Blue-White Industries, Ltd.

THE CLASSICS

METERING PUMPS & FLOWMETERS

PRECISION CHEMICAL METERING & FLOW MONITORING
BLUE-WHITE® HAS BEEN A LEADING MANUFACTURER OF TOP QUALITY FLOWMETERS, METERING PUMPS AND WATER TREATMENT ACCESSORIES FOR CLOSE TO SIX DECADES.

AT BLUE-WHITE®, WE PRIDE OURSELVES on innovative engineering, quality materials of construction and excellent customer service. Our worldwide network of factory authorized representatives, distributors, dealers and warranty centers look forward to serving you. This catalog is designed to familiarize you with Blue-White's extensive product lines. If you don't see the product that meets your system requirements please contact the factory. Blue-White® is pleased to provide price quotation for custom calibrations and feed rates; alternate materials of construction, and private labeling to volume purchasers. In addition to the products shown on these pages, Blue-White® manufactures an extensive line of products for larger system requirements, including Industrial and Municipal installations.

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ProSeries® S6A Chemical Feed Sensor

The all NEW ProSeries® S6A Chemical Feed Sensor accurately measures chemical feed from your metering and dosing pumps. The patent pending design provides the widest flow range on the market, from 10 to 10,000 ml/min (0.158-158.5 GPH). S6A also has a low pressure drop of less than 1 PSI.

The sensor can handle harsh and corrosive chemicals with wetted components constructed out of PVDF and PEEK. The inline pipe fittings allow quick and easy installation.

The S6A has a built-in status LED light for quick visual inspection. The process control is via a configurable solid state relay, which can be configured to a close or open trigger at a set flow-rate, or a flow total for batching operation.

The highly affordable and extremely accurate S6A Chemical feed sensor is unlike anything the industry has ever seen.

PROSERIES S6A ORDERING GUIDELINES

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>Flow Range (GPH)</th>
<th>Flow Range (ml/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S6A1X(*)X</td>
<td>0.158–79.2</td>
<td>10–5,000</td>
</tr>
<tr>
<td>S6A11(*)X</td>
<td>0.158–79.2</td>
<td>10–5,000</td>
</tr>
<tr>
<td>S6A2X(*)X</td>
<td>1.58–158.5</td>
<td>100–10,000</td>
</tr>
<tr>
<td>S6A21(*)X</td>
<td>1.58–158.5</td>
<td>100–10,000</td>
</tr>
<tr>
<td>S6A2I(*)X</td>
<td>1.58–158.5</td>
<td>100–10,000</td>
</tr>
</tbody>
</table>

Elastomer Material (O-Rings) OPTIONS
(*)Replace: V-TEF & PVDF, T-EP & PVDF
CHEM-FEED® METERING PUMPS

AN EFFICIENT, DEPENDABLE DESIGN THAT IS ECONOMICAL AND VERSATILE

CHEM-FEED® INJECTORS COMBINE HIGH QUALITY MATERIALS of construction and smart engineering with flexibility and value.

Because we manufacture most of the components in our own plant, including the all ball bearing gear motor, we can offer CHEM-FEED® metering pumps with a wide range of configuration, material, voltage and feed rate options.

All CHEM-FEED® metering pumps feature Blue-White’s exclusive heavy duty cartridge valve head. The thoughtful design of this pump head begins with bullet cartridge valves constructed of tough PVDF plastic. Each valve has two ceramic ball checks and is double sealed with high grade Aflas o-rings. The double ball valve pump head design ensures enhanced priming capabilities, and it is exceptional for purging air and gas.

Don’t Settle for Imitations – Insist on CHEM-FEED® Metering Pumps!

CHEM-FEED® APPLICATIONS
• Water treatment and conditioning.
• Soap, wax and detergent injection.
• Wastewater treatment.
• Biocide feed.
• Rural water systems.
• Cooling tower & boiler treatment.
• Fertilizer and nutrient injection.
• Pool chlorination & PH control.

Blue-White’s CHEM-FEED® C-1500N Metering Pumps are well suited to a variety of water and wastewater treatment applications.

C-1500N Series injectors feature Blue-White’s exclusive Heavy Duty Head with Cartridge Valves constructed of tough PVDF. Each valve has two ceramic checks, and is double sealed. The double ball valve design provides enhanced priming, and is exceptional for purging air and gas. The Heavy Duty Head is nearly maintenance-free, and Bottom and Top Valves are completely interchangeable for quick, easy and economical servicing.

Two distinct models are offered. The STANDARD C-1500N features quick adjusting and, high accuracy mechanical stroke length. The pump’s efficient design allows for a minimum stroke length of 5%. Minimum recommended output is 5% of maximum.

C-1500N SPECIFICATIONS

Max. Working Pressure | 125 psig (8.6 bar)
Max. Fluid Temperature | 130˚ F (54˚ C)
Ambient temp range | 14˚ to 110˚ F (-10˚ to 43˚ C)
Max. viscosity | 1000 Centipoise
Max. suction lift | 10 ft. Water @ 0 PSI (3.05 m @ 0 bar)
Output accuracy | +/- 10% of max. (water 0 psi, 5’ suction lift)
Turndown ratio | 20:1 Standard models, 200:1 Deluxe models
Amperage draw | 110V/60Hz: starting .74 / running .45
| 230V/60Hz: starting .36 / running .21
| 220V/50Hz: starting .31 / running .19
| 24V/60Hz: starting 3.4 / running 2.0
O-ring seals | FKM and TFE/P (Optional EP)
Dimensions | 9-1/2” H x 4-1/2” W x 5-3/4” D
Approximate shipping wt. | 8 lb. (3.6 kg)

Blue-White’s CHEM-FEED® C-1500N Metering Pumps are well suited to a variety of water and wastewater treatment applications.

C-1500N ORDERING GUIDELINES

STANDARD MODEL with Stroke Adjustment

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAX OUTPUT @ 0 PSI</th>
<th>Max Strokes</th>
<th>Max</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>C150N</td>
<td>2X000V00</td>
<td>3.4</td>
<td>0.2</td>
<td>0.5</td>
</tr>
<tr>
<td>C150N</td>
<td>2X200V00</td>
<td>8.3</td>
<td>0.3</td>
<td>1.3</td>
</tr>
<tr>
<td>C150N</td>
<td>2X400V00</td>
<td>16.3</td>
<td>0.5</td>
<td>2.5</td>
</tr>
<tr>
<td>C150N</td>
<td>2X600V00</td>
<td>26.6</td>
<td>1.1</td>
<td>4.2</td>
</tr>
<tr>
<td>C150N</td>
<td>2X800V00</td>
<td>34.2</td>
<td>1.4</td>
<td>5.4</td>
</tr>
<tr>
<td>C150N</td>
<td>2X1000V00</td>
<td>49.0</td>
<td>2.0</td>
<td>7.7</td>
</tr>
<tr>
<td>C150N</td>
<td>2X1200V00</td>
<td>57.7</td>
<td>2.4</td>
<td>9.1</td>
</tr>
<tr>
<td>C150N</td>
<td>2X1400V00</td>
<td>68.4</td>
<td>2.8</td>
<td>10.8</td>
</tr>
<tr>
<td>C150N</td>
<td>2X1600V00</td>
<td>81.3</td>
<td>3.2</td>
<td>12.6</td>
</tr>
<tr>
<td>C150N</td>
<td>2X1800V00</td>
<td>91.9</td>
<td>3.9</td>
<td>14.9</td>
</tr>
<tr>
<td>C150N</td>
<td>2X2000V00</td>
<td>115.9</td>
<td>5.0</td>
<td>16.3</td>
</tr>
<tr>
<td>C150N</td>
<td>2X2200V00</td>
<td>139.9</td>
<td>5.9</td>
<td>18.6</td>
</tr>
<tr>
<td>C150N</td>
<td>2X2400V00</td>
<td>173.9</td>
<td>7.0</td>
<td>21.0</td>
</tr>
</tbody>
</table>

DELUXE MODEL with Stroke and Time Interval Adjustment

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAX OUTPUT @ 0 PSI</th>
<th>Max Strokes</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>C150N</td>
<td>2X000V00</td>
<td>007-5.4</td>
<td>027-5.4</td>
</tr>
<tr>
<td>C150N</td>
<td>2X200V00</td>
<td>014-2.8</td>
<td>056-10.8</td>
</tr>
<tr>
<td>C150N</td>
<td>2X400V00</td>
<td>032-6.4</td>
<td>123-24.6</td>
</tr>
</tbody>
</table>

VOLTAGE OPTIONS

(*)Replace: 0=115V/60Hz, 1=220V/50Hz, 2=230V/60Hz, 3=24V/60Hz

(**)Replace: 4=115V/60Hz, 5=220V/50Hz, 6=230V/60Hz

Note: 220V/50Hz units deliver approximately 20% less output

CHEM-FEED® APPLICATIONS
• Water treatment and conditioning.
• Soap, wax and detergent injection.
• Wastewater treatment.
• Biocide feed.
• Rural water systems.
• Cooling tower & boiler treatment.
• Fertilizer and nutrient injection.
• Pool chlorination & PH control.


Blue-White’s CHEM-FEED® C-1500N Metering Pumps are well suited to a variety of water and wastewater treatment applications.

C-1500N Series injectors feature Blue-White’s exclusive Heavy Duty Head with Cartridge Valves constructed of tough PVDF. Each valve has two ceramic checks, and is double sealed. The double ball valve design provides enhanced priming, and is exceptional for purging air and gas. The Heavy Duty Head is nearly maintenance-free, and Bottom and Top Valves are completely interchangeable for quick, easy and economical servicing.

