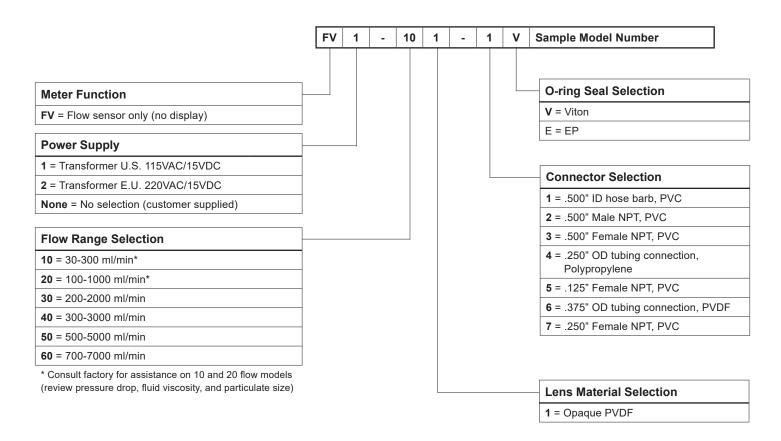


What's in the box-

Flow Sensor x1 Instruction manual



Model Number Matrix



F-1000

Paddlewheel Flow Meter

- > High accuracy digital paddlewheel technology
- > 3/8", 1/2", 3/4", 1", 1-1/2", and 2" male pipe threads
- > 1-1/2", 2", 2-1/2", 3", 4", 6", 8", 10" and 12" saddle mount sizes
- > Tamper proof factory programming
- > Easy to read 6 digit LCD display, up to 4 decimal places
- > Flow rate and flow totalization



Highlights

Flow range

.4 - 8,000 GPM 1 - 27,000 LPM

Body material

PVC, Polypropelyne or 316 Stainless Steel

Pressures up to

300 PSI (20 bar)

Pipe sizes

3/8", up to 12"

Max. fluid temp.

200 °F (93 °C) at 0 PSI

Warranty

1 Year

Polypropylene Molded In-Line Pipe

Pipe Size	GPM	LPM	Flow Range
3/8"	.8 - 8	3 - 30	Range 1
3/8"	.4 - 4	1 - 10	Range 2
1/2"	2 - 20	7 - 70	Range 1
3/4"	3 - 30	11 - 110	Range 1
1"	5 - 50	20 - 200	Range 1
1 1/2"	6 - 60	25 - 250	Range 2
2"	10 - 100	40 - 400	Range 3
2"	20 - 200	70 - 700	Range 4

Metric Saddle Mount Pipe

DIN 8062	LPM Range	Material
50mm	70 - 700	PVDF
63mm	110 - 1100	PVDF
75mm	150 - 1500	PVC
90mm	230 - 2300	PVDF
110mm	350 - 3500	PVC
160mm	720 - 7200	PVC
200mm	1150 - 11500	PVC
250mm	1700 - 17000	PVC
315mm	2700 - 27000	PVC

Dimensions

Pipe Size	Α	В
3/8"	5-3/8" (137mm)	4-3/4" (121mm)
1/2"	5-3/8" (137mm)	5-1/8" (130mm)
3/4"	5-5/8" (143mm)	5-1/4" (133mm)
1"	5-5/8" (143mm)	5-5/8" (143mm)
1-1/2"	6-1/8" (156mm)	6-1/2" (165mm)
2"	6-3/8" (162mm)	6-3/4" (171mm)

Standard Saddle Mount Pipe

ı ipo			
Pipe Size	GPM	LPM	Material
1 1/2"	15 - 150	60 - 600	PVDF
2"	30 - 300	100 - 1000	PVDF
2 1/2"	40 - 400	150 - 1500	PVC
3"	60 - 600	250 - 2500	PVDF
4"	100 - 1000	400 - 4000	PVC
6"	250 - 2500	900 - 9000	PVC
8"	400 - 4000	1600 - 16000	PVC
10"	600 - 6000	2400 - 24000	PVC
12"	800 - 8000	3200 - 32000	PVC

PVC TEE Pipe

Pipe	GPM	LPM	Material
1"	6 - 60	25 - 250	PVC
1 1/2"	15 - 150	60 - 600	PVC
2"	30 - 300	100 - 1000	PVC
3"	60 - 600	230 - 2300	PVC

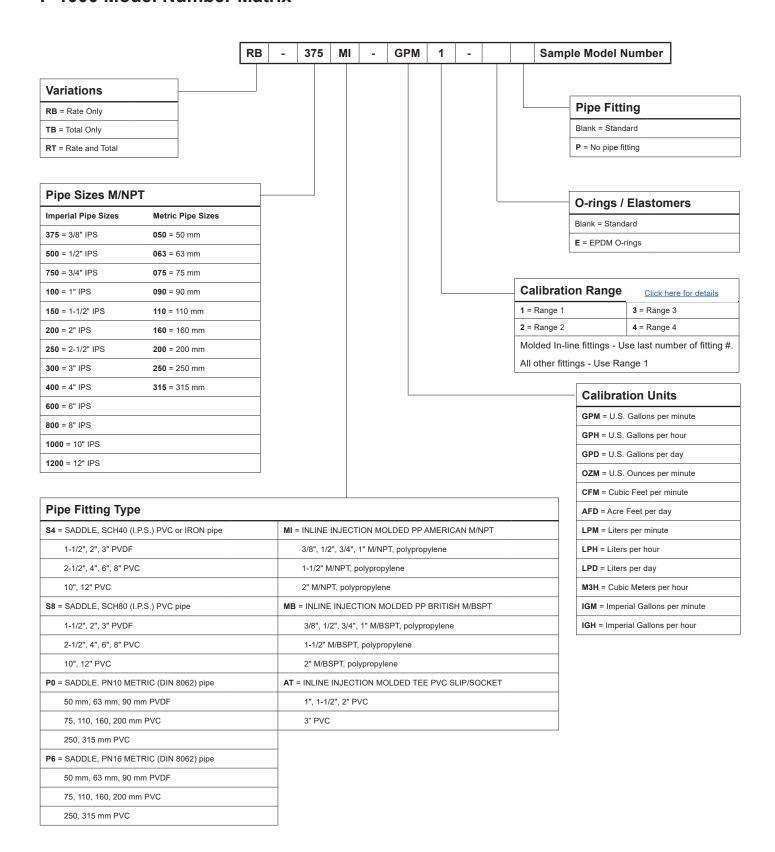
What's in the box

Flow meter x1 Clamp (saddle only) x 2 Pipe Plug (saddle only) x 1 Batteries x2 (installed) Instruction manual



F-1000 Model Number Matrix

Index



F-2000

Paddlewheel Flow Meter

- > High accuracy digital paddlewheel technology
- > 3/8", 1/2", 3/4", 1", 1-1/2", and 2" male pipe threads
- > 1-1/2", 2", 2-1/2", 3", 4", 6", 8", 10" and 12" saddle mount sizes
- > Optional 4-20mA or 0-10VDC output
- > Easy to read 8 digit LCD display, up to 4 decimal places
- > Flow rate and flow totalization
- > Front panel security lock-out



Highlights

Flow range

.4 - 8,000 GPM 1 - 27,000 LPM

Body material

PVC, Polypropelyne or 316 Stainless Steel

Pressures up to

300 PSI (20 bar)

Pipe sizes

3/8", up to 12"

Material

PVDF

PVDF

PVC

PVDF

PVC

PVC

PVC PVC

PVC

Max. fluid temp.

200 °F (93 °C) at 0 PSI

Warranty

1 Year

Polypropylene Molded In-Line Pipe

Pipe Size	GPM	LPM	FIOW
ripe Size	GFIVI	LFIVI	Range
3/8"	.8 - 8	3 - 30	Range 1
3/8"	.4 - 4	1 - 10	Range 2
1/2"	2 - 20	7 - 70	Range 1
3/4"	3 - 30	11 - 110	Range 1
1"	5 - 50	20 - 200	Range 1
1 1/2"	6 - 60	25 - 250	Range 2
2"	10 - 100	40 - 400	Range 3
2"	20 - 200	70 - 700	Range 4

Standard Saddle Mount

200mm 250mm 315mm

Pipe

DIN

8062

50mm

63mm

75mm

90mm

110mm

160mm

Flow

Pipe			
Pipe Size	GPM	LPM	Material
1 1/2"	15 - 150	60 - 600	PVDF
2"	30 - 300	100 - 1000	PVDF
2 1/2"	40 - 400	150 - 1500	PVC
3"	60 - 600	250 - 2500	PVDF
4"	100 - 1000	400 - 4000	PVC
6"	250 - 2500	900 - 9000	PVC
8"	400 - 4000	1600 - 16000	PVC
10"	600 - 6000	2400 - 24000	PVC
12"	800 - 8000	3200 - 32000	PVC

PVC TEE Pipe

Pipe	GPM	LPM	Material
1"	6 - 60	25 - 250	PVC
1 1/2"	15 - 150	60 - 600	PVC
2"	30 - 300	100 - 1000	PVC
3"	60 - 600	230 - 2300	PVC

Metric Saddle Mount

LPM Range

70 - 700

110 - 1100

150 - 1500

230 - 2300

350 - 3500

720 - 7200

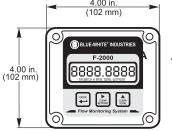
1150 - 11500

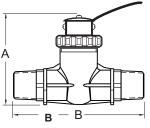
1700 - 17000

2700 - 27000

Dimensions

Pipe Siz	ze A	В
3/8"	3-3/4" (95mm)	4-3/4" (121mm)
1/2"	3-3/4" (95mm)	5-1/8" (130mm)
3/4"	4" (102mm)	5-1/4" (133mm)
1"	4" (102mm)	5-5/8" (143mm)
1-1/2"	4-1/2" (114mm)	6-1/2" (165mm)
2"	4-3/4" (121mm)	6-3/4" (171mm)





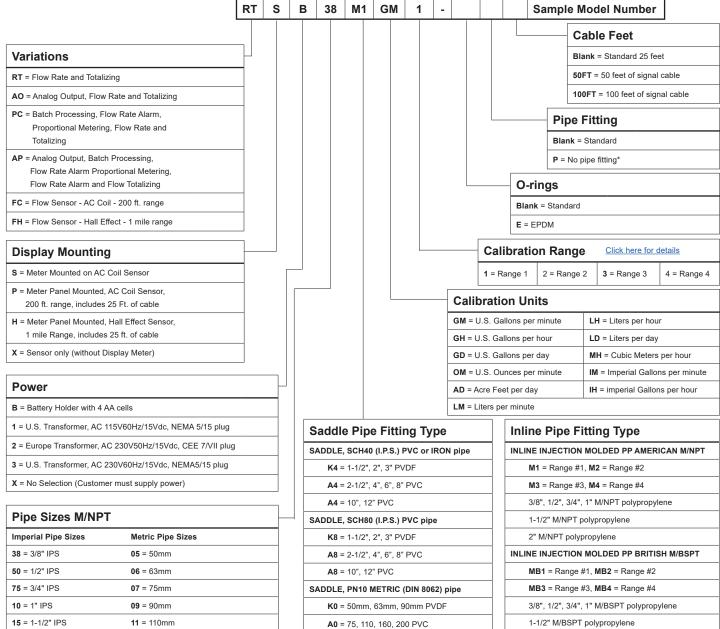
-What's in the box-

Flow meter x1 Clamp (saddle only) x 2 Pipe Plug (saddle only) x 1 Batteries x2 (installed) Instruction manual



F-2000 Model Number Matrix

Index



38 = 3/8" IPS	poapo 0.200	
75 = 3/4" IPS 07 = 75mm 10 = 1" IPS 09 = 90mm 15 = 1-1/2" IPS 11 = 110mm 20 = 2" IPS 16 = 160mm 25 = 2-1/2" IPS 20 = 200mm 30 = 3" IPS 25 = 250mm (PN10 only) 40 = 4" IPS 31 = 315mm (PN10 only) 60 = 6" IPS	38 = 3/8" IPS	05 = 50mm
10 = 1" IPS	50 = 1/2" IPS	06 = 63mm
15 = 1-1/2" IPS 11 = 110mm 20 = 2" IPS 16 = 160mm 25 = 2-1/2" IPS 20 = 200mm 30 = 3" IPS 25 = 250mm (PN10 only) 40 = 4" IPS 31 = 315mm (PN10 only) 60 = 6" IPS	75 = 3/4" IPS	07 = 75mm
20 = 2" IPS	10 = 1" IPS	09 = 90mm
25 = 2-1/2" IPS 20 = 200mm 30 = 3" IPS 25 = 250mm (PN10 only) 40 = 4" IPS 31 = 315mm (PN10 only) 60 = 6" IPS	15 = 1-1/2" IPS	11 = 110mm
30 = 3" IPS 25 = 250mm (PN10 only) 40 = 4" IPS 31 = 315mm (PN10 only) 60 = 6" IPS	20 = 2" IPS	16 = 160mm
40 = 4" IPS 31 = 315mm (PN10 only) 60 = 6" IPS	25 = 2-1/2" IPS	20 = 200mm
60 = 6" IPS	30 = 3" IPS	25 = 250mm (PN10 only)
	40 = 4" IPS	31 = 315mm (PN10 only)
80 = 8" IPS	60 = 6" IPS	
	80 = 8" IPS	
100 = 10" IPS	100 = 10" IPS	

* Calibration Range

120 = 12" IPS

Molded In-line fittings - Use last number of fitting #. All other fittings - Use Range 1

Inl	ine Pipe Fitting Type
INL	INE INJECTION MOLDED PP AMERICAN M/NPT
	M1 = Range #1, M2 = Range #2
	M3 = Range #3, M4 = Range #4
	3/8", 1/2", 3/4", 1" M/NPT polypropylene
	1-1/2" M/NPT polypropylene
	2" M/NPT polypropylene
INLINE INJECTION MOLDED PP BRITISH M/BSPT	
	MB1 = Range #1, MB2 = Range #2
	MB3 = Range #3, MB4 = Range #4
	3/8", 1/2", 3/4", 1" M/BSPT polypropylene
	1-1/2" M/BSPT polypropylene
	2" M/BSPT polypropylene
INLINE INJECTION MOLDED TEE PVC SLIP/SOCKET	
	AT = 1", 1-1/2", 2"
	Female slip glue/weld
	3" Female slip glue/weld

Optional Accessories and Components

71000-294 Panel Mount Kit Bracket \$30

A0 = 250,315mm PVC SADDLE, PN16 METRIC (DIN 8062) pipe **K6** = 50mm, 63mm, 90mm PVDF A6 = 75, 110, 160, and 200, PVC

71000-514 Mounting Conversion Kit, Sensor Mount to Panel Mount.

71000-301 Wall Mount Adapter Kit. Cable Not Inlouded.

71000-302 Wall or Pipe Mounting Kit (3/8" - 1.5 " Pipe). Cable Not Included.

71000-303 Wall or Pipe Mounting Kit (2" Pipe). Cable Not Included.

71000-304 Wall or Pipe Mounting Kit (3" Pipe). Cable Not Included.

71000-305 Wall or Pipe Mounting Kit (4" Pipe). Cable Not Included.

71000-306 Wall or Pipe Mounting Kit (6" Pipe). Cable Not Included.

71000-307 Wall or Pipe Mounting Kit (8" Pipe). Cable Not Included.

71000-414 Wall or Pipe Mounting Kit (10" Pipe). Cable Not Included.

71000-415 Wall or Pipe Mounting Kit (12" Pipe). Cable Not Included.

71000-322 Battery Back-up Kit

F-300

Variable Area Flow Meter

- > Easy to read dual scale (SCH 40 / SCH 80)
- > Acceptable for outdoor installations
- > Pitot Tube (impact tube) design makes it easy to install on existing pipe
- > One-piece, machined acrylic meter body



Highlights

Flow range Pressures up to Max. fluid temp.

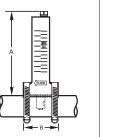
5.0 - 2,200 GPM (SCH 40) 75 PSI 190 °F 4.0 - 1,950 LPM (SCH 40) (5.17 bar) 88 °C

Body material Pipe sizes Warranty

Acrylic 1" to 8" 1 Year

Dimensions

Pipe Size	Α	В	Pipe Size	Α	В
1"	6"	2-7/16"	3"	6"	2-7/16"
1-1/4"	6"	2-7/16"	4"	6"	2-7/16"
1-1/2"	6"	2-7/16"	5"	6"	2-7/16"
2"	6"	2-7/16"	6"	7-1/2"	2-7/16"
2-1/2"	6"	2-7/16"	8"	7-1/2"	2-7/16"





U/D-300 Series

Pipe Size	Α	В
1-1/2"	6"	1-9/16"
2"	6"	1-9/16"

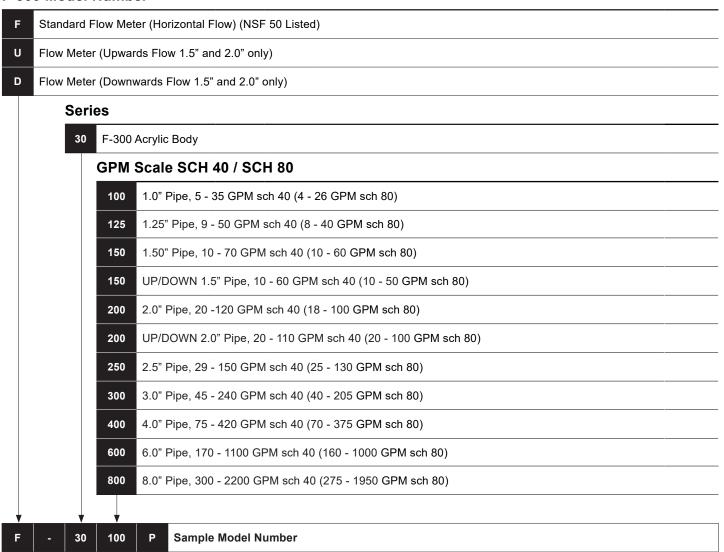
What's in the box-

Flow meter x 1 Rubber Gasket x 1 Clamp x 2 Instruction manual



Model Number Matrix

F-300 Model Number



Accessories



Replacement Parts

F-300M

Variable Area Flow Meter

- > Easy to read dual scale (PN10 / PN16)
- > Acceptable for outdoor installations
- > Pitot Tube (impact tube) design makes it easy to install on existing pipe
- > One-piece, machined acrylic meter body



Highlights

Flow range Pressures up to Max. fluid temp.

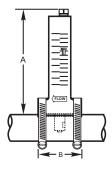
75 PSI 190 °F 30 - 1,800 LPM (PN10) 30 - 1,600 LPM (PN16) 88 °C (5.2 bar)

Body material Pipe sizes Warranty

Acrylic 32mm to 110mm 1 Year

Dimensions

Pipe Size	A (mm)	B (mm)
32mm	110	62
50mm	110	62
63mm	110	62
75mm	110	62
90mm	110	62
110mm	110	62



What's in the box-

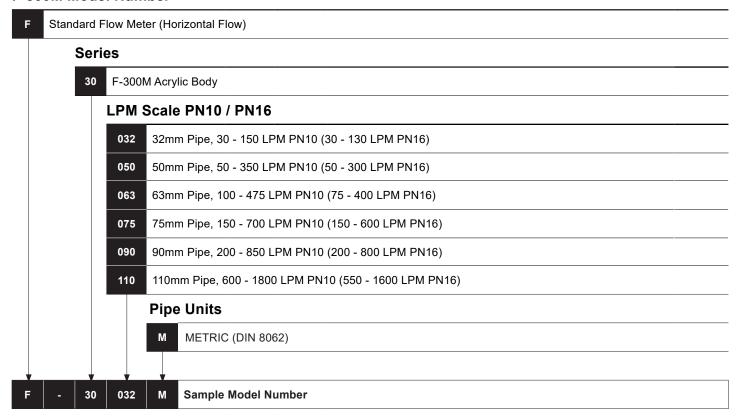
Flow meter x 1 Rubber Gasket x 1 Clamp x 2 Instruction manual



<u>Index</u> <u>Website</u> <u>Product Page</u> <u>Replacement Parts</u>

Model Number Matrix

F-300M Model Number



F-400

Variable Area Flow Meter

- > Durable, highly polished, one piece meter body
- > Annealed for added strength and chemical resistance
- > Acceptable in direct sunlight
- > Full scale accuracy +/- 5%
- > 316ss float & guide-wire



Highlights

Flow range

.025 - 5.0 GPM .1 - 20 LPM

Body

Acrylic

Pressures up to

150 PSI (10.3 bar)

Adapters

1/4", 3/8" & 1/2" F/NPT

Max. fluid temp.

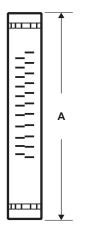
150 °F 65 °C

Warranty

1 Year

Dimensions

Dim	Inch	cm
Α	8-3/16"	20.8
В	1-1/4"	3.2





What's in the box-

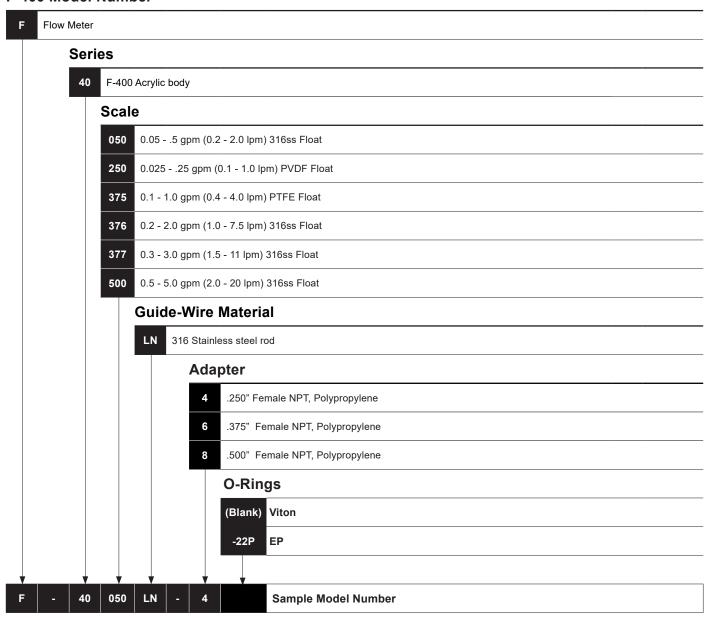
Flow meter x1 Instruction manual



Index Website Product Page Replacement Parts

Model Number Matrix

F-400 Model Number



^{*}In-house NIST Calibration, OEM packaging, silicone oil free and bulk packaging options are also available.

F-410

Variable Area Flow Meter

- > Durable, highly polished, one piece meter body
- > Annealed for added strength and chemical resistance
- > Acceptable in direct sunlight
- > Full scale accuracy +/- 5%
- > 316ss float & guide-wire



Highlights

Flow range

1.0 - 20 GPM

4.0 - 80 LPM

Body

Acrylic

Pressures up to

150 PSI (10.3 bar)

Adapters

3/4" & 1.0" F/NPT

Max. fluid temp.

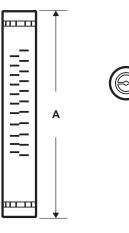
150 °F 65 °C

Warranty

1 Year

Dimensions

Dim	Inch	cm
Α	11"	27.9
В	1-3/4"	4.4



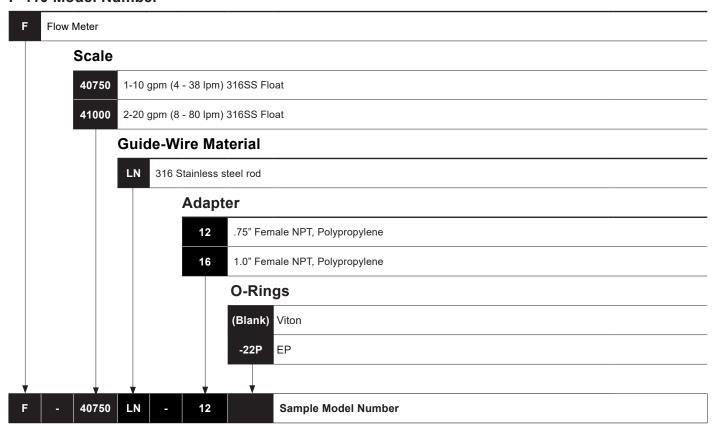
What's in the box-

Flow meter x1 Instruction manual



Model Number Matrix

F-410 Model Number



^{*}In-house NIST Calibration, silicone oil free and bulk packaging options are also available.

