THE Right Choice FOR POOLS, SPAS & WATERPARKS

POOL INDUSTRY PROFESSIONALS HAVE RELIED ON BLUE-WHITE® CHLORINATORS AND FLOWMETERS FOR MORE THAN 60 YEARS!

www.blue-white.com
Quick, Accurate Flow Measurement

Blue-White® has re-engineered the classic F-300 Series Flowmeter to make it even more accurate, reduce space requirements for installation, and to provide enhanced features without changing the iconic look of this Industry favorite – including the Red Cap!

**F-300 BENEFITS**
- Determine Circulation System flow rate in seconds.
- Red PVDF Cap material doesn't fade or crack!
- Dual Scale & Easy Reading – now reads SCH 80 & SCH 40 in permanent bold black print on both sides of the meter body.
- Red PVDF Float is "Non-stick", chemical resistant, and easy to read.
- One piece machined acrylic meter body.
- Excellent Accuracy: +/-5% for 1"-2"; +/-10% for 2.5"-8".
- Installs quickly!

**F-300 SPECIFICATIONS**

- **Max. Working Pressure**: 75 psig (517 bar) @ 70˚F (21˚C)
- **Max. Fluid Temperature**: 190°F (88°C) @ 0 psig
- **Pipe Clamp Material**: 316 Stainless Steel
- **Meter Body Material**: Acrylic
- **Gasket Material**: Neoprene
- **Float Material**: PVDF
- **Cap Material**: PVDF
- **Connection Type**: Saddle

**Approx. Shipping Weight**
- 1" to 4" Pipe: 1 lbs (0.454 kg)
- 6" to 8" Pipe: 2 lbs (0.907 kg)

Quick, Accurate Flow Measurement

Blue-White® has re-engineered the classic F-300 Series Flowmeter to make it even more accurate, reduce space requirements for installation, and to provide enhanced features without changing the iconic look of this Industry favorite – including the Red Cap!

**F-300 ORDERING**

**HORIZONTAL INSTALLATION**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Model Number</th>
<th>U.S. IPS Pipe (ASTM D-1785) Flow Range</th>
<th>COPPER TUBE Types K&amp;L Flow Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>F-30100(*)</td>
<td>5–35</td>
<td>4–26 5–100</td>
</tr>
<tr>
<td>1.25&quot;</td>
<td>F-30125P</td>
<td>9–50</td>
<td>8–40</td>
</tr>
<tr>
<td>1.5&quot;</td>
<td>F-30150(*)</td>
<td>10–70</td>
<td>10–60</td>
</tr>
<tr>
<td>2&quot;</td>
<td>F-30200(*)</td>
<td>20–120</td>
<td>18–100</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>F-30250P</td>
<td>29–150</td>
<td>25–130</td>
</tr>
<tr>
<td>3&quot;</td>
<td>F-30300P</td>
<td>45–240</td>
<td>40–215</td>
</tr>
<tr>
<td>4&quot;</td>
<td>F-30400P</td>
<td>75–420</td>
<td>70–400</td>
</tr>
<tr>
<td>6&quot;</td>
<td>F-30600P</td>
<td>170–1100</td>
<td>160–1000</td>
</tr>
<tr>
<td>8&quot;</td>
<td>F-30800P</td>
<td>300–2200</td>
<td>275–1950</td>
</tr>
</tbody>
</table>

**VERTICAL INSTALLATION**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Model Number</th>
<th>U.S. IPS Pipe (ASTM D-1785) Flow Range</th>
<th>COPPER TUBE Types K&amp;L Flow Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5&quot;</td>
<td>U-30150(*)</td>
<td>20–100</td>
<td>75–375</td>
</tr>
<tr>
<td>1.5&quot;</td>
<td>D-30150(*)</td>
<td>9–30</td>
<td>30–120</td>
</tr>
<tr>
<td>2&quot;</td>
<td>U-30200(*)</td>
<td>40–150</td>
<td>150–550</td>
</tr>
<tr>
<td>2&quot;</td>
<td>D-30200(*)</td>
<td>18–70</td>
<td>70–280</td>
</tr>
</tbody>
</table>