DELUXE MODEL with Stroke and Time Interval Adjustment

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAX OUTPUT @ 0 PSI</th>
<th>Max Strokes</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>C150N</td>
<td>2X000V00</td>
<td>007-5.4</td>
<td>027-5.4</td>
</tr>
<tr>
<td>C150N</td>
<td>2X200V00</td>
<td>014-2.8</td>
<td>056-10.8</td>
</tr>
<tr>
<td>C150N</td>
<td>2X400V00</td>
<td>032-6.4</td>
<td>123-24.6</td>
</tr>
</tbody>
</table>

VOLTAGE OPTIONS

(*)Replace: 0=115V/60Hz, 1=220V/50Hz, 2=230V/50Hz, 3=240V/60Hz

(**)Replace: 4=115V/60Hz, 5=220V/50Hz, 6=230V/50Hz

Note: 220V/50Hz units deliver approximately 20% less output
The CHEM-FEED® C-1700N Duplex Head Metering Pump features two independently controlled pump heads. Because of the unique duplex head configuration, motor power is used to maximum efficiency. This is of particular importance for overcoming backpressure. Also, alternating strokes mean double the injections per minute. For example, a 125 RPM delivers 250 injections per minute, or four injections per second. This is of significance for applications requiring a pump approaching a constant, even feed rate, without broad spaces of time between injections.

The C-1700N can be used to inject different amounts of like chemical into separate systems, feed two different chemicals into the same system (blend), or when a single head pump doesn’t provide quite enough output.

**C-1700N SPECIFICATIONS**

- **Max. Working Pressure:** 125 psig (8.6 bar)
- **Max. Fluid Temperature:** 130˚ F (54˚ C)
- **Ambient temp range:** 14˚ to 110˚ F (-10˚ to 43˚ C)
- **Max. viscosity:** 1000 Centipoise
- **Max. suction lift:** 10 ft. Water (0 PSI)
- **Output accuracy:** +/– 10% of max. (water 0 psi, 5” suction lift)
- **Turndown ratio:** 20:1 Standard models
- **C-1700N ORDERING GUIDELINES**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>Max GPD</th>
<th>Max GPH</th>
<th>Max LPH</th>
<th>Max OZ/MIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>C17N0(*)2X000V00</td>
<td>14.2</td>
<td>0.6</td>
<td>2.3</td>
<td>1.3</td>
</tr>
<tr>
<td>C17N0(*)4X000V00</td>
<td>28.9</td>
<td>1.2</td>
<td>4.5</td>
<td>2.6</td>
</tr>
<tr>
<td>C17N2(*)2X000V00</td>
<td>50.2</td>
<td>2.1</td>
<td>7.9</td>
<td>4.4</td>
</tr>
<tr>
<td>C17N3(*)2X000V00</td>
<td>62.3</td>
<td>2.6</td>
<td>9.8</td>
<td>5.5</td>
</tr>
<tr>
<td>C17N2(*)4X000V00</td>
<td>89.7</td>
<td>3.7</td>
<td>14.1</td>
<td>8.0</td>
</tr>
<tr>
<td>C17N3(*)4X000V00</td>
<td>119.0</td>
<td>5.0</td>
<td>18.8</td>
<td>10.6</td>
</tr>
<tr>
<td>C17N4(*)2X000V00</td>
<td>133.8</td>
<td>5.5</td>
<td>21.1</td>
<td>11.9</td>
</tr>
<tr>
<td>C17N4(*)4X000V00</td>
<td>243.3</td>
<td>10.1</td>
<td>38.4</td>
<td>21.6</td>
</tr>
<tr>
<td>C17N4(*)1X000V00</td>
<td>304.2</td>
<td>12.6</td>
<td>48.0</td>
<td>27.0</td>
</tr>
</tbody>
</table>

**VOLTAGE OPTIONS**

(*Replace: 0=115V/60Hz, 1=220V/50Hz, 2=230V/60Hz

Note: 220V/50Hz units deliver approximately 20% less output.

Please Note: Outputs given are a combined total of both pump heads using pure water at zero gauge pressure.

All C-1700N are shipped complete with accessory package. Ordering matrix available on request, Order #55060-057.

**FLOW INDICATOR**

Diagnostic Tool for Chemical Feed Pumps

**BENEFITS**

- Rhythmic rising and falling of the ball indicates positive flow.
- Air bubbles indicate chemical has exhausted.
- Stationary ball indicates no flow. Possible problems could be:
  - lost prime
  - stopped motor
  - plugged injection fitting
  - faulty tube or diaphragm
- plugged or dirty footvalve filter
- chemical has been exhausted for a lengthy period of time

**APPLICATIONS**

- Glass bobbin for Chlorines and Acids.
- Stainless Steel bobbin for soaps and waxes (high viscose fluids).

**ORDERING GUIDELINES**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>Tube Connection</th>
<th>Body Material</th>
<th>O-ring Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT-100-6V</td>
<td>1/4” tubing</td>
<td>Glass</td>
<td>Acrylic</td>
</tr>
<tr>
<td>FT-100S-6V</td>
<td>1/4” tubing</td>
<td>Stainless Steel</td>
<td>Acrylic</td>
</tr>
<tr>
<td>FT-100-4V</td>
<td>3/8” tubing</td>
<td>Glass</td>
<td>Acrylic</td>
</tr>
<tr>
<td>FT-100S-4V</td>
<td>3/8” tubing</td>
<td>Stainless Steel</td>
<td>Acrylic</td>
</tr>
</tbody>
</table>

**FOOT VALVE/STRAINER**

Applications:

- Foot Valve / Strainer (with check valve) is recommended for CHEM-FEED® models C-340A and C-340E.
- Foot Strainer (no valve) is recommended for FLEXFLO® peristaltic pumps model C-342-6.
- Capacity of strainer is 300 micron.

**ORDERING GUIDELINES**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>Tube Connection</th>
<th>Body Material</th>
<th>O-ring Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-340A</td>
<td>1/4” and 3/8” tubing</td>
<td>Check Valve</td>
<td>PTFE</td>
</tr>
<tr>
<td>C-340E</td>
<td>1/4” and 3/8” tubing</td>
<td>Check Valve</td>
<td>PTFE</td>
</tr>
<tr>
<td>C-342-6</td>
<td>1/4” and 3/8” tubing</td>
<td>No Valve, strainer only</td>
<td>Polypropylene</td>
</tr>
</tbody>
</table>
CHEM-FEED® C-600P

CHEM-FEED® C-600P BENEFITS
- Stroke adjustment from 4–100% permits small injections at a higher rate per minute.
- Double-ball inlet and outlet cartridge type ceramic check valves.
- PVDF valve body and fitting, ceramic balls, FKM and TFE/P o-rings.
- PTFE coated EP diaphragm.
- All ball bearing, permanently lubricated gear motor for smooth, powerful operation.
- Polypropylene injection check valve with FKM and TFE/P o-rings and spring loaded ceramic ball seal.
- PVDF suction (foot) valve with FKM and TFE/P o-rings, ceramic check ball and removable polypropylene filter screen.
- Includes 3/8” OD, 1/4” ID suction and discharge tubing, and all mounting hardware.
- Efficient, dependable design – each unit is factory tested.

CHEM-FEED® C-600HV

CHEM-FEED® C-600HV BENEFITS
- Acrylic pump head.
- Ethylene-propylene diaphragm.
- Ethylene-propylene O-ring seals.
- 1/2” ID barbed tubing connections.

CHEM-FEED® C-600HV APPLICATIONS
- Low pressure and open atmosphere metering.
- Plating chemicals.
- Water and wastewater treatment.

C-600P ORDERING GUIDELINES

<table>
<thead>
<tr>
<th>STANDARD MODEL with Stroke Adjustment</th>
<th>MAX OUTPUT @ 0 PSI</th>
<th>MAX PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-616P-(*)VAC</td>
<td>28</td>
<td>1.0</td>
</tr>
<tr>
<td>C-630P-(*)VAC</td>
<td>58</td>
<td>2.4</td>
</tr>
<tr>
<td>C-645P-(*)VAC</td>
<td>91</td>
<td>3.8</td>
</tr>
<tr>
<td>C-660P-(*)VAC</td>
<td>110</td>
<td>4.6</td>
</tr>
<tr>
<td>C-6125P-(*)VAC</td>
<td>237</td>
<td>9.9</td>
</tr>
<tr>
<td>C-6250P-(*)VAC</td>
<td>308</td>
<td>16.2</td>
</tr>
</tbody>
</table>

VOLTAGE OPTIONS

(*)Replace: 115=115V/60Hz, 220=220V/50Hz, 230=230V/60Hz, 24=24V/60Hz

Note: 220V/50Hz units deliver approx. 20% less output.

C-600P SPECIFICATIONS

Max. Working Pressure: 125 psig (8.6 bar)
Max. Fluid Temperature: 120˚F (49˚C)
Ambient temp range: 10˚F to 110˚F (10˚C to 43˚C)
Max. viscosity: 1000 Centipoise
Max. suction lift: 10 ft. Water (3.05 m @ 0 bar)
Output accuracy: +/- 10% of max.
Amperage draw
- 115V/60Hz: starting .74 / running .45
- 230V/60Hz: starting .36 / running .21
- 220V/50Hz: starting .31 / running .19
- 24V/60Hz: starting 3.4 / running 2.0
- 12VDC: 3.0 amp max
Dimensions: 6-1/2” H x 6-1/8” W x 5-3/8” D (16.5cm x 16.8cm x 13.7cm)
Approximate shipping wt.: 8 lb. (3.6 kg)

C-600HV ORDERING GUIDELINES

<table>
<thead>
<tr>
<th>STANDARD MODEL with Stroke Adjustment</th>
<th>MAX OUTPUT @ 0 PSI</th>
<th>MAX PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-616HV-(*)VAC</td>
<td>169</td>
<td>7.8</td>
</tr>
<tr>
<td>C-6125HV-(*)VAC</td>
<td>308</td>
<td>16.5</td>
</tr>
<tr>
<td>C-6250HV-(*)VAC</td>
<td>791</td>
<td>32.9</td>
</tr>
</tbody>
</table>

VOLTAGE OPTIONS

(*)Replace: 115=115V/60Hz, 220=220V/50Hz, 230=230V/60Hz, 24=24V/60Hz

Note: 220V/50Hz units deliver approx. 20% less output. 12V DC and 24V DC models also available.