Variable Area Flow Meter

- > Durable, highly polished, one piece meter body
- > Annealed for added strength and chemical resistance
- > Acceptable in direct sunlight
- > Full scale accuracy +/- 5%
- > 316ss float & guide-wire



Highlights

Flow range

5.0 - 50 GPM 20 - 200 LPM

Body

Acrylic

Pressures up to

130 PSI (8.9 bar)

Adapters

1.0" & 1.5" (F/NPT & M/NPT) Max. fluid temp.

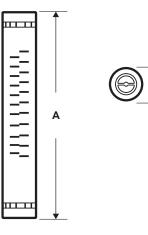
130 °F 54 °C

Warranty

1 Year

Dimensions

Dim	Inch	cm
Α	11"	27.9
В	1-3/4"	4.4



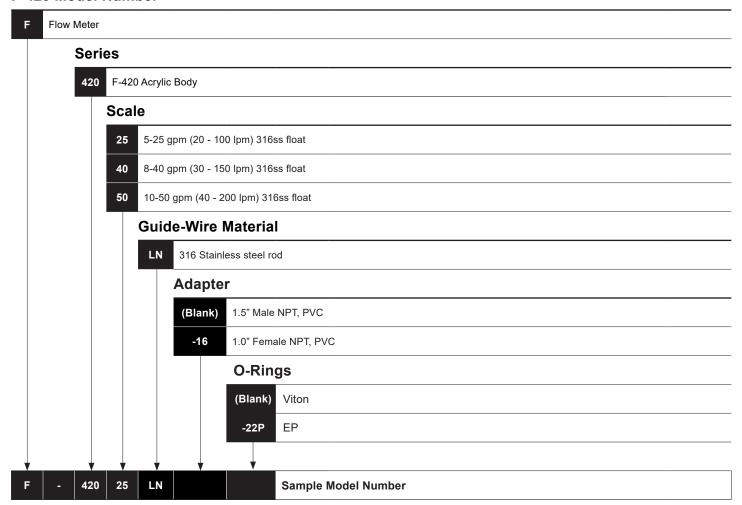
What's in the box-

Flow meter x1 Instruction manual



Model Number Matrix

F-420 Model Number



^{*}In-house NIST Calibration, OEM packaging and silicone oil free options are also available.

Replacement Parts

F-430

Index

Variable Area Flow Meter

- > Durable, highly polished, one piece meter body
- > Annealed for added strength and chemical resistance
- > Acceptable in direct sunlight
- > Full scale accuracy +/- 5%
- > 316ss float & guide-wire



Highlights

Flow range

4.0 - 100 GPM 15 - 375 LPM

Body

Acrylic

Pressures up to

130 PSI (8.9 bar)

Adapters

1.5" & 2.0" F/NPT

Max. fluid temp.

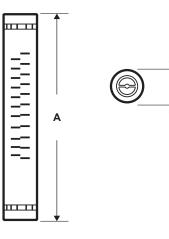
130 °F 54 °C

Warranty

1 Year

Dimensions

Dim	Inch	cm
Α	14"	35.6
В	3"	7.6



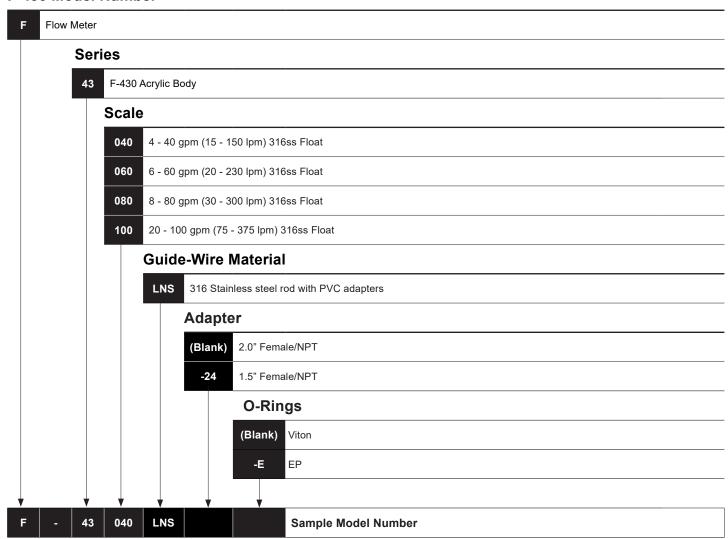
What's in the box-

Flow meter x1 Instruction manual



Model Number Matrix

F-430 Model Number



^{*}In-house NIST Calibration, OEM packaging and silicone oil free options are also available.

Variable Area Flow Meter

- > Durable, highly polished, one piece meter body
- > Annealed for added strength and chemical resistance
- > Acceptable in direct sunlight
- > Full scale accuracy +/- 5%
- > 316ss float & guide-wire



Highlights

Flow range Pressures up to Max. fluid temp.

.025 - 20 GPM 250 PSI 200 °F (17.2 bar) .1 - 75 LPM (93 °C)

Body Adapters Warranty

Acrylic 1/4" - 1.0" M/NPT 1 Year

Dimensions

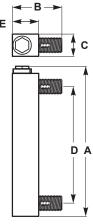
Panel Mount

Pipe Size	Α	В	С	D	E	Mount Hole
F-55250L (1/4")	7-1/4"	2-1/2"	1-1/16"	5-5/8"	1-1/4"	9/16"
F-55375L (3/8")	8-3/8"	2-3/4"	1-11/32"	6-1/2"	1-1/2"	11/16"
F-55376L (3/8")	8-3/8"	2-3/4"	1-11/32"	6-1/2"	1-1/2"	11/16"
F-55500L (1/2")	8-3/8"	2-3/4"	1-11/32"	6-1/2"	1-1/2"	7/8"
F-55750L (3/4")	9"	3-3/4"	1-1/2"	6-1/2"	1-3/4"	1-1/16"
F-55005L (1")	10-5/8"	4"	1-3/4"	8"	2"	1-21/64"
F-55010L (1")	10-5/8"	4"	1-3/4"	8"	2"	1-21/64"
F-55015L (1")	10-5/8"	4"	1-3/4"	8"	2"	1-21/64"
F-55200L (1")	10-5/8"	4"	1-3/4"	8"	2"	1-21/64"

Adjustable Panel Mount

Pipe Size	Α	В	С	D	E	F	Mount Hole
F-55250LA (1/4")	7-1/4"	3-7/16"	1"	5-5/8"	2-7/16"	1-11/32"	9/16"
F-55375LA (3/8")	8-3/8"	4-1/2"	1-11/32"	6-1/2"	3-1/4"	1-3/4"	11/16"
F-55376LA (3/8")	8-3/8"	4-1/2"	1-11/32"	6-1/2"	3-1/4"	1-3/4"	11/16"
F-55500LA (1/2")	8-3/8"	4-1/2"	1-11/32"	6-1/2"	3-1/4"	1-3/4"	7/8"
F-55750LA (3/4")	9"	5-1/2"	1-1/2"	6-1/2"	3-1/4"	15/16"	1-1/16"
F-55010LA (1")	10-5/8"	5-1/4"	1-3/4"	8"	3-1/2"	17/16"	1-21/64"
F-55015LA (1")	10-5/8"	5-1/4"	1-3/4"	8"	3-1/2"	17/16"	1-21/64"
F-55200LA (1")	10-5/8"	5-1/4"	1-3/4"	8"	3-1/2"	17/16"	1-21/64"

Non-Adjustable Panel Mount



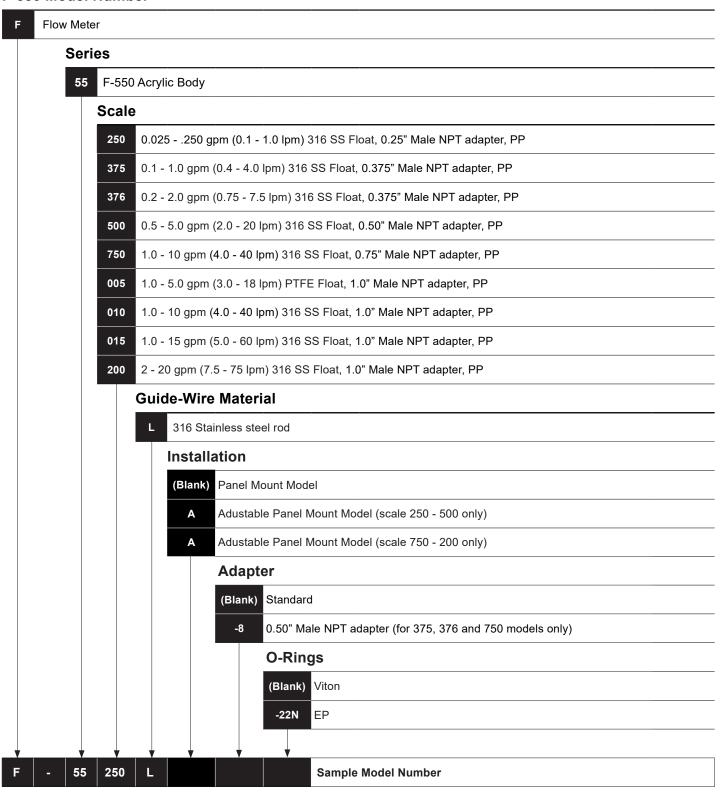
Panel Mount D A

Adjustable



Model Number Matrix

F-550 Model Number



Variable Area Flow Meter

- > Polysulfone body resists high temperatures and pressures
- > In-line or panel mount configurations available
- > Indoor use only
- > Full scale accuracy +/- 4%
- > 316ss float & guide-wire



Highlights

Flow range Pressures up to Max. fluid temp.

.025 - 10 GPM 175 PSI 212 °F 0.1 - 37.5 LPM 100 °C (12 bar)

Body Adapters Warranty

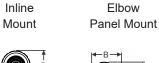
Polysulfone 1/4" - 3/4" M/NPT 1 Year

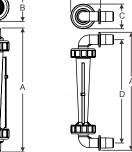
(Inline & panel mount)

Dimensi	D	С	В	Α	Pipe Size	
— Dillielisi					F-44250	·
Adjustable	N/A	N/A	1-11/16"	6-3/16"	F-44375	a
Panel Mount	IN/A	IN/A	(43mm)	157mm	F-44376	Inline
					F-44500	드
B	N/A	N/A	2" (51mm)	7-1/2" (191mm)	F-44750	
					F-44250E	
"	5-15/16"	1-11/16"	2" (76mm)	7" /170mm)	F-44375E	>
n) (1)	(151mm)	(43mm)	3 (76111111)	7 (17011111)	F-44376E	og
\					F-44500E	ш
3mm)	6-13/16" (173mm)	2" (51mm)	3" (76mm)	8-1/8" (206mm)	F-44750E	•
					F-44250EA	4
	6"	1-11/16"	4-1/2"	7"	F-44375EA	plole
	(152mm)	(43mm)	(114mm)	(178mm)	F-44376EA	Ista
					F-44500EA	\djt
3mm)	6-13/16" (173mm)	2" (51mm)	4-1/2" (114mm)	8" (203mm)	F-44750EA	Q
						•
3mm)	(151mm) 6-13/16" (173mm) 6" (152mm)	(43mm) 2" (51mm) 1-11/16" (43mm)	4-1/2" (114mm)	7" (178mm)	F-44376E F-44500E F-44750E F-44250EA F-44375EA F-44376EA F-44500EA	Adjustable Elbow

ensions

▊

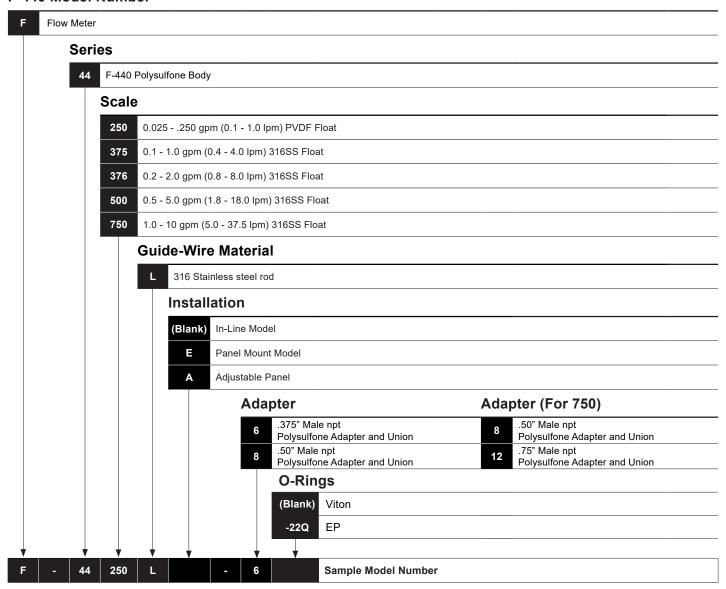






MODEL NUMBER MATRIX

F-440 Model Number



^{*}In-house NIST Calibration, OEM packaging and silicone oil free options are also available.

Replacement Parts

F-450

Variable Area Flow Meter

- > Polysulfone body resists high temperatures and pressures
- > In-line or panel mount configurations available
- > Indoor use only
- > Full scale accuracy +/- 4%
- > 316ss float & guide-wire



Highlights

Flow range

0.1 - 10 GPM

0.4 - 40 LPM

Pressures up to

150 PSI (10.3 bar)

Max. fluid temp.

150 °F 65 °C

Body

Polysulfone

Adapters

3/8" - 3/4" M/NPT (Inline & panel mount)

Warranty

1 Year

Dimensions

	Pipe Size	Α	В	С	D
	F-45375L	0.7/01	1.0/4		
nline -	F-45376L	8-7/8" 225.5mm	1-3/4" (44.4mm)	N/A	N/A
=	F-45500L	220.011111	(44.411111)		
	F-45750L	10" (254mm)	2" (51mm)	N/A	N/A
	F-45375E				
	F-45376E	9-7/8" (250.8mm)	3-1/2" (88mm)	2" (51mm)	9-1/8" (233mm)
_	F-45500E	(230.011111)	(0011111)	(3 111111)	(20011111)
	F-45750E	10" (254mm)	3-1/2" (88mm)	2" (51mm)	9-1/8" (233mm)
, -	F-45375A		_		
2	F-45376A	9-7/8" (250.8mm)	5" (127mm)	2" (51mm)	8-9/16" (217.5mm)
2 -	F-45500A	(230.011111)	(12/11111)	(5 111111)	(217.311111)
	F-45750A	10" (254mm)	5" (127mm)	2" (51mm)	9-1/8" (231.8mm)

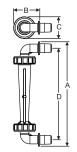




Inline Mount



Elbow Panel Mount



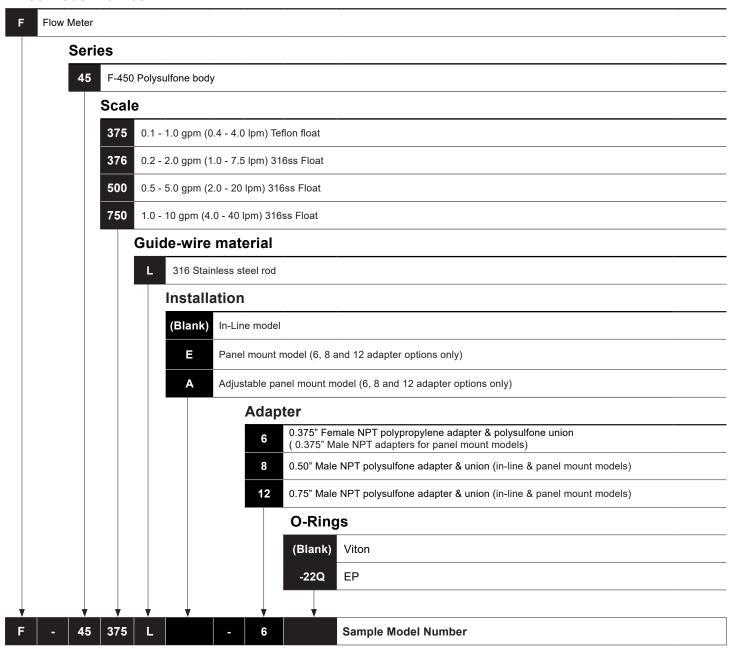
What's in the box

Flow meter x1 Instruction manual



Model Number Matrix

F-450 Model Number



^{*}In-house NIST Calibration, OEM packaging and silicone oil free options are also available.

Replacement Parts

F-451

Variable Area Flow Meter

- > Polysulfone body resists high temperatures and pressures
- > In-line or panel mount configurations available
- > Indoor use only
- > Full Scale Accuracy +/- 3%
- > 316ss float & guide-wire



Highlights

Flow range

0.5 - 40 GPM

2.0 - 155 LPM

Body

Polysulfone

Pressures up to

150 PSI (10.3 bar)

Adapters

1.0" & 1.5" F/NPT (Inline & panel mount) Max. fluid temp.

212 °F 100 °C

Warranty

1 Year

Dimensions

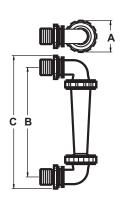
Vertical Inline Models

Dim	Inch	cm
Α	14-1/2"	36.83
В	3-5/16"	8.41

Panel Mount Elbow Models

Dim	Inch	cm
Α	3-5/16"	8.41
В	15"	38.1
С	17"	43.18





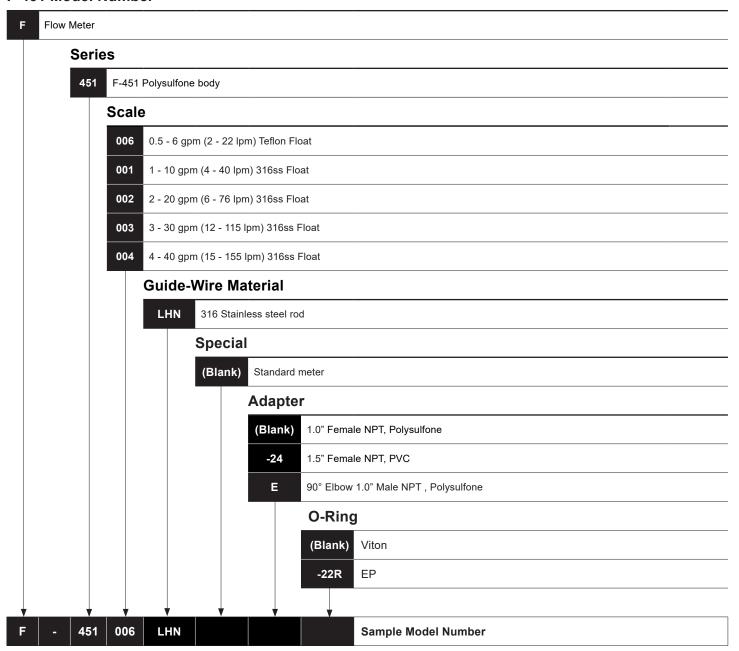
What's in the box-

Flow meter x1 Instruction manual

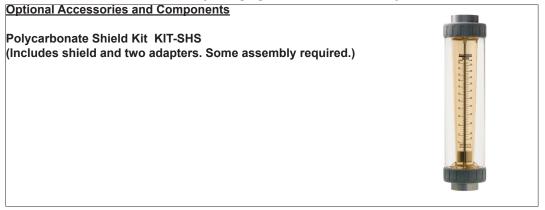


Model Number Matrix

F-451 Model Number



*In-house NIST Calibration, OEM packaging and silicone oil free options are also available.



Variable Area Flow Meter

- > Polysulfone body resists high temperatures and pressures
- > In-line or panel mount configurations available
- > Indoor use only
- > Full scale accuracy +/- 2%
- > 316ss float & guide-wire



Highlights

Flow range

2 - 175 GPM

8 - 675 LPM

Body

Polysulfone

Pressures up to

150 PSI (10.3 bar)

Adapters

2.0" F/NPT

Max. fluid temp.

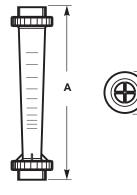
200 °F 93 °C

Warranty

1 Year

Dimensions

Dim	Inch	cm
Α	18-7/8"	47.9
В	4-5/8"	11.7



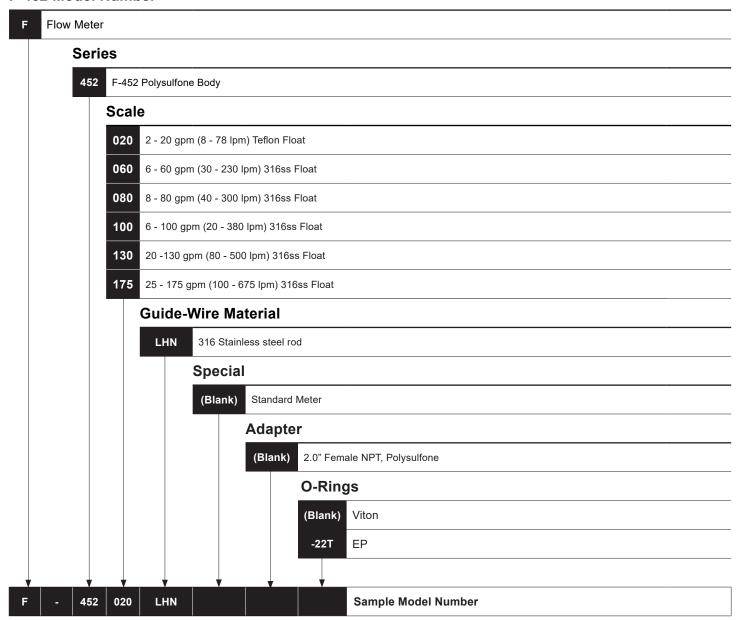
What's in the box-

Flow meter x1 Instruction manual

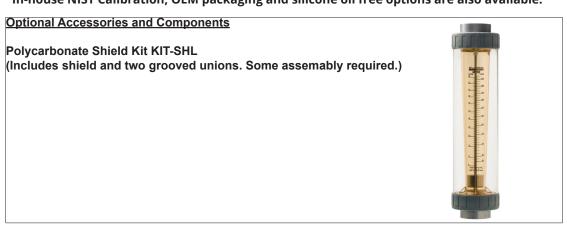


Model Number Matrix

F-452 Model Number



^{*}In-house NIST Calibration, OEM packaging and silicone oil free options are also available.



Variable Area Flow Meter

- > Polysulfone body resists high temperatures and pressures
- > Ultrapure No metal in fluid path
- > Indoor use only
- > Full scale accuracy +/- 2.5%
- > PTFE float for corrosive applications



Highlights

Flow range

0.1 - 5.0 GPM 0.4 - 20.0 LPM

Body

Polysulfone

Pressures up to

150 PSI (10.3 bar)

Adapters

1/2" & 3/4" F/NPT

Max. fluid temp.

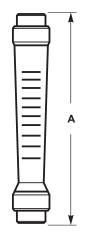
210 °F / 98 °C (PVDF) 130 °F / 54 °C (PVC)

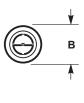
Warranty

1 Year

Dimensions

Dim	Inch	cm
Α	10"	25.4
В	1-3/4"	44 N





What's in the box-

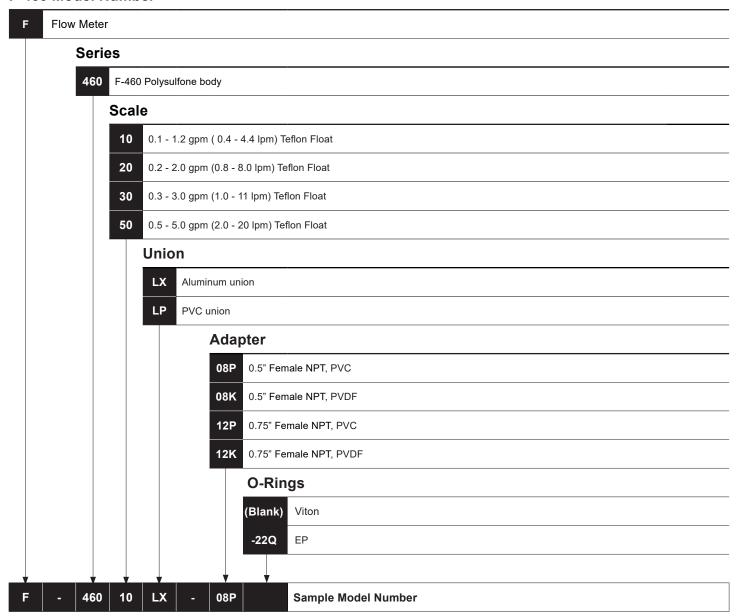
Flow meter x1 Instruction manual



<u>Index</u> <u>Website</u> <u>Product Page</u> <u>Replacement Parts</u>

Model Number Matrix

F-460 Model Number



^{*}In-house NIST Calibration, OEM packaging and silicone oil free options are also available.

