







A2

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READ THE INSTRUCTION MANUAL PRIOR TO INSTALLATION AND USE.



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1.0 Introduction

Congratulations on purchasing Flex-Pro variable speed Peristaltic Metering Pump. A peristaltic pump is a type of positive displacement pump used for pumping a variety of fluids.

Your Flex-Pro pump is pre-configured for tubing that shipped with your metering pump. Tubing assembly has an Identification number printed on tube for easy re-order; such as ND, NEE, etc.

Please Note: Your new pump has been pressure tested at factory with clean water before shipping. You may notice trace amounts of clean water in pre-installed tube assembly. This is part of our stringent quality assurance program at Blue-White Industries.

1.1 Available Models

| Tube | | Feed Rate | | Max Pressure | Max Temperature | |
|--------------------|-------------|-------------|--------------|-----------------|--------------------|--|
| Material / Size – | GPH | LPH | mL/Min | PSI (bar) | °F (°C) | |
| Flex-A-Thane® Tube | | | | | | |
| GE | .04 - 4.0 | 15 - 15.2 | 3 - 253 | 65 (4.50) | 130 (54) | |
| GG | .09 - 9.3 | .35 - 35.2 | 6 - 587 | 65 (4.50) | 130 (54) | |
| G2G | .15 - 14.9 | .567 - 56.7 | 9.45 - 945 | 65 (4.50) | 130 (54) | |
| GH | .21 - 21.23 | .80 - 80.4 | 13.4 - 1340 | 65 (4.50) | 130 (54) | |
| Flex-A-Prene® Tube | | | | | | |
| ND | .02 - 1.7 | .07 - 6.5 | 1 - 108 | 125 (8.60) | 185 (85) | |
| NEE | .044 - 4.44 | .168 - 16.8 | 2.80 - 280 | 110 (7.60) | 185 (85) | |
| NGG | .172 - 17.2 | .651 - 65.1 | 10.85 - 1085 | 110 (7.60) | 185 (85) | |
| Flex-A-Chem® Tube | | | | | | |
| TH | .14 - 14.3 | .54 - 54 | 9.0 - 900 | 50 (3.45) | 130 (54) | |
| | | | | | | |

With "B" 1/2" hose barb type connections:

With "M" MNPT type connections:

• Suction strainer, PVDF with 1/2" Barb. (71000-825)

• Suction strainer, PVDF with 1/2" MNPT (71000-824)

Discharge injector "B", PVDF/Aflas with 1/2 psi check (7100-770)

Discharge injector "M", PVDF/Aflas with 1/2 psi check (7100-767)

No accessories with "C" Tri-clamp and "Q" Quick Disconnect

What's in the box

A2 Peristaltic Metering Pump Two tube assemblies (one installed, one spare) Tube installation tool Mounting hardware kit USB Drive (Operating manual)

With "S" 3/8" OD x 1/4" ID tubing compression type connections:

• Suction tube - clear PVC - 10 length (3/8 OD, 1/4 ID)

Suction strainer (C-342-6) and ceramic weight

• Discharge tube – opaque polyethylene – 10 (3/8 OD, 1/4 ID)

• Discharge injector "S", PVDF/Aflas, with 1/2 psi check (A-014NK-6A)

Optional Extended Brackets

Stainless Steel extended brackets allow pump to be securely mounted to most any surface; floor, shelf, or skid. Brackets lift pump up 4-1/2 inches (11.43 cm), for easy pump access in hard to reach areas.

■ Raise metering pump 4-1/2 inches (11.43 cm) off ground or a surface.

Made out of tough Stainless Steel.

Provides a stable mounting surface.

Model #Description72000-380Extended Mounting Bracket, 1 Pair, SS, 4 SS Screws



2.0 Specifications

| - | | | |
|------------------------------|--|--|--|
| Maximum Working Pressure | 125 psig (8.6 bar) | | |
| Maximum Fluid Temperature | 185 °F (85 °C) | | |
| Maximum Ambient Temperature | 14 °F to 115 °F/ -10 °C to 46 °C | | |
| Maximum Viscosity | 12,000 Centipoise | | |
| Maximum Suction Lift | 30 ft. Water at sea level (14.7 atm psi) | | |
| | 115VAC/60Hz, 1ph (1.5 Amp Maximum) | | |
| | 230VAC/60Hz, 1ph (0.7 Amp Maximum) | | |
| Operating Voltage | 220VAC/50Hz, 1ph (1.0 Amp Maximum) | | |
| | 240VAC/50Hz, 1ph (1.0 Amp Maximum) | | |
| | 230VAC/50Hz, 1ph (1.0 Amp Maximum) | | |
| | 115V60Hz = NEMA 5/15 (USA) | | |
| | 230V60Hz = NEMA 6/15 (USA) | | |
| Power Cord Options | 220V50Hz = CEE 7/VII (EU) | | |
| | 240V50Hz = AS 3112 (Australia/New Zealand) | | |
| | 230V50Hz = BS 1363/A (UK) | | |
| Motor | Brushed DC, 1/8 H.P. | | |
| Duty cycle | Continuous | | |
| Motor Speed Adjustment Range | 100:1, (1.0% – 100% motor speed) Max. rpm = 130 | | |
| Display | Backlit LCD, UV resistant | | |
| Keypad | Eight button positive action tactile switch keypad | | |
| Maximum Overall Dimensions | 7-1/2" W x 10-1/4" H x 14" D (19 W x 26 H x 35.6 D cm) | | |
| Product Weight | 28.4lb. (12.9 Kg) | | |
| Approximate Shipping Weight | 35 lb. (15.9 Kg) | | |
| Enclosure | NEMA 4X (IP66) | | |
| RoHS Compliant | Yes | | |
| Standards | cETLus, CE | | |
| | | | |

2.1 Materials of Construction

| Non-wetted Components: | Wetted Components: | | | |
|---|--|--|--|--|
| Enclosure: 413 Aluminum (Polyester powder coated) | Pump Tube Assembly: | | | |
| Pump Head: Valox [®] (PBT) thermoplastic | Tubing : Flex-A-Prene [®] , Flex-A-Chem [®] or Flex-A-Thane [®] | | | |
| Pump Head Cover: Polycarbonate | Adapter Fittings : PVDF | | | |
| Permanently lubricated sealed motor shaft support ball bearing. | Injection/Back-Flow Check Valve ("S", "B", and "M" only): | | | |
| Cover Screws: Stainless steel | Body & Insert: PVDF | | | |
| Roller Assembly: | Check Ball: Ceramic | | | |
| Rotor: Valox [®] (PBT) | Spring: Hastelloy C-276 | | | |
| Rollers: Nylon | Ball Seat O-Ring: TFE/P | | | |
| Roller Bearings: SS Ball Bearings | Static Seal O-Ring: FKM | | | |
| Motor Shaft: Chrome plated steel | Ancillary Items Provided: | | | |
| TFD System Sensor: Hastelloy C-276 | With "S" Tubing Type Only: | | | |
| Power Cord: 3 conductor, SJTW-A water-resistant | Suction Tubing: 3/8" OD x 1/4" ID x 10' Clear PVC | | | |
| Tube Installation Tool: GF Nylon | Discharge Tubing: 3/8" OD x 1/4" ID x 10' Polyethylene | | | |
| Mounting Brackets and Hardware: 316 Stainless steel | Suction Strainer: Polypropylene | | | |
| | With "B" Tubing and "M" M/NPT Connections Only: | | | |
| | Suction Strainer: PVDF | | | |

3.0 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.

Variable speed DC motor.

Rated for continuous duty (24X7).

Specially engineered tubing for long life at high pressures. Meets FDA 21 CFR requirements for food contact applications.

Patented Tube Failure Detection (TFD) system. Senses tube failure by detecting chemical in pump head.

Backlit LCD displays motor speed, input signal values, service and alarm status.

Precision molded squeeze alignment rollers for optimum squeeze, unparalleled accuracy, and 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 and counter clockwise).

Compatible with Blue-White's output Flow Verification Sensor (FVS) system.

3.1 Agency Listings



This pump is ETL listed to conforms to the following: UL Standard 778 as a motor operated water pump us CSA Standard C22.2 as process control equipment

This pump complies to the Machinery Directive 98/37/EC, BS EN 60204-1, Low Voltage Directive 73/23/EC BS EN 61010-1, EMC Directive 89/336/EC, BS EN 50081-1/BS EN 50082-1.

| Symbol | Explanation |
|--------|---------------------------------------|
| | WARNING, risk of electric shock |
| | CAUTION, refer to users' guide |
| | GROUND, PROTECTIVE CONDUCTOR TERMINAL |

Enclosure Rating:

- **NEMA 4X:** Constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, and hose-directed water; and that will be undamaged by external formation of ice on enclosure.
- **IP66:** No ingress of dust; complete protection against contact. Water projected in powerful jets against enclosure from any direction shall have no harmful effects.

4.0 Installation

| AUTION Risk of chemical overdose. Be certain pump does not overdose chemical during backwa and periods of no flow in circulation system. | | | | |
|---|--|--|--|--|
| Always wear protective clothing, face shield, safety glasses and gloves when working on or near your metering pump. Additional precautions should be taken depending on solution being pumped. Refer to MSDS precautions from your solution supplier. | | | | |
| All diagrams are strictly for guideline purposes only. Always consult an expert before installing metering pump on specialized systems. Metering pump should be serviced by qualified persons only. | | | | |

4.1 Mounting Location

Choose an area located near chemical supply tank, chemical injection point, and electrical supply. Install pump where it can be easily serviced.

316SS Mounting brackets are included. Mount pump to a secure surface using enclosed mounting hardware.