C-600HV SPECIFICATIONS

Max. Working Pressure: 20 psig (1.4 bar)
Max. Fluid Temperature: 120˚F (49˚C)
Ambient temp range: 10˚F to 110˚F (10˚C to 43˚C)
Max. viscosity: 1000 Centipoise
Max. suction lift: 10 ft. Water (3.05 m @ 0 bar)
Output accuracy: +/- 10% of max.
Amperage draw
- 115V/60Hz: starting .74 / running .45
- 230V/60Hz: starting .36 / running .21
- 220V/50Hz: starting .31 / running .19
- 24V/60Hz: starting 3.4 / running 2.0
- 12VDC: 3.0 amp max
- 12VDC: 1.5 amp max
Dimensions: 7” H x 6-3/4” W x 6-1/8” D (17.8cm x 17.1cm x 15.6cm)
Approximate shipping wt.: 8 lb. (3.6 kg)
**CHEM-FEED® BENEFITS**

- Superior pump head design.
- Max feed rate of 15 GPH (56.8 LPH).
- All ball bearing, permanently lubricated gear motor for smooth, powerful operation.
- Efficient, dependable design – each unit is factory tested.
- 3/8” OD x 1/4” ID tubing connections.

**CHEM-FEED® APPLICATIONS**

- Water treatment and conditioning.
- Soap, wax and detergent injection.
- Wastewater treatment.
- Biocide feed.
- Rural water systems.
- Cooling tower & boiler treatment.
- Fertilizer and nutrient injection.
- Pool chlorination & PH control.

**CHEM-FEED® DELIVERS**

PRECISION, CHEMICAL METERING AND EFFICIENT, DEPENDABLE OPERATION.

**CHEM-FEED® SPECIFICATIONS**

- **Max. Working Pressure**: 150 psig (10.3 bar)
- **Max. Fluid Temperature**: 130˚ F (54˚ C)
- **Ambient temp range**: 14˚ to 110˚ F (-10˚ to 43˚ C)
- **Max. viscosity**: 1000 Centipoise
- **Max. suction lift**: 10 ft. Water @ 0 PSI (3.05 m @ 0 bar)
- **Output accuracy**: +/- 1% full scale repeatability
- **Turndown ratio**: Standard Fixed Models 20:1
  Deluxe Fixed Models 400:1
  Digital Fixed Models 4000:1
  Variable Speed Models
- **Enclosure**: Acceptable for outdoor use. NEMA 3R (IP23)
- **Amperage draw**:
  - 115V/60Hz: start 1.37 / run .35
  - 230V/60Hz: start 0.57 / run .18
  - 220V/50Hz: start 0.49 / run .23
- **O-ring seals**: FKM and TFE/P (Optional EP)
- **Dimensions**: 6-1/4” H x 10” W x 9-1/4” D
  (15.9cm x 25.4cm x 23.5cm)
- **Approximate shipping wt.**: 12 lb. (5.4 kg)

**MODEL OPTIONS**

- (X) Replace: X= STANDARD X MODELS with Stroke Adjustment
- (C) DELUXE C MODELS with Stroke and Time Adjustment
- (E) DIGITAL E MODELS with Stroke, Pulse, and 4-20mA Adjustment
- (F) DELUXE F MODELS with Stroke and Dial Knob Speed Adjustment (Variable Speed)
- (V) DIGITAL V MODELS with Stroke, Pulse, and 4-20mA Analog Speed Adjustment (Variable Speed)

**VOLTAGE OPTIONS**

- (4) Replace: 4-175V/60Hz, 5-220V/50Hz, 6-230V/60Hz, 7-240V/50Hz
- (Note): 220V/50Hz units deliver approximately 20% less output.

**DIGITAL V MODEL - VARIABLE SPEED UNIT**

- with Stroke Length & 4-20mA, 0-10dc, and Pulse Input Speed Control

**Standard Model**

**CHEM-FEED® STANDARD X MODEL FIXED SPEED**

Features a quick-adjusting, high accuracy mechanical stroke length control. The efficient design of the pump allows for a minimum stroke length of 5%. Maximum recommended output is 5% of maximum.

**Deluxe Model**

**CHEM-FEED® DELUXE C MODEL FIXED SPEED**

Features stroke length and electronic time interval control. The pumps’ on-time is adjustable from 5-100% of the repeating 5 second time interval. (0.25-5.0 seconds). The high frequency of the repeating 5 second time interval and the extremely accurate mechanical stroke adjustment, result in a higher frequency of small injections per minute. Minimum recommended output is 5% of maximum.

**CHEM-FEED® DELUXE F MODEL VARIABLE SPEED**

Stroke length and analog speed control. The pumps’ speed is adjustable from 10–100% of the maximum using a dial knob style controller. The minimum recommended output is .25% of the maximum. No special input signal connectors to purchase. Model features a 1 amp alarm output.

**Digital Model**

**CHEM-FEED® DIGITAL E MODEL FIXED SPEED**

Features stroke length, electronic user programmable time interval. Interval lengths are user programmable from 0.1 to 99 seconds, in 0.1 increments, with external interval control. The unit accepts pulse inputs (programmable from 1-9900) which can trigger programmable timed chemical injection batches from 0.1-99 seconds in duration. Analog signals can be used to remotely vary the interval timer’s on-time adjustment.

**CHEM-FEED® DIGITAL V MODEL VARIABLE SPEED**

Features stroke length, manual digital percentage and external input signal speed control. The unit accepts pulse inputs from 0–500Hz and 4-20mA or 0-10VDC analog input signals. The minimum and maximum speed at the minimum and maximum input values can be programmed using the digital LCD display. Flow verification sensor option is available. No special input signal connectors to purchase. Model features a 1 amp alarm output.
Blue-White’s CHEM-FEED® STAR SYSTEM is shipped complete with the CHEM-FEED® C-1500N metering pump of your choice, STANDARD or DELUXE. The Star System includes the CHEM-FEED C-1500N metering pump of your choice mounted on a sturdy polyethylene tank. Flooded suction assists in priming.

For a thoughtfully designed top quality Metering System, choose the Star System.

### STAR SYSTEM C-1500N BENEFITS

- Three tank capacities to choose from: 7 gallon, 15 gallon, or 30 gallon.
- All necessary accessories are included.
- The Polyethylene tank has extra heavy wall thickness for stability with U.V. inhibitor for sunlight protection.
- Lid positions include open, closed, or vent.
- Convenient rectangle shape.
- Raised off the floor for easy wash down.

### STAR SYSTEM ORDERING GUIDELINES

#### STANDARD MODEL with 7, 15, and 30 GALLON Tanks

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAX OUTPUT @ 0 PSI</th>
<th>Max Strokes</th>
<th>GPD</th>
<th>GPH</th>
<th>LPH</th>
<th>OZ/MIN Per minute</th>
<th>PSI</th>
<th>bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>T15N0(<em>)2X026V0(</em>**)</td>
<td>3.4</td>
<td>0.2</td>
<td>0.5</td>
<td>14</td>
<td>125</td>
<td>8.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T15N1(<em>)2X026V0(</em>**)</td>
<td>8.3</td>
<td>0.3</td>
<td>1.3</td>
<td>23</td>
<td>125</td>
<td>8.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T15N3(<em>)2X026V0(</em>**)</td>
<td>16.3</td>
<td>0.6</td>
<td>2.5</td>
<td>45</td>
<td>125</td>
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<td></td>
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<tr>
<td>T15N0(2)x026v0(***)</td>
<td>26.8</td>
<td>1.1</td>
<td>4.2</td>
<td>90</td>
<td>125</td>
<td>8.6</td>
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<td></td>
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<tr>
<td>T15N1(2)x026v0(***)</td>
<td>34.2</td>
<td>1.4</td>
<td>5.4</td>
<td>120</td>
<td>125</td>
<td>8.6</td>
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<tr>
<td>T15N3(2)x026v0(***)</td>
<td>49.0</td>
<td>2.0</td>
<td>7.4</td>
<td>180</td>
<td>125</td>
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</tr>
<tr>
<td>T15N0(3)x026v0(***)</td>
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<td>2.4</td>
<td>9.1</td>
<td>240</td>
<td>125</td>
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<td>T15N1(3)x026v0(***)</td>
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<td>10.8</td>
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<td>125</td>
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<tr>
<td>T15N3(3)x026v0(***)</td>
<td>119.7</td>
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<td>18.9</td>
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<td>70</td>
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<tr>
<td>T15N4(3)x000v0(***)</td>
<td>155.9</td>
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<td>900</td>
<td>20</td>
<td>1.4</td>
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#### DELUXE MODELS with 7, 15, and 30 GALLON Tanks

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAX OUTPUT @ 0 PSI</th>
<th>Max Strokes</th>
<th>GPD</th>
<th>GPH</th>
<th>LPH</th>
<th>OZ/MIN Per minute</th>
<th>PSI</th>
<th>bar</th>
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<tbody>
<tr>
<td>T15N4(*)2I026V00</td>
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<td>0.027-5.40</td>
<td>0.015-3.00</td>
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<tr>
<td>T15N4(*)2I000V00</td>
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<td>0.054-10.8</td>
<td>0.030-5.90</td>
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<td></td>
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<tr>
<td>T15N4(*)1I000V00</td>
<td>0.032-6.4</td>
<td>0.123-24.6</td>
<td>0.069-13.8</td>
<td>125</td>
<td>20</td>
<td>1.4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### VOLTAGE OPTIONS

(*) Replace: 0=115V/60Hz, 1=220V/50Hz, 2=230V/60Hz
(**) Replace: 4=115V/60Hz, 5=220V/50Hz, 6=230V/60Hz
Note: 220V/50Hz units deliver approximately 20% less output.

### STAR TANKS ONLY

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CAPACITY</th>
<th>GALLON</th>
<th>LITER</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAR 7</td>
<td>7</td>
<td>7</td>
<td>26.5</td>
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<tr>
<td>STAR 15</td>
<td>15</td>
<td>15</td>
<td>57</td>
</tr>
<tr>
<td>STAR 30</td>
<td>30</td>
<td>30</td>
<td>113.5</td>
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</table>

Blue-White’s CHEM-FEED® STAR SYSTEM ships complete with the CHEM-FEED® C-1500N metering pump of your choice, STANDARD or DELUXE. The Star System includes the CHEM-FEED C-1500N metering pump of your choice mounted on a sturdy polyethylene tank. Flooded suction assists in priming.