Variable Area Flow Meter

- > Polysulfone body resists high temperatures and pressures
- > Ultrapure No metal in fluid path
- > Indoor use only
- > Full scale accuracy +/- 2.5%
- > PTFE float for corrosive applications



Highlights

Flow range

1.0 - 35.0 GPM

4.0 - 130 LPM

Body

Polysulfone

Pressures up to

150 PSI (10.3 bar)

Adapters

1.0" F/NPT

Max. fluid temp.

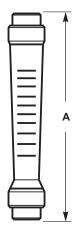
210 °F / 98 °C (PVDF) 130 °F / 54 °C (PVC)

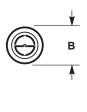
Warranty

1 Year

Dimensions

Dim	Inch	cm
Α	15"	38.1
В	2-3/4"	7.0





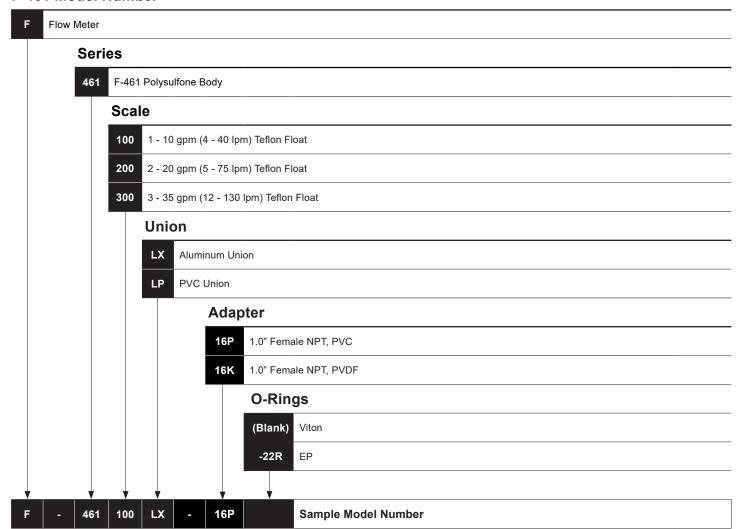
What's in the box-

Flow meter x1 Instruction manual



Model Number Matrix

F-461 Model Number



^{*}In-house NIST Calibration, OEM packaging, silicone oil free and bulk packaging options are also available.

Variable Area Flow Meter

- > Polysulfone body resists high temperatures and pressures
- > Ultrapure No metal in fluid path
- > Indoor use only
- > Full scale accuracy +/- 2.5%
- > PTFE float for corrosive applications



Highlights

Flow range

2.0 - 80 GPM 6 - 300 LPM Pressures up to

150 PSI (10.3 bar)

Max. fluid temp.

200 °F 93 °C

Body

Polysulfone

Adapters

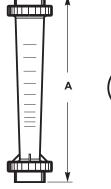
2.0" F/NPT

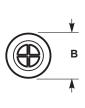
Warranty

1 Year

Dimensions

Dim	Inch	cm
Α	18-7/8"	47.9
В	4-5/8"	11.7





-What's in the box-

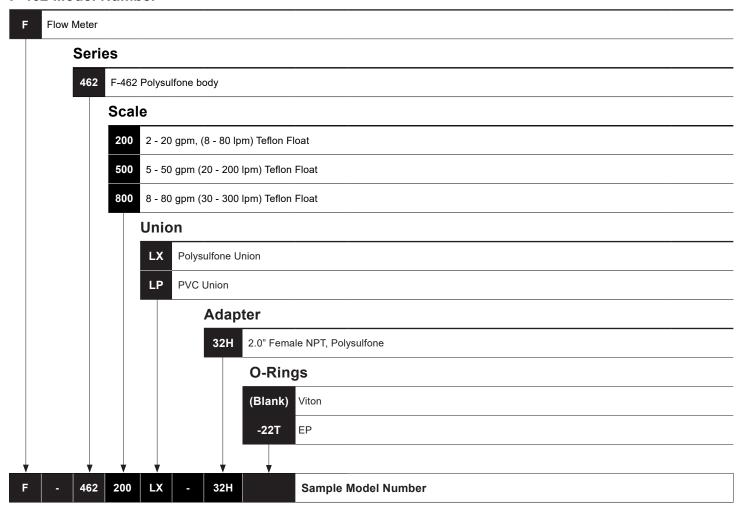
Flow meter x1 Instruction manual



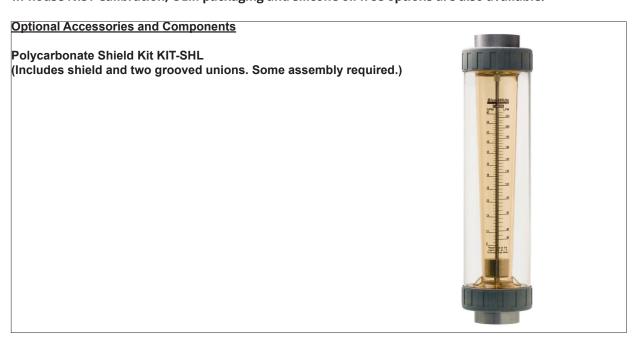
<u>Index</u> <u>Website</u> <u>Product Page</u> <u>Replacement Parts</u>

Model Number Matrix

F-462 Model Number



^{*}In-house NIST Calibration, OEM packaging and silicone oil free options are also available.



FLOW METER WARRANTY

LIMITED WARRANTY

Your Blue-White product is a quality product and is warranted for a specific time from date of purchase (proof of purchase is required). The product will be repaired or replaced at our discretion. Failure must have occurred due to defect in material or workmanship and not as a result of operation of the product other than in normal operation as defined in the product manual. Warranty status is determined by the product's serial label and the sales invoice or receipt. The serial label must be on the product and legible. The warranty status of the product will be verified by Blue-White or a factory authorized service center.

Variable Area and Digital Flow meters are warranted for 1 year from date of purchase (proof of purchase is required). The flow meter will be repaired or replaced at our discretion. SONIC-PRO® MS6 is warranted for 5 years from date of purchase (proof of purchase is required). The flowmeter will be repaired or replaced at our discretion.

WHAT IS NOT COVERED

- Freight to the factory, or service center.
- Products that have been tampered with, or in pieces.
- Damage resulting from misuse, carelessness such as chemical spills on the enclosure, abuse, lack of maintenance, or alteration which is out of our control.
- Damage by faulty wiring, power surges or acts of nature.

BLUE-WHITE does not assume responsibility for any loss, damage, or expense directly or indirectly related to or arising out of the use of its products. Failure must have occurred due to defect in material or workmanship and not as a result of operation of the product other than in normal operation as defined in the pump manual.

Warranty status is determined by the pump's serial label and the sales invoice or receipt. The serial label must be on the pump and legible. The warranty status of the pump will be verified by Blue-White or a factory authorized service center.

PROCEDURE FOR IN WARRANTY REPAIR

Warranty service must be performed by the factory or an authorized service center. Contact the factory or local repair center to obtain a RMA (Return Material Authorization) number. It is recommended to include foot strainer and injection/ check valve fitting since these devices may be clogged and part of the problem. Decontaminate, dry, and carefully pack the product to be repaired. Please enclose a brief description of the problem and proof of purchase. Prepay all shipping and insurance cost. COD shipments will not be accepted. Damage caused by improper packaging is the responsibility of the sender. When In-Warranty repair is completed, the factory pays for return shipping to the dealer or customer.

PRODUCT USE WARNING

Blue-White products are manufactured to meet the highest quality standards in the industry. Each product instruction manual includes a description of the associated product warranty and provides the user with important safety information. Purchasers, installers, and operators of Blue-White products should take the time to inform themselves about the safe operation of these products. In addition, Customers are expected to do their own due diligence regarding which products and materials are best suited for their intended applications. BLUE-WHITE is pleased to assist in this effort but does not guarantee the suitability of any particular product for any specific application as Blue-White does not have the same degree of familiarity with the application that the customer/end user has. While BLUE-WHITE will honor all of its product warranties according to their terms and conditions, Blue-White shall only be obligated to repair or replace its defective parts or products in accordance with the associated product warranties.

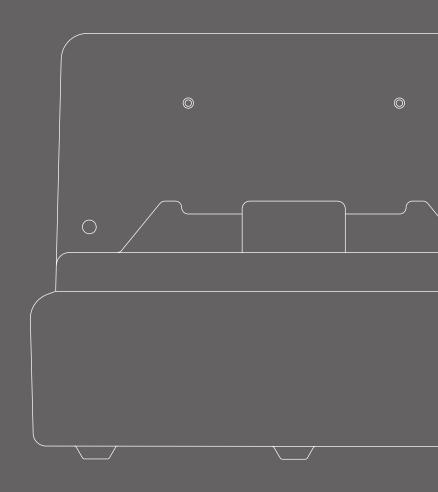
BLUE-WHITE SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE WHETHER DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF OR RELATED TO THE FAILURE OF ANY OF ITS PARTS OR PRODUCTS OR OF THEIR NONSUITABILITY FOR A GIVEN PURPOSE OR APPLICATION.

CHEMICAL RESISTANCE WARNING

BLUE-WHITE offers a wide variety of wetted parts. Purchasers, installers, and operators of Blue-White products must be well informed and aware of the precautions to be taken when injecting or measuring various chemicals, especially those considered to be irritants, contaminants or hazardous. Customers are expected to do their own due diligence regarding which products and materials are best suited for their applications, particularly as it may relate to the potential effects of certain chemicals on Blue-White products and the potential for adverse chemical interactions. Blue-White tests its products with water only. The chemical resistance information included in this instruction manual was supplied to BLUE-WHITE by reputable sources, but Blue-White is not able to vouch for the accuracy or completeness thereof. While BLUE-WHITE will honor all of its product warranties according to their terms and conditions, Blue-White shall only be obligated to repair or replace its defective parts or products in accordance with the associated product warranties.

BLUE-WHITE SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, WHETHER DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF OR RELATED TO THE USE OF CHEMICALS IN CONNECTION WITH ANY BLUE-WHITE PRODUCTS.

Users of electrical and electronic equipment (EEE) with the WEEE marking per Annex IV of the WEEE Directive must not dispose of end of life EEE as unsorted municipal waste, but use the collection framework available to them for the return, recycle, recovery of WEEE and minimize any potential effects of EEE on the environment and human health due to the presence of hazardous substances. The WEEE marking applies only to countries within the European Union (EU) and Norway. Appliances are labeled in accordance with European Directive 2002/96/EC. Contact your local waste recovery agency for a Designated Collection Facility in your area.



MUNICIPAL

Tank Systems and Accessories

Blue-White®

STAR III SYSTEM

Metering Pump Tank System

- > Polyethylene tank with U.V. inhibitors for sunlight protection
- > The tank has extra heavy wall thickness for stability
- > All necessary accessories are included
- > Raised off the floor for easy wash down
- > Lid position: open, closed, or vented
- > For use with: M1, MD1, and A100N pumps.



Highlights

Tank capacity Compatibility Warranty

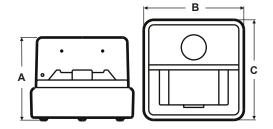
7 gallon, 15 gallon, or 30 gallon

M1, MD1

1 Year

Dimensions

	/ Gallon Tank	15 Gallon Tank	30 Gallon Tank
PART	KIT-S07	KIT-S15	KIT-S30
Α	12" (30cm)	17.25" (44cm)	27.50" (69cm)
В	18.5" (47cm)	20" (51cm)	20" (51cm)
С	18.5" (47cm)	20" (51cm)	20" (51cm)
SHIP WT	24 lb. (11ka)	32 lb. (15kg)	38 lb. (18kg)



What's in the box-

One tank

One lid (3-way position for open, closed or vented)

One foot valve (71000-351)

Mounting screws

Pump mounting bracket

CHEMICAL TANK

Tank System

- > Polyethylene single wall tank
- > U.V. inhibitors for sunlight protection
- > The tank has extra heavy wall thickness for stability
- > Includes volume graduation marks



Highlights

Tank capacity

15 gallon, 30 gallon, or

50 gallon

Complete

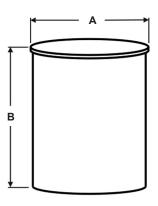
Tanks come with solid, one-piece lid

Warranty

1 Year

Dimensions

	ST-15	ST-30	ST-50
	15 Gallon Tank	30 Gallon Tank	50 Gallon Tank
Α	14.13" (35.8 cm)	18.50" (46.9 cm)	22.50" (57.1 cm)
В	23.63" (60.0 cm)	28.38" (72.0 cm)	33.38" (84.7 cm)
SHIP WT	11 lb. (4.90 kg)	16 lb. (7.30 kg)	23 lb. (10.40 kg)



What's in the box-

1 Tank

1 Lid

PUMP ACCESSORIES

Cat. No.	Part No.	Description
FOOT VALVES	AND STRAINERS	
C-340A		Foot Valve for 1/4" ID, 3/8" OD tubing, Aflas, PVDF (No spring)
C-340E		Foot Valve for 1/4" ID, 3/8" OD tubing, EP, PVDF (No spring)
C-342-6		Strainer, for 1/4" ID tubing
C-346		Ceramic Weight (for 3/8" OD tubing)
C-345E		Foot Valve/Bilkhead Fttting for 1/4" tubing, 3/8" OD, EP Seal, PVDF
C-345A		Foot Valve/Bulkhead Fitting for 1/4" tubing, 3/8" OD, FKM/Aflas, PVDF
	71000-825	Suction Strainer, 1/2" Barb, PVDF body
	71000-824	Suction Strainer, 1/2" MNPT, PVDF body
	71010-261	Foot Valve, 1/4" ID x 3/8 OD tube, PVDF Body, FKM O-ring
	71000-575	Foot Valve, 1/2" Barb, PVDF Body, FKM O-ring
	71000-576	Foot Valve, 1/2" Barb, PVDF Body, EP O-ring
	71000-849	Foot Valve, 1/2" MNPT, PVDF Body, FKM O-ring
	71000-850	Foot Valve, 1/2" MNPT, PVDF Body, EP O-ring
	71001-005	Foot Valve, 1/2" MNPT, PVDF Body, FKM O-ring (PTFE Ball)
	71001-106	Foot Valve, 1/4" ID x 3/8 OD tube, PVDF Body, FKM O-ring
	71001-107	Foot Valve, 1/4" ID x 3/8 OD tube, PVDF Body, EP O-ring
INJECTION VAL	VES for FLEXFLO)
A-014N-6A		Injection Valve, for 3/8" OD Tubing, Aflas/FKM, PP body, 1/2 psi
A-014N-6E		Injection Valve, for 3/8" OD Tubing, EP, PP body. 1/2 psi
A-014NK-6A		Injection Valve, for 3/8" OD Tubing, Aflas/FKM, PVDF body, 1/2 psi
A-014NK-6E		Injection Valve, for 3/8" OD Tubing, EP, PVDF body, 1/2 psi
A-014NK-6A-T		Injection Valve, for 3/8" OD Tubing,Aflas/FKM,PVDF body, 1/2 psi (PTFE Ball)
	71000-770	Injection Valve, 1/2" Barb Tubing, FKM, PVDF body, 2 psi
	71000-377	Injection Valve, 1/2" Barb Tubing, EP, PVDF body, 2 psi
	71000-985	Injection Valve, 1/2" MNPT, FKM, PVDF body, 2 psi (PTFE Ball)
	71000-767	Injection Valve, 1/2" MNPT, FKM, PVDF body, 2 psi
	71000-386	Injection Valve, 1/2" MNPT, EP, PVDF body, 2 psi
INJECTION VAL	VES for CHEM-FI	EED .
C-395N-6A		Injection Valve, for 3/8" OD Tubing, Aflas/FKM, PP body, 6 psi
C-395N-6E		Injection Valve, for 3/8" OD Tubing, EP, PP body. 6 psi
C-395NK-6A		Injection Valve, for 3/8" OD Tubing, Aflas/FKM, PVDF body, 6 psi
C-395NK-6E		Injection Valve, for 3/8" OD Tubing, EP, PVDF body, 6 psi
C-395NK-6A-PTFE		Injection Valve, for 3/8" OD Tubing, Aflas/FKM, PVDF body, 6 psi (PTFE Ball)
	71000-579	Injection Valve, 1/2" Barb Tubing, FKM, PVDF body, 6 psi
	71000-580	Injection Valve, 1/2" Barb Tubing, EP, PVDF body, 6 psi
	71000-577	Injection Valve, 1/2" MNPT, FKM, PVDF body, 6 psi
	71000-578	Injection Valve, 1/2" MNPT, EP, PVDF body, 6 psi
	71001-004	Injection Valve, 1/2" MNPT, FKM, PVDF body, 6 psi (PTFE Ball)

Cat. No.	Part No.	Description
FLOW INDIC	ATORS	
FI-100-8SV	'	Flow Indicator, Acrylic Body, Ceramic Ball. 1/2" PVC Slip, FKM O-ring
FI-100-8SE		Flow Indicator, Acrylic Body, Ceramic Ball. 1/2" PVC Slip, EP O-ring
FI-100-8MV		Flow Indicator, Acrylic Body, Ceramic Ball. 1/2" MNPT, FKM O-ring
FI-100-8ME		Flow Indicator, Acrylic Body, Ceramic Ball. 1/2" MNPT, EP O-ring
TUBING		
C-334-6		Tubing, Suction, clear PVC 3/8" OD x 5 ft length
C-334-6-10		Tubing, Suction, clear PVC 3/8" OD x 10 ft length
C-334-6-25		Tubing, Suction, clear PVC 3/8" OD x 25 ft length
C-334-6-100		Tubing, Suction, clear PVC 3/8" OD x 100 ft length
	76001-361	Tubing, Suction, clear PVC, 1/2" ID x 3/4" OD, 8 ft length
C-335-6		Tubing, Discharge, polyethylene, 3/8" OD x 5 ft length
C-335-6-10		Tubing, Discharge, polyethylene, 3/8" OD x 10 ft length
C-335-6-25		Tubing, Discharge, polyethylene, 3/8" OD x 25 ft length
C-335-6-100		Tubing, Discharge, polyethylene, 3/8" OD x 100 ft length
	90008-437	Tubing, Discharge, Clear Braided PVC, 1/2" ID x 3/4" OD.
COMPRESS	ION NUTS and	CLAMPS
C-330-6		PVDF Compression Nut, FNPT Threaded
C-3330		Hose Clamp, 316 SS, Screw Tightened
QUICK DISC	ONNECT KITS	
KIT-CQA		Quick Disconnect Kit for CD1 Pump, PVDF, Alfas
KIT-CQE		Quick Disconnect Kit for CD1 Pump, PVDF, EP
KIT-QSV		Quick Disconnect Kit for A2, A3 Pumps, 1/4" x 3/8" fitting "S", PVDF, FKM
KIT-QSE		Quick Disconnect Kit for A2, A3 Pumps, 1/4" x 3/8" fitting "S", PVDF, EP
KIT-QSA		Quick Disconnect Kit for A2, A3 Pumps, 1/4" x 3/8" fitting "S", PVDF, Aflas
KIT-QBV		Quick Disconnect Kit for A2, A3, A4 Pumps, 1/2" Hose Barb fitting "B", PVDF, FKM
KIT-QBE		Quick Disconnect Kit for A2, A3, A4 Pumps, 1/2" Hose Barb fitting "B", PVDF, EP
KIT-QBA		Quick Disconnect Kit for A2, A3, A4 Pumps, 1/2" Hose Barb fitting, "B", PVDF, Aflas
KIT-QBA		Quick Disconnect Kit for A2, A3, A4 Pumps, 1/2" Hose Barb fitting, "B", PVDF, Aflas Quick Disconnect Kit for A2, A3, A4 Pumps, 1/2" MNPT fitting "M", PVDF, FKM
KIT-QMV		Quick Disconnect Kit for A2, A3, A4 Pumps, 1/2" MNPT fitting "M", PVDF, FKM
KIT-QMV KIT-QME	F	Quick Disconnect Kit for A2, A3, A4 Pumps, 1/2" MNPT fitting "M", PVDF, FKM Quick Disconnect Kit for A2, A3, 4 Pumps, 1/2" MNPT fitting "M", PVDF, EP

Cat. No.	Part No.	Description
POWER CO	ORDS	
	90010-663	Power Cord, 6 ft Detachable,115V / 60Hz, power cord NEMA 5/15 plug (US)
	90010-711	Power Cord, 6ft Detachable / Lockable, 115V / 60 Hz (M3/M4/M5/MD3 only)
	90010-821	Power Cord, 6ft Detachable / Lockable, 115V / 60 Hz (AM1, MD1 only)
	90010-664	Power Cord, 6 ft Detachable, 220V / 50HZ, power cord CEE 7/VII plug (EU)
	90010-665	Power Cord, 6 ft Detachable, 230V / 50HZ, power cord BS 1363/A plug (UK)
	90010-666	Power Cord, 6 ft Detachable, 240V / 50HZ, power cord AS 3112 plug (AU/New Zealand)
	90010-696	Power Cord, 6 ft Detachable, 230V / 60Hz, power cord NEMA 6/15 plug (US)
M12 CABLE	ES	
KIT-M12		M12 Cable Assy, 10 ft, Qty 2
KIT-M12-2-1	15	M12 Cable Assy, 15 ft, Qty 2
KIT-M12-2-3	30	M12 Cable Assy, 30 ft, Qty 2
KIT-M12-3		M12 Cable Assy, 10 ft, Qty 3
KIT-M12-3-1	15	M12 Cable Assy, 15 ft, Qty 3
KIT-M12-3-3	30	M12 Cable Assy, 30 ft, Qty 3
KIT-M12-6		M12 Cable Assy, 10 ft, Qty 6
KIT-M12-6-1	15	M12 Cable Assy, 15 ft, Qty 6
KIT-M12-6-3	30	M12 Cable Assy, 30 ft, Qty 6
OTHER CA	BLES	
KIT-DP3		Profibus Cable, M12, 3 ft
CABLE-UAC		USB A-C Cable
MISC		
A-050		Silicon Oil, 5 ml
CB-1SX		Convertor Box with Six M12 Cables

MUNICPAL CO₂ Feed System

Blue-White®

- Safe Alternative to Acid Feed for pH Control
- Accurate and Reliable Flowmeter for Precise Feed
- 0-80 scfh float (installed), 30-350 scfh float (included separately)
- Illuminated On/Off Switch
- Stainless Steel Solenoid Valve
- Easy Push Connectors for Tubing Connection

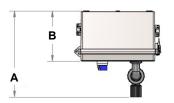


Highlights

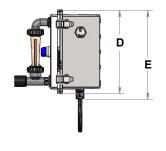
CO₂ Flow Ranges	Flowmeter	Solenoid Valve
0-80 scfh 30-350 scfh	Accurate Polysulfone Blue-White Rotameter	Stainless Steel
Enclosure	Injector / Eductor	Warranty
Nema 4X	Effective Dissolution	1 Year

Dimensions

Dim Inch		cm	
Α	8.91"	22.6	
В	5.21"	13.2	
С	8.94"	22.7	
D	8.60"	21.8	
Е	9.19"	23.3	







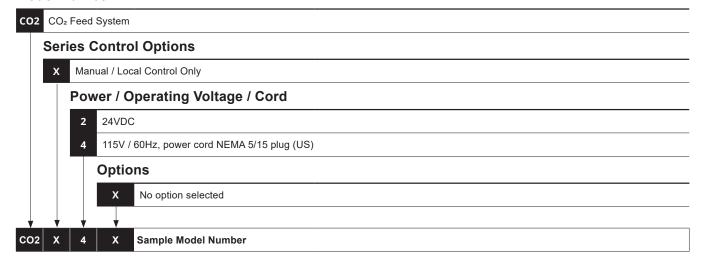
What's in the box-

CO₂ Feed System with 6 ft power cord Float for 0-80 scfh (installed), and float for 30-350 scfh (included separately) Injector/Diffuser (for use with 0-80 scfh flow) Tubing - 10' length (3/8" OD, 1/4" ID) Instruction manual



Model Number Matrix CO2

Model Number



Accessories



















CO₂ FEED SYSTEM WARRANTY

LIMITED WARRANTY

Your Blue-White product is a quality product and is warranted for a specific time from date of purchase (proof of purchase is required). The product will be repaired or replaced at our discretion. Failure must have occurred due to defect in material or workmanship and not as a result of operation of the product other than in normal operation as defined in the product manual. Warranty status is determined by the product's serial label and the sales invoice or receipt. The serial label must be on the product and legible. The warranty status of the product will be verified by Blue-White or a factory authorized service center.

