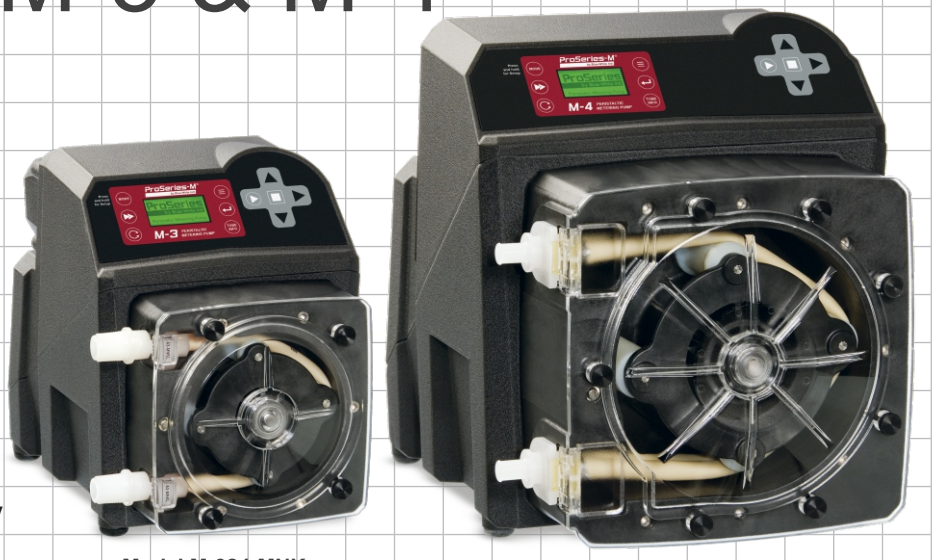
Blue-White®

FLEX-FLO M-3 & M-4

10,000:1 Turndown ratio
Tube Failure Detection
Revolution Count Display & Alarm
Brushless DC Motor
NEMA 4X (IP 66) Washdown
NSF Listed Std. 61
5 Year Warranty



Model M-324-MNK

Model M-424-BNL

Sold and serviced exclusively by highly skilled, factory authorized technicians.

TFD system Tube Failure Detection Patent No. 7,001,153 NSF CE ETL NEMA 4X

Patents: 4,496,295, 7,001,153, 8,418,364 and other patents pending

Applications:

- Municipal Water Treatment
- Municipal Wastewater Treatment
- Chemical Metering
- Chlorination
- Chloramination
- Fluoridation
- Polymer Injection
- Acid Injection
- Alum Injection
- PAC Injection
- Caustic Injection

Features:

- Peristaltic pump design does not have valves that can clog requiring maintenance.
- Self priming - even against maximum line pressure. By-pass valves are not required. Cannot vapor lock or lose prime.
- Output rates to: 158.5 GPH (600 LPH) and pressures to 125 PSI (8.6 Bar).
- 10,000:1 turndown ratio with high resolution motor speed adjustment.
- No maintenance brushless variable speed motor.
- Specially engineered tubing for long life at high pressures.
- Patented Tube Failure Detection (TFD) system. Senses tube failure by detecting chemical in the pump head. No false triggering from condensation or washdown.
- Control Inputs include: 4-20mA, 0-10Vdc, and Pulse inputs for remote external speed or batch control and 0-30 VDC / contact closure remote start/stop.
- Revolution count display with user programmable alarm set-point for tube maintenance.
- VGA Graphic multi-color backlit LCD displays remote/local control status, motor speed, output rate, input signal values, service and alarm status in three easy to see colors.
- Outputs include: Scalable 4-20mA or pulse, one 250V/6A relay and three 115V/1A contact closures assignable to monitor various pump functions including TFD, FVS, revolution counter, remote/local, forward/reverse, input signals, output signals, motor on, motor fault, operating mode setting, and others.
- Two molded squeeze rollers and two alignment rollers provide factory calibrated optimum squeeze for unparalleled accuracy and extra long tube life.
- Heavy duty rotor - single piece plastic rotor means no flexing and increased accuracy with no metal springs or hinges to corrode.
- Inject at maximum pressure in either direction (clockwise or counter clockwise).
- Compatible with Blue-White's output Flow Verification Sensor (FVS) system.