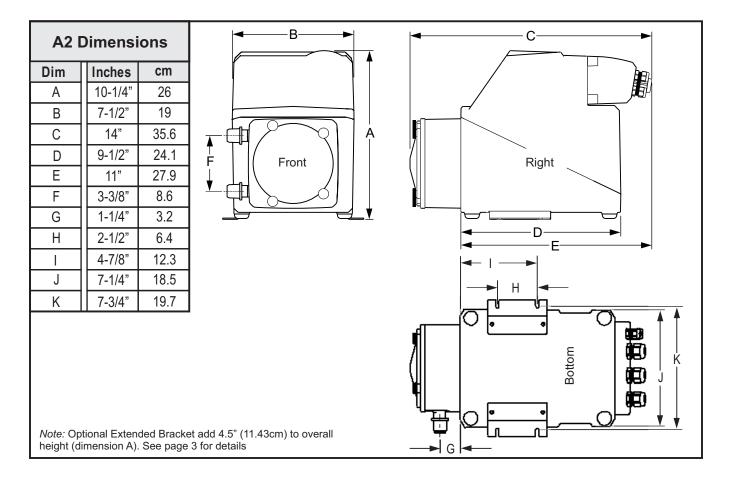
Mount pump close to injection point. Keep inlet (suction) and outlet (discharge) tubing as short as possible. Longer discharge tubing increases back pressure at pump head.

Important! Install a back flow prevention check valve at discharge side of pump to prevent system fluid from flowing back through pump during tube replacement or if tube should rupture. **Important!**

A pressure relief valve is recommended at discharge of pump to prevent premature wear and damage to pump tube in event discharge line becomes blocked.

Flex-Pro does not require back pressure. Keep discharge pressure as low as possible to maximize tube life.

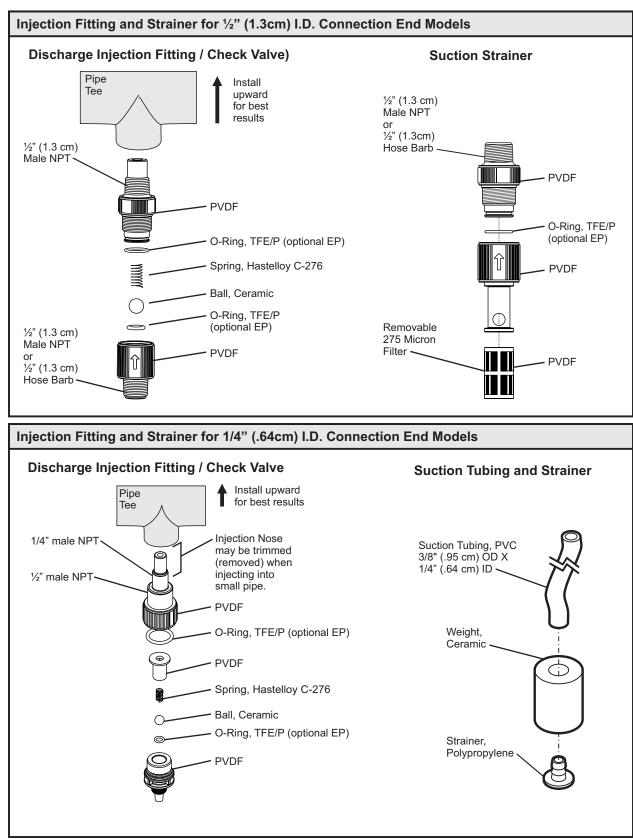
4.2 Dimensions



4.3 Installing Injection Fitting and Strainer

 CAUTION
 Proper eye and skin protection must be worn when installing and servicing pump.

 CAUTION
 This Pump Has Been Evaluated for Use with Water Only.



5.0 Power Connections

| WARNING | Risk of electric shock – cord connected models are supplied with a grounding conductor and grounding-type attachment plug. To reduce risk of electric shock, be certain that it is connected only to a properly grounded, grounding-type receptacle. |
|---------|--|
| WARNING | Electrical connections and grounding (earthing) must conform to local wiring codes. Be certain that a grounding conductor is connected to terminal T11-1 located in wiring compartment. |
| WARNING | Risk of electric shock - Disconnect electricity before removing wiring compartment cover. |

Be certain to connect pump to proper supply voltage. Using incorrect voltage will damage pump and may result in injury. Voltage requirement is printed on pump serial label.

Input power: 115VAC 50/60 Hz 1.5 amp or 230/240VAC 50/60 Hz 0.7 amp.

Power switch located in Junction Box.

Use voltage your power cord is rated for.

Cord connected models are supplied with a ground wire conductor and a grounding type attachment plug (power cord). To reduce risk of electric shock, be certain that power cord is connected only to a properly grounded, grounding type receptacle.

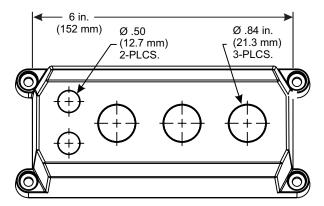
Permanently connected models must be properly grounded. Be certain that a grounding conductor is connected to terminal T11-1 located in wiring compartment.

Never strap control (input / output) cables and power cables together.

Power Interruption: This pump has an auto-restart feature which will restore pump to operating state it was in when power was lost.

Note: When in doubt regarding your electrical installation, contact a licensed electrician.

WIRING COMPARTMENT COVER



POWER CORD OPTIONS

Three power cord plug types available. Power cord length is 6 feet (3.83 meters)



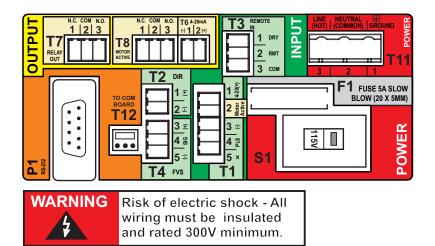
115V 60Hz NEMA 5/15 (USA) max: 125V AC 230V 60Hz 2 NEMA 6/15 (USA) C max: 250V AC n

240V 50Hz CEE 7/VII (EU) max: 250V AC

Included cable and conduit connectors:

| QTY. DESCRIPTION |
|---|
| Qty: 250 Inch (12.7 Mm) Liq-tight Hole Plugs (mat'l = Neoprene), Pre-installed |
| Qty: 3875 Inch (22.2 Mm) Liq-tight Hole Plugs (mat'l = Neoprene), 2 Pre-installed |
| Qty: 250 Inch (12.7 Mm) Liq-tight Connectors For Pass Thru Cords (mat'l = Nylon) |
| Acceptable Cable Diameter .12 To .26 Inch (3.0 To 6.5 Mm), Not Installed |
| Qty: 3875 Inch (22.2 Mm) Liq-tight Connectors For Pass Thru Cords (mat'l = Nylon) |
| Acceptable Cable Diameter .20 To .40 Inch (5.1 To =10.0 Mm), 1 Pre-installed W/ Power Cord Models |
| Qty: 2 - Metallic Lig-tight Connectors For .50 Inch Flexible Conduit (mat'l = Die Cast Zinc), Not Installed |
| |

5.1 A2F Wiring Terminals and I/O Schematics



| Terminal Block | Replacement # |
|----------------|---------------|
| 2 Positions | 90010-304 |
| 3 Positions | 90010-305 |
| 5 Positions | 90010-306 |





Terminals T1 Thru T8 Plug type 16 - 24 AWG Power Input Terminal T11 Plug type 14 - 30 AWG

Shielded cables should be used on all input signal wires.

| FUNCTION | TERM | PIN # | RATING | ELECTRICAL SP. | BLOCK DIAGRAM | | | |
|---------------------------------------|------|-------|--------------|----------------------------------|---|---|---|--|
| INPUT: FVS SYSTEM | T4 | 3 | (+) POSITIVE | | | | | |
| (FLOW VERIFICATION SENSOR) | T4 | 4 | SIGNAL | | FVS SENSOR BARE | | | |
| FV SENSOR ONLY | T4 | 5 | (-) NEGATIVE | | BLACK (-) T4 FVS | | | |
| INPUT: FVS SYSTEM | | | | | | BLUE-WHITE | SIGNAL SIGNAL PWR (+) | |
| (FLOW VERIFICATION SENSOR) | T4 | 4 | SIGNAL | | | MICRO-FLO FLOWMETER | 4 % SIGNAL 5 ∞ GND (-) | |
| FS or FP MICRO-FLO FLOW METER ONLY | T4 | 5 | (-) NEGATIVE | | | PULSE OUTPUT | NEGATIVE (-) T4 FVS | |
| INPUT: REMOTE START / STOP | Т3 | 1 | (+) POSITIVE | NO VOLTAGE | NOTE: USE | OPEN CIRCUIT IMPEDANCE MUST BE GREATER THAN | | |
| (DRY CONTACT C.) | Т3 | 2 | (-) NEGATIVE | | ONLY DRY CONTACT FOR | 50K OHM | (+) 2 RMT 3 COM | |
| INPUT: REMOTE START / STOP | Т3 | 2 | (+) POSITIVE | 6 TO 30 VOLT DC 1 AMP MAX. | REMOTE S/S WHEN USING 4-20mA INPUT | EXTERNAL DEVICE 6 TO 30V DC | (+) (-) T3 RMOTE 1 ORY 2 RMT 3 COM | |
| (WET CONTACT C.) | Т3 | 3 | (-) NEGATIVE | | | | | |
| OUTPUT: RELAY, 3 AMP | Т7 | 1 | NORM. CLOSED | Form C 3 AMP MAX AT | SWITCH LOAD | | | |
| (For use with TFD and FVS alarms) | Τ7 | 2 | COMMON | 250 VAC, 3 AMP MAX AT | 3 AMP MAX @ 250V AC 3 AMP MAX @ 30V DC | | | |
| and i vo alarnis) | Т7 | 3 | NORM. OPEN | 30 VOLT DC | | | | |
| INPUT: POWER | T11 | 1 | GROUND | 115V OR 230V AC MANUAL SWITCH | | | | |
| | T11 | 2 | NEUTRAL | 50 / 60 HZ 100W | 00W VOLTAGE SWITCH SWITCH | | | |
| | T11 | 3 | LINE (HOT) | | - - | | FROM SWITCH | |
| FUSE | F1 | N/A | 5 AMP | 5A SLOW BLOW (20 X 5MM) | | | | |

