Setting a new standard in the industry, the Series UV Polysulfone Flowmeter is an ultra pure, laboratory grade flowmeter (±2% F.S. accuracy) that measures flow in GPM and LPM of water and other compatible media. The Series UV is designed to withstand high temperatures up to 212°F (100°C) and high pressures up to 150 psi (10.34 bar). Highly corrosion-resistant, this instrument is an excellent choice for monitoring many ultra pure applications such as food processing, reverse osmosis water systems, medical equipment and corrosive media. Easy to install and to clean, the Series UV offers optional panel mount polysulfone fittings and a protective polycarbonate shield.

**SPECIFICATIONS**

- **Service:** Compatible liquids.
- **Wetted Materials:** Polysulfone body, Fluoroelastomer O-Rings and virgin PTFE float.
- **Temperature Limits:** 35 to 212°F (2 to 100°C); 35 to 130°F (2 to 54°C) for PVC fitting option.
- **Pressure Limit:** 150 psi (10.34 bar).
- **Accuracy:** ±2% full scale @ 70°F +/-2°F (21.1°C) and 14.7 psia (in line connection rating only).
- **Repeatability:** +/-1% full scale @ 70+/-2°F (21.1°C) and 14.7 psia (in line connection rating only).
- **Process Connections:** 1” female NPT. Optional 90° Polysulfone Elbow – 1” male NPT.
- **Scale Length:** 6” (152.40) – 7” (177.80), depending on model.
- **Fitting Torque:** Maximum 22 ft - lb.
- **Weight:** 1 lb (457 g) (for 20 GPM range).

**CAUTION:** Ball valves can have a “water cannon” effect on opening, creating pressure that exceeds the warranted ratings and will damage the flowmeter.

Series UV Flowmeters are for indoor use only or areas without direct sunlight. Polysulfone is adversely affected by ultraviolet light.

**MODELS**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Range (GPM water)</th>
<th>Body</th>
<th>Fitting Material</th>
<th>Float</th>
</tr>
</thead>
<tbody>
<tr>
<td>UV-0112</td>
<td>0.25-2.5 (1-9.5 LPM)</td>
<td>Polysulfone</td>
<td>Polysulfone</td>
<td>Virgin PTFE</td>
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<tr>
<td>UV-1112</td>
<td>0.5-5.0 (2-19 LPM)</td>
<td>Polysulfone</td>
<td>Polysulfone</td>
<td>Virgin PTFE</td>
</tr>
<tr>
<td>UV-2112</td>
<td>1.0-10.0 (4-38 LPM)</td>
<td>Polysulfone</td>
<td>Polysulfone</td>
<td>Virgin PTFE</td>
</tr>
<tr>
<td>UV-3112</td>
<td>2.0-20.0 (8-76 LPM)</td>
<td>Polysulfone</td>
<td>Polysulfone</td>
<td>Virgin PTFE</td>
</tr>
<tr>
<td>Newest Ranges</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>UV-4112</td>
<td>3.0-30.0 (12-112 LPM)</td>
<td>Polysulfone</td>
<td>Polysulfone</td>
<td>Virgin PTFE</td>
</tr>
<tr>
<td>UV-5112</td>
<td>4.0-40.0 (20-150 LPM)</td>
<td>Polysulfone</td>
<td>Polysulfone</td>
<td>Virgin PTFE</td>
</tr>
</tbody>
</table>
The Series UV Polysulfone Flowmeter with high accuracy and excellent media compatibility is now available in air flow ranges. Perfect for environmental remediation systems this unit has great durability with its high temperature and pressure ratings. The UV has no metal wetted parts. This feature allows the UV to be used in applications where metal attacking gases are present. The UV is available in ranges from 13 SCFM to 100 SCFM.

**SPECIFICATIONS**

**Service:** Compatible gases.

**Wetted Materials:** Polysulfone body, Fluoroelastomer O-rings and virgin PTFE float.

**Temperature Limits:** 35 to 212°F (2 to 100°C); 35 to 130°F (2 to 54°C) for PVC fitting option.

**Pressure Limit:** 150 psi (10.34 bar).

**Accuracy:** ±2% full scale @ 70°F +/-2°F (21.1°C) and 14.7 psia (In line connection rating only) Exception: UV-B112 accuracy +/-4%.

**Repeatability:** +/-1% full scale @ 70°F +/-2°F (21.1°C) and 14.7 psia (In line connection rating only)

**Process Connections:** 1” female NPT. Optional 90° Polysulfone Elbow – 1” male NPT.

**Scale Length:** 6” (152.40) – 7” (177.80), depending on model.

**Fitting Torque:** Maximum 22 ft-lb.

**Weight:** 1 lb (457 g).

**Accessories**

A-801 Panel Mount Kit, Polysulfone Fittings
A-162 In-line Fitting Replacement Kit. Two 1” female NPT connection fittings and two O-rings.
A-163 In-line PVC Fitting Replacement Kit. Two 1” female NPT connection fittings and two O-rings

**Options**

UV-XXXX-SHD Protective Polycarbonate Shield
UV-XX22 PVC 1” female NPT Fittings
UV-XXXX-CDS Certified Data Sheet with Traceability to NIST

**CAUTION:** Ball valves can have a “water cannon” effect on opening, creating pressure that exceeds the warranted ratings and will damage the flowmeter.

Series UV Flowmeters are for indoor use only or areas without direct sunlight. Polysulfone is adversely affected by ultraviolet light.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Range SCFM Air</th>
<th>Body</th>
<th>Fitting Material</th>
<th>Float</th>
</tr>
</thead>
<tbody>
<tr>
<td>UV-A112</td>
<td>1-13 (30-370 LPM)</td>
<td>Polysulfone</td>
<td>Polysulfone</td>
<td>Virgin PTFE</td>
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<tr>
<td>UV-B112</td>
<td>2.5-28 (70-780 LPM)</td>
<td>Polysulfone</td>
<td>Polysulfone</td>
<td>Virgin PTFE</td>
</tr>
<tr>
<td>UV-C112</td>
<td>5-50 (70-1400 LPM)</td>
<td>Polysulfone</td>
<td>Polysulfone</td>
<td>Virgin PTFE</td>
</tr>
<tr>
<td>UV-D112</td>
<td>14-100 (400-2800 LPM)</td>
<td>Polysulfone</td>
<td>Polysulfone</td>
<td>Virgin PTFE</td>
</tr>
</tbody>
</table>