Engineering and Technical Data

Engineering Specifications:

Maximum working pressure (excluding pump tubes):
125 psig (8.6 bar)
Note: see individual pump tube assembly maximum pressure ratings.

Maximum Fluid temperature (excluding pump tubes):
185°F (85°C)
Note: see individual pump tube assembly maximum temperature ratings.

Ambient Operating Temperature
14°F to 115°F (-10°C to 46°C)

Ambient Storage Temperature
-40°F to 158°F (-40°C to 70°C)

Operating Voltage:
A3 MODELS:
115VAC/60Hz, 1ph (2.0 Amp Maximum)
230VAC/60Hz, 1ph (1.0 Amp Maximum)
220VAC/50Hz, 1ph (1.0 Amp Maximum)
240VAC/50Hz, 1ph (1.0 Amp Maximum)

A4 MODELS:
115VAC/60Hz, 1ph (3.1 Amp Maximum)
230VAC/60Hz, 1ph (1.6 Amp Maximum)
220VAC/50Hz, 1ph (1.6 Amp Maximum)
240VAC/50Hz, 1ph (1.6 Amp Maximum)

Power Cord Options:
115V60Hz = NEMA 5/15 (USA)
230V60Hz = NEMA 6/15 (USA)
220V50Hz = CEE 7/VII (EU)
240V50Hz = AS 3112 (Australia/New Zealand)

Enclosure:
NEMA 4X (IP66), Polyester powder coated aluminum.
Maximum Overall Dimensions:
M-3 models: 8-1/8"W x 10-3/4"H x 15-1/4"D (20.6W x 27.3H x 38.9D cm)
M-4 models: 12-1/8"W x 14-1/4"H x 18-5/8"D (30.8W x 36.1H x 47.3D cm)

Approximate shipping wt:
M-3 models: 33 lb. (15.0 Kg)
M-4 models: 58 lb. (26.3 Kg)

Motor:
Brushless DC, 1/4 H.P.

Motor speed adjustment range
10,000:1 (0.01% - 100% motor speed)

Motor speed adjustment resolution
0.1% increments > 10% motor speed
0.01% increments > 1% motor speed and < 10%
0.001% increments < 1% motor speed

Maximum viscosity
12,000 Centipoise

Maximum suction lift:
30 ft. Water, 0 psig (9.14 m, 0 bar)

Display
3 color VGA backlit LCD, UV resistant.

Display resolution
0.0 > 10% motor speed
0.00 > 1% motor speed and < 10%
0.000 < 1% motor speed

Display languages
English, Spanish, French or German selectable.

Keypad
Eleven button positive action tactile switch keypad.

Security
Programmable 4-digit password.

Materials of Construction:

Wetted components:

Pump Tube Assembly (Model Specific - 2 provided):
Tubing: . . . . . Flex-A-Prene®, Flex-A-Chem®, or Flex-A-Thane®
Adapter fittings: .PVDF

Recommended Ancillary Items Sold Separately:

Injection / Back-flow Check valve:
Body & insert: . . . . . PVDF
Check Ball: . . . . . Ceramic
Spring: . . . . . Hastelloy C-276
Ball Seat O-ring: . . . . . TFE/P (optional EP)
Static Seal O-ring: . . . . TFE/P (optional EP)

For "S" tubing type connections only:
(Available on M-3 only)
Suction Tubing: . . . . . 3/8" OD x 1/4" ID x 10' Clear PVC
Discharge Tubing: . . . . 3/8" OD x 1/4" ID x 10' Polyethylene (LLDPE)
Suction Strainer: . . . . . PVDF