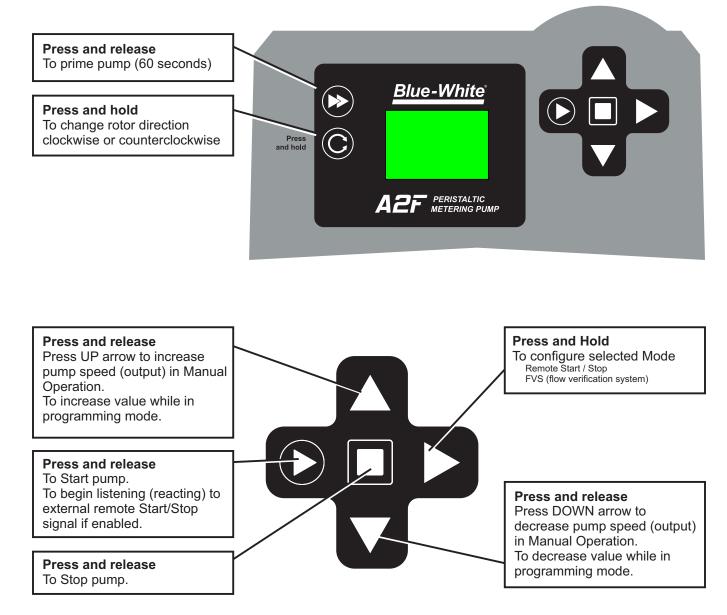
Note: T1, T2, T6 & T8 terminals not used.

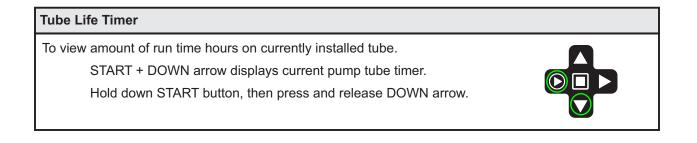
| 5.2 A2V Wiring Terminals and I/O Schematics | | | | | | | | | |
|--|--------|--------|-----------------------------|--|---|--|------------------------|-----------------------------|--|
| | | | | | | | | | |
| | | | | | | | 90010-304 | | |
| | | | | | | | 3 Positions | 90010-305 | |
| | | 11 ⊙ | | | FUSE 5A SLOW | | 5 Positions | 90010-306 | |
| | | | | | | nru T8 | Input Terminal T11 | | |
| WARNING | wiring | must | tric shock - be insulate | ed | | Plug type 16 - 24 AWG | Plug ty 14 - 30 | pe AWG | |
| | and ra | ted 30 | 00V minimu | m. Shie | elded cables s | hould be used or | n all input signa | l wires. | |
| FUNCTION | TERM | PIN # | RATING | ELECTRICAL SP. | | BLOCK DIA | GRAM | | |
| INPUT: 4-20 mA | T1 | 1 | (+) POSITIVE | 120 OHM IMPEDANCE, NON POWERED LOOP | Single or dual pump Loop voltage must be | a minimum of 15V, TRAN | E 4-20mA + | 1 4-20(+) 2 85 | |
| | T1 | 3 | (-) NEGATIVE | | and not exceed 24 Vo | onts. | SOURCE . | 3 ℑ GND (-) | |
| INPUT: FREQUENCY, AC SINE WAVE, TTL, | T1 | 3 | (-) NEGATIVE | 0-1000 HZ MAX. | FREQUENCY TRANSMITTER SOURCE | | ., | | |
| CMOS | T1 | 4 | (+) POSITIVE | | | | SE | | |
| INPUT: FVS SYSTEM | T4 | 3 | (+) POSITIVE | | | BLUE-WHITE | RED (+) | ● 3 € PWR (+) | |
| (FLOW VERIFICATION SENSOR) | T4 | 4 | SIGNAL | | | FVS SENSOR | BARE | 5 □ GND (-) | |
| FV SENSOR ONLY | Τ4 | 5 | (-) NEGATIVE | | | | BLACK (-) | T4 FVS | |
| INPUT: FVS SYSTEM | | | | - | | BLUE-WHITE | SIGNAL | 3 ≆ PWR (+) 4 ≋ SIGNAL | |
| (FLOW VERIFICATION SENSOR) FS or FP MICRO-FLO | T4 | 4 | SIGNAL | - | | | | 5 3 GND (-) | |
| FLOW METER ONLY | T4 | 5 | (-) NEGATIVE | | | | NEGATIVE (-) | 14 *** | |
| INPUT: REMOTE START / STOP (DRY CONTACT C.) | Т3 | 1 | (+) POSITIVE | NO VOLTAGE | NOTE: USE | OPEN CIRCUIT IMPEDANCE MUST BE GREATER THAN | | | |
| (DRY CONTACT C.) | Т3 | 2 | (-) NEGATIVE | | ONLY DRY CONTACT FOR | 50K OHM | (+) | | |
| INPUT: REMOTE START / STOP | Т3 | 2 | (+) POSITIVE | 6 TO 30 VOLT DC 1 AMP MAX. | REMOTE S/S WHEN USING 4-20mA INPUT | EXTERNAL DEVICE | (+)] | | |
| (WET CONTACT C.) | Т3 | 3 | (-) NEGATIVE | | | 6 TO 30V DC | | 2 RMT 3 COM | |
| OUTPUT: 4-20 mA | T6* | 2 | (+) POSITIVE | 120 OHM RESISTANCE ACTIVE LOOP | | 4-20mA RECEIVER | | 6 ⁴⁻²⁰ (-)1 2(+) | |
| | T6* | 1 | (-) NEGATIVE | | | 600 OHM LOAD MAX. | | | |
| OUTPUT: RELAY, 3 AMP | Τ7 | 1 | NORM. CLOSED | Form C 3 AMP MAX AT | | SWITCH LOAE | | | |
| (For use with TFD and FVS alarms) | Τ7 | 2 | COMMON | 250 VAC, 3 AMP MAX AT 30 VOLT DC | | 3 AMP MAX @ 250V AC 3 AMP MAX @ 30V DC | | | |
| OUTDUT | Τ7 | 3 | NORM. OPEN | | | 1 | | | |
| OUTPUT: OPEN COLLECTOR | T1 | 2 | SIGNAL | 5 TO 24 VDC | | | 4.7K OHM SIGNAL OUT | | |
| MOTOR ACTIVE | T1 | 3 | COMMON | | CLOSED WHILE MOTOR IS | | NEGATIVE (-) | | |
| OUTPUT: MOTOR ACTIVE | T8* | 1 | NORM. CLOSED | Form C 1 AMP MAX AT | ENERGIZED | | | | |
| (CONTACT CLOSURE) | T8* | 2 | COMMON | 125 VAC, 0.8 AMP MAX AT 30 VOLT DC | | SWITCH LOAD 1 AMP MAX @ 125V AC 0.8 AMP MAX @ 30V DC | | | |
| | T8* | 3 | NORM. OPEN | | | | | | |
| INPUT: POWER | T11 | 1 | GROUND | 115V OR 230V AC MANUAL SWITCH 50 / 60 HZ | WITCH AC VOLTAGE SWITCH | | | POWER | |
| | T11 | 2 | NEUTRAL | 100W | | | FROM | VOLTAGE SWITCH | |
| | T11 | 3 | LINE (HOT) | 5A SLOW BLOW | - - | 11 | 5V TO 230V | | |
| FUSE Note: T6 & T8 | F1 | N/A | 5 AMP | (20 X 5MM) | | nA output signal" | | | |

Note: T6 & T8 terminals only available in Models with option 3 "4-20mA output signal" T2 terminal not used.

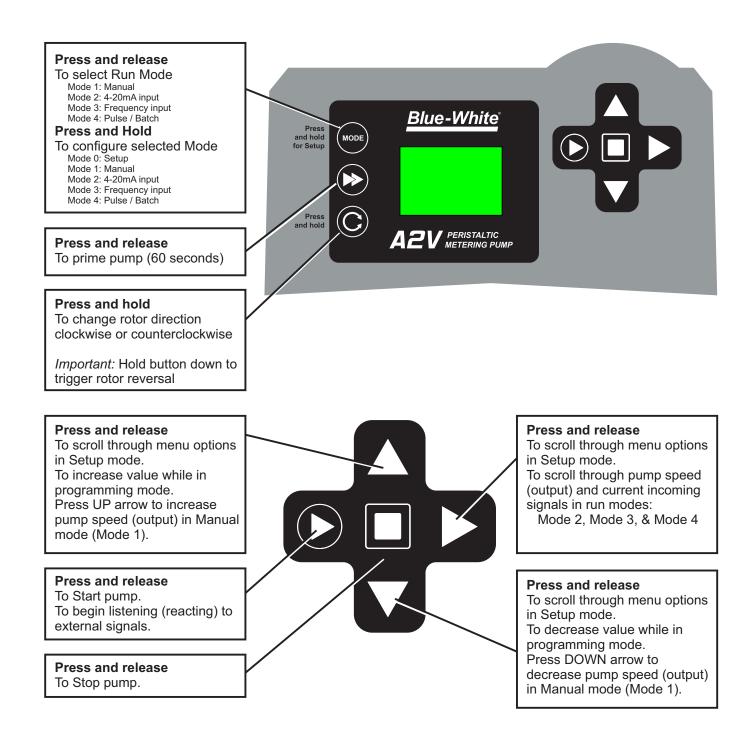
6.0 How to Operate the Flex-Pro - Control Pad