**Model Variations:**
- Replace (*) with **P** = PVC Pipe
- Replace (*) with **T** = Copper Tube

**Note:** If used on SCHEDULE 80 PVC pipe will read 12% higher than actual (OLD STYLE ONLY).

**Note:** Old style vertical pipe copper units are not yet revised and do need a suffix “R” denoting "reduced rate”.

**VERTICAL INSTALLATION**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Model Number</th>
<th>U.S. IPS Pipe (ASTM D-1785) Flow Range</th>
<th>COPPER TUBE Types K&amp;L Flow Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5&quot;</td>
<td>U-30150(*)</td>
<td>20–100</td>
<td>75–375</td>
</tr>
<tr>
<td>1.5&quot;</td>
<td>D-30150(*)</td>
<td>9–30</td>
<td>30–120</td>
</tr>
<tr>
<td>2&quot;</td>
<td>U-30200(*)</td>
<td>40–150</td>
<td>150–550</td>
</tr>
<tr>
<td>2&quot;</td>
<td>D-30200(*)</td>
<td>18–70</td>
<td>70–280</td>
</tr>
</tbody>
</table>

**Note:** New style vertical pipe units do not have the need for a suffix “R” denoting “reduced rate”.

**Note:** Old style vertical pipe copper units are not yet revised and do need a suffix “R” denoting "reduced rate”.

**F-300S & F-300SL Flow Switch**

Consider Installing a Flow Switch with your Flowmeter

Certain your recirculation pump is working properly? Is your filter clogged?

**OPTIONAL FLOW SWITCH IS DESIGNED TO DETECT FLOW / NO FLOW.**

When the New F-300 Flowmeters' Red PVDF float enters the Alarm Trigger Zone of the F-300S & F-300SL Sensor, the built-in dry contact switch closes – providing a trigger to external devices.

**IT’S A SWITCH, OR A SENSOR, OR BOTH!**

- **Set up as a FLOW SWITCH:** The F-300S detects if the flow rate is at the desired level.
- **Set up as a FLOW SENSOR:** The F-300S detects whether the water is flowing through the pipe, or if there is a 'no flow' environment.
- **Set up as a FLOW SWITCH & SENSOR:** Two F-300S Switches can be placed onto one meter to enable both features!
**F-1000 & F-2000 Paddlewheel Flowmeters**

**F-1000: Accurate & Dependable Flow Measurement**

For vertical or horizontal installation. Easy to install, easy to operate. An excellent choice for water parks & water features. Blue-White's carefully engineered BW DIGI-METER® F-1000 Series is a **Battery Operated Pipe Mount Display** which includes premier features and provides outstanding performance.

**F-1000 BENEFITS**
- Factory programmed to your specifications – nothing to program.
- Battery powered with 2 AAA batteries included.
- Easy to read 6 digit LCD display with up to 4 decimal positions.
- Tamper proof.
- Weather resistant ABS enclosure. NEMA 4X.
- Three model variations:
  - **RB** = RATE ONLY,
  - **TB** = TOTAL ONLY,
  - **RT** = RATE & TOTALIZER

**F-1000 & F-2000 SPECIFICATIONS**

Max. Working Pressure
- **Saddle:** 300 psig (20 bar) @ 70°F (21°C)
- **TEE:** 200 psig (13.8 bar) @ 70°F (21°C)

Max. Fluid Temperature
- **PVDF Saddle:** 200°F (93°C) @ 0 psi
- **PVC Saddle and TEE:** 140°F (60°C) @ 0 psi

Note: Temperature rating of F-1000 only. Actual pipe rating may vary.