For "B" barb tubing and "M" M/NPT connections only:
(Available on M-3 only) ND, NKL, NGG, NEE, G2G (and M-4 tubes only)
Suction Strainer:
Body: . . . . . PVDF
Check Ball: . . . . . Ceramic
Ball Seat O-ring: . . . . . TFE/P (optional EP)

For "C" Tri-clamp
(Available on ND, NKL, NGG, NEE, and G2G only)
Suction Strainer: . . . . . PVDF

For "Q" Quick Disconnect connections only:
(Available for all M-4 tubes)
Note: NP tubing receives 20% reduction in output when using Quick Disconnect fittings. Available in 3/8" OD x 1/4" ID (M-3 only), 1/2" hose barb and 1/2" M/NPT Male quick disconnect kits.

Non-Wetted components:

Enclosure:
413 Aluminum (Polyester powder coated)

Pump Head:
Valox® (PBT) thermoplastic

Pump Head Cover:
Polycarbonate for added strength and chemical resistance.
Permanently lubricated sealed motor shaft support ball bearing.

Cover Screws:
Stainless Steel

Roller Assembly:
Rotor:.....Valox® (PBT)
Rollers:.....PVDF/Nylon
Roller Bearings:.....SS Ball Bearings

Motor Shaft:
Chrome plated steel

TFD System Sensor pins:
Hastelloy C-276

Power Cord:
3 conductor, SJTW-A Water-resistant

Tube Installation Tool:
Glass Filled Nylon

Mounting Brackets and Hardware:

Engineering and Technical Data

Output Specifications:

Output Range			Max Speed	Max Pressure	Max Temperature	M-3 Model Numbers		
Flex-A-Prene® M-3 Tube Pumps								
Listed under NSF Std. 61 | Meets FDA criteria for food | Excellent chemical resistance | CIP | SIP								
GPH	**LPH**	**ML/MIN**	**RPM**	**PSI (bar)**	**F (C)**	**115V AC**	**230V AC**	**220V AC**
.0002 - 2.10	.0007 - 7.92	.0132 - 132	125	125 (8.6)	185 (85)	M-324-*ND	M-325-*ND	M-326-*ND
.0025 - 25.3	.0096 - 96.0	.1596 - 1596	125	125 (8.6)	185 (85)	M-324-*NJ	M-325-*NJ	M-326-*NJ
.0033 - 33.3	.0126 - 126	.2100 - 2100	125	125 (8.6)	185 (85)	M-324-*NK	M-325-*NK	M-326-*NK
.0033 - 33.3	.0126 - 126	.2100 - 2100	125	30 (2.1)	185 (85)	M-324-*NKL	M-325-*NKL	M-326-*NKL
Flex-A-Prene® M-3 Tube Pumps								
Listed under NSF Std. 61 | Meets FDA criteria for food | Excellent chemical resistance | Extra long life at low pressures								
GPH	**LPH**	**ML/MIN**	**RPM**	**PSI (bar)**	**F (C)**	**115V AC**	**230V AC**	**220V AC**
.0004 - 4.76	.0018 - 18.0	.03 - 300	125	110 (7.6)	185 (85)	M-324-*NEE	M-325-*NEE	M-326-*NEE
.0019 - 19.02	.0072 - 72.0	.12 - 1200	125	110 (7.6)	185 (85)	M-324-*NGG	M-325-*NGG	M-326-*NGG
Flex-A-Chem® M-3 Tube Pumps								
Listed under NSF Std. 61 | Meets FDA criteria for food | Superior chemical resistance								
GPH	**LPH**	**ML/MIN**	**RPM**	**PSI (bar)**	**F (C)**	**115V AC**	**230V AC**	**220V AC**
.0015 - 15.06	.0057 - 57.0	.0950 - 950	125	50 (3.4)	130 (54)	M-324-*TH	M-325-*TH	M-326-*TH
.0028 - 28.5	.0108 - 108	.18 - 1800	125	50 (3.4)	130 (54)	M-324-*TK	M-325-*TK	M-326-*TK
Flex-A-Thane® M-3 Tube Pumps								
Meets FDA criteria for food | Resistant to oils, greases and fuels								
GPH	**LPH**	**ML/MIN**	**RPM**	**PSI (bar)**	**F (C)**	**115V AC**	**230V AC**	**220V AC**
.0004 - 4.60	.0017 - 17.4	.0290 - 290	125	65 (4.5)	130 (54)	M-324-*GE	M-325-*GE	M-326-*GE
.0010 - 10.1	.0038 - 38.4	.0637 - 637	125	65 (4.5)	130 (54)	M-324-*GG	M-325-*GG	M-326-*GG
.0024 - 24.9	.0094 - 94.2	.1570 - 1570	125	65 (4.5)	130 (54)	M-324-*GH	M-325-*GH	M-326-*GH
.0028 - 28.5	.0108 - 108	.1800 - 1800	125	65 (4.5)	130 (54)	M-324-*GK	M-325-*GK	M-326-*GK
.002 - 18.23	.007 - 69.0	.115 - 1150	125	65 (4.5)	130 (54)	M-324-*G2G	M-325-*G2G	M-326-*G2G