CO₂ Feed Systems are warranted for 1 year from date of purchase (proof of purchase is required). The system will be repaired or replaced at our discretion.

WHAT IS NOT COVERED

- Freight to the factory, or service center.
- Products that have been tampered with, or in pieces.
- Damage resulting from misuse, carelessness such as chemical spills on the enclosure, abuse, lack of maintenance, or alteration which is out of our control.
- Damage by faulty wiring, power surges or acts of nature.
- Damage damage that occurs as a result of: meter misalignment, improper installation, over tightening, use of non- recommended chemicals, use of nonreccomended adhesives or pipe dopes, excessive heat or pressure, or allowing the meter to support the weight of related piping.

BLUE-WHITE does not assume responsibility for any loss, damage, or expense directly or indirectly related to or arising out of the use of its products. Failure must have occurred due to defect in material or workmanship and not as a result of operation of the product other than in normal operation as defined in the manual.

Warranty status is determined by the product's serial label and the sales invoice or receipt. The serial label must be on the product and legible. The warranty status will be verified by Blue-White or a factory authorized service center.

PROCEDURE FOR IN WARRANTY REPAIR

Warranty service must be performed by the factory or an authorized service center. Contact the factory or local repair center to obtain a RMA (Return Material Authorization) number. It is recommended to include foot strainer and injection/ check valve fitting since these devices may be clogged and part of the problem. Decontaminate, dry, and carefully pack the product to be repaired. Please enclose a brief description of the problem and proof of purchase. Prepay all shipping and insurance cost. COD shipments will not be accepted. Damage caused by improper packaging is the responsibility of the sender. When In-Warranty repair is completed, the factory pays for return shipping to the dealer or customer.

PRODUCT USE WARNING

Blue-White products are manufactured to meet the highest quality standards in the industry. Each product instruction manual includes a description of the associated product warranty and provides the user with important safety information. Purchasers, installers, and operators of Blue-White products should take the time to inform themselves about the safe operation of these products. In addition, Customers are expected to do their own due diligence regarding which products and materials are best suited for their intended applications. BLUE-WHITE is pleased to assist in this effort but does not guarantee the suitability of any particular product for any specific application as Blue-White does not have the same degree of familiarity with the application that the customer/end user has. While BLUE-WHITE will honor all of its product warranties according to their terms and conditions, Blue-White shall only be obligated to repair or replace its defective parts or products in accordance with the associated product warranties.

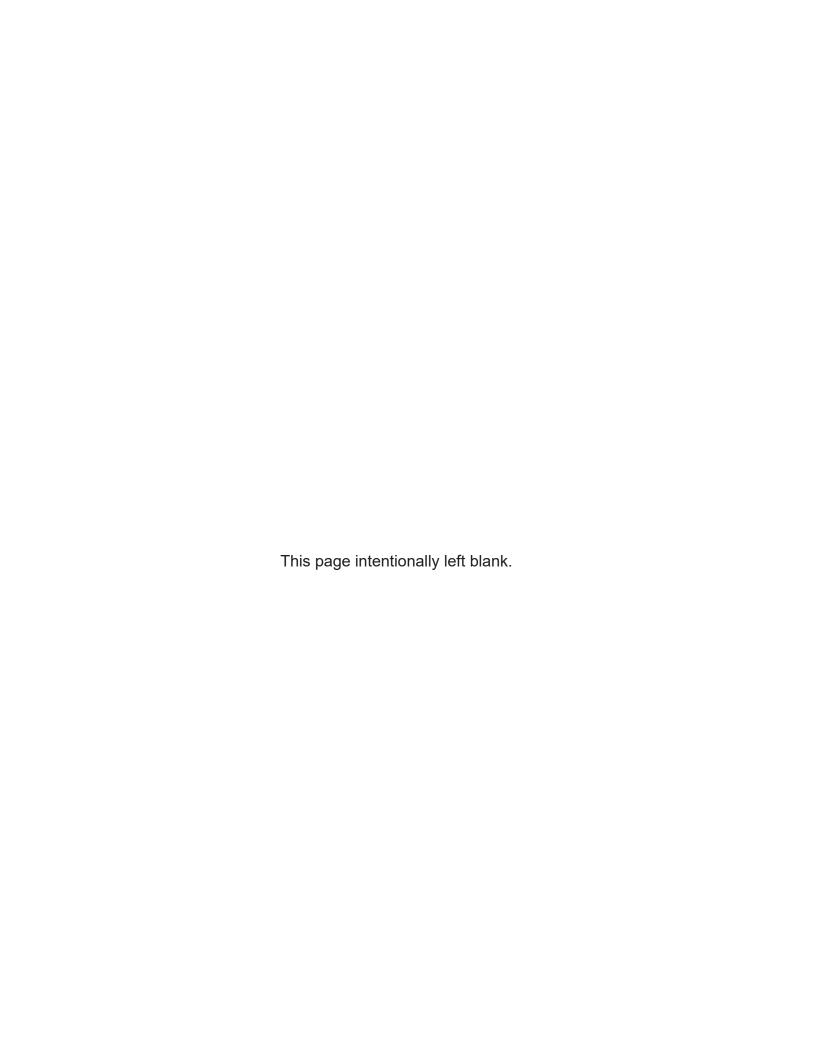
BLUE-WHITE SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE WHETHER DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF OR RELATED TO THE FAILURE OF ANY OF ITS PARTS OR PRODUCTS OR OF THEIR NONSUITABILITY FOR A GIVEN PURPOSE OR APPLICATION.

CHEMICAL RESISTANCE WARNING

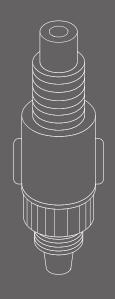
BLUE-WHITE offers a wide variety of wetted parts. Purchasers, installers, and operators of Blue-White products must be well informed and aware of the precautions to be taken when injecting or measuring various chemicals, especially those considered to be irritants, contaminants or hazardous. Customers are expected to do their own due diligence regarding which products and materials are best suited for their applications, particularly as it may relate to the potential effects of certain chemicals on Blue-White products and the potential for adverse chemical interactions. Blue-White tests its products with water only. The chemical resistance information included in this instruction manual was supplied to BLUE-WHITE by reputable sources, but Blue-White is not able to vouch for the accuracy or completeness thereof. While BLUE-WHITE will honor all of its product warranties according to their terms and conditions, Blue-White shall only be obligated to repair or replace its defective parts or products in accordance with the associated product warranties.

BLUE-WHITE SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, WHETHER DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF OR RELATED TO THE USE OF CHEMICALS IN CONNECTION WITH ANY BLUE-WHITE PRODUCTS.

Users of electrical and electronic equipment (EEE) with the WEEE marking per Annex IV of the WEEE Directive must not dispose of end of life EEE as unsorted municipal waste, but use the collection framework available to them for the return, recycle, recovery of WEEE and minimize any potential effects of EEE on the environment and human health due to the presence of hazardous substances. The WEEE marking applies only to countries within the European Union (EU) and Norway. Appliances are labeled in accordance with European Directive 2002/96/EC. Contact your local waste recovery agency for a Designated Collection Facility in your area.







MUNICIPAL Replacement Parts







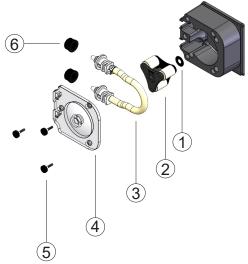
Blue-White®

M1 Replacement Parts

Pump Head Components		Part No.	QTY Req'd
1	Spacer, back	90011-014	1
2	Complete Roller Assembly*		1
	A1-1T / A1-2T / A1-3T / A1-7T	71000-350	
	A1-4T / A1-6T	71000-159	
	A1-8T	71000-255	
3	Tubing (Reference Tubing Matrix)		1
4	Pump Head Cover	90002-185	1
5	Thumb screw with 9/64" key drive	90011-160	3
6	Tube nut, compression, for 3/8" tubing**	C-330-6	2
N/S	Mounting Bracket	90002-685	1
N/S	Bumper Feet	90003-592	4
N/S	Cover, Top, Polycarbonate	90002-684	1

^{*}Rollers are specific to tube being used. See next page for complete tube part numbers.

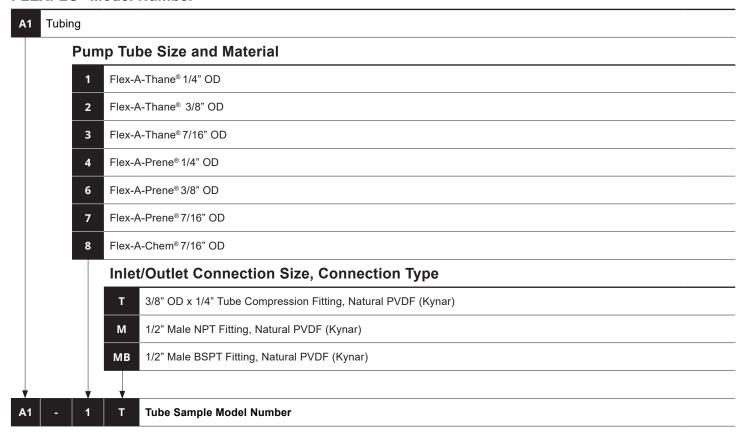
**Tube nuts are used on "T" style inlet/outlet compression fttings.



*Pump Head not for sale. For more information please contact a local sales representative.

Index Website Product Page M1 Specs

FLEXFLO® Model Number



Output Specifications

Tube		Feed Rate		Max Pressure	Max Temperature
Material / Size —	GPH	LPH	mL/Min	PSI (bar)	°F (°C)
Flex-A-Thane® Tube					
1	Up to 1.09	Up to 4.13	Up to 68.8	65 (4.50)	130 (54)
2	Up to 2.27	Up to 8.63	Up to 143.8	65 (4.50)	130 (54)
3	Up to 5.60	Up to 21.2	Up to 353.3	50 (3.45)	130 (54)
lex-A-Prene® Tube					
4	Up to .44	Up to 1.68	Up to 28.0	100 (6.89)	185 (85)
6	Up to 1.35	Up to 5.14	Up to 85.2	100 (6.89)	185 (85)
7	Up to 4.17	Up to 15.8	Up to 263.1	50 (3.45)	185 (85)
lex-A-Chem® Tube					
8	Up to 3.09	Up to 11.7	Up to 195.0	50 (3.45)	130 (54)

M2 Replacement Parts

Pun	p Head Components	Part No.	QTY Req'd
1	Spacer, Rear	90011-217	1
2	Complete Roller Assembly		1
	ND	A2-SND-R	
	NEE / NGG	A2-SNGG-R	
	TH	A2-STH-R	
	GE / GG / G2G /GH	A2-SGE-R	
3	Tubing (Reference Tubing Matrix)		1
4	Pump Head Cover (includes front spacer)	A2-SXX-C	1
5	Thumb Screws	90011-183	4
6	Tube Nut, Compression 3/8" Tubing*	C-330-6	2
7	Spacer, Front	90011-217	1

^{*}Tube nuts for 'S' type tubing only

Qui	ck Disconnect Fittings*	Part No.	QTY Req'd
8	Quick Disconnect		1
	.50" Barb FKM	KIT-QBV	
	.50" Barb EP	KIT-QBE	
	.50" Barb Aflas	KIT-QBA	
	.50" M/NPT FKM	KIT-QMV	
	.50" M/NPT EP	KIT-QME	
	.50" M/NPT Aflas	KIT-QMA	
	3/8" OD, 1/4" ID Tube Compression, FKM	KIT-QSV	
	3/8" OD, 1/4" ID Tube Compression, EP	KIT-QSE	
	3/8" OD, 1/4" ID Tube Compression, Aflas	KIT-QSA	

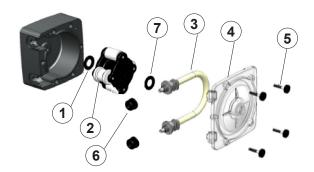
^{*}Only available for Q tubes

Miscellaneous Parts*		Part No.	QTY Req'd
Α	Stainless Steel Mounting Bracket	72000-379	1
В	Stainless Steel Mounting Bracket (Extended)	72000-380	1
С	Rubber Feet	90003-561	4
D	Tube Installation Tool	90002-278	1

^{*}Sold Separately







^{*}Pump Head not for sale. For more information please contact a local sales representative.









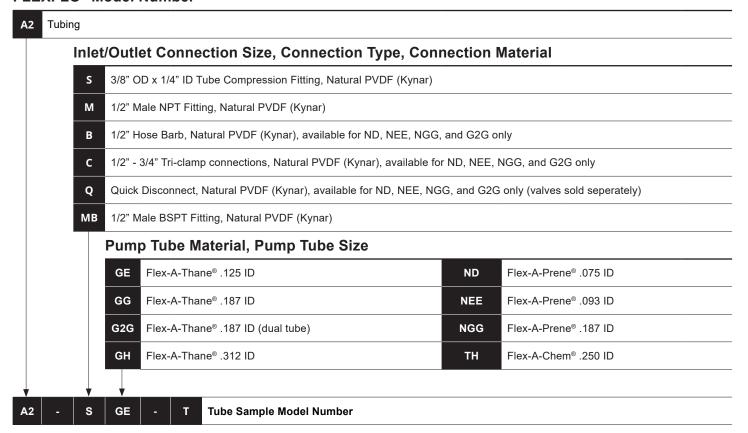






Index Website Product Page M2 Specs

FLEXFLO® Model Number



Output Specifications

Tube		Feed Rate		Max Pressure	Max Temperature
Material / Size -	GPH	LPH	mL/Min	PSI (bar)	°F (°C)
Flex-A-Thane® Tube					
GE	Up to 4.0	Up to 15.2	Up to 253	65 (4.50)	130 (54)
GG	Up to 9.3	Up to 35.2	Up to 587	65 (4.50)	130 (54)
G2G	Up to 14.98	Up to 56.7	Up to 945	65 (4.50)	130 (54)
GH	Up to 21.23	Up to 80.4	Up to 1340	65 (4.50)	130 (54)
lex-A-Prene® Tube					
ND	Up to 1.7	Up to 6.5	Up to 108	125 (8.60)	185 (85)
NEE	Up to 4.4	Up to 16.8	Up to 280	110 (7.60)	185 (85)
NGG	Up to 17.2	Up to 65	Up to 1085	110 (7.60)	185 (85)
lex-A-Chem® Tube					
TH	Up to 14.3	Up to 54	Up to 900	50 (3.45)	130 (54)

M3 Replacement Parts

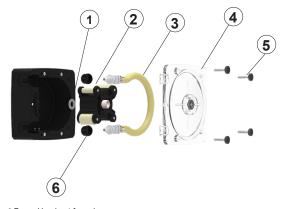
Pun	np Head Components	Part No.	QTY Req'd
1	Spacer, Rear	90011-184	1
2	Complete Roller Assembly		1
	NGG / NH / NJ / NK / NHL / NEE / TK	A3-SNGG-R	
	TH / NKL	A3-STH-R	
	ND / NF	A3-SND-R	
	GE / GG / GH / GK / G2G	A3-SGE-R	
3	Tubing (Reference Tubing Matrix)		1
4	Pump Head Cover	A3-SXX-C	1
5	Thumb Screws	90011-183	4
6	Tube Nut, Compression, For 3/8" Tubing	C-330-6	2

Roll	er Assembly Parts	Part No.	QTY Req'd
7	ROTOR BODY	90002-748*	1
8	SPIDER RING	90002-749*	1
9	10-32 CAPTIVE SCREW	90011-351*	2
	ROTOR ASSY (7, 8, 9, and 12)	A3-SXX-RB	1
10	ARM ROLLER GUIDE	71010-960	2
11	ARM ROLLER		
	NGG / NH / NJ / NK / NHL / NEE / TK	71010-956	2
	TH / NKL	71010-957	2
	ND / NF	71010-958	2
	GE / GG / GH / GK / G2G	71010-959	2
12	Spacer, Front	76010-177	1

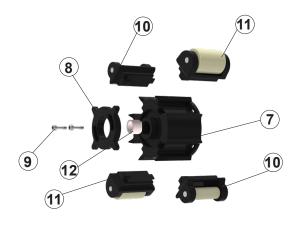
^{*}Only available as part of Rotor Assy A3-SXX-RB

1

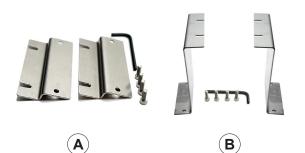
Mis	cellaneous Parts	Part No.	QTY Req'd
Α	SS Mounting Bracket (Standard)	72000-379	1
В	SS Mounting Bracket (Extended)	72000-380	1
С	Rubber Feet	90003-561	4



* Pump Head not for sale. For more information please contact a local sales representative.



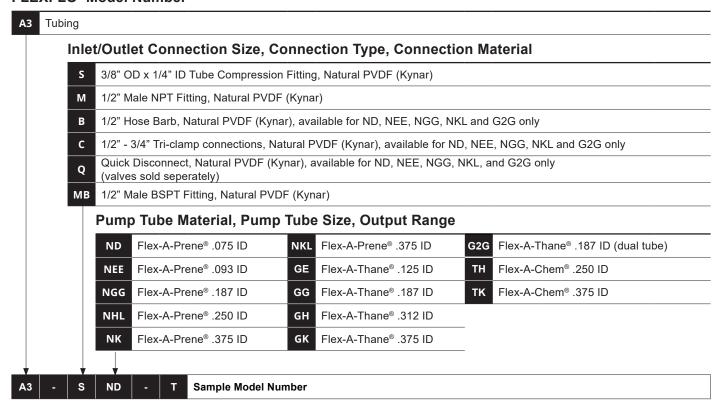






Index Website Product Page M3 Specs

FLEXFLO® Model Number



Output Specifications

Tube		Feed Rate		Max Speed	Max Pressure	Max Temperature
Material / Size -	GPH	LPH	mL/Min	RPM	PSI (bar)	°F (°C)
Flex-A-Thane® Tube						
GE	Up to 4.60	Up to 17.4	Up to 290	125	65 (4.5)	130 (54)
GG	Up to 10.1	Up to 38.4	Up to 637	125	65 (4.5)	130 (54)
G2G	Up to 18.23	Up to 69.0	Up to 1150	125	65 (4.5)	130 (54)
GH	Up to 24.9	Up to 94.2	Up to 1570	125	65 (4.5)	130 (54)
GK	Up to 28.5	Up to 108	Up to 1800	125	65 (4.5)	130 (54)
Flex-A-Prene® Tube						
ND	Up to 2.10	Up to 7.92	Up to 132	125	125 (8.6)	185 (85)
NHL	Up to 17.4	Up to 65.8	Up to 1097	125	65 (4.5)	185 (85)
NK	Up to 33.3	Up to 126	Up to 2100	125	125 (8.6)	185 (85)
NKL	Up to 33.3	Up to 126	Up to 2100	125	30 (2.1)	185 (85)
NEE	Up to 4.76	Up to 18.0	Up to 300	125	110 (7.6)	185 (85)
NGG	Up to 19.0	Up to 72.0	Up to 1200	125	110 (7.6)	185 (85)
Flex-A-Chem® Tube						
TH	Up to 15.1	Up to 57.0	Up to 950	125	50 (3.4)	130 (54)
TK	Up to 28.5	Up to 108	Up to 1800	125	50 (3.4)	130 (54)

M4 Replacement Parts

1	Spacer	90011-217	2
2	Complete Roller Assembly		1
	NL / NP	A4-MNL-R	
	TH / TK / TKK / THH	A4-MTH-R	
	NH / NK / NHH / NHL / NHHL	A4-MNH-R	
	NKL / NKKL	A4-MNKL-R	
	GH / GK / GKK	A4-MGH-R	
3	Tubing (Reference Tubing Matrix)		1
4	Pump Head Cover	A4-SXX-C	1
5	Thumb Screws	90011-183	8
6	Shaft Extension	90007-128	1

Rol	ler Assembly Parts	Part No.	QTY Req'd
7	A4 ROTOR BODY	76010-042*	1
8	SPIDER RING	76002-038*	1
9	10-32 CAPTIVE SCREW	90011-341*	2
	A4 ROTOR ASSY (7,8, and 9)	A4-SXX-RB	1
10	ARM ROLLER GUIDE	71010-771	2
11	ARM ROLLER		
	NL / NP	71010-766	2
	TH / TK / TKL / THH	71010-767	2
	NH / NK / NHH / NHL / NHHL	71010-768	2
	NKL / NKKL	71010-769	2
	GH / GHH / GK /GKK	71010-770	2

^{*}Only available as part of Rotor Assy A4-SXX-RB

Qui	ck Disconnect Fittings*	Part No.	QTY Req'd
12	Quick Disconnect Fittings		1
	.50" M/NPT FKM	KIT-QMV	
	.50" M/NPT EP	KIT-QME	
	.50" M/NPT Aflas	KIT-QMA	
	.50" Barb FKM	KIT-QBV	
	.50" Barb EP	KIT-QBE	
	.50" Barb Aflas	KIT-QBA	

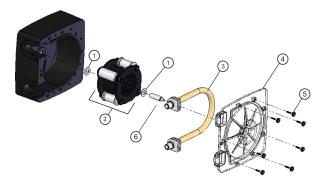
^{*}For use only with "Q" style pump tubes

Mis	cellaneous Parts*	Part No.	QTY Req'd
Α	Stainless Steel Mounting Bracket	72000-379	1
В	Stainless Steel Mounting Bracket (Extended)	72000-380	1
С	Rubber Feet	90003-561	1

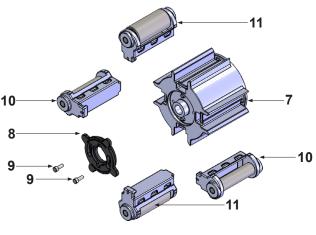
^{*}Sold Separately







*Pump Head not for sale. For more information please contact a local sales representative.