**Full Scale Accuracy**
- **F-1000:** ± 2%,
- **F-2000:** ± 1%

**Saddle Material**
- PVDF (1-1/2", 2", 3" sizes), PVC (all other sizes)

**Sensor/Paddle/Axle Material**
- PVDF

**O-ring Seals**
- FKM (Optional EP)

**Max. Pressure Drop**
- 0 psi (no significant pressure drop)

**Approx. Shipping Weight**
- **F-1000:** 2 lbs. (911 kg), **F-2000:** 4 lbs. (1.8 kg)

**F-2000: Monitor Flow Accurately**

The BW DIGI-METER® F-2000 is an **AC or Battery Operated Remote Mount Display** which combines innovative features and benefits, and the finest materials of construction to provide an accurate and versatile Digital Flowmeter.

**F-2000 BENEFITS**
- Easy to read 8 digit LCD, up to 4 decimal positions.
- Flow rate and total flow display.
- 4 AA Batteries included. AC/DC transformer available.
- Field programmable via front panel touch pad.
- Front panel security lockout.
- Total reset function can be disabled.
- Weather resistant ABS enclosure. Note: LCD is not recommended for direct sunlight applications.
- Optional 4-20mA or 0-10VDC Output
- Optional Pipe/wall mounting kit available.
- Sensor mounting option available.

**F-1000 & F-2000 ORDERING**

**SOLVENT WELD PVC TEE**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Flow Range</th>
<th>F-1000 (Rate Only)</th>
<th>F-2000 (Battery Operated)</th>
<th>F-2000 (AC 115V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>6–60</td>
<td>RB-100AT-GPM1</td>
<td>RTPB10ATGM1</td>
<td>RTP110ATGM1</td>
</tr>
<tr>
<td>1.5&quot;</td>
<td>15–150</td>
<td>RB-150AT-GPM1</td>
<td>RTPB15ATGM1</td>
<td>RTP115ATGM1</td>
</tr>
<tr>
<td>2&quot;</td>
<td>30–300</td>
<td>RB-200AT-GPM1</td>
<td>RTPB20ATGM1</td>
<td>RTP120ATGM1</td>
</tr>
<tr>
<td>3&quot;</td>
<td>60–600</td>
<td>RB-300AT-GPM1</td>
<td>RTPB30ATGM1</td>
<td>RTP130ATGM1</td>
</tr>
<tr>
<td>6&quot;</td>
<td>15–150</td>
<td>RTPB15K(*)GM1</td>
<td>RTPB15K(*)GM1</td>
<td>RTP115K(*)GM1</td>
</tr>
<tr>
<td>8&quot;</td>
<td>30–300</td>
<td>RTPB20K(*)GM1</td>
<td>RTPB20K(*)GM1</td>
<td>RTP120K(*)GM1</td>
</tr>
<tr>
<td>10&quot;</td>
<td>60–600</td>
<td>RTPB25A(*)GM1</td>
<td>RTPB25A(*)GM1</td>
<td>RTP125A(*)GM1</td>
</tr>
<tr>
<td>12&quot;</td>
<td>100–1000</td>
<td>RTPB40A(*)GM1</td>
<td>RTPB40A(*)GM1</td>
<td>RTP140A(*)GM1</td>
</tr>
<tr>
<td>15&quot;</td>
<td>150–1500</td>
<td>RTPB60A(*)GM1</td>
<td>RTPB60A(*)GM1</td>
<td>RTP160A(*)GM1</td>
</tr>
<tr>
<td>20&quot;</td>
<td>300–3000</td>
<td>RTPB80A(*)GM1</td>
<td>RTPB80A(*)GM1</td>
<td>RTP180A(*)GM1</td>
</tr>
<tr>
<td>30&quot;</td>
<td>600–6000</td>
<td>RTPB100A(*)GM1</td>
<td>RTPB100A(*)GM1</td>
<td>RTP1100A(*)GM1</td>
</tr>
<tr>
<td>40&quot;</td>
<td>1200–12000</td>
<td>RTPB120A(*)GM1</td>
<td>RTPB120A(*)GM1</td>
<td>RTP1120A(*)GM1</td>
</tr>
</tbody>
</table>