Output Range			Max Speed	Max Pressure	Max Temperature	M-4 Model Numbers		
Flex-A-Prene® M-4 Tube Pumps								
Listed under NSF Std. 61 | Meets FDA criteria for food | Excellent chemical resistance | CIP | SIP								
GPH	**LPH**	**ML/MIN**	**RPM**	**PSI (bar)**	**F (C)**	**115V AC**	**230V AC**	**220V AC**
.0028 - 28.5	.0108 - 108	.180 - 1800	125	125 (8.6)	185 (85)	M-424-*NH	M-425-*NH	M-426-*NH
.0044 - 44.4	.0168 - 168	.280 - 2800	125	100 (6.9)	185 (85)	M-424-*NJ	M-425-*NJ	M-426-*NJ
.0054 - 54.4	.0204 - 204	.3400 - 3400	125	65 (4.5)	185 (85)	M-424-*NHHL	M-425-*NHHL	M-426-*NHHL
.0050 - 50.7	.0192 - 192	.320 - 3200	125	80 (5.5)	185 (85)	M-424-*NK	M-425-*NK	M-426-*NK
.0054 - 54.0	.0204 - 204	.340 - 3400	125	100 (6.9)	185 (85)	M-424-*NHH	M-425-*NHH	M-426-*NHH
.010 - 100.0	.0378 - 378	.630 - 6300	125	50 (3.4)	185 (85)	M-424-*NL	M-425-*NL	M-426-*NL
.015 - 158.5	.0600 - 600	1.00 - 10000	125	30 (2.1)	185 (85)	M-424-*NP**	M-425-*NP**	M-426-*NP**
Flex-A-Chem® M-4 Tube Pumps								
Listed under NSF Std. 61 | Meets FDA criteria for food | Superior chemical resistance								
GPH	**LPH**	**ML/MIN**	**RPM**	**PSI (bar)**	**F (C)**	**115V AC**	**230V AC**	**220V AC**
.0054 - 54.00	.0204 - 204	.3400 - 3400	125	30 (2.1)	130 (54)	M-424-*TK	M-425-*TK	M-426-*TK
.0126 - 126.0	.0477 - 477.0	.800 - 8000	125	30 (2.1)	130 (54)	M-424-*TKK	M-425-*TKK	M-426-*TKK
Flex-A-Thane® M-4 Tube Pumps								
Meets FDA criteria for food | Resistant to oils, greases and fuels								
GPH	**LPH**	**ML/MIN**	**RPM**	**PSI (bar)**	**F (C)**	**115V AC**	**230V AC**	**220V AC**
.0039 - 39.6	.0150 - 150	.250 - 2500	125	65 (4.5)	130 (54)	M-424-*GH	M-425-*GH	M-426-*GH
.0055 - 55.5	.0210 - 210	.350 - 3500	125	65 (4.5)	130 (54)	M-424-*GK	M-425-*GK	M-426-*GK
.010 - 100.0	.0378 - 378	.630 - 6300	125	65 (4.5)	130 (54)	M-424-*GKK	M-425-*GKK	M-426-*GKK

