## DUAL ACTION EXPLOSION-PROOF PRESSURE SWITCHES

**Series H2 | W. E. Anderson® by Dwyer**

**Explosion-proof and Weatherproof Enclosure**

Explosion-proof, UL & CSA Listed for Class I, Groups B, C & D and Class II, Groups E, F & G. The **Series H2** is designed for sequencing two different actions as pressure of a liquid or gas increases or decreases. The design consists of two concentric pistons operated by a single diaphragm with one pressure chamber. Each piston actuates a separate switch independent of the other. The switches may be adjusted to operate together, at opposite ends of the range or at two intermediate set points. The threaded enclosure for use in outdoor environments

**APPLICATIONS**

- **Mechanical HVAC or process equipment**
- **Chemical, petroleum, food and drug processing industries**
- **Process and Industrial applications**
- **Wetted material provides support for wider range of process media**
- **Mounting in any position and not affected by vibration**
- **Independent piston action design for either gas or liquid allows switches to active together or independently based on settings**
- **UL listed, CSA approved to support rigorous process applications and regulations**
- **Enclosure Rating: IP66**
- **Agency Approvals: CSA, UL**

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**SERIES A1F | MERCOID® by Dwyer**

**LOW COST OEM PRESSURE SWITCH**

Field Adjustable with Weather-Proof Enclosure

Low cost and precision made, the **Series A1F Pressure Switch** is ideal for OEM industrial applications. Wetted materials of 316 SS and fluorocarbon ensure great chemical compatibility with a wide range of process media. The open style is perfect for panel mounting applications like pump skids. Weatherproof enclosure is available in polycarbonate offering a low cost weatherproof switch. Superior 15 A contact allows direct control of motors or pumps without the use of external relays, a true cost savings. Features include a convenient indicating scale for quick and easy field adjustment.

**FEATURES/BENEFITS**

- **15 A contact allows direct control reducing costs and reliability by having to introduce additional contacts and relays**
- **Case style allows use for panel mounting application with optional weather-proof enclosure for use in outdoor environments**
- **Field adjustable reduces installation time bringing application on-line faster**
- **Wetted material provides support for wider range of process media**

**APPLICATIONS**

- **OEM**
- **Compressors**
- **Motor control**
- **Process equipment**
- **Pump control**

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### SPECIFICATIONS

**SERIES H2**

- **Model:** A1F
- **Process Connection:** 1/4 NPT female NPT
- **Enclosure Rating:** UL listed explosion-proof, CSA optional. Class I, Groups B, C, and D.
- **Temperature Limit:** -20°C to 175°F (-40°C to 79°C)
- **Pressure Limit:** 500 psig (34 bar)
- **Weight:** 10.5 oz (297 g)
- **Agency Approvals:** CSA, UL

**SERIES A1F**

- **Model:** A1F
- **Process Connection:** 1/4 NPT female NPT
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**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Low Range psig (bar)</th>
<th>High Range psig (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2S-1</td>
<td>3 to 40 (0.21 to 2.76)</td>
<td>5 to 75 (0.35 to 5.17)</td>
</tr>
<tr>
<td>H2S-2</td>
<td>25 to 250 (1.72 to 17.2)</td>
<td>30 to 400 (2.07 to 27.6)</td>
</tr>
<tr>
<td>H2S-3</td>
<td>100 to 1000 (6.89 to 68.9)</td>
<td>150 to 1500 (10.3 to 103)</td>
</tr>
</tbody>
</table>

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**A1F with weatherproof enclosure**

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Range psig (bar)</th>
<th>Deadband at Min. Range psig (bar)</th>
<th>Deadband at Max. Range psig (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1F-O-SS-1-1</td>
<td>2 to 15 (0.14 to 1.03)</td>
<td>2 (0.14)</td>
<td>3 (0.21)</td>
</tr>
<tr>
<td>A1F-O-SS-1-2</td>
<td>4 to 75 (0.28 to 5.17)</td>
<td>4 (0.27)</td>
<td>6 (0.41)</td>
</tr>
<tr>
<td>A1F-O-SS-1-3</td>
<td>8 to 225 (0.55 to 15.5)</td>
<td>8 (0.55)</td>
<td>15 (1.0)</td>
</tr>
<tr>
<td>A1F-O-SS-1-4</td>
<td>16 to 450 (1.1 to 31.0)</td>
<td>15 (1.0)</td>
<td>50 (3.5)</td>
</tr>
</tbody>
</table>

**Note:** Optional enclosure factory installed. To order, change O to PC.

**Example:** A1F-PC-SS-1-1