<u>Index</u> <u>Website</u> <u>Product Page</u> <u>M4 Specs</u>

FLEXFLO® Model Number

<u>Ir</u>	nlet	/Outle	t Conr	nection Size, Connection	n Type, Cor	nnection Material
	М	1/2" Ma	le NPT	Fitting, Natural PVDF (Kynar)		
	В	1/2" ID	Tubing E	Barb Fitting, Natural PVDF (Kyna	r)	
	Q			ect, Natural PVDF (Kynar). NP flo parately)	w rate reduced	16.5% with Quick Disconnect connections
	С	1/2" - 3	/4" Tri-cl	amp connections, Natural PVDF	(Kynar)	
	МВ	1/2" Ma	ıle BSP1	Fitting, Natural PVDF (Kynar)		
		Pump	Tube	Material, Pump Tube Siz	ze	
		GH	Flex-A-T	hane® .312 ID	NHHL	Flex-A-Prene® .250 ID (Dual Tube)
		GHH	Flex-A-T	hane® .312 ID (Dual Tube)	NNKK	Flex-A-Prene® .375 ID
		GK	Flex-A-T	hane® .375 ID	NL	Flex-A-Prene® .500 ID
		GKK	Flex-A-T	hane [®] .375 ID (Dual Tube)	NP	Flex-A-Prene® .750 ID
		NH	Flex-A-P	rene® .250 ID	TH	Flex-A-Chem [®] .250 ID
		NHL	Flex-A-P	rene® .250 ID	TK	Flex-A-Chem® .375 ID
		NHH	Flex-A-P	rene® .250 ID (Dual Tube)	TKK	Flex-A-Chem [®] .375 ID (Dual Tube)

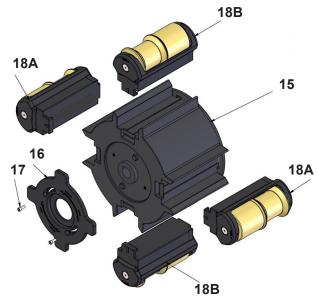
Output Specifications

Tube	Feed Rate			Max Speed	Max Pressure	Max Temperature
Material / Size -	GPH	LPH	mL/Min	RPM	PSI (bar)	°F (°C)
Flex-A-Thane® Tube						
GH	Up to 39.6	Up to 150	Up to 2500	125	65 (4.5)	130 (54)
GHH	Up to 71.0	Up to 268	Up to 4479	125	65 (4.5)	130 (54)
GK	Up to 55.5	Up to 210	Up to 3500	125	65 (4.5)	130 (54)
GKK	Up to 100	Up to 378	Up to 6300	125	65 (4.5)	130 (54)
Flex-A-Prene® Tube						
NH	Up to 28.5	Up to 108	Up to 1800	125	125 (8.6)	185 (85)
NHL	Up to 28.5	Up to 108	Up to 1800	125	65 (4.5)	185 (85)
NHH	Up to 54.0	Up to 204	Up to 3400	125	100 (6.9)	185 (85)
NHHL	Up to 54.0	Up to 204	Up to 3400	125	65 (4.5)	185 (85)
NK	Up to 50.7	Up to 192	Up to 3200	125	80 (5.5)	185 (85)
NL	Up to 100	Up to 378	Up to 6300	125	50 (3.4)	185 (85)
NP	Up to 158.5	Up to 600	Up to 10000	125	30 (2.1)	185 (85)
Flex-A-Chem® Tube						
TH	Up to 25.4	Up to 96	Up to 1603	125	30 (2.1)	130 (54)
TK	Up to 54.0	Up to 204	Up to 3400	125	30 (2.1)	130 (54)
TKK	Up to 126	Up to 477	Up to 8000	125	30 (2.1)	130 (54)

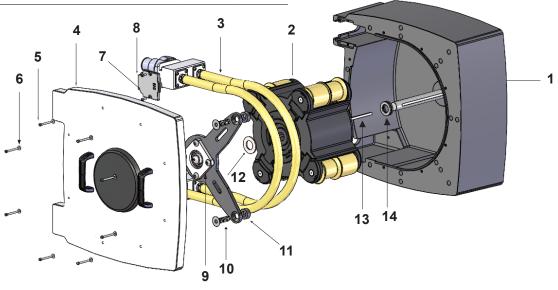
M5 Replacement Parts

Pun	np Head Components	Part No.	QTY Req'd	Price Per
1	Pump Head	Contact Factory	1	N/A
2	Complete Roller Assembly		1	
	NPP	A5-MNPP-R		
	NLL	A5-MNLL-R		
	NHHL	A5-MNHHL-R		
	GKK	A5-MGKK-R		
3	Tubing (Reference Tubing Matrix)		1	
4	Pump Head Cover	A5-SXX-C	1	
5	Screw, Cover	90011-149	8	
6	Washer, Cover	90011-094	8	
7	Tube Adapter Cover	76002-102	2	
8	Screw	90011-150	2	
9	"V" Bracket Bearing Assy	71010-947	1	
10	Screw, "V" Bracket	90011-303	2	
11	Spacer, "V" Bracket	90007-686	2	
12	Washer	90011-320	1	
13	Key Motor	76010-101	1	
14	Washer	90004-027	1	

	Tracino	00001021	<u> </u>
Rol	ler Assembly Parts	Part No.	QTY Req'd Price Per
15	A5 ROTOR BODY	76010-061	1
16	SPIDER RING	76002-077	1
17	SPIDER SCREW	90011-341	2
18	ARM ROLLER		
	NPP Side A	71010-853	2
	NPP Side B	71010-854	2
	NLL Side A	71010-859	2
	NLL Side B	71010-860	2
	NHHL Side A	71010-855	2
	NHHL Side B	71010-856	2
	GKK Side A	71010-857	2
	GKK Side B	71010-858	2



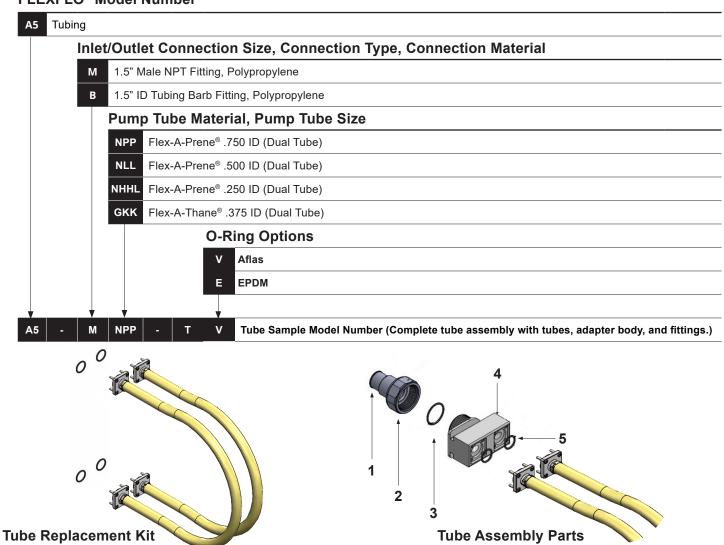
Roller Body Assembly



Pump Head Detail

Index Website Product Page M5 Specs

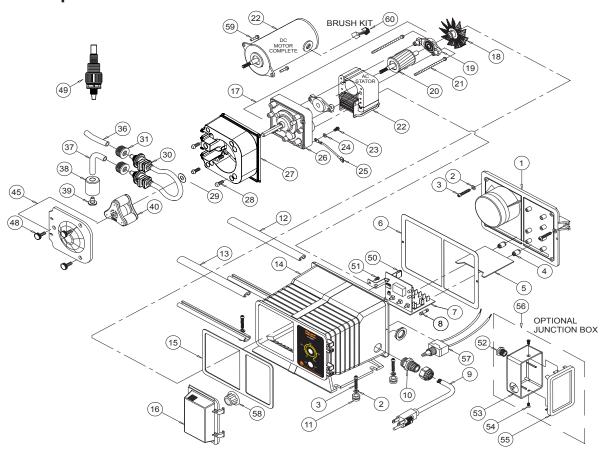
FLEXFLO® Model Number



Tube Replacement Kits (includes 2 assembled tubes with clamps and barbs, O-rings, and screws.)

A5-XNPP-TV	NPP Tubes, Aflas O-Rings
A5-XNPP-TE	NPP Tubes, EP O-Rings
A5-XNLL-TV	NLL Tubes, Aflas O-Rings
A5-XNLL-TE	NLL Tubes, EP O-Rings
A5-XNHHL-TV	NHHL Tubes, Aflas O-Rings
A5-XNHHL-TE	NHHL Tubes, EP O-Rings
A5-XGKK-TV	GKK Tubes, Aflas O-Rings
A5-XGKK-TE	GKK Tubes, EP O-Rings
Tube Assembly	Parts
1 76010-064	1.5" M/NPT Fitting (2 req.)
76010-065	1.5" Barb Fitting (2 req.)
2 76010-066	5 Series Union Nut (2 req.)
3 90003-640	O-Ring, Aflas (2 req.)
90003-641	O-Ring, EP (2 req.)
4 76010-067	Adapter Body (2 req.)
5 90003-642	O-Ring, Aflas (4 req.)
90003-645	O-Ring, EP (4 req.)

A-100N Replacement Parts



Item	Part No.	Product Name	Qty. Req.
1	71000-214	Enclosure Back With Gasket,	1
2	90011-094	Washer, #10 Stainless	2
3	90011-091	Screw, #10 X 1.0" Phillips Steel	4
6	90006-580	Gasket, Back Plate, Neoprene	1
7	A-023N-B	Percent timer (60 Sec), A-100NA	1
	A-023N-H	Percent timer (5 Sec), A-100NC	1
	C-1817N-1	Speed Cntrl, A-100NF, 115V60	1
	C-1817N-4	Speed Cntrl, A-100NF, 220V50	1
	C-1817N-5	Speed Cntrl, A-100NF, 230V60	1
N/S	90010-036	Wire Nut, Blue	4
N/S	90010-037	Wire Nut, Orange	1
N/S	76001-030	Lead Wire, Blu/white, 115v	1
N/S	76001-031	Lead Wire, Red/white, 230v	1
N/S	76001-032	Lead Wire, Brn/white, 220v	1
N/S	76001-033	Lead Wire, Yellow, 220v	1
N/S	76001-034	Lead Wire, Black, 115v	1

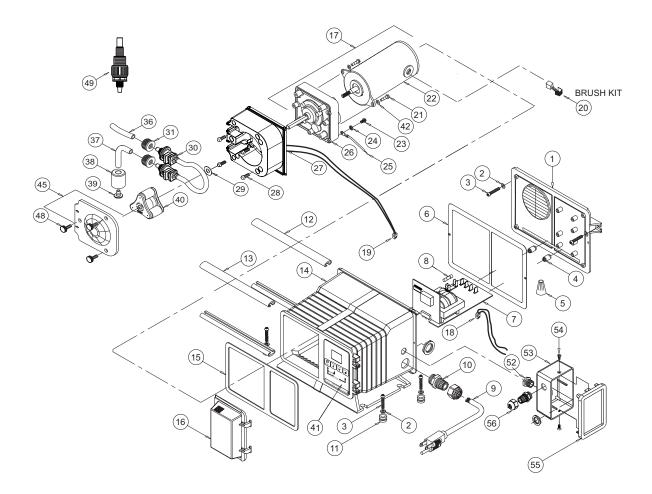
Item	Part No.	Product Name	Qty. Req.
9	90010-110	Power Cord, 115v60hz,	1
	90010-196	Power Cord, 220v50hz,	1
	90010-133	Power Cord, 230v60hz,	1
10	A-033N	Cord Inlet Bushing	1
11	90003-559	Mounting Feet, Rubber	4
12	76001-000	Slide Clamp, Enclosure Rear	1
13	76000-999	Slide Clamp, Enclosure Front	1
14	71000-187	Enclosure Model C,F w/cord	1
	71000-188	Enclosure Model X w/cord	1
	71000-494	Enclosure Model V w/J-Box	1
15	90006-579	Gasket, Enclosure Front, Neoprene	1
16	90002-191	Door, Electronic Controls Cover	1
17	70002-146	Gearmotor, 14 Rpm, 115v60hz	1
	70002-147	Gearmotor, 30 Rpm, 115v60hz	1

A-100N Replacement Parts

Item	Part No.	Product Name	Qty. Req.
	70002-156	Gearmotor, 45 Rpm, 115v60hz	1
	70002-159	Gearmotor, 60 Rpm, 115v60hz	1
	70002-148	Gearmotor, 14 Rpm, 220v50hz	1
	70002-149	Gearmotor, 30 Rpm, 220v50hz	1
	70002-157	Gearmotor, 45 Rpm, 220v50hz	1
	70002-160	Gearmotor, 60 Rpm, 220v50hz	1
	70002-150	Gearmotor, 14 Rpm, 230v60hz	1
	70002-151	Gearmotor, 30 Rpm, 230v60hz	1
	70002-158	Gearmotor, 45 Rpm, 230v60hz	1
	70002-161	Gearmotor, 60 Rpm, 230v60hz	1
	70002-241	G/motor, V/S 14Rpm, 90VDC	1
	70002-242	G/motor, V/S 30Rpm, 90VDC	1
	70002-243	G/motor, V/S 45Rpm, 90VDC	1
	70002-244	G/motor, V/S 60Rpm, 90VDC	1
18	90006-581	Fan, Motor, 2.25" Diameter	1
19	C-612PB	Bearing Bracket With Bearing	2
20	C-616PN	Rotor 14, 30RPM With Spacers	1
	C-616PN-32	Rotor 45, 60RPM With Spacers	1
21	C-625	Screw, Motor, 14, 30RPM Phil	2
	C-621-32	Screw, Motor, 45, 60RPM Phil	2
22	71000-211	Stator 14/30RPM, 115v Blu/Yel	1
	71000-213	Stator 14/30RPM, 220v Brnt/yel	1
	71000-212	Stator 14/30RPM, 230v Red/Yel	1
	71000-466	Stator 45/60RPM, 115v Blut/Yel	1
	71000-467	Stator 45/60RPM, 220v Brn/yel	1
	71000-468	Stator 45/60RPM, 230v Red/Yel	1
	90010-242	Motor, 90V DC, model "F"	1
24	90011-078	Washer, Ground Screw, #8 Star	1
25	90010-126	Wire, ground, Green	1
26	A-008-1	Gearbox, 14 Rpm	1
	A-008-2	Gearbox, 30 Rpm	1
	A-008-3	Gearbox, 45 Rpm	1
	A-008-4	Gearbox, 60 Rpm	1
27	76001-009	Pumphead, no TFD sensors	1
	71000-488	Pumphead, w/TFD sensors	1

28 C-324N Screw P/head, 10-32 X .50 4 29 A-031 Spacer, Rotor 1 30 A1-4T Tube, A-100N S/A -4T Norpene 1 A1-6T Tube, A-100N S/A -4T Norpene 1 A1-6T Tube, A-100N S/A -7T Norprene 1 A1-8T Tube, A-100N S/A -8T Norp-Chem 1 A1-1T Tube, A-100N S/A -1T Tygothane 1 A1-2T Tube, A-100N S/A -2T Tygothane 1 A1-3T Tube, A-100N S/A -3T Tygothane 1 A1-3T Tube, A-100N S/A -3T Tygothane 1 31 C-330-6 Nut, Tube, .37 O.D. Tubing 1 36 C-335-6 Tubing, Outlet, .37 O.D.X5ft, Poly 1 37 C-334-6 Weight, Inlet Tubing, Ceramic 1 39 C-342-6 Strainer, Inlet Tube, Polypro 1 40 71000-159 Roller, -4, -6 tubes (white rollers) 1 71000-350 Roller, -4, -6 tubes (white rollers) 1 48 90011-160 Screw, P/head With Bearing 1 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 90006-681 Motor Clip, 14, 30RPM 1 90006-601 Motor Clip, 14, 30RPM 1 51 90011-146 Screw, Motor Clip, 8-32 X .25 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 N/S A-030 Push button prime switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2 60 C-1814N-2 Motor brush set, 90VDC motor 1	Item	Part No.	Product Name	Qty. Req.
29 A-031 Spacer, Rotor 1 30 A1-4T Tube, A-100N S/A-4T Norpene 1 A1-6T Tube, A-100N S/A-6T Norprene 1 A1-7T Tube, A-100N S/A-8T Norp-chem 1 A1-8T Tube, A-100N S/A-8T Norp-chem 1 A1-1T Tube, A-100N S/A-2T Tygothane 1 A1-2T Tube, A-100N S/A-3T Tygothane 1 31 C-330-6 Nut, Tube, .37 O.D. Tubing 1 36 C-335-6 Tubing, Outlet, .37 O.D.X5ft, Poly 1 37 C-346 Weight, Inlet Tubing, Ceramic 1 40 71000-159 Roller, -4, -6 tubes (white rollers) 1 71000-255 Roller, -4, -6 tubes (white rollers) 1 71000-350 Roller, -5 Viton tube 1 71000-350 Roller, -1, -2, -3, -7 tubes (black rollers) 1 45 A1-SXX-C Cover, P/head With Bearing 1 48 90011-160 Screw, P/head Cover, 8-32 X .62 3 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1	28		P/head, 10-32 X .50	
A1-6T Tube, A-100N S/A -6T Norprene 1 A1-7T Tube, A-100N S/A -7T Norprene 1 A1-8T Tube, A-100N S/A -8T Norp-Chem A1-1T Tube, A-100N S/A -1T Tygothane 1 A1-2T Tube, A-100N S/A -2T Tygothane 1 A1-2T Tube, A-100N S/A -2T Tygothane 1 A1-3T Tube, A-100N S/A -3T Tygothane 1 C-330-6 Nut, Tube, .37 O.D. Tubing 1 C-334-6 Tubing, Outlet, .37 O.D.X5ft, Poly 1 C-334-6 Tubing, Inlet, .37 O.D.X5ft, Pvc 1 Weight, Inlet Tubing, Ceramic 1 C-346 Weight, Inlet Tube, Polypro 1 Roller, -4, -6 tubes (white rollers) 1 T1000-255 Roller, -5 Viton tube 1 Roller, -1, -2, -3, -7 tubes (black rollers) 1 A1-SXX-C Cover, P/head With Bearing 1 A1-SXX-C Cover, P/head Cover, 8-32 X .62 3 A2 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 D006-601 Motor Clip, 14, 30RPM 1 D006-601 Motor Clip, 45, 60RPM 1 D007-515 Bushing, J-Box Connector, Alum. 1 D1 Screw, G-32 X .25 S Black 2 D1 Screw, G-32 X .25 S Black 1 D1 Screw, G-32 X .25 S Dia Blk 1 D1 Screw, Dava Screw, G-32 X .25 S Dia Blk 1 D1 Screw, Motor, R-32 X .50 Phill 2	29		Spacer, Rotor	1
A1-7T Tube, A-100N S/A -7T Norprene 1 A1-8T Tube, A-100N S/A -8T Norp-Chem 1 A1-1T Tube, A-100N S/A -1T Tygothane 1 A1-2T Tube, A-100N S/A -2T Tygothane 1 A1-3T Tube, A-100N S/A -3T Tygothane 1 31 C-330-6 Nut, Tube, .37 O.D. Tubing 1 36 C-335-6 Tubing, Outlet, .37 O.D.X5ft, Poly 1 37 C-34-6 Tubing, Inlet, .37 O.D.X5ft, Pvc 1 38 C-34-6 Weight, Inlet Tubing, Ceramic 1 40 71000-159 Roller, -4, -6 tubes (white rollers) 1 71000-255 Roller, -5 Viton tube 1 71000-350 Roller, -5 Viton tube 1 71000-350 Roller, -1, -2, -3, -7 tubes (black rollers) 1 45 A1-SXX-C Cover, P/head With Bearing 1 48 90011-160 Screw, P/head Cover, 8-32 X .62 3 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 90006-583 Motor Clip, 14, 30RPM <th< td=""><td>30</td><td>A1-4T</td><td>Tube, A-100N S/A -4T Norpene</td><td>1</td></th<>	30	A1-4T	Tube, A-100N S/A -4T Norpene	1
A1-8T Tube, A-100N S/A -8T Norp-Chem 1 A1-1T Tube, A-100N S/A -1T Tygothane 1 A1-2T Tube, A-100N S/A -2T Tygothane 1 A1-3T Tube, A-100N S/A -3T Tygothane 1 31 C-330-6 Nut, Tube, .37 O.D. Tubing 1 36 C-335-6 Tubing, Outlet, .37 O.D.X5ft, Poly 1 37 C-334-6 Tubing, Inlet, .37 O.D.X5ft, Pvc 1 38 C-346 Weight, Inlet Tubing, Ceramic 1 40 71000-159 Roller, -4, -6 tubes (white rollers) 1 71000-255 Roller, -5 Viton tube 1 71000-350 Roller, -5 Viton tube 1 71000-350 Roller, -1, -2, -3, -7 tubes (black rollers) 1 45 A1-SXX-C Cover, P/head With Bearing 1 48 90011-160 Screw, P/head Cover, 8-32 X .62 3 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 9006-583 Motor Clip, 45, 60RPM 1 51 90011-146 Screw, Motor Clip, 8-32		A1-6T	Tube, A-100N S/A -6T Norprene	1
A1-81 Norp-Chem A1-1T Tube, A-100N S/A -1T Tygothane 1 A1-2T Tube, A-100N S/A -2T Tygothane 1 A1-3T Tube, A-100N S/A -3T Tygothane 1 31 C-330-6 Nut, Tube, .37 O.D. Tubing 1 36 C-335-6 Tubing, Outlet, .37 O.D.X5ft, Poly 1 37 C-334-6 Tubing, Inlet, .37 O.D.X5ft, Pvc 1 38 C-346 Weight, Inlet Tubing, Ceramic 1 39 C-342-6 Strainer, Inlet Tube, Polypro 1 71000-159 Roller, -4, -6 tubes (white rollers) 1 71000-255 Roller, -5 Viton tube 1 71000-350 Roller, -1, -2, -3, -7 tubes (black rollers) 1 45 A1-SXX-C Cover, P/head With Bearing 1 48 90011-160 Screw, P/head Cover, 8-32 X .62 3 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 90006-583 Motor Clip, 14, 30RPM 1 90006-601 Motor Clip, 45, 60RPM 1 90007-515 Bushing, J-Box Connector, Alum. 1 51 90011-129 Screw, 6-32 X .25 S Black 2 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 N/S A-030 Push button prime switch 1 N/S A-030 Rush button prime switch 1 N/S A-030 Rush button prime switch 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2		A1-7T	Tube, A-100N S/A -7T Norprene	1
A1-1T Tube, A-100N S/A -1T Tygothane 1 A1-2T Tube, A-100N S/A -2T Tygothane 1 A1-3T Tube, A-100N S/A -3T Tygothane 1 31 C-330-6 Nut, Tube, .37 O.D. Tubing 1 36 C-335-6 Tubing, Outlet, .37 O.D.X5ft, Pvc 1 37 C-34-6 Tubing, Inlet, .37 O.D.X5ft, Pvc 1 38 C-34-6 Weight, Inlet Tubing, Ceramic 1 40 71000-159 Roller, -1, -2, -3, -7 tubes (white rollers) 1 71000-255 Roller, -5 Viton tube 1 71000-350 Roller, -1, -2, -3, -7 tubes (black rollers) 1 45 A1-SXX-C Cover, P/head With Bearing 1 48 90011-160 Screw, P/head Cover, 8-32 X .62 3 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 90006-583 Motor Clip, 45, 60RPM 1 51 90011-146 Screw, Motor Clip, 8-32 X .25 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53		A1-8T	•	1
A1-3T Tube, A-100N S/A -3T Tygothane 1 31 C-330-6 Nut, Tube, .37 O.D. Tubing 1 36 C-335-6 Tubing, Outlet, .37 O.D.X5ft, Poly 1 37 C-334-6 Tubing, Inlet, .37 O.D.X5ft, Pvc 1 38 C-346 Weight, Inlet Tubing, Ceramic 1 39 C-342-6 Strainer, Inlet Tube, Polypro 1 40 71000-159 Roller, -4, -6 tubes (white rollers) 1 71000-255 Roller, -5 Viton tube 1 71000-350 Roller, -1, -2, -3, -7 tubes (black rollers) 1 45 A1-SXX-C Cover, P/head With Bearing 1 48 90011-160 Screw, P/head Cover, 8-32 X .62 3 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 90006-583 Motor Clip, 14, 30RPM 1 90006-601 Motor Clip, 45, 60RPM 1 90001-146 Screw, Motor Clip, 8-32 X .25 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1		A1-1T	Tube, A-100N S/A -1T Tygothane	1
31 C-330-6 Nut, Tube, .37 O.D. Tubing 1 36 C-335-6 Tubing, Outlet, .37 O.D.X5ft, Poly 1 37 C-334-6 Tubing, Inlet, .37 O.D.X5ft, Pvc 1 38 C-346 Weight, Inlet Tubing, Ceramic 1 39 C-342-6 Strainer, Inlet Tube, Polypro 1 40 71000-159 Roller, -4, -6 tubes (white rollers) 1 71000-255 Roller, -5 Viton tube 1 71000-350 Roller, -5 Viton tube 1 45 A1-SXX-C Cover, P/head With Bearing 1 48 90011-160 Screw, P/head Cover, 8-32 X .62 3 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 90006-583 Motor Clip, 14, 30RPM 1 9001-601 Motor Clip, 45, 60RPM 1 51 90011-146 Screw, Motor Clip, 8-32 X .25 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54		A1-2T	Tube, A-100N S/A -2T Tygothane	1
36 C-335-6 Tubing, Outlet, .37 O.D.X5ft, Poly 1 37 C-334-6 Tubing, Inlet, .37 O.D.X5ft, Pvc 1 38 C-346 Weight, Inlet Tubing, Ceramic 1 39 C-342-6 Strainer, Inlet Tube, Polypro 1 40 71000-159 Roller, -4, -6 tubes (white rollers) 1 41 71000-255 Roller, -5 Viton tube 1 42 71000-350 Roller, -1, -2, -3, -7 tubes (black rollers) 1 43 90011-160 Screw, P/head With Bearing 1 44 90011-160 Screw, P/head Cover, 8-32 X .62 3 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 90006-583 Motor Clip, 14, 30RPM 1 90006-601 Motor Clip, 45, 60RPM 1 51 90011-146 Screw, Motor Clip, 8-32 X .25 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 56 70000-656 J-Box Assembly, Complete 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1		A1-3T	Tube, A-100N S/A -3T Tygothane	1
37 C-334-6 Tubing, Inlet, .37 O.D.X5ft, Pvc 1 38 C-346 Weight, Inlet Tubing, Ceramic 1 39 C-342-6 Strainer, Inlet Tube, Polypro 1 40 71000-159 Roller, -4, -6 tubes (white rollers) 1 71000-255 Roller, -5 Viton tube 1 71000-350 Roller, -1, -2, -3, -7 tubes (black rollers) 1 45 A1-SXX-C Cover, P/head With Bearing 1 48 90011-160 Screw, P/head Cover, 8-32 X .62 3 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 90006-583 Motor Clip, 14, 30RPM 1 90001-146 Screw, Motor Clip, 8-32 X .25 1 51 90007-515 Bushing, J-Box Connector, Alum. 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 56 70000-656 J-Box Assembly, Complete 1 57 A-022 Power Switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	31	C-330-6	Nut, Tube, .37 O.D. Tubing	1
38 C-346 Weight, Inlet Tubing, Ceramic 1 39 C-342-6 Strainer, Inlet Tube, Polypro 1 40 71000-159 Roller, -4, -6 tubes (white rollers) 1 71000-255 Roller, -5 Viton tube 1 71000-350 Roller, -1, -2, -3, -7 tubes (black rollers) 1 45 A1-SXX-C Cover, P/head With Bearing 1 48 90011-160 Screw, P/head Cover, 8-32 X .62 3 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 90006-583 Motor Clip, 14, 30RPM 1 90006-601 Motor Clip, 45, 60RPM 1 51 90011-146 Screw, Motor Clip, 8-32 X .25 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 N/S A-030 Push button prime switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	36	C-335-6	Tubing, Outlet, .37 O.D.X5ft, Poly	1
39 C-342-6 Strainer, Inlet Tube, Polypro 1 40 71000-159 Roller, -4, -6 tubes (white rollers) 1 71000-255 Roller, -5 Viton tube 1 71000-350 Roller, -1, -2, -3, -7 tubes (black rollers) 1 45 A1-SXX-C Cover, P/head With Bearing 1 48 90011-160 Screw, P/head Cover, 8-32 X .62 3 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 90006-583 Motor Clip, 14, 30RPM 1 90006-601 Motor Clip, 45, 60RPM 1 51 90011-146 Screw, Motor Clip, 8-32 X .25 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 56 70000-656 J-Box Assembly, Complete 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	37	C-334-6	Tubing, Inlet, .37 O.D.X5ft, Pvc	1
40 71000-159 Roller, -4, -6 tubes (white rollers) 1 71000-255 Roller, -5 Viton tube 1 71000-350 Roller, -1, -2, -3, -7 tubes (black rollers) 1 45 A1-SXX-C Cover, P/head With Bearing 1 48 90011-160 Screw, P/head Cover, 8-32 X .62 3 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 90006-583 Motor Clip, 14, 30RPM 1 90006-601 Motor Clip, 45, 60RPM 1 51 90011-146 Screw, Motor Clip, 8-32 X .25 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 56 70000-656 J-Box Assembly, Complete 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-032 Power Switch 1 N/S A-030 Push button prime switch 1 N/S	38	C-346	Weight, Inlet Tubing, Ceramic	1
71000-255 Roller, -5 Viton tube 1 71000-350 Roller, -1, -2, -3, -7 tubes (black rollers) 1 45 A1-SXX-C Cover, P/head With Bearing 1 48 90011-160 Screw, P/head Cover, 8-32 X .62 3 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 90006-583 Motor Clip, 14, 30RPM 1 90006-601 Motor Clip, 45, 60RPM 1 51 90011-146 Screw, Motor Clip, 8-32 X .25 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 56 70000-656 J-Box Assembly, Complete 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023	39	C-342-6	Strainer, Inlet Tube, Polypro	1
71000-350 Roller, -1, -2, -3, -7 tubes (black rollers) 1 45 A1-SXX-C Cover, P/head With Bearing 1 48 90011-160 Screw, P/head Cover, 8-32 X .62 3 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 90006-583 Motor Clip, 14, 30RPM 1 90006-601 Motor Clip, 45, 60RPM 1 51 90011-146 Screw, Motor Clip, 8-32 X .25 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 56 70000-656 J-Box Assembly, Complete 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	40	71000-159	Roller, -4, -6 tubes (white rollers)	1
A1-SXX-C Cover, P/head With Bearing 1 48 90011-160 Screw, P/head Cover, 8-32 X .62 3 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 90006-583 Motor Clip, 14, 30RPM 1 90006-601 Motor Clip, 45, 60RPM 1 51 90011-146 Screw, Motor Clip, 8-32 X .25 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 56 70000-656 J-Box Assembly, Complete 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2		71000-255	Roller, -5 Viton tube	1
48 90011-160 Screw, P/head Cover, 8-32 X .62 3 49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 90006-583 Motor Clip, 14, 30RPM 1 90006-601 Motor Clip, 45, 60RPM 1 51 90011-146 Screw, Motor Clip, 8-32 X .25 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 56 70000-656 J-Box Assembly, Complete 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2		71000-350		1
49 A-014N-6A Inj Valve, .525 Mpt X .37 O.D. 1 50 90006-583 Motor Clip, 14, 30RPM 1 90006-601 Motor Clip, 45, 60RPM 1 51 90011-146 Screw, Motor Clip, 8-32 X .25 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 56 70000-656 J-Box Assembly, Complete 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	45	A1-SXX-C	Cover, P/head With Bearing	1
50 90006-583 Motor Clip, 14, 30RPM 1 90006-601 Motor Clip, 45, 60RPM 1 51 90011-146 Screw, Motor Clip, 8-32 X .25 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 56 70000-656 J-Box Assembly, Complete 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	48	90011-160	Screw, P/head Cover, 8-32 X .62	3
90006-601 Motor Clip, 45, 60RPM 1 51 90011-146 Screw, Motor Clip, 8-32 X .25 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 56 70000-656 J-Box Assembly, Complete 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	49	A-014N-6A	Inj Valve, .525 Mpt X .37 O.D.	1
51 90011-146 Screw, Motor Clip, 8-32 X .25 1 52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 56 70000-656 J-Box Assembly, Complete 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	50	90006-583	Motor Clip, 14, 30RPM	1
52 90007-515 Bushing, J-Box Connector, Alum. 1 53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 56 70000-656 J-Box Assembly, Complete 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2		90006-601	Motor Clip, 45, 60RPM	1
53 76001-029 Junction Box, Valox 1 54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 56 70000-656 J-Box Assembly, Complete 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	51	90011-146	Screw, Motor Clip, 8-32 X .25	1
54 90011-129 Screw, 6-32 X .25 S Black 2 55 71000-133 Cover, J-Box w/Gasket & Label 1 56 70000-656 J-Box Assembly, Complete 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	52	90007-515	Bushing, J-Box Connector, Alum.	1
55 71000-133 Cover, J-Box w/Gasket & Label 1 56 70000-656 J-Box Assembly, Complete 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	53	76001-029	Junction Box, Valox	1
56 70000-656 J-Box Assembly, Complete 1 N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	54	90011-129	Screw, 6-32 X .25 S Black	2
N/S 90008-151 J-box Hole Plug .75 Dia Blk 1 57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	55	71000-133	Cover, J-Box w/Gasket & Label	1
57 A-022 Power Switch 1 N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	56	70000-656	J-Box Assembly, Complete	1
N/S A-030 Push button prime switch 1 58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	N/S	90008-151	J-box Hole Plug .75 Dia Blk	1
58 A-032N Knob, adjustment 1 59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	57	A-022	Power Switch	1
59 90011-023 Screw, Motor, 8-32 x .50 Phill 2	N/S	A-030	Push button prime switch	1
	58	A-032N	Knob, adjustment	1
60 C-1814N-2 Motor brush set, 90VDC motor 1	59	90011-023	Screw, Motor, 8-32 x .50 Phill	2
	60	C-1814N-2	Motor brush set, 90VDC motor	1