* Inlet/outlet connection types available: **S** = 3/8" OD x 1/4" ID flexible tubing with compression type connections (M-3 models only), **M** = 1/2"male NPT **B** = 1/2" ID tubing barb type connections (ND, NKL, NEE, NGG, G2G, and M-4 models only), **C** = 3/4" tri-clamp connections (ND, NKL, NEE, NGG, and G2G only), **Q** = Quick Disconnect (M-3 Models: ND, NKL, NEE, NGG, and G2G only, and M-4 single Flex-A-Prene® tube models only) **(Valves sold separately)**

**NP flow rate reduced 20% with Quick Disconnect connections.

Note: output volumes based on testing with water at 72 degrees F, 5 foot suction lift, atmospheric conditions at sea level.

Engineering and Technical Data

Chemical Resistance of Tubing:

Flex-A-Prene® Tubing

Meets FDA criteria for food | Excellent chemical resistance

Alcohol general	Citric Acid 50%	Hydrochloric acid 33%	Potassium hydroxide
Aluminum Sulfate (Alum)	Ethylene glycol	Hydrocyanic acid	Propylene glycol
Ammonium chloride	Ferric chloride	Hydrogen peroxide	Sodium hydroxide 50%
Ammonium hydroxide	Ferric nitrate	Hypochlorous acid	Sodium Bisulfite
Ammonium Sulfate (LAS)	Ferric sulfate	Iodine	Sodium Chlorite 12%
Benzyl alcohol	Ferrous chloride - 43% in water	Magnesium chloride	Sodium Hypochlorite 12.5%
Bleach	Ferrous sulfate	Magnesium sulfate	Sodium sulfide
Brine solutions	Fluosilicic Acid (up to 25%)	Phosphoric acid	Sulfuric acid up to 30%
Calcium Hydroxide 10% (Lime Slurry)	Formic acid	Plating solutions	Tannic acid
Calcium hypochlorite 20%	Glucose	Polyaluminum Chloride (PAC)	

Flex-A-Chem® - Ultra smooth plasticizer-free bore (inner liner)

Meets FDA criteria for food | Superior chemical resistance

Ferrous Chloride (up to 40%)	Phosphoric Acid (up to 85%)	Bases	Applications:
Fluoboric Acid (up to 48%)	Potassium Permanganate (up to 6%)	Salts	Ink and solvent production
Fluosilicic Acid (up to 25%)	Potassium Hypochlorite (up to 70%)	Ketones	Battery acid filling
Hydrofluoric Acid (up to 48%)	Sodium Phosphate (up to 30%)	Alcohols	Specialty chemical production / processing
Nitric Acid (up to 71%)	Sulfuric Acid (up to 98%)	Isobutyl Alcohol	Sensitive fluid transfer

Flex-A-Thane® Tubing

Meets FDA criteria for food | Resistant to oils, greases and fuels

Cyclohexane	Kerosene	Oils:	Oils:
Diesel Fuel	Lard	ASTM reference No.1,2,3	Linseed
Fatty acids	Mineral spirits	Castor	Lubricating
Gasoline	Soap solutions	Coconut	Mineral
Heptane	Turpentine	Fuel	
Hexane			

Pump Tube Assembly Output Specifications:

Model M-3 - Available Pump Tubes and Output Ranges

Tube Material	Tube Size	Max Output Pressure	Max Temp	Required Roller Part Number	Output Range		
Material	Code	PSI (bar)	F (C)		GPH	LPH	ML/Min
Flex-A-Prene	ND	125 (8.6)	185 (85)	A3-SND-R	.0002 - 2.10	.0007 - 7.92	.0132 - 132
Flex-A-Prene	NEE	110 (7.6)	185 (85)	A3-SNGG-R	.0004 - 4.76	.0018 - 18.0	.03 - 300
Flex-A-Prene	NGG	110 (7.6)	185 (85)	A3-SNGG-R	.0019 - 19.02	.0072 - 72.0	.12 - 1200
Flex-A-Prene	NJ	125 (8.6)	185 (85)	A3-SNGG-R	.0025 - 25.3	.0096 - 96.0	.1596 - 1596
Flex-A-Prene	NK	125 (8.6)	185 (85)	A3-SNGG-R	.0033 - 33.3	.0126 - 126	.2100 - 2100
Flex-A-Prene	NKL	30 (2.1)	185 (85)	A3-STH-R	.0033 - 33.3	.0126 - 126	.2100 - 2100
Flex-A-Chem	TH	50 (3.4)	130 (54)	A3-STH-R	.0015 - 15.06	.0057 - 57.0	.0950 - 950
Flex-A-Chem	TK	50 (3.4)	130 (54)	A3-SNGG-R	.0028 - 28.5	.0108 - 108	.18 - 1800
Flex-A-Thane	GE	65 (4.5)	130 (54)	A3-SGE-R	.0004 - 4.60	.0017 - 17.4	.0290 - 290
Flex-A-Thane	GG	65 (4.5)	130 (54)	A3-SGE-R	.0010 - 10.1	.0038 - 38.4	.0637 - 637
Flex-A-Thane	GH	65 (4.5)	130 (54)	A3-SGE-R	.0024 - 24.9	.0094 - 94.2	.1570 - 1570
Flex-A-Thane	GK	65 (4.5)	130 (54)	A3-SGE-R	.0028 - 28.5	.0108 - 108	.1800 - 1800
Flex-A-Thane	G2G	65 (4.5)	185 (85)	A3-SGE-R	.002 - 18.23	.007 - 69	.115 - 1150

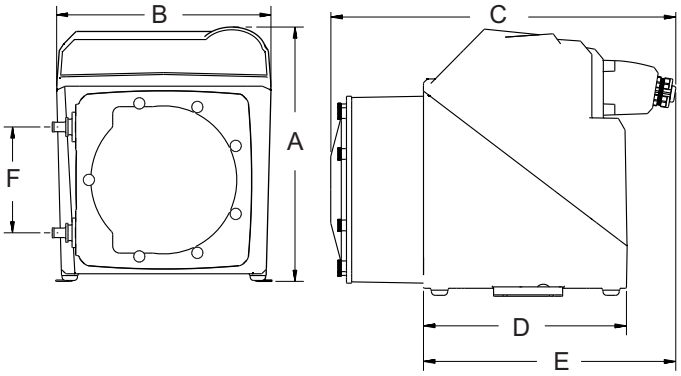
Model M-4 - Available Pump Tubes and Output Ranges