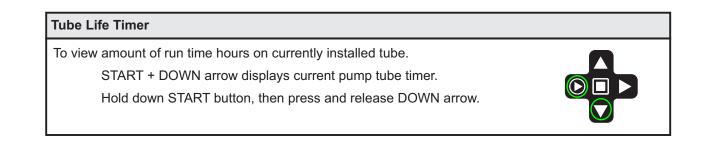
6.1 A2F Touch Pad Layout



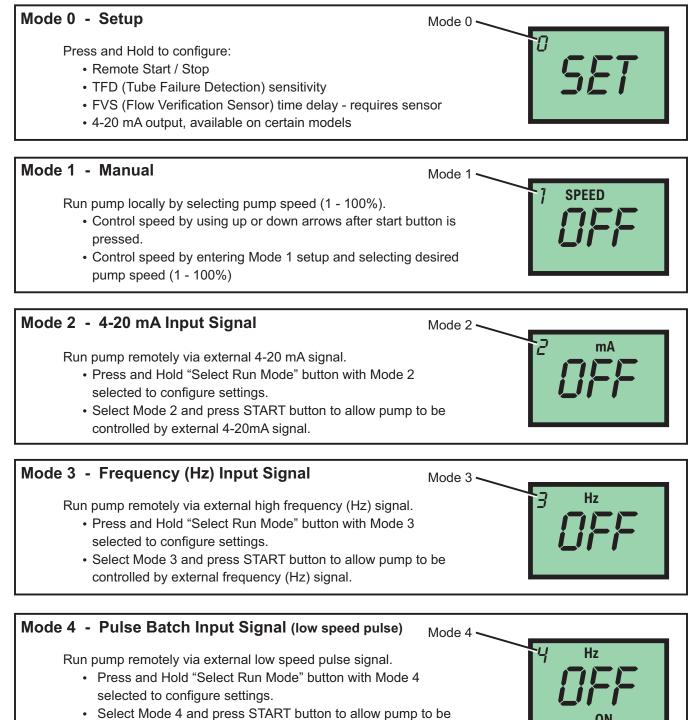


6.2 A2V Touch Pad Layout





6.3 Mode Descriptions



controlled by external low speed pulse signal.

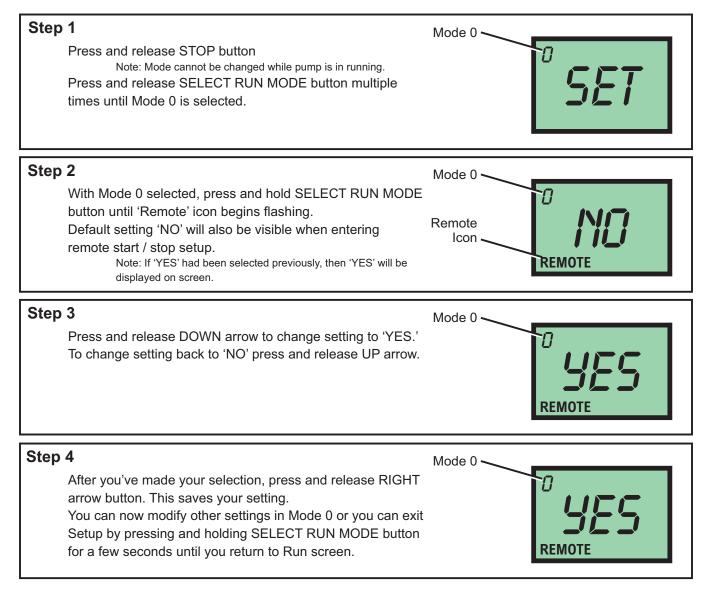
7.0 Mode 0 - Set Remote Start / Stop

Used to remotely start and stop pump using a dry contact closure signal. When activated; CLOSE = START and OPEN = STOP.

Set to NO = Remote Start / Stop is disabled Set to Yes = Remote Start / Stop is enabled

Can be used with external foot pedal, PLC, contact closure or other similar external devices.

Default setting = No (disabled)



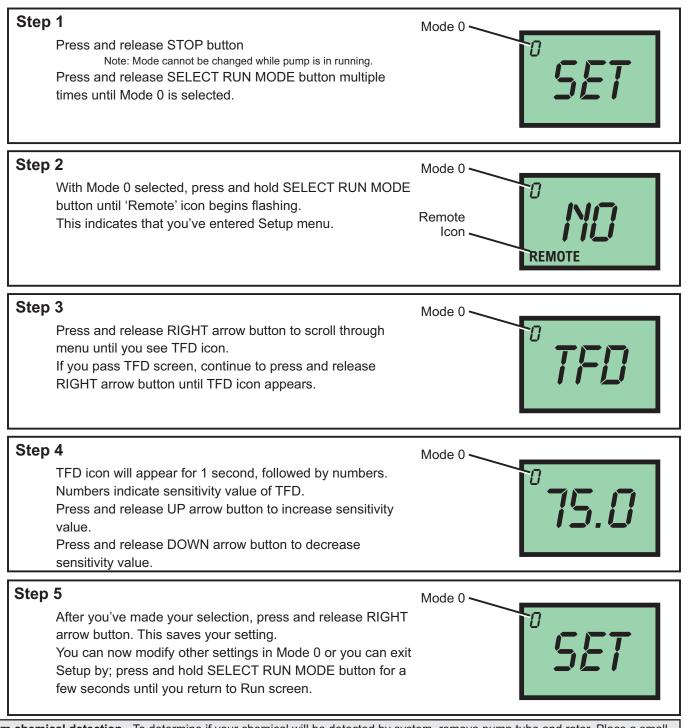
Running pump with Remote Start / Stop enabled, 'REMOTE' icon will always be visible on lower left side of screen. Pump will display 'STBY' (standby) if pump is in stop mode via contact closure signal. **Please use caution in this mode, pump can start at anytime. If you must perform maintenance to pump, press and release STOP button.**

7.1 Mode 0 - Set TFD Sensitivity

Flex-Pro pump is equipped with a Tube Failure Detection (TFD) system which is designed to stop pump in event pump tube should rupture and chemical enters pump head. This patented system is capable of detection presence of a large number of chemicals including Sodium Hypochlorite (chlorine), Hydrochloric (muriatic) Acid, Sodium Hydroxide, and many others.

Minimum and Maximum setting = 78 % to 100%

Default Setting = 78% (78% is recommended; triggers with most water treatment chemicals without false alarms) Important: 100% sensitivity setting may trigger false alarm by washdown or rain. 100% setting is only recommended when absolutely necessary.



Confirm chemical detection - To determine if your chemical will be detected by system, remove pump tube and rotor. Place a small amount of chemical in bottom of pump head - just enough to cover sensors. Turn on pump. If TFD system detects chemical, pump will stop after two seconds and TFD alarm screen will display. Press STOP button to clear alarm.

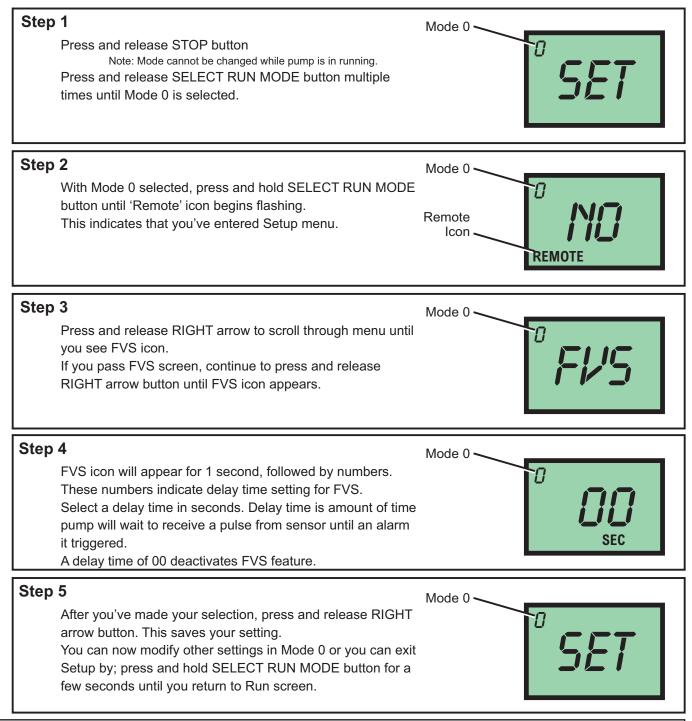
7.2 Mode 0 - Set FVS (flow verification system)

Flow verification sensor sold separately.

Flow verification system is designed to stop pump in an event sensor does not detect flow during pump operation. Indicating an empty chemical tank, clogged injection fitting, loose tubing connection, etc.

To allow pump to clear any gasses that may have accumulated over time, an alarm delay time value from 1 to 255 seconds must be programmed.

Note: An alarm delay of 000 seconds disables FVS system.



Time-out - Flex-Pro pumps have a time-out setting of 20 seconds while in configuration menus. If built-in timer exceeds 20 seconds without a button being pressed, then pump will exit configuration menu. Changes will only be saved after RIGHT arrow button is pressed and released.

7.2 Mode 0 - Set FVS (flow verification system) - Continued

Flow Verification Sensor is designed to give you two installation options.

Sensor can be installed:

- Directly on pumphead of A2 pump, suction side.
- Anywhere on suction side of A2 pump.