A-100NV Replacement Parts



			Qty.
Item	Part No.	Product Name	Req.
1	71000-489	Enclosure Back Plate With Gasket, Valox	1
2	90011-094	Washer, Mounting, #10 Stainless	2
3	90011-091	Mounting Screw, #10 X 1.0" Phillips Steel	4
4	76001-001	Tubing Spacer A-100N digital	2
5	90010-036	Wire Nut, Blue	1
6	90006-580	Gasket, Enclosure Back Plate	1
7	A-023N-V-115	Circuit board A-100NV 115V	1
	A-023N-V-230	Circuit board A-100NV 220V/230V	1
8	90010-235	Fuse, A-100NV Circuit Board, 1A 250VAC	1
9	71000-175	Power Cord, 115v60hz, Digital Models	1
	71000-176	Power Cord, 220v50hz, Digital Models	1
	71000-177	Power Cord, 230v60hz, Digital Models	1
10	70000-589	Cord Inlet Bushing	1
11	90003-559	Mounting Feet, Rubber	4
12	76001-000	Slide Clamp, Enclosure Rear	1
13	76000-999	Slide Clamp, Enclosure Front	1
14	76001-253	Enclosure A-100NV	1
15	90006-579	Gasket, Enclosure Front	1
16	90002-191	Door, Electronic Controls Cover	1
17	70002-250	Gearmotor, 14 Rpm, 24V DC	1
	70002-251	Gearmotor, 30 Rpm, 24V DC	1
	70002-252	Gearmotor, 45 Rpm, 24V DC	1
	70002-253	Gearmotor, 60 Rpm, 24V DC	1
	70002-254	Gearmotor, 125 Rpm, 24V DC	1
18	90010-246	Wire set w/plug, Alarm relay	1
19	90010-245	Wire set w/plug, TFD sensor	1
N/S	90010-247	Wire set w/plug, input signals	1
20	C-1814N-4	Motor Brush kit (2 ea), 24V DC	1
21	90011-023	Screw, Motor, 8-32 x .50	2
22	90010-244	Motor, 24V DC	1
23	90011-024	Screw, Green Ground, 8-32 x .25	1
24	90011-078	Washer, Ground Screw, #8 Star	1
25	90010-222	Wire, Motor ground, Digital Timers, Green	1

Item	Part No.	Product Name	Qty. Req.
26	A-008-1	Gearbox, 14 Rpm	1
	A-008-2	Gearbox, 30 Rpm	1
	A-008-3	Gearbox, 45 Rpm	1
•	A-008-4	Gearbox, 60 Rpm	1
	A-008-5	Gearbox, 125 Rpm	1
27	71000-488	Pumphead, A-100N w/TFD sensors	1
28	C-324N	Screw, Pumphead, 10-32 X .50 Phil Pan Black	4
29	A-031	Spacer, Rotor	1
30	A1-4T	Tube, A-100N S/A -4T Flex-A-Prene®	1
	A1-6T	Tube, A-100N S/A -6T Flex-A-Prene®	1
•	A1-7T	Tube, A-100N S/A -7T Flex-A-Prene®	1
	A1-8T	Tube, A-100N S/A -8T	1
	A1-1T	Flex-A-Chem® Tube, A-100N S/A -1T Flex-A-Thane®	1
•	A1-2T	Tube, A-100N S/A -2T Flex-A-Thane®	1
	A1-3T	Tube, A-100N S/A -3T Flex-A-Thane®	1
31	C-330-6	Nut, Tube Compression Type, .37 O.D. Tubing	2
36	C-335-6	Tubing, Outlet, .37 O.D. X 5ft, Polyethylene	1
37	C-334-6	Tubing, Inlet, .37 O.D. X 5ft, Clear PVC	1
38	C-346	Weight, Inlet Tubing, Ceramic	1
39	C-342-6	Strainer, Inlet Tube, Polypropylene	1
40	71000-159	Roller Assembly -4, -6 tubes	1
	71000-350	Roller Assembly -1, -2, -3, -7 tubes	1
41	90012-245	Label, A-100NV front panel controls	1
42	90011-074	Washer, #8 splitlock	2
45	A1-SXX-C	Cover, Pumphead With Sleeve Bearing	1
48	90011-160	Screw, Pumphead Cover, 8-32 X .62 Cap	3
49	A-014N-6A	InjValve Assy, .525 MPT X .37 OD Tube	
52	90007-515	Bushing, Junction Box Connector, Alum.	1
53	76001-254	Junction Box A-100NV	1
54	90011-129	Screw, Cover, 6-32 X .25 Phil Pan SS Black	2
55	71000-133	Cover, Junction Box with Gasket and Label	1
56	90008-199	Connector Liquid-tight	1

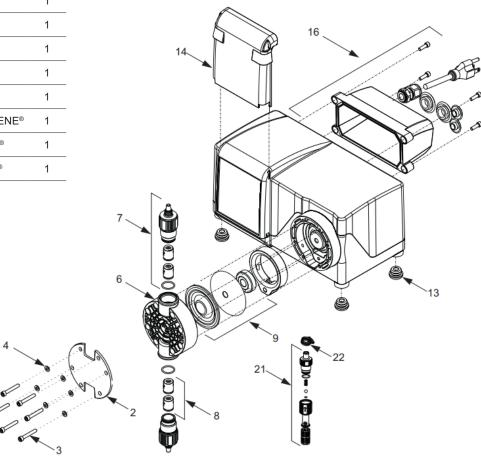
C2 Specs

<u>Index</u>

C2 Replacement Parts

Item	Model No.	Product Name	Qty. Req.
2	70004-541	COVER P/H C2	1
3	90011-149	SCREW	8
4	90011-094	Washer	8
6	90002-273	P/HEAD SM C2 PVDF	1
	90002-272	P/HEAD LG C2 PVDF	1
	71010-446	P/HEAD MICRO PVDF	1
7	70001-349	VALVE .5 M/NPT VIT	2
	70001-350	VALVE .5 M/NPT EP	2
	70001-351	VALVE .5 F/NPT VIT	2
	70001-352	VALVE .5 F/NPT EP	2
	70001-347	VALVE .5 T-BARB VIT	2
	70001-348	VALVE .5 T-BARB EP	2
	70001-372	VALVE .375 TUBE VIT	2
	70001-373	VALVE .375 TUBE EP	2
8	20000-194	KIT 4 EA. VALVE VIT	1
	20000-195	KIT 4 EA. VALVE EP	1
9	72000-551	MICRO DIAPHRAGM KIT	1
	72000-296	SMALL DIAPHRAGM KIT	1
	72000-297	LARGE DIAPHRAGM KIT	1
	72000-606	MICRO DIA KIT FLEX-A-PRENE®	1
	72000-607	SM DIA KIT FLEX-A-PRENE®	1
	72000-605	LG DIA KIT FLEX-A-PRENE®	1

Item	Model No.	Product Name	Qty. Req.
11	90001-173	P/HEAD LG. SPACER	1
	90001-172	P/HEAD SM. SPACER	1
13	90003-561	BUMPER FEET	4
14	90002-326	UV LCD CVR PLYCRB	1
16	71010-027	J-BOX KIT W/ 115V	1
	71010-028	J-BOX KIT W/ 230V	1
	71010-029	J-BOX KIT W/ 220V	1
21	See Accesso	ory Page for Foot Valve Options	
22	90008-043	CLAMP SS .5"	1
N/A	72000-378	BRUSH KIT MC2/MC3 90VDC MOTOR	1

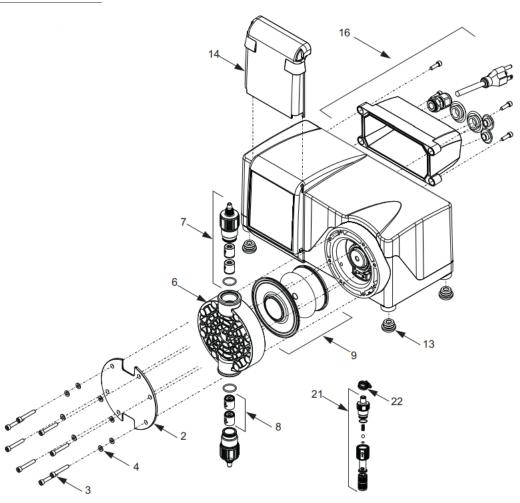


<u>Index</u>

C3 Replacement Parts

Item	Model No.	Product Name	Qty. Req.
2	70004-540	COVER P/H C3	1
3	90011-149	SCREW	8
4	90011-094	WASHER #10 P/H SS	8
6	90002-258	P/HEAD LG C3 PVDF	1
7	70001-349	VALVE .5 M/NPT VIT	2
	70001-350	VALVE .5 M/NPT EP	2
	70001-351	VALVE .5 F/NPT VIT	2
	70001-352	VALVE .5 F/NPT EP	2
	70001-347	VALVE .5 T-BARB VIT	2
	70001-348	VALVE .5 T-BARB EP	2
8	20000-194	KIT 4 EA. VALVE VIT	1
	20000-195	KIT 4 EA. VALVE EP	1
9	72000-295	DIAPHRAGM KIT C3	1
	72000-604	DIAPHRAGM KIT FLEX-A-PRENE®	1

Item	Model No.	Product Name	Qty. Req.
13	90003-561	BUMPER FEET	4
14	90002-326	UV LCD CVR PLYCRB	1
16	71010-027	J-BOX KIT W/ 115V	1
	71010-028	J-BOX KIT W/ 220V	1
	71010-029	J-BOX KIT W/ 220V	1
21	See Accesso	ory page for Foot Valve Options	
22	90008-043	CLAMP SS .5"	1
23	76001-361	TUBE SUCTION .5 D, 8' L	1
24	71000-579	INJECTION .5 BARB	1
	71000-577	INJECTION .5 M/NPT	1
N/A	72000-378	Brush Kit MC2/MC3 90VDC Motor	1



MD1 Replacement Parts

Item	Part No.	Product Name	Qty. Req.
1	90011-150	Screw 10-32 x .50 SOC Cap SS	4
3	90006-600	Back-Up Washer HD .100" Thick	2
4	71010-730	Manifold, PVDF	2
5	90002-707	Adapter Cart	4
6	70004-539	P/Head Cover CHEM-FEED®	2
7		Adapters	2
8	90002-712	Nut, Union, PVDF	2
10	90018-087	Standoff Threaded	2
11	71010-837	Cover, Front	1

Item	Part No.	Product Name	Qty. Req.
12	71010-926	Cartridge Bullet, PVDF, Aflas O-rings	6
	71010-928	Cartridge Bullet, PVDF, EP O-rings	6
13	71010-944	Cartridge Bullet De-Gas, PVDF, Aflas	1
	71010-945	Cartridge Bullet De-Gas, PVDF, EP	1
14	90003-581	O-Ring, Aflas	6
	90003-633	O-Ring, EP	6
15	90003-014	O-Ring, Aflas	4
	90003-600	O-Ring, EP	4
16	KIT-CDV**	Diaphragm PVDF	1
	KIT-CDE**	Diaphragm Flex-A-Prene®	1
17	70004-096	Pump/HD HDN LG PVDF V Stamp	2
	70004-097	Pump/HD HDN LG PVDF E Stamp	2
21	90011-141	Screw 10-32 X 1.25 Pan Phil SS	8
N/S	C-330-6	Tube Nut, 1/4" x 3/8"	2
N/S	KIT-DVA1*	Cart. Valve Kit, De-Gas, Aflas	1
	KIT-DVE1*	Cart. Valve Kit, De-Gas, EP	1
	KIT-DKA1*	Cart. Valve Kit, De-Gas w/ standoffs, Aflas	1
	KIT-DKE1*	Cart. Valve Kit, De-Gas w/ standoffs,	1
	* Includes Oty 6	Cart Bullet and Oty 1 De-Gas Cart	

^{*} Includes Qty 6 Cart. Bullet and Qty 1 De-Gas Cart.

