Blue-White® manufactures a full line of Top Quality flowmeters designed for use in Solar Applications. The Superior SolarMeter® line assist users in fine tuning Solar Systems to ensure optimum water or transfer fluid contact time through Solar Panels. Without the use of a SolarMeter®, energy loss might well exceed 50%. In addition, The SolarMeter® is an excellent troubleshooting device. It can warn of blockage in the system or possible malfunctions in the circulating pump.

**Benefits Include**
- Heat Resistant® Polysulfone Meter Bodies.
- Tough Brass Sweat or Brass MPT Connections.
- Sturdy Half Union Nuts Couple the Meter Body to the Connectors.
- #316 Stainless Steel Float guide rods.
- Low Pressure Drop.
- Drain back feature.
- Permanent, easy to read scales.
- Simple to install, low maintenance.

**F-440 SolarMeter® Specifications**

Max. Working Pressure: 175 psig (12.0 bar) @ 70˚ F (21˚ C)

Max. Fluid Temperature: 240° F (115° C) @ 0 PS

Full Scale Accuracy: ± 4%

Meter Body Material: Polysulfone

Adapter Material: Brass

O-Rings: FKM (optional EP)

NIST certificate optional

**Pipe Sizes**

- 3/8” F/NPT
- 1/2” 3/4” M/NPT
- 1/2” 3/4” Sweat

**Dimensions**

- 3/8” Pipe Size: Height: 6-3/16” • Width: 1-11/16”
- 1/2” Pipe Size: Height: 6-3/16” • Width: 1-11/16”
- 3/4” Pipe Size: Height: 7-1/2” • Width: 2”

**F-440 SolarMeter® Ordering Guidelines**

### Standard Liquid Models with Brass Adapters

<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-44375LB-7</td>
<td>3/8” F/NPT</td>
<td>0.1 to 1.0</td>
<td>316 SS</td>
</tr>
<tr>
<td>F-44375LB-8</td>
<td>3/8” M/NPT or Sweat</td>
<td>0.1 to 1.0</td>
<td>316 SS</td>
</tr>
<tr>
<td>F-44376LB-7</td>
<td>1/2” 3/4” F/NPT</td>
<td>0.1 to 2.0</td>
<td>316 SS</td>
</tr>
<tr>
<td>F-44376LB-8</td>
<td>1/2” 3/4” M/NPT or Sweat</td>
<td>0.2 to 2.0</td>
<td>316 SS</td>
</tr>
<tr>
<td>F-44500LB-7</td>
<td>3/8” F/NPT</td>
<td>0.5 to 5.0</td>
<td>316 SS</td>
</tr>
<tr>
<td>F-44500LB-8</td>
<td>3/8” M/NPT or Sweat</td>
<td>0.5 to 5.0</td>
<td>316 SS</td>
</tr>
<tr>
<td>F-44750LB-7</td>
<td>1/2” 3/4” F/NPT or Sweat</td>
<td>1.0 to 10.0</td>
<td>316 SS</td>
</tr>
<tr>
<td>F-44750LB-8</td>
<td>1/2” 3/4” M/NPT or Sweat</td>
<td>5.0 to 35.7</td>
<td>316 SS</td>
</tr>
</tbody>
</table>

**Pipe Sizes**

- 3/8” F/NPT: 3.0 to 30.0
- 3/8” M/NPT or Sweat: 3.0 to 30.0
- 1/2” F/NPT: 5.0 to 60.0
- 1/2” M/NPT or Sweat: 5.0 to 60.0

**Model Variations**

- *9 = Male NPT Model
- *8 = Sweat Model
- **13 = Male NPT Model
- **12 = Sweat Model

* 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.
THE F-450 SERIES SolarMeter®

F-450 SOLARMETER® FEATURES
- Tough Polysulfone meter body resists high temperatures and pressures.*
- Brass adapters with MPT or Sweat connections.
- Brass half unions.
- Direct reading permanent scale.
- #316 stainless steel float guide rods.
- Not recommended for direct sunlight.
- Available OEM options: Private labeling, custom calibrations, custom materials.