Wiring for sensor can be connected directly to an A2 pump. Pump will stop pumping if sensor detects no flow. A relay will then close allowing for remote alarm indication or initiation of a back-up injector pump. **Install FVS Flow Sensor -** Flow Verification Sensor should be installed on inlet (suction) side of pump tube. Sensor includes a PVC tubing insert, located inside sensors female thread connection, that is designed to seal sensor onto pump tube inlet adapter. Thread sensor onto pump tube until tubing insert is snug against pump tube inlet fitting - do not over-tighten.

| Sensor Model Number | Published Flow Range | Actual Working Range with Flex-Pro Pump | | |
|---------------------|----------------------|--|--|--|
| | ML/Min | ML/Min | | |
| FV-100 | 30-300 | 30-200 | | |
| FV-200 | 100-1000 | 50-900 | | |
| FV-300 | 200-2000 | 100-1800 | | |
| FV-400 | 300-3000 | 300-3000 | | |
| FV-500 | 500-5000 | 500-5000 | | |
| FV-600 | 700-7000 | 700-7000 | | |



Confirm FVS flow range - Flow Verification Sensor (FVS) will only function within its operating range. See chart for available ranges.

Example: Sensor model FV-100 has an operation range of 30-300 ml/min when used as a flowmeter. However, due to pressure drop across sensor, pump's suction capability is limited to 14.7 psi. When used as a Flow Verification Sensor with a peristaltic pump, effective operating range is reduced to 30-200 ml/min.

NOTE: If pump output is less than 30 ml/min, sensor will not detect chemical and a signal will not be sent to pump, resulting in an alarm condition.

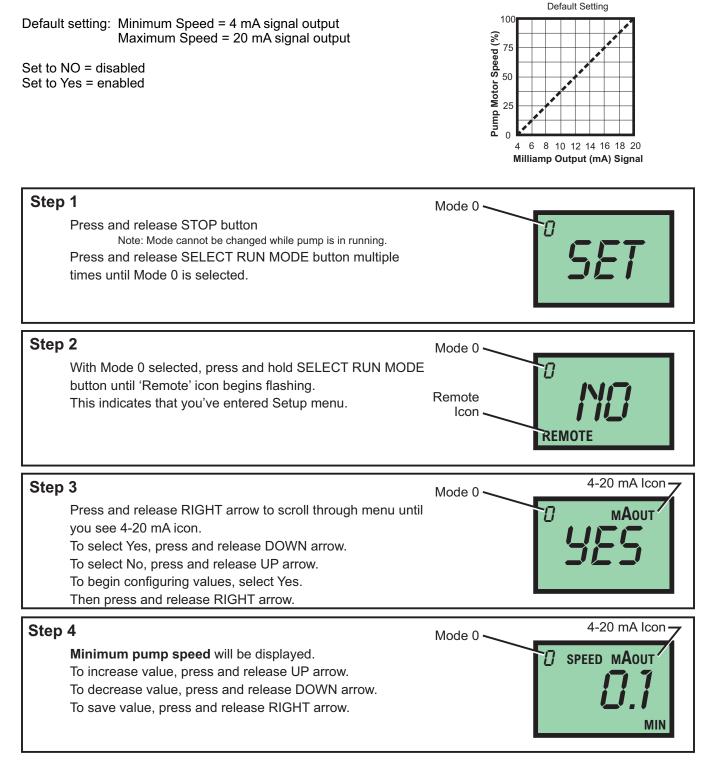


NOTE: For low viscosity (water-like) fluids only. Consult factory if attempting to use with viscous fluids.

7.3 Mode 0 - Set 4-20mA Output

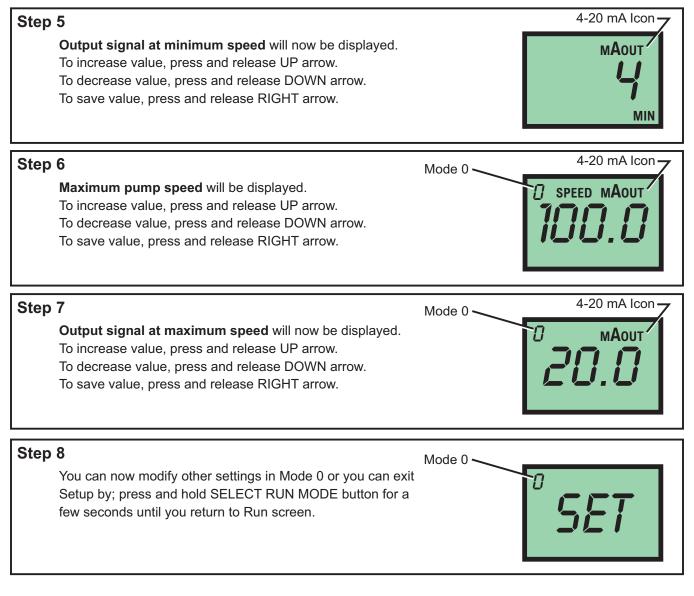
Available on certain models.

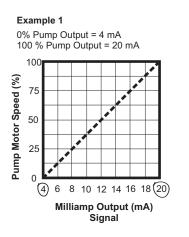
Sends a configurable 4-20 mA signal, based on pump rotor speed, to an external device. This feature can be used to control other pumps (in sync / proportionally), data logging systems, and other external devices for plant automation.

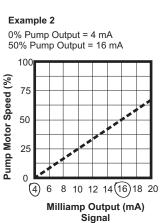


Time-out - Flex-Pro pumps have a time-out setting of 20 seconds while in configuration menus. If built-in timer exceeds 20 seconds without a button being pressed, then pump will exit configuration menu. Changes will only be saved after RIGHT arrow button is pressed and released.

7.3 Mode 0 - Set 4-20mA Output - Continued







8.0 Mode 1 - Manual Operation

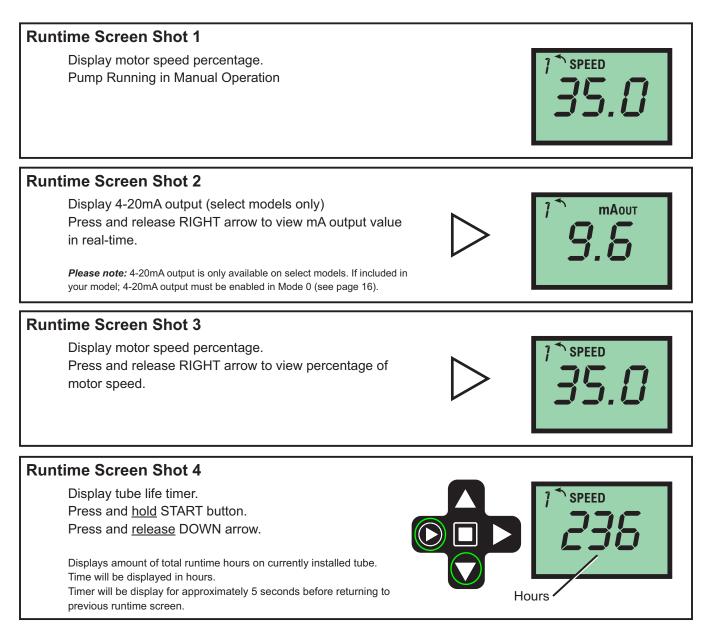
Used to manually control speed of pump.

Use UP and DOWN arrows to adjust speed while pump is running.

To select exact run speed, follow steps below.

| Step | Press and release STOP button Note: Mode cannot be changed while pump is in running. Press and release SELECT RUN MODE button multiple times until Mode 1 is selected. | Mode 1 |
|------|---|---------------------|
| Step | 2 With Mode 1 selected, press and hold SELECT RUN MODE button until 'Speed' icon begins flashing. This indicates that you've entered Setup menu. | Mode 1 7 SPEED 50.0 |
| Step | 3 | Mode 1 |
| | Current pump speed will be displayed. To increase value, press and release UP arrow. To decrease value, press and release DOWN arrow. To save value, press and hold SELECT RUN MODE button until 'Speed' icon stop flashing. | 7 SPEED 50.0 |

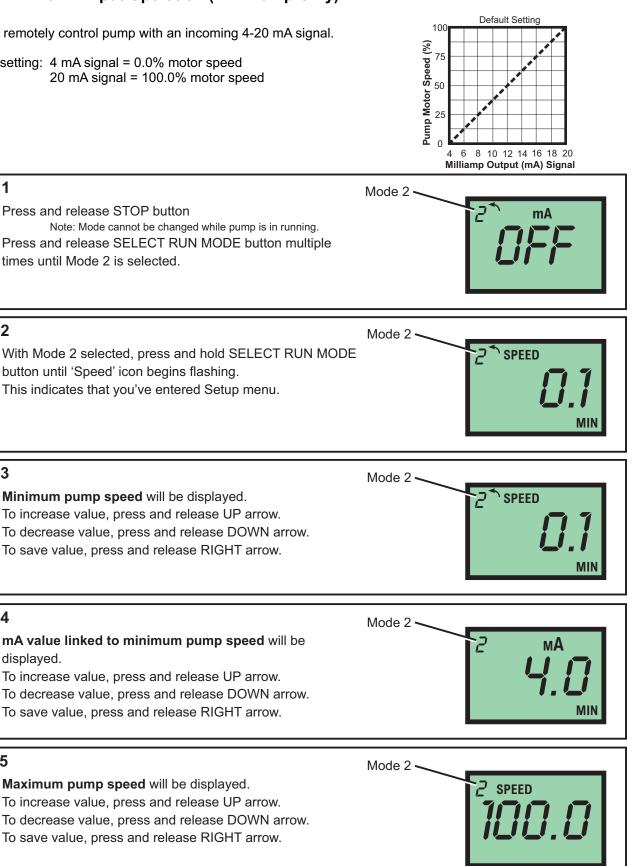
8.1 Mode 1 - Manual Operation Screen Shots



Mode 2 - 4-20mA Input Operation (A2V Pump Only) 9.0

Used to remotely control pump with an incoming 4-20 mA signal.

Default setting: 4 mA signal = 0.0% motor speed



Time-out - Flex-Pro pumps have a time-out setting of 20 seconds while in configuration menus. If built-in timer exceeds 20 seconds without a button being pressed, then pump will exit configuration menu. Changes will only be saved after RIGHT arrow button is pressed and released.