Tube Material	Tube Size	Max Output Pressure	Max Temp	Required Roller Part Number	Output Range		
Material	Code	PSI (bar)	F (C)		GPH	LPH	ML/Min
Flex-A-Prene	NH	125 (8.6)	185 (85)	A4-MNH-R	0028 - 28.5	0108 - 108	1800 - 1800
Flex-A-Prene	NJ	100 (6.9)	185 (85)	A4-MNH-R	. 0044 - 44.4	.0168 - 168	.2800 - 2800
Flex-A-Prene	NHHL	65 (4.5)	185 (85)	A4-MNH-R	.0054 - 54.0	.0204 - 204	.3400 - 3400
Flex-A-Prene	NK	80 (5.5)	185 (85)	A4-MNH-R	.0050 - 50.7	.0192 - 192	.3200 - 3200
Flex-A-Prene	NHH	100 (6.9)	185 (85)	A4-MNH-R	.0054 - 54.0	.0204 - 204	.3400 - 3400
Flex-A-Prene	NL	50 (3.4)	185 (85)	A4-MNL-R	.0100 - 100.0	.0378 - 378	.6300 - 6300
Flex-A-Prene	NP*	30 (2.1)	185 (85)	A4-MNL-R	.0158 - 158.5	.0600 - 600	1.00 - 10000
Flex-A-Chem	TK	30 (2.1)	130 (54)	A4-MTH-R	.0054 - 54.00	.0204 - 204	.3400 - 3400
Flex-A-Thane	GH	65 (4.5)	130 (54)	A4-MGH-R	.0039 - 39.6	.0150 - 150	.2500 - 2500
Flex-A-Thane	GK	65 (4.5)	130 (54)	A4-MGH-R	.0055 - 55.5	.0210 - 210	.3500 - 3500
Flex-A-Thane	GKK	65 (4.5)	130 (54)	A4-MGH-R	.0100 - 100.0	.0378 - 378	.6300 - 6300

*NP flow rate reduced 20% with Quick Disconnect connection.

Engineering and Technical Data

Dimensions:



Dim	M-3 Series		M-4 Series	
	Inches	cm	Inches	cm
A	10-3/4"	27.3	14-1/4"	36.1
B	8-1/8"	20.6	12-1/8"	30.8
C	15-1/4"	38.9	18-5/8"	47.3
D	10"	25.4	11"	27.9
E	12-1/4"	31.0	13-5/8"	34.6
F	4-1/4"	10.7	6"	15.2

Model Number Matrix:

M	**Flex-Pro® ProSeries-M® Model Number**
Maximum Output Range	
3	Flex-Pro M-3 maximum output 35.19 GPH(133.2 LPH)
4	Flex-Pro M-4 maximum output 158.5 GPH (600 LPH)
Maximum Motor Speed	
2	125 RPM (maximum rotor rotation speed)
Power Cord (operating voltage requirement 96VAC to 264VAC)	
4	115V / 60Hz, power cord NEMA 5/15 plug (US)
5	230V / 60Hz, power cord NEMA 6/15 plug (US)
6	220V / 50HZ, power cord CEE 7/VII plug (EU)
8	240V / 50HZ, power cord AS 3112 plug (Australia/New Zealand)
9	230V / 50HZ, power cord BS 1363 plug (UK)
X	No Power Cord
Inlet/Outlet Connection Size, Connection Type, Connection Material	
S	3/8" OD x 1/4" ID Tube Compression Fitting, Natural PVDF (Kynar), available for M-3 models only
M	½" Male NPT Fitting, Natural PVDF (Kynar), available for M-3 and M-4 models
B	½" ID Tubing Barb Fitting, Natural PVDF (Kynar), available for ND, NKL, NEE, NGG, G2G and M-4 models only
C	1/2" - 3/4" Tri-clamp connections, Natural PVDF (Kynar), available for ND, NKL, NEE, NGG, and G2G only
Q	Quick Disconnect, Natural PVDF (Kynar), M-3 models: ND, NKL, NEE, NGG, and G2G only, and M-4 single Flex-A-Prene® tube models only), NP flow rate reduced 20% with Quick Disconnect connections (**Valves sold separately**)
MB	½" Male BSPT Fitting, Natural PVDF (Kynar), available for M-3 and M-4 models