ELBOW & STRAIGHT ADAPTER KITS

Kits include:

- (2) #7 adapters
- (2) #8 Union Nuts
- (2) #14 O-rings

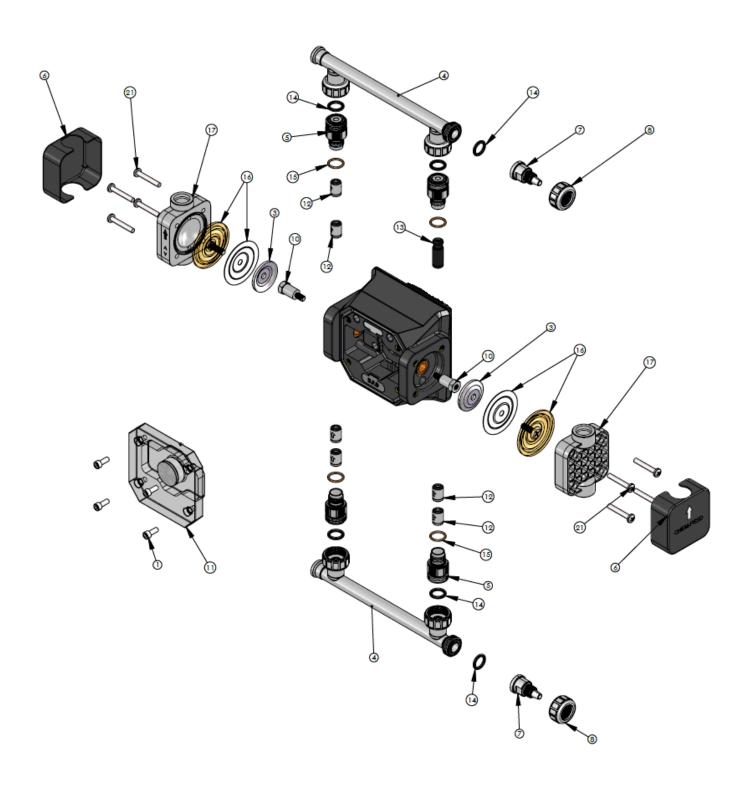


KIT-CA1SE Elbow Adapter Kit, 1/4" x 3/8" tubing comp., Aflas O-rings KIT-CE1SE Elbow Adapter Kit, 1/4" x 3/8" tubing comp., EP O-rings KIT-CA1ME Elbow Adapter Kit, 1/2" M/NPT fitting, Aflas O-rings KIT-CE1ME Elbow Adapter Kit, 1/2" M/NPT fitting, EP O-rings KIT-CA1BE Elbow Adapter Kit, 1/2" Hose Barb, Aflas O-rings KIT-CE1BE Elbow Adapter Kit, 1/2" Hose Barb, EP O-rings KIT-CA1S Straight Adapter Kit, 1/4" x 3/8" tubing comp., Aflas O-rings KIT-CE1S Straight Adapter Kit, 1/4" x 3/8" tubing comp., EP O-rings KIT-CA1M Straight Adapter Kit, 1/2" M/NPT fitting, Aflas O-rings KIT-CE1M Straight Adapter Kit, 1/2" M/NPT fitting, EP O-rings KIT-CA1B Straight Adapter Kit, 1/2" Hose Barb, Aflas O-rings KIT-CA1B Straight Adapter Kit, 1/2" Hose Barb, Aflas O-rings KIT-CE1B Straight Adapter Kit, 1/2" Hose Barb, EP O-rings

^{**} Includes Qty 2 Diaphragms and Qty 2 Backing pieces

<u>Index</u> <u>Website</u> <u>Product Page</u> <u>MD1 Specs</u>

MD1 Replacement Parts



MD3 Specs

Index

MD3 Replacement Parts

Item	Model No.	Product Name	Qty. Req.
1	91001-301	NUT UNION CD3 MOLDED PVDF	6
2	91001-295	.50" BARB ADAPTER	2
	91001-296	.50" BARB ADAPTER ELBOW	2
	91001-288	.50" M/NPT ADAPTER ELBOW	2
	91001-287	.50" M/NPT ADAPTER	2
3	90003-577	O-RING 2-119 (AFLAS 75)	6
	90003-627	O-RING 2-119 (EP)	6
4	70001-504	MANIFOLD S/A PVDF (Aflas)	2
	70001-505	MANIFOLD S/A PVDF (EP)	2
6	90002-350	DRIVE HEAD INSERT	2
7	72000-583	KIT DIAPHRAGM DIAFLEX® MD-3	2
	72000-601	KIT DIAPHRAGM FLEX-A-PRENE®MD3	2
8	70001-500	CARTRIDGE VALVE KIT (TFE/P)	4
	70001-501	CARTRIDGE VALVE KIT (EP)	4
9	90002-272	PUMP HEAD	2
10	70004-541	PUMP HEAD FACE PLATE	2

Item	Model No.	Product Name	Qty. Req.
11	90011-094	WASHER #10	16
13	90003-141	O-RING 2-018 (TFE/P)	4
	90003-610	O-RING 2-018 (EP)	4
14	90002-353	ADAPTER CART CD3	4
15	90008-651	MOUNTING BRACKET	2
16	90011-210	Screw 10-32 x 2.0 SOC HD	1
17	20000-226	Kit (8) Ball Check Cart., Aflas	1
	20000-227	Kit (8) Ball Check Cart., EP	1
	20000-229	Kit (4) Ball Check Cart., Aflas, PTFE Balls	2

Foot Valves, Injection Valves, and Spares Kits (Not Shown)

71000-575 Foot Valve, 1/2" Barb, PVDF Body, FKM O-ring **71000-576** Foot Valve, 1/2" Barb, PVDF Body, EP O-ring 71000-849 Foot Valve, 1/2" MNPT, PVDF Body, FKM O-ring 71000-850 Foot Valve, 1/2" MNPT, PVDF Body, EP O-ring

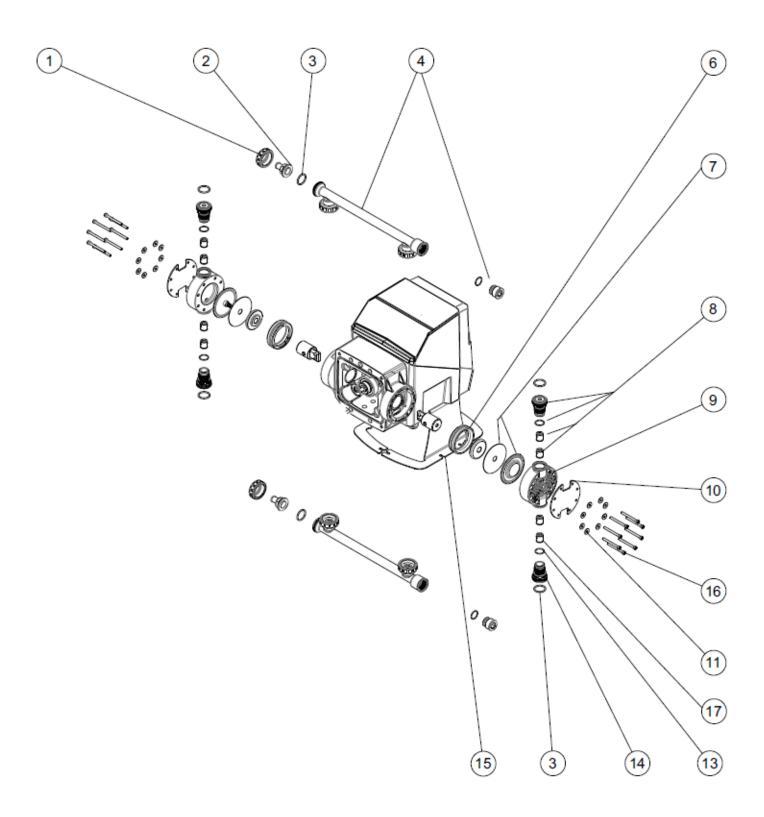
71000-579 Injection Valve, 1/2" Barb Tubing, FKM, PVDF body, 6 psi 71000-580 Injection Valve, 1/2" Barb Tubing, EP, PVDF body, 6 psi 71000-577 Injection Valve, 1/2" MNPT, FKM, PVDF body, 6 psi 71000-578 Injection Valve, 1/2" MNPT, EP, PVDF body, 6 psi

KIT-CA3DF DiaFlex Diaphragm / Ball Check(Aflas) Kit Includes: (Qty 2) Item 7 - DiaFlex Diaphragm, (Qty 1) Item 17 -Kit ball check cartidges, (Qty 6) Item 3 - O-ring, (Qty 4) Item 13 - O-ring

KIT-CE3DF Flex-A-Prene Diaphragm / Ball Check(EP) Kit Includes: (Qty 2) Item 7 - Flex-A-Prene Diaphragm, (Qty 1) Item 17 -Kit ball check cartidges, (Qty 6) Item 3 - O-ring, (Qty 4) Item 13 - O-ring

MD3 Specs

<u>Index</u>



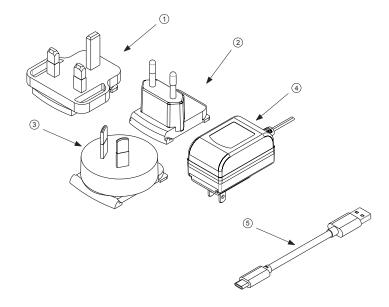
<u>Index</u>

MS6 Specs

MS6 Replacement Parts

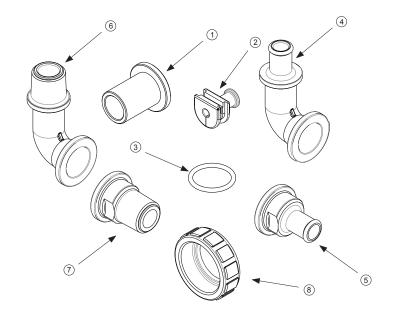
MS6 Power Supply Kit 72000-594

Item	Model No.	Product Name	Qty. Req.
1	90008-723	U.K. Blade Power Supply	1
2	90008-513	Europe Blade Power Supply	1
3	90008-724	Australian Blade Power Supply	1
4	90008-743	Power Supply 120AC/5VDC 2000MA	1
5	90010-597	USB A-C Cable	1



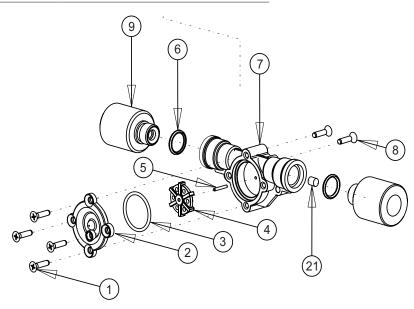
MS6 Adapter Kit 72000-588(Aflas), 72000-647 (EP)

Item	Model No.	Product Name	Qty. Req.
1	76001-855	Adapter PVC	2
2	90003-565	Cable Gland	2
3	90003-577	O-Ring 2-119 AFLAS	2
3	90003-153	O-Ring 2-119 EP	2
4	91001-296	Adapter Elbow, .50 MNPT	2
5	91001-295	.50" Barb Adapter	2
6	91001-288	Adapter Elbow SM .50 M/NPT	2
7	91001-287	Adapter, SM.50 M/NPT	2
8	91001-301	Nut Union Molded PVDF	2

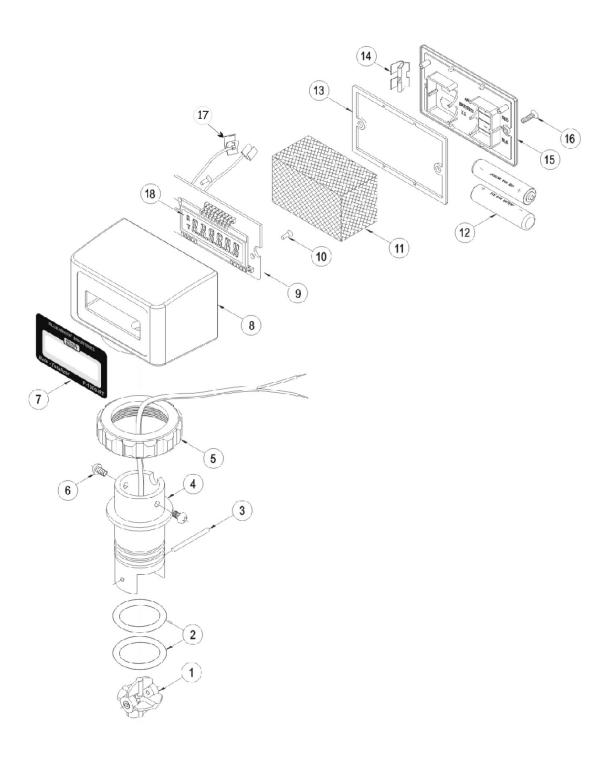


MICRO-FLO Replacement Parts

Item	Model No.	Product Name	Qty.
			Req.
1	90011-190	Screw 6-32 x .50 Phil Flt SS	4
2	90002-228	Lens Cap Opaque PVDF	1
3	90003-143	O-Ring FKM	1
	90003-146	O-Ring EP	1
4	90002-229	Paddle PVDF	1
5	90007-592	Axle PVDF	1
6	90003-012	O-Ring FKM	2
	C-502EB	O-Ring EP	2
7	76001-705	Body S1 PVDF (30-300ml/min)	1
	76001-301	Body S2 PVDF (100-1000ml/min)	1
	76001-302	Body S3 PVDF (200-2000ml/min)	1
	76001-706	Body S4 PVDF (300-3000ml/min)	1
	76001-304	Body S5 PVDF (500-5000ml/min)	1
	76001-305	Body S6 PVDF (700-7000ml/min)	1
8	90011-178	Screw #4 x .50 Phil Blk	2
9	76000-137	Adapter .250" F/NPT PVC	2
	76000-456	Adapter .125" F/NPT PVC	2
	90002-038	Adapter .375" OD Tubing Connection, PVDF	2
	90002-042	Adapter .250" OD Tubing Connection, PVDF	2
	76001-360	Adapter .500" ID Hose Barb, PVC	2
	76001-359	Adapter .500 F/NPT, PVC	2
	76001-358	Adapter .500 M/NPT, PVC	2



F-1000 Replacement Parts



Index Website Product Page F-1000 Specs

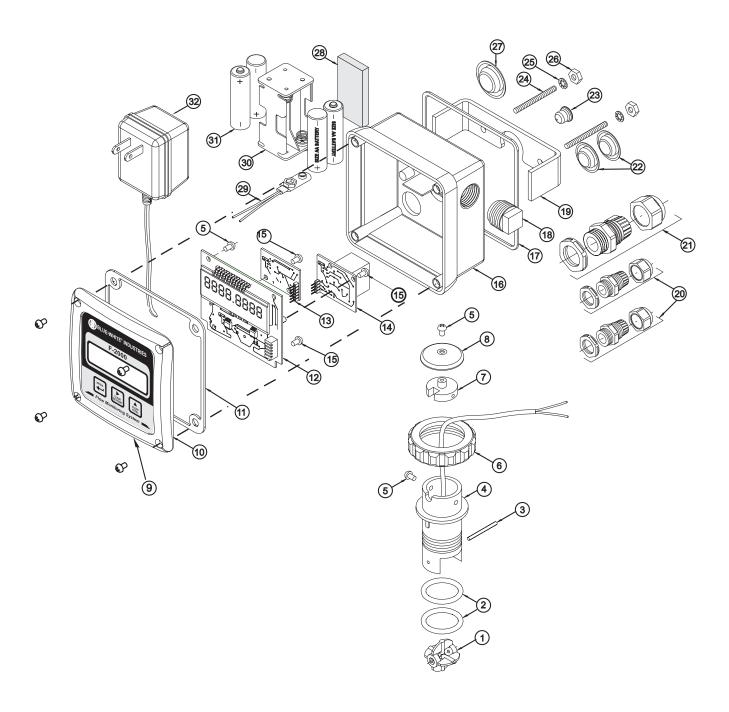
F-1000 Replacement Parts

Item	Model No.	Product Name	Qty. Req.
1	70000-783	Paddle assembly PVDF (Includes Axle)	1
2	90003-021	O-ring 022 Viton E60	2
	90003-020	O-ring 022 EP	2
3	90007-589	Axle PVDF	1
	90007-567	Axle Hastelloy	1
4	71000-238	Sensor body assembly F-100 no paddle	1
5	91001-280	Union Nut	1
	90011-080	Screw #6 x .37 PH Pan B 18/8	2
7	90012-198	Label F-1000-RB GPM	1
	90012-199	Label F-1000-RB GPH	1
	90012-200	Label F-1000-RB LPM	1
	90012-201	Label F-1000-RB LPH	1
	90012-202	Label F-1000-RB M3H	1
	90012-221	Label F-1000-TB overlay	1
	90012-222	Label F-1000-RT overlay	1

			04
Item	Model No.	Product Name	Qty. Req.
8	76001-187	Housing F-1000	1
	RBC-pipe-units	Circuit board for model RB. Must specify pipe	1
	TBC-pipe-units	Circuit board for model TB. Must specify pipe	1
	RTC-pipe-units	Circuit board for model RT. Must specify pipe	1
	90011-169	Screw #4 .25 Phil Pan "A"	1
	90013-260	Foam pad 1.25 x 1.25 x 2.25	1
	90008-318	Battery each AAA	2
13	90006-590	Gasket F-1000	1
14	90008-319	Battery clip F-1000	1
15	90002-203	Rear plate F-1000	1
16	90011-113	Screw #4 .50 Phil oval "A"	2
17	90010-241	Battery Connector	1
N/S	F-900K	Service Removal Plug	

Note: See page 134 for Pipe Kits

F-2000 Replacement Parts



F-2000 Replacement Parts

Item	Model No.	Product Name	Qty. Req.
1	70000-783	Paddle Assembly PVDF	1
2	F-4410V	O-Ring 022 Viton E60	2
	F-4410E	O-Ring 022 EP	2
3	90007-589	Axle PVDF	1
	90007-567	Axle Hastelloy	1
4	71000-238	Sensor Body Ac Coil 1' Cable	1
	71000-285	Sensor Body Ac Coil 25' Cable	1
	70000-806	Sensor Body Hall Effect 25' Cable	1
5	90011-080	Screw #6-32 X .37 Ph Pan B 18/8	5
6	91001-280	Union Nut	1
7	76002-023	Retainer Sensor Cap	1
8	90006-550	Cap Sensor Body SS	1
9	90012-208	Switch Overlay F-2000	1
10	71000-356	Cover F-2000 W/ Switch Overlay	1
11	90006-592	Gasket F-2000 Housing Neoprene	1
12	90010-227	Circuit Board F-2000 Rt	1
13	KIT-AO	Kit Circuitry Model F-2000 AO	1
14	KIT-PB	Kit Circuitry Model F-2000 PB	1
14	KIT-PC	Kit Circuitry Model F-2000 PC	1
15	90011-155	Screw #6-32 X .31 Ph Pan SS	4
16	76001-150	Enclosure F-2000 Panel Mount	1

Item	Model No.	Product Name	Qty. Req.
17	90006-593	Gasket F-2000 1/4 Din Panel Mount	1
18	90008-331	Cap Plug P-48 1/2 Npt Red F-2000	1
19	71000-294	Kit F-2000 1/4 Din Panel Mount	1
20	71000-730	Connector Liquid-Tight 1/2 In.	2
21	A-033N	Connector Liquid-Tight 3/4 In.	1
22	90008-332	Plug 1/2 In.	2
23	90008-340	Cap Plug Vtp-25 Red	1
24	90011-038	Stud Screw #10-32 1.62 Long	2
25	90011-092	Star Washer #10-32	2
26	90011-026	Hex Nut #10-32	2
27	90008-333	Plug 7/8 In.	1
28	90013-261	Foam Pad 1/4 In. Thick	1
29	90008-254	Battery Clip	1
30	90010-233	Battery Holder F-2000 4x AA	1
31	90008-330	Battery alkaline AA	4
32	90008-336	Power Supply 115VAC/15VDC	1
	71010-072	Power Supply 220VAC/15VDC Europe	1
	71000-310	Power Supply 230VAC/15VDC	1
N/S	F-900K	Service Removal Plug	

F-1000 & F-2000 Pipe Fittings

Polypropylene Molded In-Line Pipe Fittings -

Pipe Size	GPM Range	LPM Range	Max. PSI Drop	Model Number	Model Number
		,		American M/NPT	British Pipe M/BSPT
3/8"	.8 - 8	3 - 30	2.3	38M1	38MB1
3/8"	.4 - 4	1 - 10	8.7	38M2	38MB2
1/2"	2 - 20	7 - 70	3.5	50M1	50MB1
3/4"	3 - 30	11 - 110	1.9	75M1	75MB1
1"	5 - 50	20 - 200	1.6	10M1	10MB1
1 1/2"	6 - 60	25 - 250	1.0	15M2	15MB2
2"	10 - 100	40 - 400	0.9	20M3	20MB3
2"	20 - 200	70 - 700	1.0	20M4	20MB4

Pipe sizes: 3/8" - 2" M/NPT

MOLDED IN-LINE FEATURES

- One piece injection molded construction
- Male pipe thread In-line installation
- Polypropylene fittings for standard applications

MOLDED IN-LINE SPECIFICATIONS

Max PSI - 300 psi (20 bar) @ 70F (21C) **Max Temp** - 200F (93C) @ 0 psi



Standard Saddle Mount Pipe Fittings -

Pipe Size	GPM Range	LPM Range	Material	Model Number	Model Number
				Schedule 40	Schedule 80
1 1/2"	15 - 150	60 - 600	PVDF	15K4/S4	15K8/S8
2"	30 - 300	100 - 1000	PVDF	20K4/S4	20K8/S8
2 1/2"	40 - 400	150 - 1500	PVC	25A4/S4	25A8/S8
3"	60 - 600	250 - 2500	PVDF	30K4/S4	30K8/S8
4"	100 - 1000	400 - 4000	PVC	40A4/S4	40A8/S8
6"	250 - 2500	900 - 9000	PVC	60A4/S4	60A8/S8
8"	400 - 4000	1600 - 16000	PVC	80A4/S4	80A8/S8
10"	600 - 6000	2400 - 24000	PVC	100A4/S4	100A8/S8
12"	800 - 8000	3200 - 32000	PVC	120A4/S4	120A8/S8

Pipe sizes: 1-12" (50-315mm)

SADDLE FEATURES

- 1 1/2" 3" (50-90mm) injection molded PVDF
- 4" 12" (110 315mm) machined PVC
- Installs on exsisting pipe no other fittings required
- · No added pressure drop to system

SADDLE SPECIFICATIONS

Max PSI - 300 psi (20 bar) @ 70F (21C) Max Temp - (PVDF) 200F (93C) @ 0 psi (PVC) 140F (60C) @ 0 psi

Metric Saddle Mount Pipe Fittings -

DIN 8062	LPM Range	Material	Model Number	Model Number
	'	,	METRIC PN10	METRIC PN16
50mm	70 - 700	PVDF	05K0/P0	05K6/P6
63mm	110 - 1100	PVDF	06K0/P0	06K6/P6
75mm	150 - 1500	PVC	07A0/P0	07A6/P6
90mm	230 - 2300	PVDF	09K0/P0	09K6/P6
110mm	350 - 3500	PVC	11A0/P0	11A6/P6
160mm	720 - 7200	PVC	16A0/P0	16A6/P6
200mm	1150 - 11500	PVC	20A0/P0	20A6/P6
250mm	1700 - 17000	PVC	25A0/P0	
315mm	2700 - 27000	PVC	31A0/P0	

¹⁵K8 PVDF 80A4 PVC

PVC TEE Pipe Fittings -

Pipe Size	GPM Range	LPM Range	Material	Model Number
1"	6 - 60	25 - 250	PVC	10AT
1 1/2"	15 - 150	60 - 600	PVC	15AT
2"	30 - 300	100 - 1000	PVC	20AT
3"	60 - 600	230 - 2300	PVC	30AT



Pipe sizes: 1-3"

TEE FEATURES

- · Easy to install
- · No added pressure drop to system

TEE SPECIFICATIONS

Max PSI - 200 psi (13.8 bar) @ 70F (21C)

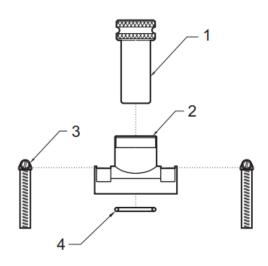
Max Temp - 140F (60C) @ 0 psi

^{*}Saddle Mount pipe fittings include: alignment tool, o-rings, clamps, and union nut.

^{*}Saddle Mount pipe fittings include: alignment tool, o-rings, clamps, and union nut.