Step 1

Step 2

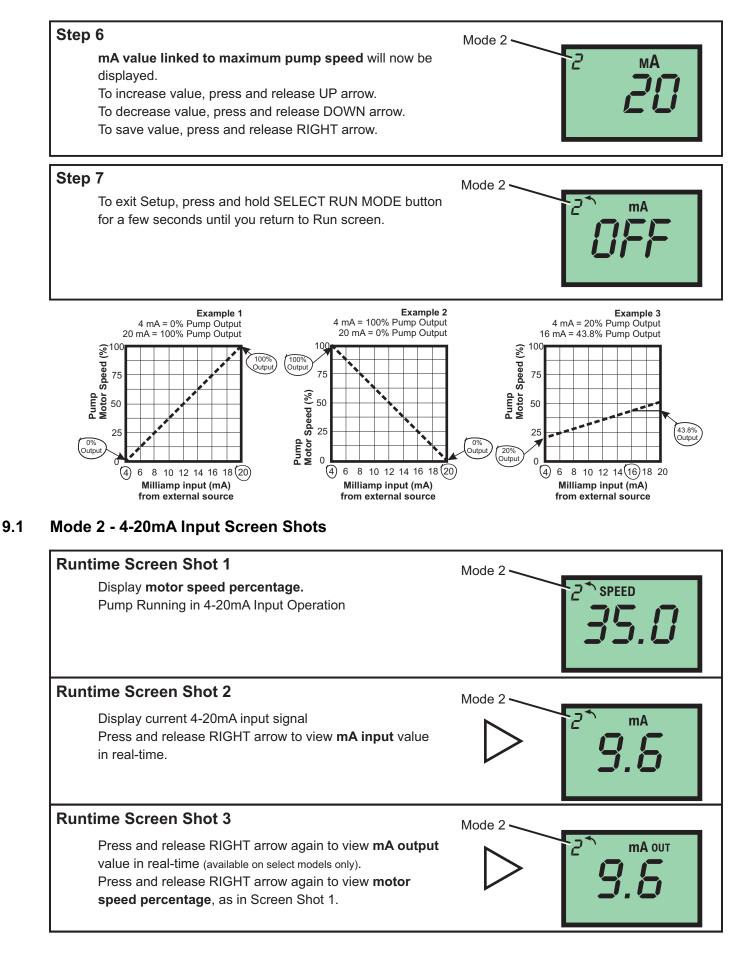
Step 3

Step 4

Step 5

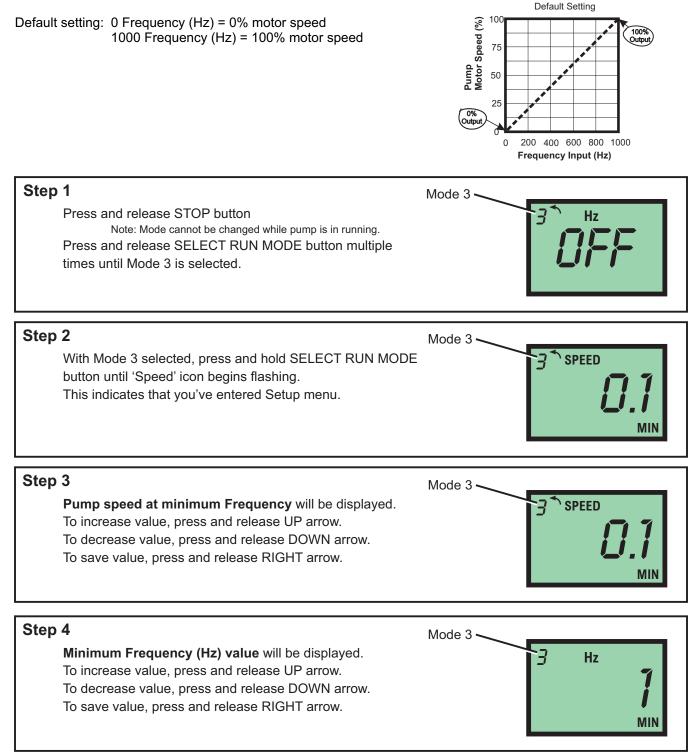
Page 25

9.0 Mode 2 - 4-20mA Input Operation (A2V Pump Only) - Continued



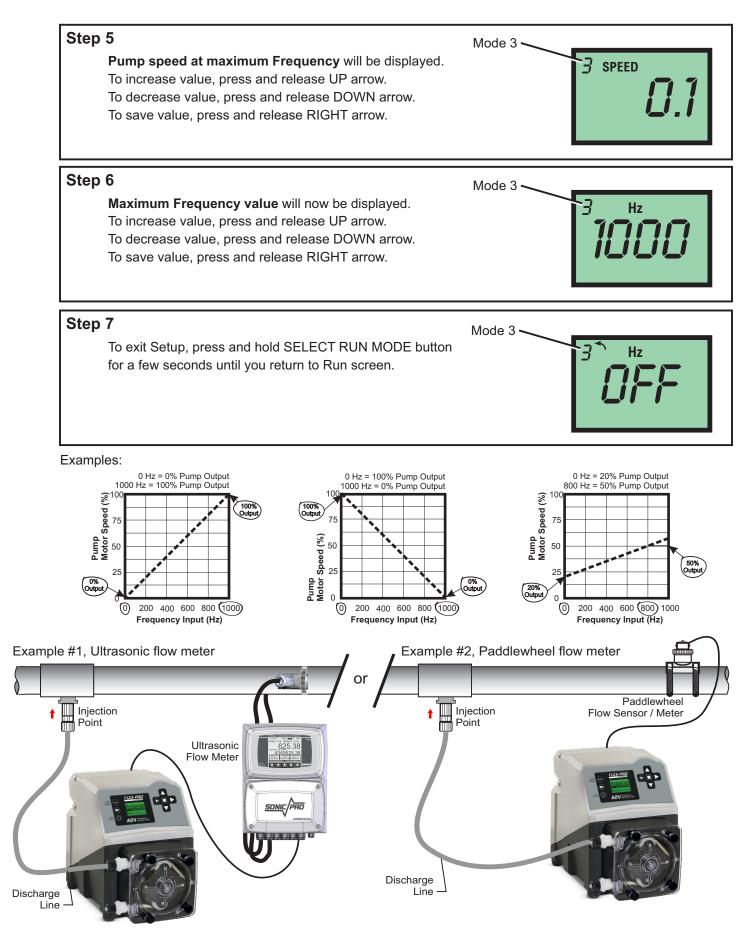
10.0 Mode 3 - Frequency Input (Hz) Operation (A2V Pump Only)

Used to remotely control pump with an incoming high speed frequency signal. Typically used with flow meters or other external devices.



Time-out - Flex-Pro pumps have a time-out setting of 20 seconds while in configuration menus. If built-in timer exceeds 20 seconds without a button being pressed, then pump will exit configuration menu. Changes will only be saved after RIGHT arrow button is pressed and released.

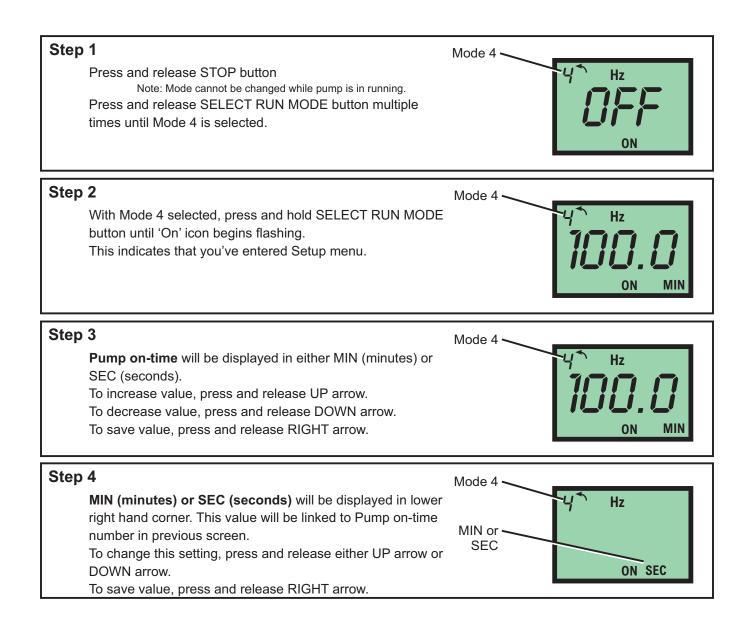
10.0 Mode 3 - Frequency Input (Hz) Operation (A2V Pump Only) - Continued



11.0 Mode 4 - Pulse Batch (low speed pulse) Operation (A2V Pump Only)

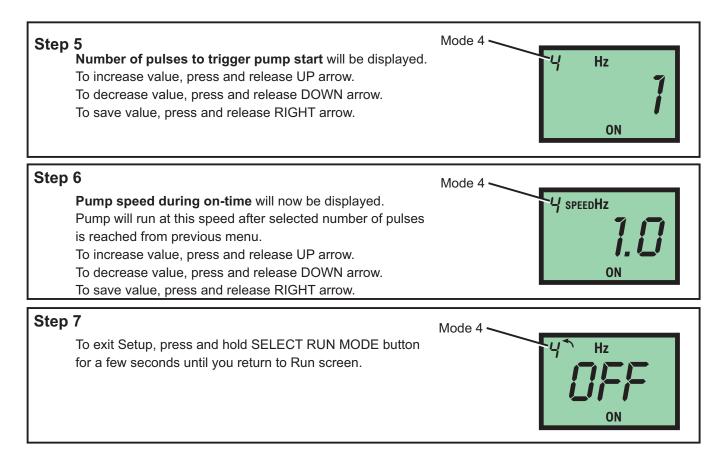
Used to remotely control pump with an incoming pulse signal. Can be used with an external foot pedal, a water meter, a PLC, contact closure, or other low speed pulse devices.