For a thoughtfully designed top quality Metering System, choose the Star System.

### FLEXFLO® STAR III® Metering System

Blue-White’s STAR III® Metering System features the FLEXFLO® A-100N Series Peristaltic Metering Pump of your choice, combined with a sturdy Polyethylene tank.

Choose between FLEXFLO’S fixed or variable speed A-100N models, equipped with standard or digital controls.

For an efficient and dependable Peristaltic Metering System Package, get FLEXFLO® STAR III®.

### FLEXFLO® STAR III® BENEFITS

- Three tank capacities to choose from: 7 gallon, 15 gallon, or 30 gallon.
- All necessary accessories are included.
- The Polyethylene tank has extra heavy wall thickness for stability with U.V. inhibitor for sunlight protection.
- Lid positions include open, closed, or vent.
- Convenient rectangle shape.
- Raised off the floor for easy wash down.

Note: Refer to the 85000-045 data sheet or visit blue-white.com for more information.
FLEXFLO® PERISTALTIC METERING PUMPS

WHEN YOUR INSTALLATION NEEDS A COMPACT PERISTALTIC METERING PUMP DON’T SETTLE FOR LESS THAN THE BEST—FLEXFLO®!

PERISTALTIC INJECTORS ARE WELL SUITED TO METERING CHEMICALS that could foul heads with conventional check valves. Peristaltic pumps have rollers that compress the tube in a progressive squeezing action.

Blue-White’s superior FLEXFLO® peristaltic injectors have an impressive edge over the others. Only FLEXFLO® pumps feature Blue-White’s Superior Pump Head and Tube Design.

All FLEXFLO® Peristaltic Pumps are equipped with Blue-White’s exclusive patented TUBE FAILURE DETECTION SYSTEM. No other manufacturer can offer this feature.

ADVANCED PUMP HEAD & TUBE DESIGN

Increased Performance: The precision circumference of the New Pump Head ensures even greater accuracy. Larger internal adapter ports will handle higher viscosity fluids.

Increased Strength: A strong pump head adapter plate ensures adapters are secured in place. Tougher, more durable tube adapters are manufactured of natural PVDF.

Easy Reorder: Tube assemblies are stamped with simple reorder number.

FLEXFLO® OPTIONS

There are a wide range of feed/output rate options, voltage options, motor options, feature and configuration options. In addition, the factory is pleased to quote on custom material and output options, as well as private labeling and packaging for volume purchasers meeting purchase requirements.

FLEXFLO® BENEFITS

• Precise chemical feed up to 124 GPD / 469.4 LPD.
• Max working pressure of 100 PSI / 6.9 bar.
• Exclusive, Built-in Tube Failure Detection System (TFD).
• FLEXFLO® A-100N pumps are compatible with Blue-White’s Micro-Flo Verification Sensor.
• De-gassing design eliminates gas or air accumulation in the head.
• Output amount is not affected by changes in back pressure.
• Durable housing of rugged Valox.

FLEXFLO® APPLICATIONS

• Water treatment and conditioning.
• Proportional Chemical injection.
• Wastewater treatment.
• Biocide feed.
• Rural water systems.
• Cooling tower & boiler treatment.
• Fertilizer and nutrient injection.
• Pool chlorination & PH control.

FLEXFLO® SPECIFICATIONS

Max. Working Pressure ............ 100 psig (6.9 bar)
Max. Fluid Temperature ........... 130°F (54°C)
Ambient Temp Range ............. -14°F to 110°F (-10°C to 43°C)
Max. Viscosity .................. 5,000 Centipoise
Max. Suction Lift ................. 30 ft. Water 0 psig (9.14 m @ 0 bar)
Duty Cycle ......................... Continuous
Max. Solids ....................... 50% by volume
Amperage Draw ............... 115V/60Hz, 230V/60Hz, 220V/50Hz
Injection Fitting O-ring Seals ... FKM and TFE/P (Optional EP)
Dimensions ...................... 6-1/4" H x 10" W x 9-1/4" D
Approx. Shipping Weight .......... 10 lb. (4.5 kg)

A-100NF - VARIABLE SPEED UNIT

with Percentage Speed Control

THE EXCLUSIVE PATENTED TUBE FAILURE DETECTION SYSTEM

Blue-White’s exclusive patented Tube Failure Detection system, no one comes close to this breakthrough technology (U.S. patent: 7,001,153 and 7,284,964). In fact, the TFD may be the most important patent ever awarded for peristaltic metering pumps. The TFD System will detect a wide range of conductive chemicals with no false triggering. If the TFD senses tube failure, the pump will automatically shut off and energize a relay or switch, permitting communication with external equipment, such as a back-up pump or alarm.

Simple, efficient and BUILT-IN to every FLEXFLO® Pump
FLEX-A-PRENE® TUBING
Alcohol general
Aluminum Sulfate (Alum)
Ammonium chloride
Ammonium hydroxide
Benzyl alcohol
Bleach
Brine solutions
Calcium hydroxide
Calcium hypochlorite 20%
Citric Acid
Ethylene glycol
Ferric chloride
Ferric nitrate
Ferric sulfate
Ferrous chloride - 43% in water
Ferrous sulfate
Fluosilic Acid (up to 25%)
Formic acid
Glucose
Hydrochloric acid 33%
Hydrocyanic acid
Hydrogen peroxide
Hypochlorous acid
Iodine
Magnesium chloride
Magnesium sulfate
Phosphoric acid
Plating solutions
Potassium hydroxide
Propylene glycol
Sodium hydroxide 50%
Sodium bisulfite
Sodium hypochlorite 12%
Sodium hypochlorite 12.5%
Sodium bisulfite
Sodium hydroxide 50%
Sodium sulfuride
Sulfuric acid (up to 50%)
Tannic acid

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

FLEX-A-CHEM™ TUBING
Ferrous chloride (up to 40%)
Fluoboric acid (up to 48%)
Fluosilicic acid (up to 25%)
Fluoridic acid (up to 48%)
Nitric Acid (up to 71%)
Phosphoric acid (up to 85%)
Potassium hypochlorite (up to 70%)
Sodium phosphate (up to 30%)
Sodium sulfate (up to 98%)
Mineral spirits
Soap solutions

Most fixed speed outputs can be adjusted by simply:
1) Selecting the pump head tube size
2) Choosing the desired RPM (revolutions per minute).

Graphical representation of the Variable Speed and Fixed Speed peristaltic pump injection characteristics.

NOTE: Your chemical or solution is mixed in the fluid. This image is only illustrating the feed characteristics.

FLEXFLO® PUMP TUBING Material Selection Guide

FLEX-A-PRENE® TUBING

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAX OUTPUT @ ANY PRESSURE MAX</th>
<th>NUMBER</th>
<th>GPD</th>
<th>GPH</th>
<th>OZ/MIN</th>
<th>ML/MIN</th>
<th>PSI</th>
<th>bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1N0(*)**-4T</td>
<td>2.3</td>
<td>0.10</td>
<td>0.20</td>
<td>6</td>
<td>100</td>
<td>6.9</td>
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<tr>
<td>A1N1(*)**-4T</td>
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<td>0.21</td>
<td>0.44</td>
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<tr>
<td>A1N2(*)**-4T</td>
<td>8.0</td>
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<td>0.71</td>
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<tr>
<td>A1N0(*)**-6T</td>
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<td>0.92</td>
<td>42</td>
<td>100</td>
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<tr>
<td>A1N1(*)**-6T</td>
<td>24.0</td>
<td>1.00</td>
<td>2.13</td>
<td>63</td>
<td>100</td>
<td>6.9</td>
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<tr>
<td>A1N2(*)**-6T</td>
<td>30.1</td>
<td>1.25</td>
<td>2.67</td>
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<td>50</td>
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<tr>
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<td>A1N3(*)**-7T</td>
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<td>250</td>
<td>50</td>
<td>3.4</td>
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</table>

*Replace: 0=115V/60Hz, 1=220V/50Hz, 2=230V/60Hz
Note: 220V/50Hz units deliver approximately 20% less output.

MODEL OPTIONS
(*)Replace: C=1400NC, E=1400NE, F=1400NF, V=1400NV

VOLTAGE OPTIONS
(*)Replace: D=115/60Hz, 2=220/50Hz
Note: 220V/60Hz units deliver approximately 20% less output.

FLEX-A-THANE™ TUBING

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAX OUTPUT @ ANY PRESSURE MAX</th>
<th>NUMBER</th>
<th>GPD</th>
<th>GPH</th>
<th>OZ/MIN</th>
<th>ML/MIN</th>
<th>PSI</th>
<th>bar</th>
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<tbody>
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<td>A1N0(*)**-1T</td>
<td>5.7</td>
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FLEX-A-CHEM™ TUBING

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAX OUTPUT @ ANY PRESSURE MAX</th>
<th>NUMBER</th>
<th>GPD</th>
<th>GPH</th>
<th>OZ/MIN</th>
<th>ML/MIN</th>
<th>PSI</th>
<th>bar</th>
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<tbody>
<tr>
<td>A1N0(*)**-8T</td>
<td>24.0</td>
<td>1.00</td>
<td>2.13</td>
<td>63</td>
<td>50</td>
<td>3.4</td>
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</tr>
<tr>
<td>A1N1(*)**-8T</td>
<td>30.1</td>
<td>1.25</td>
<td>2.67</td>
<td>79</td>
<td>50</td>
<td>3.4</td>
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</tr>
<tr>
<td>A1N3(*)**-8T</td>
<td>30.1</td>
<td>1.25</td>
<td>2.67</td>
<td>79</td>
<td>50</td>
<td>3.4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ORDERING GUIDELINES
Fixed & Variable Speed
Analog Units

**FLEXFLO® A-100NC ANALOG** FIXED SPEED
- Precise output control to 20:1 turndown by means of a dial knob.
- Adjustable 5 second repeating interval timer (0.25 - 5.0 sec) results in high frequency of small injections per minute.