**SADDLE MOUNT / U.S. IPS PIPE (ASTM 1785)**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Flow Range</th>
<th>F-1000 (Rate Only)</th>
<th>F-2000 (Battery Operated)</th>
<th>F-2000 (AC 115V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2&quot;</td>
<td>15–150</td>
<td>RB-150S(*)-GPM1</td>
<td>RTPB15S(*)-GPM1</td>
<td>RTP115S(*)-GM1</td>
</tr>
<tr>
<td>2&quot;</td>
<td>30–300</td>
<td>RB-200S(*)-GPM1</td>
<td>RTPB20S(*)-GPM1</td>
<td>RTP120S(*)-GM1</td>
</tr>
<tr>
<td>2-1/2&quot;</td>
<td>40–400</td>
<td>RB-250S(*)-GPM1</td>
<td>RTPB25S(*)-GPM1</td>
<td>RTP125S(*)-GM1</td>
</tr>
<tr>
<td>3&quot;</td>
<td>60–600</td>
<td>RB-300S(*)-GPM1</td>
<td>RTPB30S(*)-GPM1</td>
<td>RTP130S(*)-GM1</td>
</tr>
<tr>
<td>4&quot;</td>
<td>100–1000</td>
<td>RB-400S(*)-GPM1</td>
<td>RTPB40S(*)-GPM1</td>
<td>RTP140S(*)-GM1</td>
</tr>
<tr>
<td>6&quot;</td>
<td>250–2500</td>
<td>RB-600S(*)-GPM1</td>
<td>RTPB60S(*)-GPM1</td>
<td>RTP160S(*)-GM1</td>
</tr>
<tr>
<td>8&quot;</td>
<td>400–4000</td>
<td>RB-800S(*)-GPM1</td>
<td>RTPB80S(*)-GPM1</td>
<td>RTP180S(*)-GM1</td>
</tr>
<tr>
<td>10&quot;</td>
<td>600–6000</td>
<td>RB-1000S(*)-GPM1</td>
<td>RTPB100S(*)-GPM1</td>
<td>RTP1100S(*)-GM1</td>
</tr>
<tr>
<td>12&quot;</td>
<td>800–8000</td>
<td>RB-1200S(*)-GPM1</td>
<td>RTPB120S(*)-GPM1</td>
<td>RTP1120S(*)-GM1</td>
</tr>
</tbody>
</table>

**Model Variations:** Replace (*) with:
- 4 = Schedule 40 pipe,
- 8 = Schedule 80 pipe
Specifically Designed for Commercial Aquatics or Water Parks

The A1A enables users who require higher chemical feed requirements for sanitizing (sodium hypochlorite) and pH adjustment (acid) to move away from diaphragm technology and the inherent challenges experienced with these chemicals to adapt to peristaltic technology for less service, more trouble free and reliable chem feed solution.

The FLEXFLO® A1A Chemical Feeder does it all with just one tube, one control system, and one power supply to stock and order.

**FLEXFLO® A1A BENEFITS**

- Peristaltic pump design does not have valves that can clog requiring maintenance.
- Self priming - even against maximum line pressure. Bypass valves are not required.
- Cannot vapor lock or lose prime.
- Output rates from 0.01 to 100 GPD (0.01 to 15.8 LPH) and pressures up to 40 PSI (2.76 Bar).
- Variable speed brushless DC motor.
- Patented Tube Failure Detection (TFD) system. Senses tube failure by detecting chemical in the pump head, shuts off the pump and activates a 48VDC @ 80mA relay. No false triggering.
- Remote Start/Stop: Non-powered dry contact closure for remote start/stop.
- Three Nylon molded squeeze rollers for optimum squeeze, unparalleled accuracy, and long tube life.
- Heavy duty rotor - single piece plastic rotor means no flexing and increased accuracy with no metal springs or hinges to corrode.
- Chemically resistant tubing capable of pumping bleach (sodium hypochlorite), calcium hypochlorite 20%, and muriatic acid (hydrochloric acid).