Default setting: 1 Pulse = 100% motor speed for 2.5 seconds

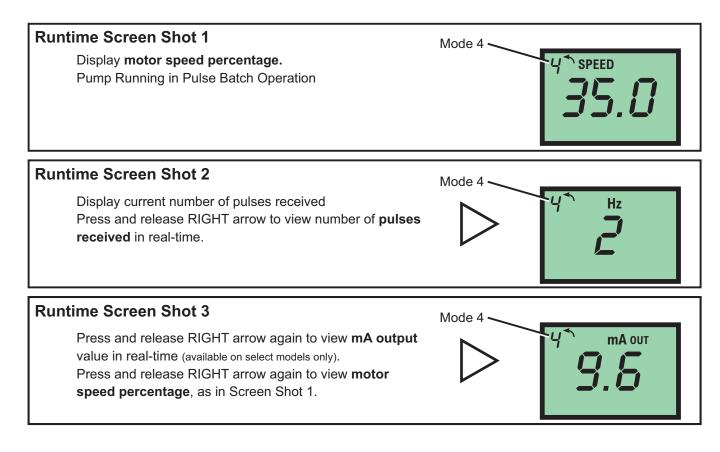


Time-out - Flex-Pro pumps have a time-out setting of 20 seconds while in configuration menus. If built-in timer exceeds 20 seconds without a button being pressed, then pump will exit configuration menu. Changes will only be saved after RIGHT arrow button is pressed and released.

11.0 Mode 4 - Pulse Batch (low speed pulse) Operation (A2V Pump Only) - Continued



11.1 Mode 4 - Pulse Batch Operation Screen Shots



12.0 Pump Tube Timer

Flex-Pro has a built in Pump Tube Timer. Timer starts when rotor is rotating and stops when rotor is idle.

To view current Pump Tube Timer value, press and hold START button, then press and release DOWN arrow.

Tube Timer screen will appear. Screen will display current Pump Tube Time in run-time hours. Tube Timer screen will display for 4 seconds and then switch back to previous operating display screen.

While displayed, press START button twice to reset Pump Tube Timer to zero.

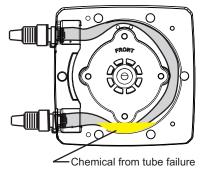
When replacing pump tube, pump will ask you if you'd like to reset Pump Tube Timer. If you choose YES, screen will display current Pump Tube Time for 5 seconds before timer is reset to zero.

Tube Life Timer Display tube life timer. Press and hold START button. Press and release DOWN arrow. Displays amount of total runtime hours on currently installed tube. Time will be displayed in hours. Timer will be display for approximately 4 seconds before returning to previous runtime screen.

13.0 TFD (Tube Failure Detection)

Flex-Pro is equipped with a *Tube Failure Detection* System which is designed to stop pump and provide an output alarm in event pump tube should rupture and chemical enters pump head. Pump will detect a chemical with a conductivity reading greater than 500 microsiemens. Chemicals with a conductivity of less than 500 microsiemens will not be detected.

This patented system is capable of detecting presence of a large number of chemicals including Sodium Hypochlorite (Chlorine), Hydrochloric (muriatic) Acid, Sodium Hydroxide, and many others. System will not be triggered by water (rain, condensation, etc.) or silicone oil (roller and tubing lubricant).



If system has detected chemical, pump tube must be replaced and pump head and roller assembly must be thoroughly cleaned. Failure to clean roller assembly will void warranty.

If TFD alarm occurs, pump will stop, close an alarm output, and screen will flash TFD with an alarm icon.

Confirm Chemical Detection

To determine if your chemical will be detected by system, remove pump head cover and pump tube and roller assembly.

Place a small amount of chemical in bottom of pump head - just enough to cover sensors. Replace pump head cover only.

Turn on pump (press START). If TFD system detects chemical, pump will stop after a two second confirmation period and TFD Alarm screen will display. If TFD system does not detect chemical, pump will continue to run after confirmation period.

Carefully clean chemical out of pump head being sure to remove all traces of chemical from sensor probes. Replace roller assembly and tubing. Replace pump head cover. Press START button to clear alarm condition and restart pump.

14.0 Alarm Relay

Pump has a built in 3 amp alarm output relay. Relay is pre-configured to energize on tube failure detection (TFD) and on Flow Verification Sensor (FVS).

A Flow Verification Sensor must be installed and configured for relay to trigger on no-flow conditions.

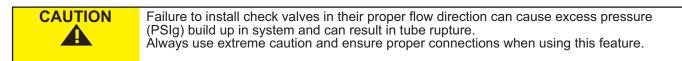
15.0 Reverse Rotor Rotation

| Prior to service, pump clean water through pump and suction / discharge line to remove chemical. |
|---|
| Always wear protective clothing, face shield, safety glasses and gloves when working on or near your metering pump. Additional precautions should be taken depending on solution being pumped. Refer to MSDS precautions from your solution supplier. |

Reverse rotation of pump; press and hold REVERSE ROTATION button until rotor begins rotating in opposite direction. This process can be used for many reasons throughout various industries.

Two reasons for reversing current rotor rotation; to purge chemical from tubing and to extend tube life.

Plan ahead before reversing rotor rotation. If check valves are installed, make necessary arrangements to allow back flow.



If your desire is to simply extend tube life:

Typically tubing fails on outlet side (pressure side) of tube assembly in pump head.

Reversing rotation, moves outlet side (pressure side) to opposite side of tube assembly, greatly increasing tube life.

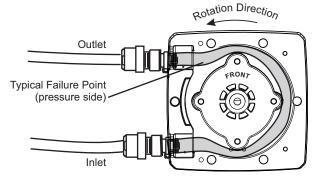
Stop pump before tube failure occurs.

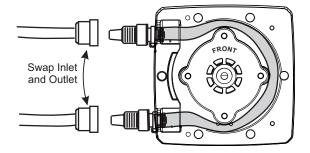


Disconnect power from pump. Carefully purge any pressure in discharge line of pump. Disconnect suction end tubing and discharge end tubing from pump head tubing.

IMPORTANT! Swap sides of suction (inlet) and discharge (outlet) tubing. No need to remove Pump Head Cover.

Double check all connections before starting pump.

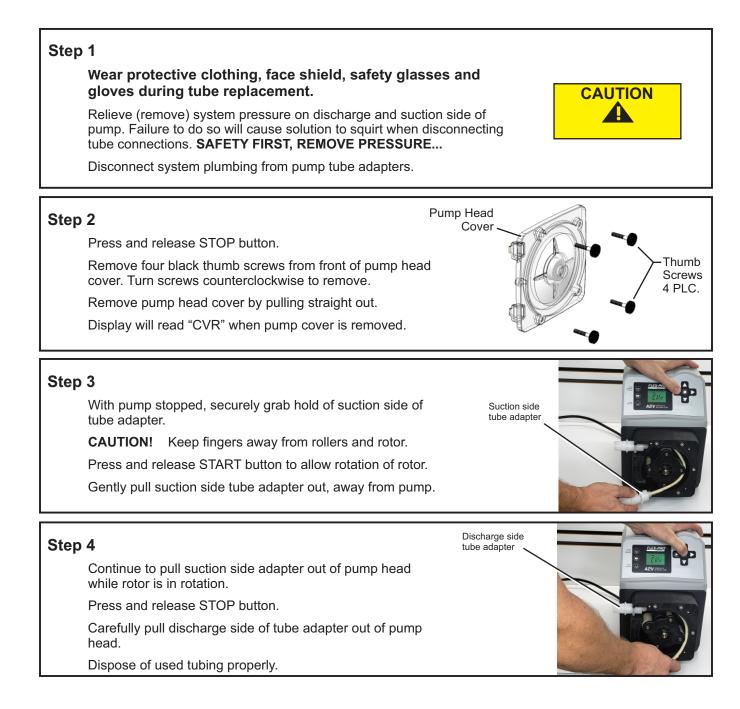




16.0 Tube Replacement

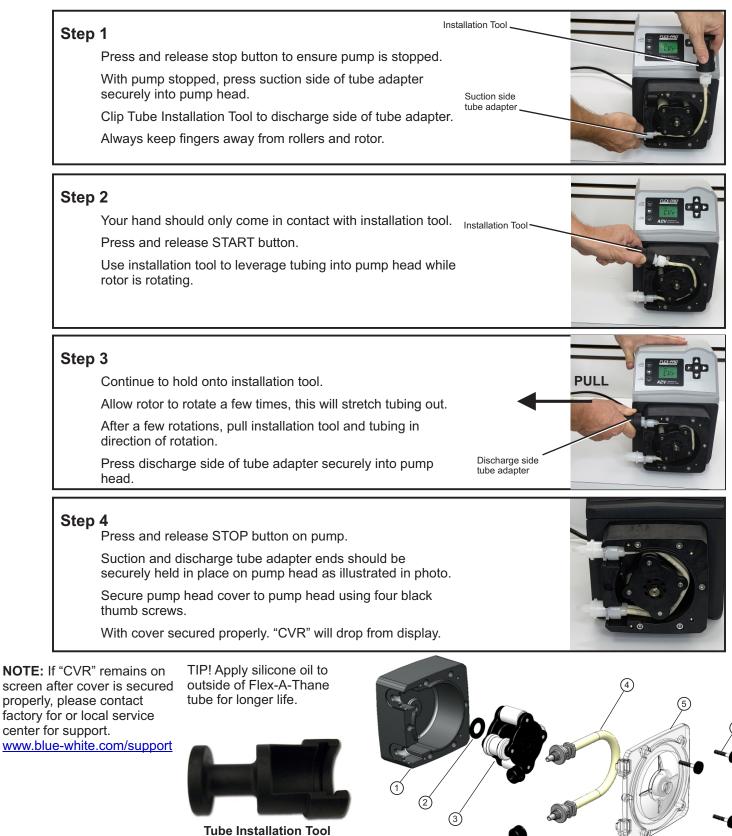
| Prior to service, pump clean water through pump and suction / discharge line to remove chemical. |
|---|
| Always wear protective clothing, face shield, safety glasses and gloves when working on or near your metering pump. Additional precautions should be taken depending on solution being pumped. Refer to MSDS precautions from your solution supplier. |
| Use provided Tube Installation Tool to leverage tubing into pump head, <u>NOT YOUR</u> <u>FINGERS</u> . |
| Use extreme caution when replacing pump tube. <u>DO NOT place fingers near rollers</u> . |

16.1 Cover "CVR" and Tube Removal



16.2 Tube Installation

Before you begin. Thoroughly clean Pump Head and Rotor. Rotor can be removed by pulling straight out. After cleaning process, push Rotor back on shaft. See drawing below for proper assembly. IMPORTANT! Rotor direction; word "FRONT" on Rotor must face forward (front of pump).