Pump Tube Material, Pump Tube Size				
ND	Flex-A-Prene® .075 ID, M-3 models only	**TK**	Flex-A-Chem® .375 ID
NH	Flex-A-Prene® .250 ID - M-4 models only	**TKK**	Flex-A-Chem® .375 ID (Dual Tube), M-4 models only
NHL	Flex-A-Prene® .250 ID (65 PSI max pressure - longer life) M-4 only	**GE**	Flex-A-Thane® .125 ID, M-3 models only
NHH	Flex-A-Prene® .250 ID (Dual Tube), M-4 models only	**GG**	Flex-A-Thane® .187 ID, M-3 models only
NJ	Flex-A-Prene®.312 ID	**GH**	Flex-A-Thane® .250 ID
NK	Flex-A-Prene® .375 ID	**GHH**	Flex-A-Thane® .250 ID (Dual Tube), M-4 models only
NKL	Flex-A-Prene® .375 ID (30 PSI max pressure - longer life)	**GK**	Flex-A-Thane® .375 ID
NL	Flex-A-Prene® .500 ID, M-4 models only	**GKK**	Flex-A-Thane®.375 ID (Dual Tube), M-4 models only
NP	Flex-A-Prene® .750 ID, M-4 models only	**NEE**	Flex-A-Prene® .093 ID (Dual Tube), M-3 models only
TH	Flex-A-Chem® .250 ID	**NGG**	Flex-A-Prene® .187 ID (Dual Tube), M-3 models only
NHHL	Flex-A-Prene® .250 ID (65 PSI max pressure - longer life)	**G2G**	Flex-A-Thane® .187 ID, M-3 models only

Options (leave this blank for standard model)	
R	Right facing pump head, input / output (Left facing fluid input / output is standard)
D	Down facing pump head, input / output (Left facing fluid input / output is standard)

M	**-**	**4**	**2**	**4**	**-**	**M**	**N**	**H**		**Sample Model Number**

Engineering and Technical Data

Features list:

Features
TFD (Tube Failure Detection) System Alarm
FVS (Flow Verification System) Alarm - Requires Micro-Flo Sensor (sold separately)
10,000:1 turndown reversible motor.
Three position pump head rotation
Tube Life revolution counter with user programmable alarm set-point.
Set maximum motor RPM limit.
Power interruption re-start options.
Four output contacts can be triggered by the status of the TFD system, FVS system, general alarm, rotor direction, motor run/stop, revolution count, motor fail, remote/local setting, input signal failure, output signal failure, and currently active operating mode.
Output: One, 6 amp alarm relay
Output: Three, dry contact or maximum 30VDC/115VAC 1 amp contact closures
Output: Programmable 4-20mA signal or high speed pulse, proportional to pump output
Input: One, contact closure (remote start / stop)
Input: Remote speed control via 4-20mA, 0-10VDC, high speed digital pulse, contact closure pulse
Remote/Local control settings
Password protection
Display: Motor speed, Tube life revolutions, Tube Failure Detection (TFD) system and Flow Verification System (FVS) alarm status
Display: Output in ml/min, oz/min, L/hr, Gal/hr, Gal/day, RPM, and input signal values
Automated PPM chemical dosing system
Available Operating Modes:
Manual (local): speed adjustment
Remote input: 4-20mA
Remote input: 0-10 VDC
Remote input: high speed frequency (pulse) input
Remote input: pulse triggered batch dispensing
Remote input: proportional PPM (parts per million) dosing with high speed frequency (pulse) input
Manual (local): batch dispensing
Manual (local): repeating cycle timer
Manual (local): fixed speed PPM (parts per million) dosing

Quick-Disconnect Valve Kits (Sold Separately)

For use with the Quick-Disconnect Flex-A-Prene Tube Assembly

3/8" OD, 1/4" ID Tubing		1/2" Hose Barb		1/2" M/NPT	
					
Part #	**O-ring**	**Part #**	**O-ring**	**Part #**	**O-ring**
KIT-QSV	FKM	KIT-QBV	FKM	KIT-QMV	FKM
KIT-QSE	EP	KIT-QBE	EP	KIT-QME	EP

Note: Quick-Disconnect valves are only available for M-2, M-3 and M-4 model pumps.



Color coded terminal block located within the single piece junction box.

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