**FLEXFLO® A-100NF ANALOG** VARIABLE SPEED
- Manual output control.
- Easy Dial knob style – output percentage speed adjustment.
- Nothing to program.
- 10–100% output adjustment.
- On-Off power switch.
- Variable speed results in near continuous injection.

Digital Units

**FLEXFLO® A-100NE DIGITAL** FIXED SPEED
- Accepts pulse inputs for time on per one pulse or multiple pulses.
- Accepts 4-20mA & 0-10VDC signal for external interval percentage control.
- No special input wiring connectors to buy.
- Digital interval timer results in a high frequency of small injections per minute.

**FLEXFLO® A-100NV DIGITAL** VARIABLE SPEED
- Manual or Automatic control.
- Accepts 4-20mA, 0-10VDC, and pulse input signals.
- 1 amp alarm output relay.
- Precise output control with digital touch-pad and LCD display.
- Easy-to-read Service and Alarm indicator icons on LCD display.
- Display motor speed or input signal values on the LCD display.
- Flow Verification Sensor (FVS) compatible.
- Variable speed results in near continuous injection.
The all New FLEXFLO® Polymer Pump has been designed to handle polymer liquids used in Wastewater Treatment.

The FLEXFLO® peristaltic metering pump has our exclusive built in TFD+ (Tube Failure Detection Plus) system which detects oil and water based polymers, and in turn helps to eliminate costly polymer spills and clean up. Condensation and wash down procedures will not cause false triggering.

Because of the peristaltic design, the FLEXFLO® Peristaltic Polymer Pump has no valves that can clog and thus require maintenance. The FLEXFLO® Peristaltic Polymer Pump is also self-priming even against maximum line pressure, and won’t lose prime.

ALL FLEXFLO® POLYMER PUMPS FEATURE
- New TFD+ works with oil and water based polymers.
- Gentle pumping action for long chain polymers.
- Ideal for low and high viscosity fluids.
- Outputs to 5.17 GPH (19.56 LPH),
- Output pressures to 65 PSI (4.5 bar).
- Output volume is not effected by changes in back pressure.
- Durable housing of chemical resistant Valox (PBT) thermoplastic.

A-100NFP & A-100NVP SPECIFICATIONS

Max. Flow Rate .......................... 5.17 GPH (19.56 LPH)
Max. Working Pressure ................... 65 psi (4.5 bar)
Max. Fluid Temperature .................. 130°F (54°C)
Ambient Temp Range: 14°F to 110°F (-10°C to 43°C)
A-100NFP Output Adjustment Range: 100% to 1% increments
A-100NVP Output Adjustment Range:
14 & 30 RPM with 1T, 2T, 3T tubes: 5-100% (20:1 turndown)
100% to 1% (10:1 turndown)
Max. Viscosity: 3,000 Centipoise
Max. Solids: 50% by volume
Max. Suction Lift ......................... 30 ft. Water
Max. Fluid Temperature .................. 130°F (54°C)
Max. Flow Rate ......................... 5.17 GPH (19.56 LPH)
Max. Viscosity: 3,000 Centipoise
Max. Solids: 50% by volume
Max. Suction Lift: 30 ft. Water

A-100NVP ORDERING GUIDELINES

<table>
<thead>
<tr>
<th>Model</th>
<th>Pump Output Control Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-100NFP</td>
<td>A-100NVP</td>
</tr>
<tr>
<td>A1N0*F-1T-P</td>
<td>A1N3*V-1T-P</td>
</tr>
<tr>
<td>A1N1*F-1T-P</td>
<td>A1N3*V-2T-P</td>
</tr>
<tr>
<td>A1N2*F-3T-P</td>
<td>A1N3*V-3T-P</td>
</tr>
<tr>
<td>A1N3*F-3T-P</td>
<td>A1N0*V-1T-P</td>
</tr>
<tr>
<td>A1N3*F-1T-P</td>
<td>A1N3*V-3T-P</td>
</tr>
<tr>
<td>A1N1*V-1T-P</td>
<td>A1N3*V-2T-P</td>
</tr>
<tr>
<td>A1N3*V-1T-P</td>
<td>A1N3*V-3T-P</td>
</tr>
</tbody>
</table>

MICRO-FLO® FLOW VERIFICATION SYSTEM

ARE YOU CERTAIN THE PUMP IS ACTUALLY PUMPING

THE MICRO-FLO® FLOW VERIFICATION SENSOR is designed to be connected directly to Blue-White model A-100NV and C-100V metering pumps to verify that chemical injection has actually occurred. This innovative product provides accurate measurement and accumulated flow date. If chemical should fail to inject, the pump will stop and an alarm relay will close, allowing for remote alarm indication or initiation of a back-up injector pump. KNOW how much chemical your metering pump is dispensing.

For Innovation, Accuracy and Dependable Service, count on Blue-White’s MICRO-FLO® VERIFICATION METER.

MICRO-FLO® BENEFITS
- Model Variations include: Sensor Only; and Panel Mount Display, which includes 6’ of Cable.
- Six Digit LCD, up to Four decimal positions.
- Displays both Rate of Flow and Accumulated Flow.
- Non-volatile programming and accumulated flow memory.
- User Selectable scale factors include: Flow units: Gallons; Liters; Ounces; Milliliters Time units: Minutes; Hours; Days
- Clear PVDF viewing lens or opaque PVDF chemical resistant lens
- Weather resistant Valox PBT enclosure.

* LCD is not recommended for direct sunlight installation.
**F-400N**

**F-400N BENEFITS**
- Tough machined acrylic meter body, highly polished to a clear finish. Annealed for added strength.
- Direct reading permanent scale.
- White back reflector for easy reading.
- Sturdy adapters with high grade FKM o-ring seals.
- Standard models #316 stainless steel float guide rods. (Optional K-series hastelloy C-276).
- Acceptable in direct sunlight applications.

**F-400N SPECIFICATIONS**
- Max. Working Pressure: 150 psig (10.3 bar) @ 70˚ F (21˚ C)
- Max. Fluid Temperature: Polypropylene adapters: 150˚ F (65˚ C) @ 0 PSI
- Full scale accuracy: +/- 5%
- Meter body material: Machined acrylic
- O-ring seals: FKM (optional EP)
- Approximate shipping wt.: 1/2 lb. (.23 kg)
- NIST certificates optional

**PIPE SIZES**
- 1/4" 3/8" and 1/2" FNPT

**FLOW RATES**
- 0.025 to 5 GPM
- 0.1 to 20 LPM

**DIMENSIONS**
- Height: 8-3/16" (20.8cm)
- Width: 1-1/4" (3.2cm)

**F-400N TEMPERATURE VS. PRESSURE**

**F-400N SERIES of In-Line Units**

---

**F-410N**

**F-410N BENEFITS**
- Tough machined acrylic meter body, highly polished to a clear finish. Annealed for added strength.
- Direct reading permanent scale.
- White back reflector for easy reading.
- Sturdy adapters with high grade FKM o-ring seals.
- Standard models #316 stainless steel float guide rods. (Optional K-series hastelloy C-276).
- Acceptable in direct sunlight applications.

**F-410N SPECIFICATIONS**
- Max. Working Pressure: 150 psig (10.3 bar) @ 70˚ F (21˚ C)
- Max. Fluid Temperature: #316 SS and Hastelloy Floats: 150˚ F (65˚ C) @ 0 PSI
- PVC Floats: 120˚ F (49˚ C) @ 0 PSI
- Full scale accuracy: +/- 5%
- Meter body material: Machined acrylic
- O-ring seals: FKM (optional EP)
- Approximate shipping wt.: 2 lb. (.91 kg)
- NIST certificates optional

**PIPE SIZES**
- 3/4" and 1" FNPT

**FLOW RATES**
- 1 to 20 GPM
- 4 to 80 LPM

**DIMENSIONS**
- Height: 11" (27.9cm)
- Width: 1-3/4" (3.2cm)

**F-410N TEMPERATURE VS. PRESSURE**

---

**F-420N**

**F-420N BENEFITS**
- Tough machined acrylic meter body, highly polished to a clear finish. Annealed for added strength.
- Direct reading permanent scale.
- White back reflector for easy reading.
- Sturdy adapters with high grade FKM o-ring seals.
- Standard models #316 stainless steel float guide rods. (Optional K-series hastelloy C-276).
- Acceptable in direct sunlight applications.

**F-420N SPECIFICATIONS**
- Max. Working Pressure: 130 psig (8.9 bar) @ 70˚ F (21˚ C)
- Max. Fluid Temperature: 130˚ F (54˚ C) @ 0 PSI
- Full scale accuracy: +/- 5%
- Meter body material: Machined acrylic
- O-ring seals: FKM (optional EP)
- Approximate shipping wt.: 2 lb. (.91 kg)
- NIST certificates optional

**PIPE SIZES**
- 1" FNPT and 1-1/2" MNPT

**FLOW RATES**
- 5 to 50 GPM
- 20 to 200 LPM

**DIMENSIONS**
- Height: 12" (30.5cm)
- Width: 2" (5.1cm)

**F-420N TEMPERATURE VS. PRESSURE**

---

**F-430N**

**F-430N BENEFITS**
- Tough machined acrylic meter body, highly polished to a clear finish. Annealed for added strength.
- Direct reading permanent scale.
- White back reflector for easy reading.
- Sturdy adapters with high grade FKM o-ring seals.
- Standard models #316 stainless steel float guide rods. (Optional K-series hastelloy C-276).
- Acceptable in direct sunlight applications.
- Optional Polypropylene and CPVC Adapters available.