F-450 SOLARMETER® SPECIFICATIONS
- Max. Working Pressure: 175 psig (12.0 bar) @ 70° F (21° C)
- Max. Fluid Temperature: 240° F (115°C) @ 0 PSI
- Full Scale Accuracy: ± 4%
- Meter Body Material: Polysulfone
- Adapter Material: Brass
- O-Rings: FKM (optional EP)
- Approx. Shipping Weight: 1/2 lb (0.23 kg)
- NIST certificate optional

DIMENSIONS
- MODEL
- HEIGHT
- WIDTH
- F-45375***-6 8-3/8" 2"
- F-45375***-8 8-7/8" 2"
- F-45376***-6 8-3/8" 2"
- F-45376***-8 8-7/8" 2"
- F-45500***-6 8-3/8" 2"
- F-45500***-8 8-7/8" 2"
- F-45500***-12 9-3/8" 2"
- F-45750***-12 10" 2"

F-450 SOLARMETER® ORDERING GUIDELINES

STANDARD LIQUID MODELS WITH BRASS ADAPTERS

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>Pipe Size</th>
<th>GPM dual scale range</th>
<th>LPM dual scale range</th>
<th>Float Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-45375LB-(*))</td>
<td>1/2&quot;</td>
<td>1 to 1</td>
<td>4 to 4</td>
<td>PTFE</td>
</tr>
<tr>
<td>F-45375LB-(**)</td>
<td>1/2&quot;</td>
<td>.7 to 2</td>
<td>1 to 7.5</td>
<td>316 SS</td>
</tr>
<tr>
<td>F-45500LB-(*))</td>
<td>1/2&quot;</td>
<td>.5 to 5</td>
<td>2 to 20</td>
<td>316 SS</td>
</tr>
<tr>
<td>F-45500LB-(**)</td>
<td>3/4&quot;</td>
<td>.5 to 5</td>
<td>2 to 20</td>
<td>316 SS</td>
</tr>
<tr>
<td>F-45750LB-(**)</td>
<td>3/4&quot;</td>
<td>1 to 10</td>
<td>4 to 40</td>
<td>316 SS</td>
</tr>
</tbody>
</table>

MODEL Variations
- *9 = Male NPT Model
- *8 = Sweat Model
- **13 = Male NPT Model
- **12 = Sweat Model

* 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-451 SOLARMETER® FEATURES
- Tough Polysulfone meter body resists high temperatures and pressures.*
- Brass adapters with MPT or Sweat connections.
- Brass half unions.
- #316 stainless steel float guide rods.
- Direct reading permanent scale.
- Not recommended for direct sunlight.
- Available OEM options: Private labeling, custom calibrations, custom materials.

F-451 SOLARMETER® SPECIFICATIONS
- Max. Working Pressure: 150 psig (10.0 bar) @ 70° F (21° C)
- Max. Fluid Temperature: 240° F (115°C) @ 0 PSI
- Full Scale Accuracy: ± 4%
- Meter Body Material: Polysulfone
- Adapter Material: Brass
- O-Rings: FKM
- Float Material: #316 SS
- Approx. Shipping Weight: 3 lb (1.36 kg)
- NIST certificate optional

DIMENSIONS
- Height: 14-1/2"
- Width: 3-5/16"

PIECE SIZES
- 1" F/NPT

F-451 SOLARMETER® ORDERING GUIDELINES

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DUAL SCALE RANGE</th>
<th>GPM</th>
<th>LPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-451001LH</td>
<td>1.0 to 40</td>
<td>4 to 40</td>
<td></td>
</tr>
<tr>
<td>F-451002LH</td>
<td>2.0 to 20</td>
<td>7.5 to 75</td>
<td></td>
</tr>
<tr>
<td>F-451003LH</td>
<td>3.0 to 30</td>
<td>12 to 115</td>
<td></td>
</tr>
<tr>
<td>F-451004LH</td>
<td>4.0 to 40</td>
<td>15 to 155</td>
<td></td>
</tr>
</tbody>
</table>

TEMPERATURE VS. PRESSURE

Authorized Representative

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