17.0 Pump Maintenance

| CAUTION | |
|---------|--|
| | |
| | |

Always wear protective clothing, face shield, safety glasses and gloves when working on or near your metering pump. Additional precautions should be taken depending on solution being pumped. Refer to MSDS precautions from your solution supplier.

Routine Inspection and Maintenance

Pump requires very little maintenance. However, pump and all accessories should be checked weekly. This is especially important when pumping chemicals. Inspect all components for signs of leaking, swelling, cracking, discoloration or corrosion. Replace worn or damaged components immediately.

Cracking, crazing, discoloration during first week of operation are signs of severe chemical attack. If this occurs, immediately remove chemical from pump. Determine which parts are being attacked and replace them with parts that have been manufactured using more suitable materials. Manufacturer does not assume responsibility for damage to pump that has been caused by chemical attack.

How to Clean and Lubricate Pump

Pump will require occasional cleaning. Amount will depend on severity of service.

When changing pump tube assembly, pump head chamber, roller assembly and pump head cover should be wiped free of any dirt and debris.

When changing pump tube assembly, wipe motor shaft with clean towel. Apply a small amount of grease to shaft. This will help prevent possibility of rotor sticking to motor shaft.

Although not necessary, 100% silicone lubrication may be used on roller assembly.

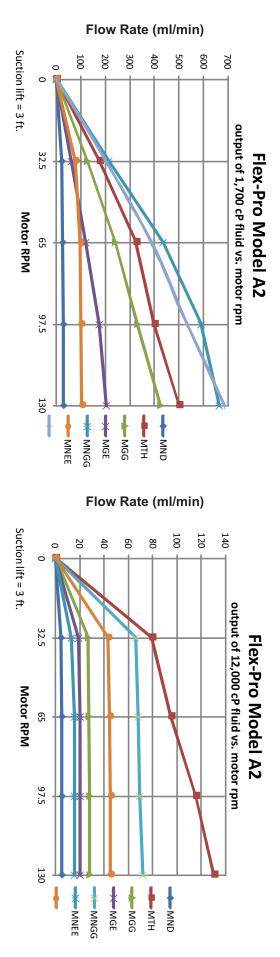
Periodically clean injection/check valve assembly, especially when injecting fluids that calcify such as sodium hypochlorite. These lime deposits and other build ups can clog fitting, increase back pressure and interfere with check valve operation.

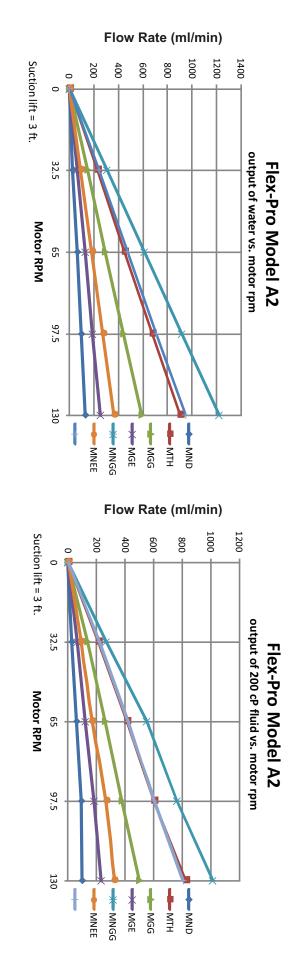
Periodically clean suction strainer.

Additional information on tube replacement and pump maintenance can be found by visiting our videos at The Blue-White Academy. <u>2 Series Tube Replacement and Maintenance</u>.



18.0 Output Versus Fluid Viscosity

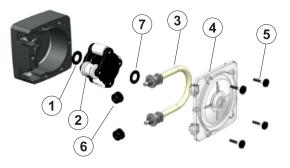




19.0 A2 Replacement Parts List

A2/M2 Replacement Parts

| Pun | np 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 | |
| | ТН | 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 |



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

*Tube nuts for 'S' type tubing only

| Quio | k 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 | |
| - *Onlv av | vailable for O tubes | | |

*Only available for Q 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 | 4 |
| D | Tube Installation Tool | 90002-278 | 1 |

*Sold Separately





 (\mathbf{B})





C

19.1 Tube Matrix

| S | 3/8" OD x 1/4" ID Tube Compression Fitting, Natural PVDF (Kynar) | | | | | | | |
|----|--|----------|-----------------------------------|--|--|--|--|--|
| М | 1/2" Male NPT Fitting, Natural PVDF (Kynar) | | | | | | | |
| В | 1/2" Hose Barb, Natural PVDF (Kynar), available for ND, NEE, NGG, and | nd G2G c | nly | | | | | |
| С | 1/2" - 3/4" Tri-clamp connections, Natural PVDF (Kynar), available for N | ID, NEE, | NGG, and G2G only | | | | | |
| Q | Quick Disconnect, Natural PVDF (Kynar), available for ND, NEE, NGG, | and G2C | G only (valves sold seperately) | | | | | |
| МВ | 1/2" Male BSPT Fitting, Natural PVDF (Kynar) | | | | | | | |
| | Pump Tube Material, Pump Tube Size | | | | | | | |
| | GE Flex-A-Thane [®] .125 ID | ND | Flex-A-Prene [®] .075 ID | | | | | |
| | GG Flex-A-Thane [®] .187 ID | NEE | Flex-A-Prene [®] .093 ID | | | | | |
| | G2G Flex-A-Thane® .187 ID (dual tube) NGG Flex-A-Prene® .187 ID | | | | | | | |
| | GH Flex-A-Thane [®] .312 ID TH Flex-A-Chem [®] .250 ID | | | | | | | |

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) |
| | | | | | |

20.0 WARRANTY

20.1 LIMITED WARRANTY

Your new FLEXFLO pump is a quality product and is warrantied for 24 months from date of purchase (proof of purchase is required). The pump 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 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.

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.

20.2 WHAT IS NOT COVERED

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

20.3 PROCEDURE FOR IN WARRANTY REPAIR

Contact the factory to obtain a RMA (Return Material Authorization) number. Carefully pack the pump to be repaired. It is recommended to include foot strainer and injection/check valve fitting since these devices may be clogged and part of the problem. Please enclose a brief description of the problem as well as the original invoice or sales receipt, or copy showing the date of purchase. Prepay all shipping costs. COD shipments will not be accepted. Warranty service must be performed by the factory or an authorized service center. Damage caused by improper packaging is the responsibility of the sender. When In-Warranty repair or replacement is completed, the factory pays for return shipping to the dealer or customer.

20.4 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.

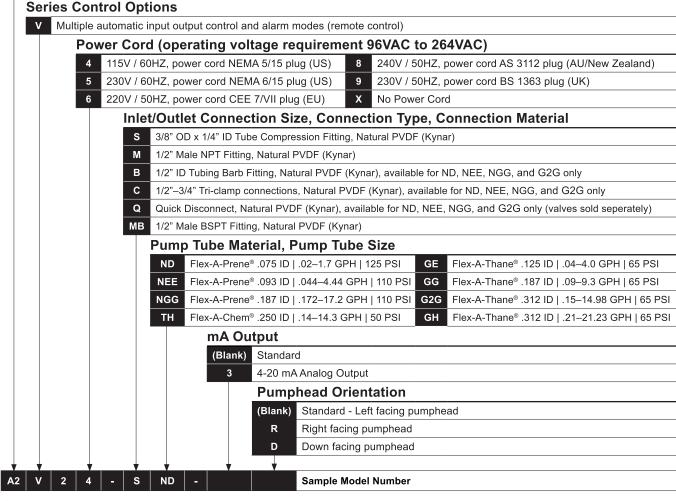
20.5 CHEMICAL RESISTANCE WARNING

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.

21.0 Model Number Matrix

Model Number Matrix FLEXFLO[®] Model Number

A2 FLEXFLO[®] Peristaltic Metering Pump



Accessories

| 1/4" x 3/8" "S" Fitting 1/2" Hose Barb "B" Fitting 1/2" MNPT "M" Fitting | | | | | |
|--|---|------------------------------------|-----|--|---|
| Quick Disconnects | *KIT-QSV FKM O-rings *KIT-QSE EP O-rings *KIT-QSA Aflas O-rings | EP O-rings *KIT-QBE EP *KIT-QME EP | | | |
| d | D | | | | -4418- |
| TI40-6V T.I. INJECTOR, 3/8" OD | | C-340A FOOT VAL | .VE | | A2-(see spare parts page) Spare Tube Element |

Visit Accessory Pages for More Options

A2



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.



5300 Business Drive Huntington Beach, CA 92649 USA TEL: 714-893-8529 FAX: 714-894-9492 www.blue-white.com sales@blue-white.com customerservice@blue-white.com