**F-430N SPECIFICATIONS**
- Max. Working Pressure: 130 psig (8.9 bar) @ 70˚ F (21˚ C)
- Max. Fluid Temperature: 130˚ F (54˚ C) @ 0 PSI
- Full scale accuracy: +/- 5%
- Meter body material: Machined acrylic
- O-ring seals: FKM (optional EP)
- Approximate shipping wt.: 6 lb. (2.7 kg)
- NIST certificates optional

**PIPE SIZES**
- 1-1/2" and 2" FNPT

**FLOW RATES**
- 4 to 100 GPM
- 15 to 375 LPM

**DIMENSIONS**
- Height: 14" (35.6cm)
- Width: 3" (7.6cm)

**F-430N TEMPERATURE VS. PRESSURE**

---
F-550 SERIES
Machined Panel Mount Meter

F-550 BENEFITS
- Durable, highly polished, one piece machined meter body. Annealed for added strength.
- Polished Stainless Steel floats and float guides.
- Built-in nuts attach directly to inside panel.
- Separate mounting screws are not required.
- Optional Adjustable Flow Control Valve (F-550A) only easy to disassemble. No special tool required, ALL FIELD REPLACEABLE.
- Acceptable in direct sunlight applications.

F-550 NON-ADJUSTABLE DIMENSIONS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Mount Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-5525L(*)</td>
<td>7-1/4&quot;(18.4cm)</td>
<td>2-1/2&quot;(6.4cm)</td>
<td>11/16&quot;(2.4cm)</td>
<td>5-5/8&quot;(14.3cm)</td>
<td>1-1/4&quot;(cm)</td>
<td>3/8&quot;(1.4cm)</td>
</tr>
<tr>
<td>F-5535L(*)</td>
<td>8-3/8&quot;(21.3cm)</td>
<td>2-3/4&quot;(7.0cm)</td>
<td>1-11/32&quot;(3.4cm)</td>
<td>6-1/2&quot;(16.5cm)</td>
<td>1-1/2&quot;(cm)</td>
<td>7/8&quot;(2.2cm)</td>
</tr>
<tr>
<td>F-5550L(*)</td>
<td>8-3/8&quot;(21.3cm)</td>
<td>2-3/4&quot;(7.0cm)</td>
<td>1-11/32&quot;(3.4cm)</td>
<td>6-1/2&quot;(16.5cm)</td>
<td>1-1/2&quot;(cm)</td>
<td>3/4&quot;(1.9cm)</td>
</tr>
<tr>
<td>F-5575L(*)</td>
<td>9&quot;(22.9cm)</td>
<td>5-1/2&quot;(14.0cm)</td>
<td>1-1/2&quot;(3.8cm)</td>
<td>6-1/2&quot;(16.5cm)</td>
<td>3-1/4&quot;(8.3cm)</td>
<td>1-5/16&quot;(3.3cm)</td>
</tr>
<tr>
<td>F-55010L(*)</td>
<td>10-5/8&quot;(27.0cm)</td>
<td>5-1/4&quot;(13.3cm)</td>
<td>1-3/4&quot;(4.4cm)</td>
<td>8&quot;(20.3cm)</td>
<td>3-1/2&quot;(8.9cm)</td>
<td>1-7/16&quot;(3.7cm)</td>
</tr>
<tr>
<td>F-55200L(*)</td>
<td>10-5/8&quot;(27.0cm)</td>
<td>5-1/4&quot;(13.3cm)</td>
<td>1-3/4&quot;(4.4cm)</td>
<td>8&quot;(20.3cm)</td>
<td>2&quot;(cm)</td>
<td>12-1/64&quot;(30.5cm)</td>
</tr>
</tbody>
</table>

Note: Mount Hole Dimensions are the same as the Model Non-Adjustable.

F-550 ADJUSTABLE DIMENSIONS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Mount Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-550A(*)</td>
<td>7-1/4&quot;(18.4cm)</td>
<td>2-1/2&quot;(6.4cm)</td>
<td>11/16&quot;(2.4cm)</td>
<td>5-5/8&quot;(14.3cm)</td>
<td>1-1/4&quot;(cm)</td>
<td>3/8&quot;(1.4cm)</td>
</tr>
<tr>
<td>F-5535A(*)</td>
<td>8-3/8&quot;(21.3cm)</td>
<td>2-3/4&quot;(7.0cm)</td>
<td>1-11/32&quot;(3.4cm)</td>
<td>6-1/2&quot;(16.5cm)</td>
<td>1-1/2&quot;(cm)</td>
<td>7/8&quot;(2.2cm)</td>
</tr>
<tr>
<td>F-5550L(*)</td>
<td>8-3/8&quot;(21.3cm)</td>
<td>2-3/4&quot;(7.0cm)</td>
<td>1-11/32&quot;(3.4cm)</td>
<td>6-1/2&quot;(16.5cm)</td>
<td>1-1/2&quot;(cm)</td>
<td>3/4&quot;(1.9cm)</td>
</tr>
<tr>
<td>F-5575L(*)</td>
<td>9&quot;(22.9cm)</td>
<td>5-1/2&quot;(14.0cm)</td>
<td>1-1/2&quot;(3.8cm)</td>
<td>6-1/2&quot;(16.5cm)</td>
<td>3-1/4&quot;(8.3cm)</td>
<td>1-5/16&quot;(3.3cm)</td>
</tr>
<tr>
<td>F-55010L(*)</td>
<td>10-5/8&quot;(27.0cm)</td>
<td>5-1/4&quot;(13.3cm)</td>
<td>1-3/4&quot;(4.4cm)</td>
<td>8&quot;(20.3cm)</td>
<td>3-1/2&quot;(8.9cm)</td>
<td>1-7/16&quot;(3.7cm)</td>
</tr>
</tbody>
</table>

F-550 ORDERING GUIDELINES

- All Horizontal mount meters are NSF 50 listed.
- No metal in the fluid.
- Horizontal or Vertical pipe installation.
- One-piece machined acrylic meter body.
- Corrosion resistant internal parts.
- Red plastic float will not corrode.
- Smooth flow means no float bounce.
- Improved Accuracy: 1" through 2" = ±5% of rate, 2-1/2" through 8" = ±10% of rate.
- Minimal space needed for installation.
- Easy Reading: Bold, black, permanent printing. Large distance between lines.
- Use on SCH 40 and SCH 80.
- Additional Accessory: Optional flow switch can be ordered separately for alarm feedback.

F-300 SERIES
Machined Acrylic Flowmeters

F-300 BENEFITS
- All horizontal mount meters are NSF 50 listed.
- No metal in the fluid.
- Horizontal or Vertical pipe installation.
- One-piece machined acrylic meter body.
- Corrosion resistant internal parts.
- Red plastic float will not corrode.
- Smooth flow means no float bounce.
- Improved Accuracy: 1" through 2" = ±5% of rate, 2-1/2" through 8" = ±10% of rate.
- Minimal space needed for installation.
- Easy Reading: Bold, black, permanent printing. Large distance between lines.
- Use on SCH 40 and SCH 80.
- Additional Accessory: Optional flow switch can be ordered separately for alarm feedback.
F-440 SERIES Compact Size. Big Performance.

**F-440 BENEFITS**
- Adjustable Flow Indicating Marker.
- Engineered with large half union connections.
- Oversized o-rings for Superior seal.
- All wetted parts are PVDF or Polypropylene.
- Tough Polysulfone meter body resists high temperatures and pressures.*
- Compact size for tight installation spaces.
- 2" scale length (approximate).
- Direct reading permanent scale.
- In-line or Panel mount configurations available.
- Optional Integral Flow Adjustment Valve.
- Standard models have #316 Stainless Steel, PTFE or PVC float. (Optional K-series Hastelloy or PVDF)."}

**F-440 SPECIFICATIONS**
- Max. Working Pressure: 175 psig (10.3 bar) @ 70˚F (21˚C)
- Max. Fluid Temperature: 240˚F (115˚C) @ 0 PSI
- Max. Working Pressure: 212˚F (100˚C) @ 0 PSI
- Full Scale Accuracy: +/- 4%
- Meter Body Material: Polysulfone (optional Brass)
- O-Ring Material: FKM (optional EP)
- Adapter Material: Polysulfone (optional Brass)
- Approx. Shipping Weight: 1/2 lb. (.23 kg)

**F-440 ORDERING GUIDELINES**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Pipe Size</th>
<th>Dual Scale Range</th>
<th>Float Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-44500LA-8</td>
<td>3/8&quot;</td>
<td>0.1 to 10</td>
<td>PVC</td>
</tr>
<tr>
<td>F-44500L-12</td>
<td>3/4&quot;</td>
<td>0.5 to 50</td>
<td>PVC</td>
</tr>
<tr>
<td>F-44500L-6</td>
<td>1/2&quot;</td>
<td>1.0 to 10</td>
<td>PVC</td>
</tr>
<tr>
<td>F-44750(*)-12</td>
<td>3/4&quot;</td>
<td>0.5 to 60</td>
<td>PVC</td>
</tr>
<tr>
<td>F-44750(*)-8</td>
<td>3/8&quot;</td>
<td>0.2 to 10</td>
<td>PVC</td>
</tr>
<tr>
<td>F-44750(*)-6</td>
<td>1/2&quot;</td>
<td>0.1 to 10</td>
<td>PVC</td>
</tr>
<tr>
<td>F-44375(*)-8</td>
<td>3/8&quot;</td>
<td>0.2 to 10</td>
<td>PVC</td>
</tr>
<tr>
<td>F-44375(*)-6</td>
<td>1/2&quot;</td>
<td>0.1 to 10</td>
<td>PVC</td>
</tr>
<tr>
<td>F-44375(*)-12</td>
<td>3/4&quot;</td>
<td>0.5 to 60</td>
<td>PVC</td>
</tr>
<tr>
<td>F-44250(*)-6</td>
<td>3/8&quot;</td>
<td>0.1 to 10</td>
<td>PVC</td>
</tr>
<tr>
<td>F-44250(*)-12</td>
<td>3/4&quot;</td>
<td>0.2 to 10</td>
<td>PVC</td>
</tr>
<tr>
<td>F-44250(*)-8</td>
<td>3/8&quot;</td>
<td>0.1 to 10</td>
<td>PVC</td>
</tr>
</tbody>
</table>

**F-450N SERIES Performance and Versatility**

**F-450N BENEFITS**
- Adjustable Flow Indicating Marker.
- Engineered with large half union connections.
- Oversized o-rings for Superior seal.
- All wetted parts are PVDF or Polypropylene.
- Tough Polysulfone meter body resists high temperatures and pressures.*
- 4" approximate scale length for easy reading.
- Direct reading permanent scale.
- In-line or Panel mount configurations available.
- Optional integral flow adjustment valve.
- Standard models have #316 Stainless Steel or PTFE float. (Optional K-series Hastelloy or PVDF).
- Not recommended for direct sunlight.
- Solarmeter® units available with in-line Brass adapters. Contact factory for more information.