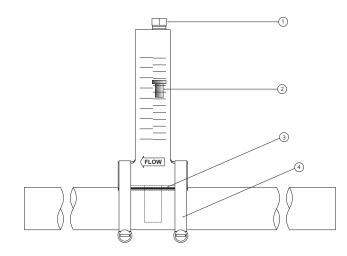
F-1000/F-2000 Fittings Replacement Parts

Item	Model No.	Product Name	Qty. Req.
1	76000-830	Alignment/Service Tool	1
2		See Pipe Fitting Kits, previous page	1
3	F-3028	Clamp #28, for 1.5" pipe	2
	F-3040	Clamp #40, for 2" pipe	2
	F-3048	Clamp #48, for 2.5" pipe	2
	F-3025	Clamp #52, for 3" pipe	2
	F-3072	Clamp #72, for 4" pipe	2
	F-3116	Clamp #116, for 6" pipe	2
	F-3152	Clamp #152, for 8" pipe	2
	F-3188	Clamp #188, for 10" pipe	2
	F-3224	Clamp #224, for 12" pipe	2
4	90003-108	O-ring / FKM for 1.5", 2", 3"	1
	90003-114	O-ring / FKM for 2.5", 4", 6", 8", 10", 12"	1
	90003-109	O-ring / EP for 1.5", 2", 3"	1
	90003-135	O-ring / EP for 2.5", 4", 6", 8", 10", 12"	1



F-300 Replacement Parts

Item	Model No.	Product Name	Qty. Req.
1	F-3005	Cap Plug For all F-300, D-300 & U-300	1
2	F-3020	Long Float, red PVDF 1" through 1.25"	1
	F-3022	Short Float, red PVDF 1.5" through 8"	1
3	F-3003	Gasket Seal 1" through 4"	1
	F-3004	Gasket Seal 6" through 8"	1
4	90008-667	Mounting Clamp F-30100P, F-30125P	2
	90008-652	Mounting Clamp F-30200P, F-30150P	2
	90008-013	Mounting Clamp D-30150P, U-30150P	2
	90008-668	Mounting Clamp F-30250P	2
	90008-015	Mounting Clamp D-30200P, U-30200P	2
	90008-669	Mounting Clamp F-30300P	2
	90008-673	Mounting Clamp F-30400P	2
	90008-674	Mounting Clamp F-30600P	2
	90008-675	Mounting Clamp F-30800P	2



F-300S Flow Switch

MODEL NO.	PIPE SIZES	LIST PRICE
F-300S	1" - 2"	\$89.76
F-300SL	2-1/2" - 4"	\$89.76

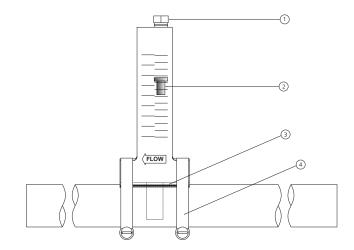


1 1/2" I.P.S

F-300S FLOW SWITCH

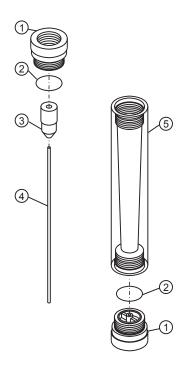
F-300M Replacement Parts

Item	Model No.	Product Name	Qty. Req.
1	F-3005	Cap Plug F-300M	1
2	F-3020	Long Float, Red PVDF (32mm, 50mm, 75mm, 90mm)	1
	F-3022	Short Float, Red PVDF (63mm)	1
	F-3001	Float, SS (110mm)	1
3	F-3003	Gasket Seal	1
4	90008-010	Mounting Clamp F-30032M	2
	90008-137	Mounting Clamp F-30050M	2
	90008-137	Mounting Clamp F-30063M	2
	90008-014	Mounting Clamp F-30075M	2
	90008-016	Mounting Clamp F-30090M	2
	90008-018	Mounting Clamp F-30110M	2



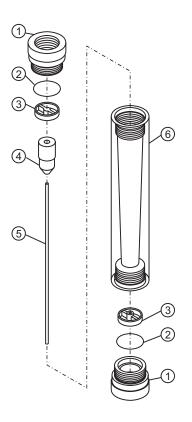
F-400 Replacement Parts

Item	Model No.	Product Name	Qty. Req.
1	F-4019	1/4" FPT Adapter (PP)	2
	F-4001NS	3/8" FPT Adapter (PP)	2
	F-4003NS	1/2" FPT Adapter (PP)	2
2	90003-119	O-ring, 117, (Viton)	2
	90003-142	O-ring, 117, (EP)	2
3	-	Float (SS)	1
4	F-4004	Guide wire, (SS)	1
5	-	Meterbody (Acrylic)	1



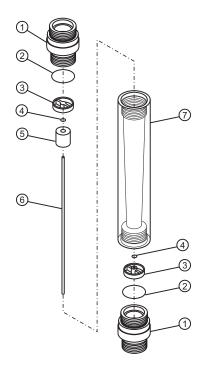
F-410 Replacement Parts

Item	Model No.	Product Name	Qty. Req.
1	F-4009N	3/4" FPT Adapter (PP)	2
	F-4011	1" FPT Adapter (PP)	2
2	F-4010K	O-ring, 124 (Viton)	2
	F-4010X	O-ring, 124 (EP)	2
3	F-4013PP	Wire holder (PP)	2
4	-	Float (SS)	1
5	F-4012	Guide Wire (SS)	1
6	-	Meterbody (Acrylic)	1



F-420 Replacement Parts

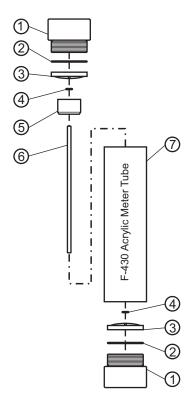
Item	Model No.	Product Name	Qty. Req.
1	76001-028	1.0" FPT Adapter (PVC)	2
	76001-026	1.5" MPT Adapter (PVC)	2
2	2-127V	O-ring, 127 (Viton)	2
	90003-154	O-ring, 127 (EP)	2
3	91001-159	Wire holder (PSF)	2
4	2-006A	O-ring, 006 (Aflas)	2
	2-006EB	O-ring, 006 (EP)	2
5	-	Float (SS)	1
6	F-4212	Guide Wire (SS)	1
7	-	Meterbody (Acrylic)	1



Index Website Product Page F-430 Specs

F-430 Replacement Parts

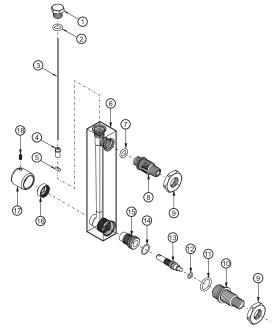
Item	Model No.	Product Name	Qty. Req.
1	76001-226	1.5" female NPT adapter (PVC)	2
	76001-216	2" female NPT adapter (PVC)	2
2	90003-118	O-ring, 142 (Viton)	2
	90003-151	O-ring, 142 (EP)	2
3	91001-198	Wire Holder (PSF)	2
4	90003-140	O-ring, 108 (Aflas)	2
	2-108EB	O-ring, 108 (EP)	2
5	-	Float (SS)	1
6	90007-626	Guidewire (SS)	1
7	-	Meterbody (Acrylic)	1



<u>Index</u>

F-550 Replacement Parts

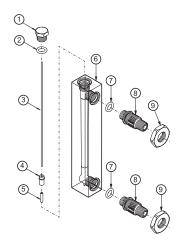
Item	Product Name	F-55250LA	F-55375LA F-55376LA	F-55500LA	F-55750LA	F-55005LA, F-55010LA F-55015LA, F-55200LA	Qty. Req.
1	Сар	76001-080	91001-032	91001-032	91001-033	91001-160	1
2	O-ring (cap), Viton	90003-072	90003-081	90003-081	90003-082	90003-079	1
	O-ring (cap), EP	90003-574	90003-038	90003-038	90003-039	90003-058	1
3	Guide wire	76001-108	76001-109	76001-109	76001-110	76001-111	1
4	Float	-	-	-	-	-	1
5	Float stop bottom	-	-	-	-	-	1
6	Body	-	-	-	-	-	1
7	O-ring, Viton (adapter)	90003-072	90003-034	90003-034	90003-081	90003-644	1
	O-ring, EP (adapter)	90003-574	90003-033	90003-033	90003-038	90003-645	1
8	Adapter	76001-079	91001-141	91001-142	91001-143	91001-144	1
9	Lock nut	91001-153	91001-153	91001-154	91001-171	91001-172	2
10	Inlet Adapter	76001-153	91001-173	91001-174	91001-175	91001-176	1
11	O-ring, Viton inlet adapter	90003-034	90003-045	90003-045	90003-644	90003-082	1
	O-ring, EP inlet adapter	90003-033	90003-610	90003-610	90003-645	90003-039	1
12	O-ring, Viton valve stem	90003-004	90003-010	90003-010	90003-072	90003-113	1
	O-ring, EP valve stem	90003-598	90003-597	90003-597	90003-574	90003-633	1
13	Valve stem	76001-082	76001-088	76001-088	76001-094	76001-104	1
14	O-ring, Viton valve body	90003-014	90003-081	90003-081	90003-017	90003-021	1
	O-ring, EP valve body	90003-600	90003-038	90003-038	90003-016	90003-020	1
15	Valve body	76001-081	76001-086	76001-086	76001-093	76001-103	1
16	Retainer cap	76001-084	76001-090	76001-090	76001-095	76001-106	1
17	Knob valve	76001-083	76001-089	76001-089	76001-097	76001-105	1
18	Set screw	90011-056	90011-117	90011-117	90011-117	90011-117	1
	L						



<u>Index</u> <u>Website</u> <u>Product Page</u> <u>F-550 Specs</u> <u>F-440 Specs</u>

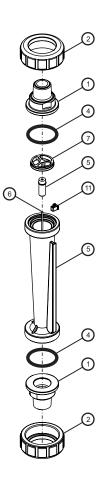
F-550 Replacement Parts

Item	Product Name	F-55250L	F-55375L F-55376L	F-55500L	F-55750L	F-55005L, F-55010L F-55015L, F-55200L	Qty. Req.
1	Сар	76001-080	91001-032	91001-032	91001-033	91001-160	1
2	O-ring (cap), Viton	90003-072	90003-081	90003-081	90003-082	90003-079	1
	O-ring (cap), EP	90003-574	90003-038	90003-038	90003-039	90003-058	1
3	Guide wire	90007-634	90007-534	90007-534	90007-535	90007-606	1
4	Float	-	-	-	-	-	1
5	Float stop bottom	-	-	-	-	-	1
6	Body	-	-	-	-	-	1
7	O-ring, Viton (adapter)	90003-072	90003-034	90003-034	90003-081	90003-644	2
	O-ring, EP (adapter)	90003-574	90003-033	90003-033	90003-038	90003-6445	2
8	Adapter	76001-079	91001-141	91001-142	91001-143	91001-144	2
9	Lock nut	91001-153	91001-153	91001-154	91001-171	91001-172	2



F-440 (In-Line) Replacement Parts

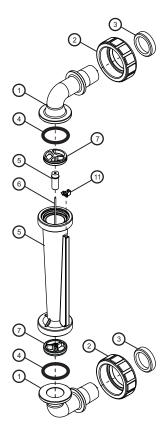
Item	Model No.	Product Name	Qty. Req.
1	F-44N07	3/8" Male NPT in-line adapter, Polysulfone	2
	F-44N08	1/2" Male NPT in-line, Polysulfone	2
	F-44N09	3/4" Male NPT in-line, Polysulfone, large body	2
	F-45N013	1/2" Male NPT in-line, Polysulfone, large body	2
2	F-44N05	3/8" and 1/2" Half Union, Nylon	2
	F-44N06	3/4" Half Union, Nylon	2
4	90003-152	3/8" and 1/2" O-ring seal, Viton	2
	90003-627	3/8" and 1/2" O-ring seal, EP	2
	90003-082	3/4" O-ring seal, Viton	2
	F-5026X	3/4" O-ring seal, EP	2
5	N/A	Meterbody and Float (contact factory)	1
6	F-44N14	3/8" and 1/2" Guide Rod, 316 Stainless Steel	1
	F-44N15	3/4" Guide Rod, 316 Stainless Steel	1
7	F-45N007	1/2" Guide Rod holder, Polysulfone	2
	F-45N019	3/4" Guide Rod holder, Polysulfone	2
11	F-45N043	Indicator, Red	1



F-440E Elbow (Panel Mount) Replacement Parts

F-440 Specs

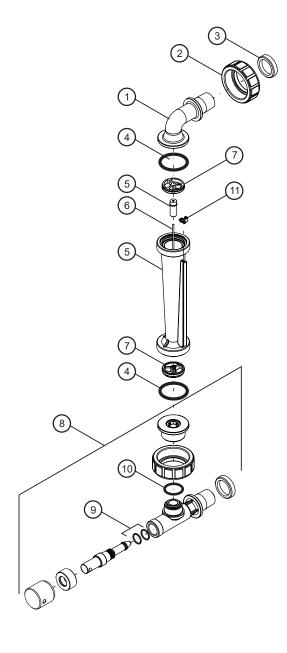
Item	Model No.	Product Name	Qty. Req.
1	F-44N40	3/8" Male NPT 90° Elbow, Polysulfone	2
	F-44N20	1/2" Male NPT 90° Elbow, Polysulfone	2
	F-44N21	3/4" Male NPT 90° Elbow, Polysulfone	2
	F-44N42	1/2" Male NPT 90° Elbow, Polysulfone	2
2	F-44N05	3/8" and 1/2" Half Union, Nylon	2
	F-44N06	3/4" Half Union, Nylon	2
3	F-4427A	3/8" and 1/2" Panel mount lock nut	2
	F-4428A	3/4" Panel mount lock nut	2
4	90003-152	3/8" and 1/2" O-ring seal, FKM	2
	90003-627	3/8" and 1/2" O-ring seal, EP	2
	90003-082	3/4" O-ring seal, FKM	2
	F-5026X	3/4" O-ring seal, EP	2
5	N/A	Meterbody and Float (contact factory)	1
6	F-44N14	3/8" & 1/2" Guide Rod, 316 SS	1
	F-44N15	3/4" Guide, 316 SS	1
7	F-45N007	1/2" Guide Rod holder, Polysulfone	2
	F-45N019	3/4" Guide Rod holder, Polysulfone	2
11	F-45N043	Indicator, Red	1



F-440A - Adjustable (Panel Mount)

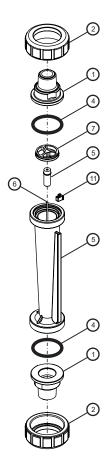
<u>Index</u>

Item	Model No.	Product Name	Qty. Req.
1	F-44N40	3/8" Male NPT 90° Elbow, Polysulfone	2
	F-44N20	1/2" Male NPT 90° Elbow, Polysulfone	2
	F-44N21	3/4" Male NPT 90° Elbow, Polysulfone	2
	F-44N42	1/2" Male NPT 90° Elbow, Polysulfone	2
2	F-44N05	3/8" and 1/2" Half Union, Nylon	2
	F-44N06	3/4" Half Union, Nylon	2
3	F-4427A	3/8" and 1/2" Panel mount lock nut	2
	F-4428A	3/4" Panel mount lock nut	2
4	90003-152	3/8" and 1/2" O-ring seal, FKM	2
	90003-627	3/8" and 1/2" O-ring seal, EP	2
	90003-082	3/4" O-ring seal, FKM	2
	F-5026X	3/4" O-ring seal, EP	2
5	N/A	Meterbody and Float (contact factory)	1
6	F-44N14	3/8" & 1/2" Guide Rod, 316 SS	1
	F-44N15	3/4" Guide Rod, 316 SS	1
7	F-45N007	1/2" Guide Rod holder, Polysulfone	2
	F-45N019	3/4" Guide Rod holder, Polysulfone	2
8	F-44N40-1	3/8" M/NPT Valve Assm. Sm, Poly, FKM seal	1
	F-44N40-2	1/2" M/NPT Valve Assm. Sm, Poly, FKM seal	1
	F-45N031-1	3/8" M/NPT Valve Assm. Lg, Poly, FKM seal	1
	F-45N031-2	1/2" M/NPT Valve Assm. Lg, Poly, FKM seal	1
	F-45N031-3	3/4" M/NPT Valve Assm. Lg, Poly, FKM seal	1
9	90003-010	O-Ring, FKM	2
	90003-597	O-Ring, EP	2
10	90003-071	O-Ring, FKM	1
	90003-018	O-Ring, EP	1
11	F-45N043	Indicator, Red	1



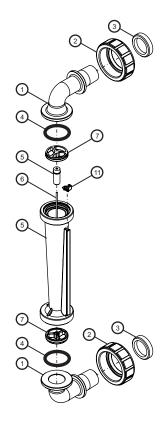
F-450 (In-Line) Replacement Parts

Item	Model No.	Product Name	Qty. Req.
1	F-45N011-2	3/8" Male NPT in-line adapter, Polysulfone	2
	F-45N013	1/2" Male NPT in-line, Polysulfone	2
	F-44N09	3/4" Male NPT in-line, Polysulfone	2
2	F-44N06	3/4" Half Union, Nylon	2
4	90003-082	3/4" O-ring seal, Viton	2
	90003-039	3/4" O-ring seal, EP	2
5	N/A	Meterbody and Float (contact factory)	1
6	F-45N005	F-45375, F-45376, F-45500 Guide Rod 316 SS	1
	F-45N021	F-45750 Guide Rod, 316 SS	1
7	F-45N019	Guide Rod holder, Polysulfone	2
11	F-45N043	Indicator, Red	1



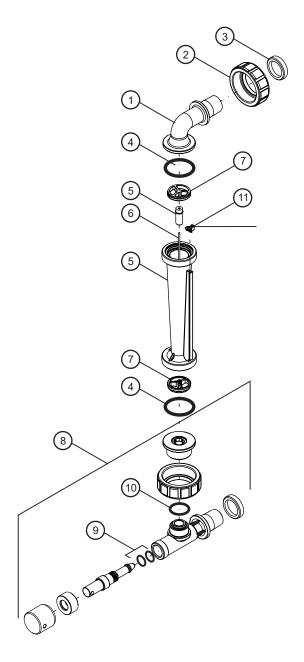
F-450NE Elbow (Panel Mount) Replacement Parts

Item	Model No.	Product Name	Qty. Req.
1	F-44N41	3/8" Male NPT 90° Elbow, Polysulfone	2
	F-44N42	1/2" Male NPT 90° Elbow, Polysulfone	2
	F-44N21	3/4" Male NPT 90° Elbow, Polysulfone	2
2	F-44N06	3/4" Half Union, Nylon	2
3	F-4427A	3/8" and 1/2" Panel mount lock nut	2
	F-4428A	3/4" Panel mount lock nut	2
4	90003-082	O-ring seal, Viton	2
	90003-039	O-ring seal, EP	2
5	N/A	Meterbody and Float (contact factory)	1
6	F-45N005	45375, F-45376, F-45500 Guide Rod 316 SS	1
	F-45N021	F-45750 Guide Rod, 316 SS	1
7	F-45N019	Guide Rod holder, Polysulfone	2
11	F-45N043	Indicator, Red	1



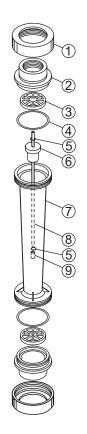
F-450NA Adjustable (Panel Mount)

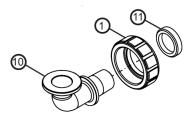
	Model No.	Product Name	Qty.
			Req.
1	F-44N41	3/8" Male NPT 90° Elbow, Polysulfone	1
	F-44N42	1/2" Male NPT 90° Elbow, Polysulfone	1
	F-44N21	3/4" Male NPT 90° Elbow, Polysulfone	1
2	F-44N06	3/4" Half Union, Nylon	1
3	F-4427A	3/8" and 1/2" Panel mount lock nut	1
	F-4428A	3/4" Panel mount lock nut	1
4	90003-082	O-ring seal, Viton	2
	90003-039	O-ring seal, EP	2
5	N/A	Meter body and Float (contact factory)	1
6	F-45N005	F-45375, F-45376, F-45500 Guide Rod, 316 SS	1
	F-45N021	F-45750 Guide Rod, 316 SS	1
7	F-45N019	Guide Rod holder, Polysulfone	2
8	F-45N031-1	3/8" M/NPT Needle Valve Assm. large, Poly, Viton Seals	1
	F-45N031-2	1/2" M/NPT Needle Valve Assm. large, Poly, Viton Seals	1
	F-45N031-3	3/4" M/NPT Needle Valve Assm. large, Poly, Viton Seals	1
9	90003-010	O-ring, Viton	2
	90003-597	O-ring, EP	2
10	90003-071	O-ring, Viton	1
	90003-018	O-ring, EP	1
11	F-45N043	Indicator, Red	1



F-451 Replacement Parts

Item	Model No.	Product Name	Qty. Req.
1	F-45038N	Union Nut	2
2	F-45030N	Adapter, vertical, 1" F/NPT (PSF)	2
	F-45036	Adapter, vertical, 1-1/2" M/NPT (PVC)	2
3	F-45025	Wireholder 1-10, 2-20 (PSF)	2
	F-45025-2	LG Wireholder 3-30, 4-40 (PSF)	2
4	2-136V	O-Ring 2-136 (Viton)	2
	2-136EB	O-Ring 2-136 (EP)	
5	2-006A	Float Stop .5-6, 1-10, 2-20 (Aflas)	2
	2-006E	Float Stop .5-6, 1-10, 2-20 (EP)	2
	2-008V	Large Float Stop, 3-30, 4-40 (Aflas)	2
	2-008E	Large Float Stop, 3-30, 4-40 (EP)	2
6	-	Float (SS) (contact factory)	1
7	-	Meterbody (PSF) (contact factory)	1
8	F-45028	Guide Wire, .5-6, 1-10, 2-20, (SS)	1
	F-45028-2	Guide Wire, 3-30, 4-40 (SS)	1
9	F-45046	Wireholder Bottom (PSF)	1
10	F-45031	1" Male NPT 90° Elbow, Polysulfone	2
11	F-45032	Panel Mount Lock Nut, PVC	2



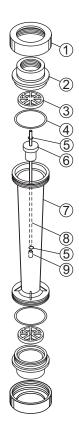


Panel Mount Elbow Option

F-452 Replacement Parts

Item	Model No.	Product Name	Qty. Req.
1	F-452004N	Union Nut (Nylon)	2
2	F-452330N	2.0" FNPT Adapter (PSF)	2
3	F-452002	Wireholder (PSF)	2
4	F-452043N	O-ring (Viton)	2
	F-452043NE	O-ring (EP)	2
5	2-108A	O-ring (Aflas)	2*
	2-108EB	O-ring (EP)	2*
6	-	Float (SS) (contact factory)	1
7	-	Meterbody (PSF) (contact factory)	1
8	F-452287N	Guide Wire (SS)	1
9	F-452332	Float Stop (Polyethylene)	2*

^{*} Actually Qty may depend on specific model.



<u>Index</u> <u>Website</u> <u>Product Page</u> <u>F-460 Specs</u>

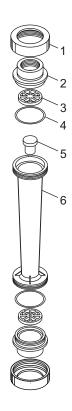
F-460 Replacement Parts

Item	Model No.	Product Name	Qty. Req.
1	76001-012	Union Nut (PVC)	2
	90007-158	Union Nut (ALUM)	2
2	76001-037	.50" FPT Adpapter (PVC)	2
	76001-004	.50" FPT Adapter (PVDF)	2
	76001-042	.75" FPT Adpapter (PVC)	2
	76000-982	.75" FPT Adapter (PVDF)	2
3	91001-146	Float Stop (PSF)	2
4	90003-023	O-ring (Viton)	2
	90003-022	O-ring, (EP)	2
5	-	Float (PTFE) (contact factory)	1
6	-	Body (PSF) (contact factory)	1



F-461 Replacement Parts

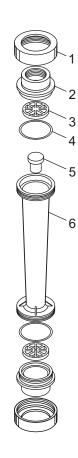
Item	Model No.	Product Name	Qty. Req.
1	76001-330	Union Nut (PVC)	2
	90007-640	Union Nut (ALUM)	2
2	76001-260	1.0" FPT Adpapter (PVC)	2
	76001-259	1.0" FPT Adapter (PVDF)	2
3	91001-159	Float Stop (PSF)	2
4	90003-134	O-ring (Viton)	2
	90003-138	O-ring (EP)	2
5	-	Float (PTFE) (contact factory)	1
6	-	Body (PSF) (contact factory)	1



<u>Index</u> <u>Website</u> <u>Product Page</u> <u>F-462 Specs</u>

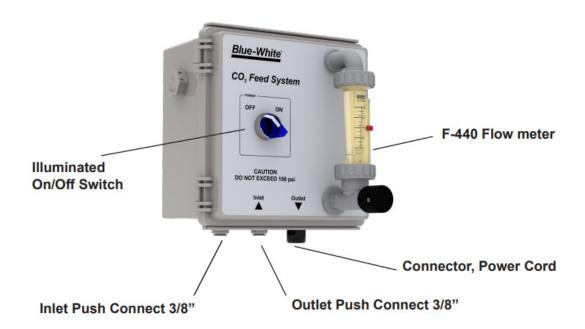
F-462 Replacement Parts

Item	Model No.	Product Name	Qty. Req.
1	F-452004N	Union Nut (Nylon)	2
2	F-452330N	2.0" Adapter FNPT (PSF)	2
3	F-452002	Float Stop (PSF)	2
4	F-452043N	O-Ring (Viton)	2
	F-452043NE	O-ring (EP)	2
5	-	Float (PTFE) (contact factory)	2
6	-	Meterbody (PSF) (contact factory)	1



CO₂ Feed System Replacement Parts

Item	Part No.	Description	Qty. Req.
1	90010-731	On/Off Switch, Illuminated	1
2	71010-935	F-440 Flow Meter	1
3	90018-022	3/8 in. Polyurethane Tubing	1
4	90018-010	Push Connector, Elbow	2
5	90010-733	Solenoid Valve, SS	1
6	90010-110	Power Cord, 6 ft	1
7	90008-035	Connector, Liquid Tight, Power Cord	1
8	90018-009	Push Connector, Inlet/Outlet	2



Notes:			

M	01001	
171	otes:	
	OLCS.	

Notes:			