SERIES PG | GAS PRESSURE/DIFFERENTIAL PRESSURE SWITCHES

FEATURES/BENEFITS

• Clear, easy-to-read scale and external set point adjustment simplifies operation and trouble shooting
• Large diaphragm provides accuracy for precise control
• Multiple switching options meet the design of applications

APPLICATIONS

• Natural, manufactured or LP gas applications

DESCRIPTION

Large sensitive diaphragm and reliable, time proven mechanical design are combined in SERIES PG Pressure/Differential Pressure Switches. For use with air and other compatible gases, they feature excellent ±1% of full scale repeatability, clear, easy-to-read scale and convenient external set point adjustment. Application flexibility is assured by a large variety of switching options including SPST, SPDT, DPST, and DPDT; opening or closing on increasing pressure, vacuum or differential. Mercury switches or hermetically sealed snap switches are available where high humidity would be a problem. If vibration or other factors preclude the use of mercury, snap switched can be provided. Standard housing is NEMA 1. Optional enclosures can be supplied for weather resistant and explosion-proof requirements.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Wetted Material</td>
<td>Fairprene, brass, steel, and aluminum.</td>
</tr>
<tr>
<td>Temperature Limits</td>
<td>-10 to 180°F (-23 to 82°C).</td>
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<tr>
<td>Pressure Limit</td>
<td>Single pressure use on high side: Sustained pressure: 15 psig (1.0 bar); Surge limit: 20 psig (1.4 bar). Differential pressure use: Sustained pressure, range P1: 2 psig (0.14 bar); Sustained pressure, range P2: 10 psig (0.7 bar).</td>
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<tr>
<td>Enclosure Rating</td>
<td>General purpose. Weatherproof and explosion-proof optional.</td>
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<tr>
<td>Repeatability</td>
<td>±1% of full range.</td>
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<tr>
<td>Switch Type</td>
<td>SPST mercury switch, SPDT mercury switch, SPDT snap switch, or SPDT hermetically sealed snap switch. Optional DPDT.</td>
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<tr>
<td>Electrical Rating</td>
<td>4 A @ 120 VAC/VDC; 2 A @ 240 VAC/VDC (Code M); 6 A @ 120 VDC/VAC; 3 A @ 240 VAC/VDC (Code K); 10 A @ 120 VAC/VDC; 5 A @ 240 VAC/VDC (Code L); 1 A @ 120 VAC/VDC; 0.5 A @ 240 VAC/VDC (Code N); SPDT snap: 15 A @ 120 VAC; 8 A @ 240 VAC; 0.5 A @ 120 VDC; 0.25 A @ 240 VDC. SPDT H.S. silver snap: 5 A @ 125/250 VAC; 30 VDC resistive. SPDT H.S. gold snap: 1 A @ 125 VAC; 30 VDC resistive.</td>
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<tr>
<td>Electrical Connections</td>
<td>Screw type.</td>
</tr>
<tr>
<td>Conduit Connection</td>
<td>7/8” (22.23 mm) hole for 1/2” (12.7 mm) conduit hub.</td>
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<tr>
<td>Process Connection</td>
<td>1/2” male NPT and 1/8” female NPT used for single positive pressure or high differential pressure, 1/8” female NPT used for single vacuum or low differential pressure.</td>
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<tr>
<td>Mounting Orientation</td>
<td>Vertical.</td>
</tr>
<tr>
<td>Set Point Adjustment</td>
<td>External screw.</td>
</tr>
<tr>
<td>Weight</td>
<td>4.5 lb (2 kg).</td>
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<tr>
<td>Deadband</td>
<td>See model chart.</td>
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<tr>
<td>Agency Approvals</td>
<td>FM, UL for mercury switch models. UL only on snap switch models.</td>
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</tbody>
</table>
HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

**SERIES**
- **PG** - General purpose enclosure, NEMA 1 (standard)
- **PR** - Manual reset, operates on pressure increase automatically, resets on decrease
- **PRL** - Manual reset, operates on pressure decrease automatically, resets on increase

**HOUSING OPTIONS**
- **W** - Weather-resistant enclosure, NEMA 2, 3R (optional)

**CIRCUIT**
- **-2** - SPST mercury switch, electrical code L, opens on vacuum, pressure or differential pressure increase
- **-2P** - SPST mercury switch, electrical code L, opens on vacuum, pressure or differential pressure increase
- **-3** - SPST mercury switch, electrical code K, closes on vacuum, pressure or differential pressure increase
- **-3P** - SPST mercury switch, electrical code L, closes on vacuum, pressure or differential pressure increase
- **-153** - SPDT mercury switch, electrical code M

**ADJUSTABLE DIFFERENTIAL PRESSURE RANGES WITH MAXIMUM SUSTAINED PRESSURES**
- **-P1** - Adjustable range 1.0-30 in w.c. (25-760 bar)
- **-P2** - Adjustable range 0.5-5 psig (0.03-0.35 bar)
- **-P3** - Adjustable range 2.5-76.3 cm w.c.

**OPTIONS**
- **-ATR** - Aluminum tag (riveted)
- **-ATW** - Aluminum tag (wired)
- **-PE** - Prep for EP
- **-PRESET** - Preset and pressure check set point
- **-PT** - Paper tag
- **-STR** - Stainless steel tag (riveted)
- **-STW** - Stainless steel tag (wired)
- **-23720** - Fungus proofing special
- **-23444** - O2 acetylene special
- **-RCH** - Rigid conduit hub

Note: Other circuits available, consult factory. For electrical codes, see specifications.