**F-450N SPECIFICATIONS**
- Max. Working Pressure: 175 psig (10.3 bar) @ 70˚F (21˚C)
- Max. Fluid Temperature: 240˚F (115˚C) @ 0 PSI
- Max. Working Pressure: 3.0 to 30.0 GPM
- Full Scale Accuracy: +/- 4%
- Meter Body Material: Polysulfone (optional Brass)
- O-Ring Material: FKM (optional EP)
- Adapter Material: Polysulfone (optional Brass)
- Pressure Drop: 0.5 to 5 psi
- Approx. Shipping Weight: 72 lb. (33 kg)

**F-450N ORDERING GUIDELINES**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Pipe Size</th>
<th>Dual Scale Range</th>
<th>Float Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-45375(*)-12</td>
<td>3/4&quot;</td>
<td>0.5 to 60</td>
<td>PVC</td>
</tr>
<tr>
<td>F-45375(*)-8</td>
<td>3/8&quot;</td>
<td>0.2 to 10</td>
<td>PVC</td>
</tr>
<tr>
<td>F-45375(*)-6</td>
<td>1/2&quot;</td>
<td>0.1 to 10</td>
<td>PVC</td>
</tr>
<tr>
<td>F-45500(*)-12</td>
<td>3/4&quot;</td>
<td>0.5 to 60</td>
<td>PVC</td>
</tr>
<tr>
<td>F-45500(*)-8</td>
<td>3/8&quot;</td>
<td>0.2 to 10</td>
<td>PVC</td>
</tr>
<tr>
<td>F-45500(*)-6</td>
<td>1/2&quot;</td>
<td>0.1 to 10</td>
<td>PVC</td>
</tr>
<tr>
<td>F-45750(*)-12</td>
<td>3/4&quot;</td>
<td>1.0 to 10</td>
<td>PVC</td>
</tr>
<tr>
<td>F-45750(*)-8</td>
<td>3/8&quot;</td>
<td>0.2 to 10</td>
<td>PVC</td>
</tr>
<tr>
<td>F-45750(*)-6</td>
<td>1/2&quot;</td>
<td>0.1 to 10</td>
<td>PVC</td>
</tr>
</tbody>
</table>

**PIPE SIZES**
- Standard Models: 3/8" F/NPT, 1/2", 3/4" M/NPT
- Solarmeter® Models: 3/8" F/NPT, 1/2", 3/4" M/NPT, and 1/2" or 3/4" SWEAT in-line fittings.
The factory does not guarantee their flowmeters for use with liquids other than water. Customers are required to do their own compatibility testing.

**F-451 ORDERING GUIDELINES**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CALIBRATION</th>
<th>ADAPTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-451006LHN</td>
<td>0.5 to 6</td>
<td>22</td>
</tr>
<tr>
<td>F-451003LHN</td>
<td>1.0 to 10</td>
<td>4 to 40</td>
</tr>
<tr>
<td>F-451002LHN</td>
<td>2.0 to 20</td>
<td>7.5 to 75</td>
</tr>
<tr>
<td>F-451001LHN</td>
<td>3.0 to 30</td>
<td>12 to 115</td>
</tr>
<tr>
<td>F-451004LHN</td>
<td>4.0 to 40</td>
<td>15 to 155</td>
</tr>
</tbody>
</table>

**1-1/2” F/NPT PVC Adapters**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CALIBRATION</th>
<th>ADAPTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-451006LHN-24</td>
<td>0.5 to 6</td>
<td>22</td>
</tr>
<tr>
<td>F-451003LHN-24</td>
<td>1.0 to 10</td>
<td>4 to 40</td>
</tr>
<tr>
<td>F-451002LHN-24</td>
<td>2.0 to 20</td>
<td>7.5 to 75</td>
</tr>
<tr>
<td>F-451001LHN-24</td>
<td>3.0 to 30</td>
<td>12 to 115</td>
</tr>
<tr>
<td>F-451004LHN-24</td>
<td>4.0 to 40</td>
<td>15 to 155</td>
</tr>
</tbody>
</table>

**F-452N SERIES**

- One piece Polysulfone meter body resists high temperatures and pressures.*
- 316 Stainless Steel or Hastelloy rod guided float.
- Direct reading permanent scale.
- Adapters and unions engineered for maximum protection from misalignment and vibration.
- Optional Polycarbonate Protective Shield.
- Not recommended for direct sunlight applications.
- Optional K Series for corrosive applications.

**F-452 ORDERING GUIDELINES**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DUAL SCALE RANGE</th>
<th>ADAPTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-452020LHN</td>
<td>2 to 60</td>
<td>80 to 230</td>
</tr>
<tr>
<td>F-452060LHN</td>
<td>6 to 100</td>
<td>30 to 380</td>
</tr>
<tr>
<td>F-452100LHN</td>
<td>10 to 130</td>
<td>50 to 675</td>
</tr>
<tr>
<td>F-452150LHN</td>
<td>15 to 175</td>
<td>100 to 720</td>
</tr>
</tbody>
</table>

**Pipe Sizes**

- 2” F/NPT
- 8 to 675 LPM

**Dimensions**

- Height: 14-5/8” (36.8 cm)
- Width: 3-5/16” (8.4 cm)

**F-451 BENEFITS**

- A Heat and Chemical resistant meter body of injection molded Polysulfone.*
- Floats are #316 S.S. or PTFE, depending on calibration.
- Permanent, easy to read screen printed scales.
- 1” F/NPT Polysulfone adapters, or 1-1/2” PVC adapters (depending on model ordered).
- FKM O-ring Seals, Optional EP.
- Accuracy ± 3%.
- May be ordered with 90° elbow adapters.
- Available with 1” brass sweat or brass F/NPT adapters.
- Available with Polycarbonate Protective Shield.
- Not recommended for direct sunlight applications.
- Optional K Series for corrosive applications.

**F-452N SPECIFICATIONS**

- Max. Working Pressure: 150 psig (10 Bar) @ 70°F (21°C)
- Max. Fluid Temperature: 212°F (100°C) @ 0 PSI
- Full Scale Accuracy: ± 3%
- Meter Body Material: Polysulfone
- Adapter Material: 1” Polysulfone & 1 1/2” PVC
- O-Rings: FKM (Optional EP)
- Float Material: 316 S.S., Hastelloy C or PTFE
- Max. Pressure Drop: 2 psi
- Approx. Shipping Weight: 3 lbs (1.36 kg)

**F-451 SPECS**

- Max. Working Pressure: 150 psi (10 Bar) @ 70°F (21°C)
- Max. Fluid Temperature: 212°F (100°C) @ 0 PSI
- Full Scale Accuracy: ± 3%
- Meter Body Material: Polysulfone
- Guide Rod Material: 316 Stainless Steel
- O-Rings: FKM (Optional EP)
- Max. Pressure Drop: 2 psi
- Approx. Shipping Weight: 3 lbs (1.36 kg)

- 2” F/NPT
- 8 to 675 LPM

* The factory does not guarantee their flowmeters for use with liquids other than water. Customers are required to do their own compatibility testing. Request Kit #70000-718, at no charge.
F-460 & F-461 SERIES

**F-460 & F-461 BENEFITS**
- Polysulfone meter body with precisely engineered float guide ribs.
- No metal in the fluid path.
- Direct reading permanent scale.
- Ideal for corrosive environments* such as Deionized Water or other applications where an all plastic meter is desirable.
- Not recommended for direct sunlight.

**F-460 & F-461 SPECIFICATIONS**
- Max. Working Pressure: 150 psi (10.3 bar) @ 70°F (21°C)
- Max. Fluid Temperature: 200°F (93°C) @ 0 psi
- Full Scale Accuracy: ± 2.5% Full Scale
- Meter Body Material: Polypropylene
- Float Material: PTFE
- O-ring Seals: FKM (Optional EP)
- Max. Pressure Drop: 2 psi
- Approx. Shipping Weight: 1 lb. (0.45 kg), F-461 = 3 lb. (1.4 kg)

**F-460 PIPE SIZES**
- 1/2” & 3/4” F/NPT
- 1/2” & 3/4” Socket Fusion

**F-460 FLOW RATES**
- 0.1 to 5.0 LPM
- 0.4 to 20 LPM

**F-460 DIMENSIONS**
- Height: 10” (25.4cm)
- Width: 2-3/4”

**F-461 PIPE SIZES**
- 1/2” & 3/4” F/NPT
- 1/2” & 3/4” Socket Fusion

**F-461 FLOW RATES**
- 0.5 to 5.0 LPM
- 0.8 to 8.0 LPM
- 2.0 to 20 LPM

**F-461 DIMENSIONS**
- Height: 15”
- Width: 2-3/4”

*The factory does not guarantee their flowmeters for use with liquids other than water. Customers are required to do their own compatibility testing.

**ORDERING GUIDELINES**
- Standard F-460 liquid models with F/NPT adapters
- Standard F-461 liquid models with F/NPT adapters
- Standard F-462 liquid models with 2” Socket Fusion adapters

**F-462 BENEFITS**
- Polypropylene meter body with precisely engineered float guide ribs.
- No metal in the fluid path.
- Direct reading permanent scale.
- Ideal for corrosive environments* such as Deionized Water or other applications where an all plastic meter is desirable.
- Not recommended for direct sunlight.

