The Series P1 Brass Flow Switch utilizes a piston-type design for accurate detection of excessive or insufficient flow rates. The piston magnetically actuates a hermetically sealed SPDT reed switch. The switches have preset actuation points from 0.10 to 1.5 GPM for liquid flow. The Series P1 is ideal for protecting against loss of fluid flow in hydraulic systems or assuring proper coolant flow in semiconductor processing.

**SPECIFICATIONS**
- **Service:** Compatible liquids.
- **Wetted Materials:** Housing: Brass; Piston: Polysulfone; Spring: 316SS; O-Ring: Fluoroelastomer; Other: Epoxy.
- **Temperature Limits:** -20 to 225°F (-29 to 107°C).
- **Pressure Limits:** 1000 psig (68.9 bar).
- **Accuracy:** ±10% of set point.
- **Repeatability:** ±1%.
- **Switch Type:** SPDT.
- **Electrical Rating:** .17A @ 120 VAC, .08A @ 240 VAC, .13A @ 120 VDC, .06A @ 240 VDC.
- **Electrical Connection:** 18 AWG, 24” (60.96 cm), polymeric lead wires.
- **Process Connection:** 1/4˝ female NPT.
- **Mounting Orientation:** Any position.
- **Set Point:** Labeled flow rates from 0.10 to 1.5 GPM.
- **Required Filtration:** 50 microns or better.
- **Weight:** 0.66 lb (301 g).
- **Agency Approvals:** CE.

<table>
<thead>
<tr>
<th>Model</th>
<th>Actuation Set Point* (GPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1-011</td>
<td>0.10 (.38)</td>
</tr>
<tr>
<td>P1-012</td>
<td>0.25 (.95)</td>
</tr>
<tr>
<td>P1-013</td>
<td>0.50 (1.89)</td>
</tr>
<tr>
<td>P1-014</td>
<td>0.75 (2.84)</td>
</tr>
<tr>
<td>P1-015</td>
<td>1.00 (3.79)</td>
</tr>
<tr>
<td>P1-016</td>
<td>1.50 (5.68)</td>
</tr>
</tbody>
</table>

*Calibrated for water at standard conditions.

The Series AFS Adjustable Flow Switch is externally adjustable and is ideal for protecting machine tools from coolant flow failure, protecting bearings from loss of lubricant or assuring proper air flow. The Series AFS offers an infinite number of flow settings from 0.5 to 20 GPM at pressures up to 1000 psig, with low pressure drop and precise repeatability. The AFS is housed in either brass or stainless steel and can be used with water, compatible liquids, oils, and gases.

**SPECIFICATIONS**
- **Service:** Compatible gases or liquids.
- **Wetted Materials:** Housing and Piston: See model chart; Spring: 316SS; O-ring: Fluoroelastomer; Other: Epoxy.
- **Temperature Limits:** -20 to 300°F (-29 to 149°C), -20 to 225°F (-29 to 107.2°C) with polysulfone piston.
- **Pressure Limit:** 1000 psi (68 bar).
- **Accuracy:** ±10% of setpoint.
- **Repeatability:** ±1% maximum deviation.
- **Switch Type:** SPDT.
- **Electrical Rating:** .17A @ 120 VAC, .08A @ 240 VAC, .13A @ 120 VDC, .06A @ 240 VDC.
- **Electrical Connections:** 18 AWG, 24” (61 cm), polymeric lead wires, optional 1/2˝ male NPT conduit connection.
- **Process Connection:** 1/2˝ female NPT ports.
- **Mounting Orientation:** Any.
- **Setpoint Adjustment:** Liquids: 0.5 to 20 GPM (1.9 to 75.7 LPM); Gases: 1.0 to 75 SCFM (28 to 2124 LPM) at 5 psig.
- **Required Filtration:** 50 microns or better.
- **Weight:** 2 lb, 11 oz (1.22 kg).
- **Agency Approvals:** CE.