**FLEXFLO® A1A ORDERING**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>A2A Pump Only</th>
<th>Star III System</th>
<th>GPD (LPH)</th>
<th>MAX PSI (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1A(*)-7T</td>
<td>A1A(<em>)-7T(</em>)</td>
<td>0.01–100 (0.01-15.8)</td>
<td>40 (2.76 bar)</td>
<td></td>
</tr>
</tbody>
</table>

**Model Variations:**

- Replace (*) with:
  - 5 = A-014NK-6A injector PVDF,
  - 7 = 7 Gal Tank,
  - 15 = 15 Gal Tank,
  - 30 = 30 Gal Tank
- Replace (**) with:
  - 4 = 115V 50/60Hz, power cord NEMA 5/15 plug (US)
  - 5 = 230V 50/60Hz, power cord NEMA 6/15 plug (US)
  - 6 = 220V 50/60Hz, power cord CEE 7/11 plug (EU)
  - 8 = 240V 50/60Hz, power cord AS 3112 plug (Australia/New Zealand)
  - 9 = 230V 50/60Hz, power cord BS 1363 plug (United Kingdom)
- X = No Power Cord

**FLEXFLO® STAR III® BENEFITS**

- The Star III® is equipped with the FLEXFLO® A1A or A1F and tank size of your choice: 7 gallon, 15 gallon, or 30 gallon.
- The polyethylene tank has extra heavy wall thickness for stability and chemical resistance.
- Ships with all necessary accessories.
- U.V. inhibitor for sunlight protection.
- The tank lid can be placed in the open, closed, or vented position.
- Convenient rectangular shape is raised off floor for easy wash down.
High Volume Feeder Designed for Commercial Aquatics and Water Parks

Continuous and precise chemical feed for sanitizing (sodium hypochlorite) and pH adjustment (acid) without loss of prime.

**FLEXFLO® A2A BENEFITS**

- Peristaltic pump design does not have valves that can clog requiring maintenance.
- Self priming - even against maximum line pressure. Bypass valves are not required. Cannot vapor lock or lose prime.
- Output rates to 15.9 GPH (60.2 LPH) and pressures up to 50 PSI (3.4 Bar).
- Variable speed brushed DC motor.
- Patented Tube Failure Detection (TFD) system. Senses tube failure by detecting chemical in the pump head. No false triggering.
- Remote Start/Stop: Non-powered dry contact closure for remote start/stop.
- Outputs include: one 250V/3A relay to monitor TFD (Tube Failure System) and FVS (Flow Verification System).
- Two PVDF molded squeeze rollers and two 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.
- Chemically resistant tubing capable of pumping bleach (sodium hypochlorite), calcium hypochlorite 20%, and muriatic acid (hydrochloric acid).

**FLEXFLO® A2A ORDERING**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Pump Only</th>
<th>GPD (LPH)</th>
<th>MAX PSI (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2A2(*)-SNEE</td>
<td>0.055 - 5.5</td>
<td>(208 - 20.8)</td>
<td></td>
</tr>
<tr>
<td>A2A2(*)-SNGG</td>
<td>0.159 - 15.9</td>
<td>(602 - 60.2)</td>
<td></td>
</tr>
</tbody>
</table>

**Model Variations:**

- NEE = Flex-A-Prene® .093 ID, 0.055 to 5.5 GPH
- NGG = Flex-A-Prene® .187 ID, 0.16 to 15.9 GPH

Replace (*) with:

- 4 = 115V 50/60Hz, power cord NEMA 5/15 plug (US)
- 5 = 230V 50/60Hz, power cord NEMA 6/15 plug (US)
- 6 = 220V 50/60Hz, power cord CEE 7/11 plug (EU)
- 8 = 240V 50/60Hz, power cord AS 3112 plug (Australia/New Zealand)
- 9 = 230V 50/60Hz, power cord BS 1363a plug (United Kingdom)
- X = No Power Cord

**FLEXFLO® A2A SPECIFICATIONS**

| Max. Working Pressure | 50 psig (3.4 bar) |
| Max. Fluid Temperature | 185°F (85°C) |
| Ambient Temp Range | 14°F to 125°F (-10°C to 52°C) |
| Max. Suction Lift | 14' Water (4.3 m) |
| Operating Voltage | 115V (50/60Hz), 1PH (0.6A max.) |
| Power Cord Options | 115V/60Hz = NEMA 5/15 (USA) |

**Motor**

- Brushless DC, 1/8 H.P.

**Duty Cycle**

- Continuous

**Motor Speed Adjustment Range**

- 100:1, 1.0% - 100% motor speed

**Enclosure**

- NEMA 4X (IP66), Polyester powder coated aluminum.

**Dimensions**

- 7-1/2" W x 10-1/4" H x 14" D (19 W x 26 H x 35.6 D cm)

**Approx. Shipping Weight**

- 28.4 lb (12.9 Kg)

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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**
The FLOWREAD™ Flowmeter will Monitor a RESIDENTIAL POOL's Variable Speed Pump for Maximum Efficiency.

It will save energy dollars and improve pool water quality. Experience the difference it makes:
• Quick and simple installation
• Easy to read scale
• Nearly effortless monitoring of pool pumps efficiency

**F-300 BENEFITS**

> 1-1/2" to 2-1/2" pipe sizes.
> Flow rates from 10–150 GPM.
> Resistant PVDF internal float material.
> One piece machined acrylic body.
> Mounts to existing pipe. No unions or adapters required.
> Mounting clamps and gasket included.

**F-300 SPECIFICATIONS**

- **Max. Working Pressure**: 75 psig (5.2 bar) @ 70°F (21°C)
- **Max. Fluid Temperature**: 32˚ to 190°F (0˚ to 88°C) @ 0 psig
- **Ambient Temperature**: 0 to 110°F (-18˚ to 43°C) @ 0 psig
- **Pipe Clamp Material**: 316 Stainless Steel
- **Accuracy**: 5%
- **Meter Body Material**: Cast Acrylic
- **Pipe Requirements**: IPS inch pipe size (ASTM-D-1785)
- **Gasket Material**: Neoprene
- **Float Material**: PVDF
- **Cap Material**: PVDF
- **Connection Type**: Saddle
- **Approx. Shipping Weight**: 1 lb (0.45 kg)

**Note**: Temperature & Pressure ratings of meter only. Actual pipe rating may vary.

**FLOWREAD ORDERING**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Model Number</th>
<th>U.S. IPS Pipe GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5&quot;</td>
<td>R-315</td>
<td>10–70</td>
</tr>
<tr>
<td>2&quot;</td>
<td>R-320</td>
<td>20–120</td>
</tr>
<tr>
<td>2.5&quot;</td>
<td>R-325</td>
<td>30–150</td>
</tr>
</tbody>
</table>

**FLOWREAD DIMENSIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Size</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-315</td>
<td>1-1/2&quot;</td>
<td>6&quot;</td>
<td>2-7/16&quot;</td>
</tr>
<tr>
<td>R-320</td>
<td>2&quot;</td>
<td>6&quot;</td>
<td>2-7/16&quot;</td>
</tr>
<tr>
<td>R-325</td>
<td>2-1/2&quot;</td>
<td>6&quot;</td>
<td>2-7/16&quot;</td>
</tr>
</tbody>
</table>

Blue-White Industries, Ltd.

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