**F-462 SPECIFICATIONS**
- Max. Working Pressure: 150 psi (10.3 bar) @ 70°F (21°C)
- Max. Fluid Temperature: 200°F (93°C) @ 0 psi
- Full Scale Accuracy: ± 2.5% Full Scale
- Meter Body Material: Polypropylene
- Float Material: PTFE
- O-ring Seals: FKM (Optional EP)
- Max. Pressure Drop: 2 psi
- Approx. Shipping Weight: 5 lb. (2.27 kg)

**PIPE SIZES**
- 2” F/NPT, 2” Socket Fusion, 63mm Butt Fusion

**FLOW RATES**
- 2 to 80 GPM
- 6 to 300 LPM

**DIMENSIONS**
- Height: 18-7/8” (47.9cm)
- Width: 4-5/8” (11.7cm)

**ORDERING GUIDELINES**
- F-462500LX-32K
- F-462200LX-32K
- F-462200LX-33K

**STANDARD F-462 LIQUID MODELS with 2” Socket Fusion Adapters**
- F-462500LX-34K
- F-462200LX-34K
- F-462200LX-34G

**MODEL Variations**
- "K" = PVDF Adapter
- "P" = PVC Adapter
- PVC Union Nuts = replace “X” with “P”

Contact factory for Socket Fusion Models.
BLUE-WHITE’S CAREFULLY ENGINEERED BW DIGI-METER® F-1000 SERIES INCLUDE PREMIER FEATURES AND PROVIDE OUTSTANDING PERFORMANCE.

Three versions of the BW DIGI-METER® F-1000 are offered. The F-1000RB Unit is a rate meter only; the F-1000TB Unit is a flow totalizer; and the F-1000RT Unit is both a Rate Meter and Flow Totalizer. BW DIGI-METERS are available with a number of configuration and mounting style options. If you don’t see the unit that meets your requirements here, please contact our courteous and knowledgeable staff for assistance.

**F-1000 BENEFITS**
- Easy to read six digit LCD, up to four decimal positions.
- Tamper proof.
- Battery operated (2 AAA batteries included).
- Three model variations:
  - **RB** = RATE ONLY
  - **TB** = TOTAL ONLY
  - **RT** = RATE & TOTALIZER
- Total reset function can be disabled.
- Display update time: Rate 1.5 sec., Total 0.5 sec.
- Factory calibrated - nothing to program.
- Custom calibration units available. Contact the factory.
- Weather resistant ABS enclosure. NEMA 4X
- Calibration Units: GPM, LPM, M3/H, oz/min, GPH,LPH.
- LCD is not recommended for direct sunlight applications.

### F-1000 SPECIFICATIONS
#### WITH SADDLE MOUNT BODY
- **Max. Working Pressure**: 300 psig (20 bar) @ 70˚ F (21˚ C)
- **Max. Fluid Temperature**: 200˚ F (93˚ C) @ 0 PSI (all PVDF saddle fittings)
- **Full scale accuracy**: +/2%
- **Sensor/Paddle/Axle material**: PVDF
- **O-ring seals**: FKM (Optional EP)
- **Max. pressure drop**: 0 psi (no significant drop)
- **Approximate shipping wt.**: 2 lb. (.91 kg)

#### WITH SOLVENT WELD OR STAINLESS STEEL TEE BODY
- **Max. Working Pressure**: 316 SS Tee fittings 300 psig (20 bar) @ 70˚ F (21˚ C)
- **Max. Fluid Temperature**: 200˚ F (93˚ C) @ 0 PSI
- **Full scale accuracy**: +/2%
- **Tee material options**: 316 Stainless Steel, PVC
- **O-ring seals**: FKM (Optional EP)
- **Max. pressure drop**: 0 psi (no significant drop)
- **Approximate shipping wt.**: 2 lb. (.91 kg)

#### WITH MOLDED IN-LINE BODY
- **Max. Working Pressure**: 300 psig (20 bar) @ 70˚ F (21˚ C)
- **Max. Fluid Temperature**: 200˚ F (93˚ C) @ 0 PSI
- **Full scale accuracy**: +/2%
- **Meter body material**: Polysulfone
- **Sensor/Paddle/Axle material**: PVDF
- **O-ring seals**: FKM (Optional EP)
- **Max. pressure drop**: 8 psi (varies per model)
- **Approximate shipping wt.**: 2 lb. (.91 kg)
THE THOUGHTFULLY ENGINEERED BW DIGI-METER® F-2000 COMBINE INNOVATIVE FEATURES AND BENEFITS, AND THE FINEST MATERIALS OF CONSTRUCTION TO PROVIDE AN ACCURATE AND VERSATILE DIGITAL FLOWMETER.

If you don’t see the unit that matches your requirements listed here, please contact our courteous and knowledgeable staff for assistance.

FOUR MODEL VARIATIONS

RT = Rate and Totalizer. Transformer or battery operated.
AO = 4-20mA, 0-10 VDC analog output, flow rate & totalizer. Transformer operated.
PC = Batch processing, flow rate alarm, proportional chemical metering, flow rate and totalizer. Transformer operated.
AP = Analog output, batch processing, flow rate alarm, proportional chemical metering, flow rate and totalizer. Transformer operated.

F-2000 BENEFITS

• Easy to read 8 digit LCD, up to 4 decimal positions.
• Flow rate and Total flow display.
• AC/DC transformer or battery operated (RT models only). 4 AA batteries.
• Factory programmed with calibration certificate.
• Field programmable via front panel touch pad.
• Front panel security lockout.
• Total reset function can be disabled.
• Weather resistant ABS enclosure. NEMA 4X.
  Note: LCD is not recommended for direct sunlight applications.
• Panel mounting option available.
• Custom calibration units available. Contact the factory.

F-2000 SPECIFICATIONS

WITH SADDLE MOUNT BODY

Max. Working Pressure ................. 300 psig (20 bar) @ 70˚F (21˚C)
Max. Fluid Temperature .............. 200˚F (93˚C) @ 0 PSI
............................................. 140˚F (60˚C) @ 0 PSI
Note: Temperatures rating of F-2000 only. Actual pipe rating may vary.
Full Scale Accuracy .................. +/- 1%
Sensor/Paddle/Axle Material ........ PVDF
O-ring Seals ......................... FKM
Max. Pressure Drop ................. 0 psi (no significant pressure drop)
Approx. Shipping Weight .......... 4 lb. (1.8 kg)

WITH SOLVENT WELD OR STAINLESS STEEL TEE BODY

Max. Working Pressure ................. 300 psig (20 bar) @ 70˚F (21˚C)
Max. Fluid Temperature .............. 200˚F (93˚C) @ 0 PSI
............................................. 140˚F (60˚C) @ 0 PSI
Full scale accuracy .................. +/- 1%
Tee material options ............... 316 Stainless Steel, PVC
Body, Paddle, Axle material ....... PVDF
O-ring seals ........................ FKM (Optional EP)
Max. pressure drop ................... 0 psi (no significant drop)
Approximate shipping wt .......... 4 lb. (1.8 kg)

WITH MOLDED IN-LINE BODY

Max. Working Pressure ................. 300 psig (20 bar) @ 70˚F (21˚C)
Max. Fluid Temperature .............. 200˚F (93˚C) @ 0 PSI
Full Scale Accuracy .................. +/- 1%
Sensor/Paddle/Axle Material ....... PVDF
O-ring Seals ......................... FKM
Max. Pressure Drop ................. 8 psi (Varies per model)
Approx. Shipping Weight .......... 4 lb. (1.8 kg)
BW DIGI-METER® F-2000 SERIES ELECTRONIC INSERTION STYLE FLOWMETERS, ARE WELL SUITED FOR MONITORING FLOW IN MUNICIPAL WATER AND WASTEWATER APPLICATIONS.

The clamp on saddle fitting and insertion sensor is quickly installed on IPS (ASTM-D-1785) pipe sizes from 1-1/2” through 12” and metric (DIN 8062) pipe sizes from 50mm through 315mm. The electronic display and communication enclosure can be mounted directly to the sensor, or remotely mounted to a pipe or panel.

Standard F-2000 models display flow rate and accumulated total flow, and include an NPN open collector output for communication with data loggers, SCADA systems, and other external devices.
SADDLE FEATURES

• 1-1/2" thru 3" (50mm thru 90mm) injection molded PVDF.
• 4" thru 12" (110mm thru 315mm) machined from solid PVC sheet stock.
• Installs on existing pipe – no other fittings are required.
• No added pressure drop to system.
• Ships with metal clamps to secure fitting to pipe.

SADDLE SPECIFICATIONS

Max. Working Pressure: 300 psig (20 bar) @ 70˚F (21˚C)
Max. Fluid Temperature: 200˚F (93˚C) @ 0 PSI (PVC)
140˚F (60˚C) @ 0 PSI (PVDF)

Note: Temperatures rating of F-2000 only.
Actual pipe rating may vary.

Power Requirements: 5-24VDC, AC/DC transformer sold separately.
Full Scale Accuracy: +/- 1%
Sensor/Paddle/Axle Material: PVDF
O-ring Seals: FKM (Optional EP)
Approx. Shipping Weight: 2 lb. (0.9 kg)

BLUE-WHITE F-1000 AND F-2000 FLOWMETER model numbers include a pipe fitting as part of the complete model number. Although it is possible to purchase the pipe fittings separately, it is not necessary.

TEE FEATURES

• Easy to install.
• No added pressure drop to system.

TEE SPECIFICATIONS

Max. PSI: 300 psig (20 bar) @ 70˚F (21˚C)
Max. Temp: 200˚F (93˚C) @ 0 PSI (PVC)
140˚F (60˚C) @ 0 PSI (PVDF)

PIE SIZE:
1", 1-1/2", 2", 3"

I.P.S. PIPE SIZES:
1-1/2", 2", 2-1/2", 3", 4", 6", 8", 10", 12"

METRIC PIPE SIZES:
50, 63, 90, 110, 160, 200, 250, 315MM

BLUE-WHITE F-1000 & F-2000 INSTALLATION OPTIONS

MOLED IN-LINE

• One piece injection molded construction.
• Male pipe thread In-line installation.
• Polypropylene fittings for standard applications.
• PVDF material for highly corrosive applications.

MOLED IN-LINE SPECIFICATIONS

Max. PSI: 300 psig (20 bar) @ 70˚F (21˚C)
Max. Temp: 200˚F (93˚C) @ 0 PSI (PVDF)
140˚F (60˚C) @ 0 PSI (PVC)

Note: Temperature rating of pipe fitting only.
Actual pipe rating may vary.

PIE SIZE: