

## 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



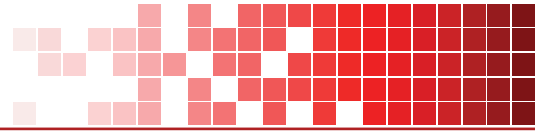
### DESCRIPTION

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  $\pm 1\%$  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.

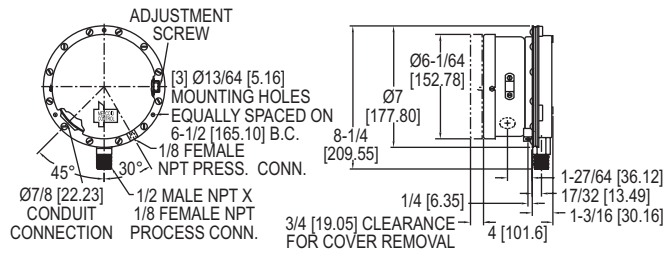
### SPECIFICATIONS

<b>Wetted Material</b>	Fairprene, brass, steel, and aluminum.
<b>Temperature Limits</b>	-10 to 180°F (-23 to 82°C).
<b>Pressure Limit</b>	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).
<b>Enclosure Rating</b>	General purpose. Weatherproof and explosion-proof optional.
<b>Repeatability</b>	$\pm 1\%$ of full range.
<b>Switch Type</b>	SPST mercury switch, SPDT mercury switch, SPDT snap switch, or SPDT hermetically sealed snap switch. Optional DPDT.
<b>Electrical Rating</b>	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.
<b>Electrical Connections</b>	Screw type.
<b>Conduit Connection</b>	7/8" (22.23 mm) hole for 1/2" (12.7 mm) conduit hub.
<b>Process Connection</b>	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.
<b>Mounting Orientation</b>	Vertical.
<b>Set Point Adjustment</b>	External screw.
<b>Weight</b>	4.5 lb (2 kg).
<b>Deadband</b>	See model chart.
<b>Agency Approvals</b>	FM, UL for mercury switch models. UL only on snap switch models.





## DIMENSIONS



## HOW TO ORDER

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

<p><b>SERIES</b></p> <p><b>PG</b> - General purpose enclosure, NEMA 1 (standard)</p> <p><b>PR</b> - Manual reset, operates on pressure increase automatically, resets on decrease</p> <p><b>PRL</b> - Manual reset, operates on pressure decrease automatically, resets on increase</p> <p><b>HOUSING OPTIONS</b></p> <p><b>W</b> - Weather-resistant enclosure, NEMA 2, 3R (optional)</p> <p><b>CIRCUIT</b></p> <p><b>-2</b> - SPST mercury switch, electrical code K, opens on vacuum, pressure or differential pressure increase</p> <p><b>-2P</b> - SPST mercury switch, electrical code L, opens on vacuum, pressure or differential pressure increase</p> <p><b>-3</b> - SPST mercury switch, electrical code K, closes on vacuum, pressure or differential pressure increase</p> <p><b>-3P</b> - SPST mercury switch, electrical code L, closes on vacuum, pressure or differential pressure increase</p> <p><b>-153</b> - SPDT mercury switch, electrical code M</p> <p><b>-103</b> - DPST, (2) SPST mercury switches, electrical code L, both close on increase, FM approved, PG, PGW only</p> <p><b>-105</b> - DPST, two SPST mercury switched, one electrical code L, one electrical code N, both open on decrease</p> <p><b>-119</b> - (2) mercury switches, SPST NO (DPST)</p> <p><b>-127</b> - DPST, (2) SPST mercury switches, electrical code L, both open on increase</p> <p><b>-129</b> - DPST, (2) SPST mercury switches, one electrical code L, one electrical code N, both open on increase</p> <p><b>-131</b> - (2) mercury switches, SPST NC (DPST)</p> <p><b>-152</b> - (1) mercury switch, SPDT (4-wire)</p> <p><b>-156</b> - SPDT, (2) SPST mercury switches, electrical code L, one opens on increase, one closes on increase</p> <p><b>-158</b> - SPDT, (2) SPST mercury switches, one electrical code L - opens on increase, one electrical code N - closes on increase</p> <p><b>-161</b> - SPDT, (2) SPST mercury switches, one electrical code L - opens on decrease, one electrical code N - closes on decrease</p> <p><b>-190</b> - (2) mercury switches, SPST NC; SPST NO (SPDT)</p> <p><b>-804</b> - DPDT, (2) SPDT mercury switches, electrical code M</p> <p><b>-7000-153</b> - SPDT, snap acting switch, rated 15A at 120 VAC, 8A at 240 VAC, 0.5A at 120 VDC, 0.25A at 240 VDC</p> <p><b>-7000-153HS</b> - SPDT, hermetically sealed snap switch, rated 5A at 120/250 VAC, 5A resistive at 30 VDC</p> <p><b>-7000-153HG</b> - SPDT, hermetically sealed snap switch, rated 1A at 125 VAC, 1A resistive at 30 VDC</p> <p><b>-7200-804</b> - DPDT, (2) SPDT snap acting switches, rated 5A at 120/240 VAC, 30 VDC resistive</p> <p><b>Note:</b> Other circuits available, consult factory. For electrical codes, see specifications.</p>	<p><b>PG</b></p> <hr/> <p><b>W</b></p> <hr/> <p><b>-2</b></p> <hr/> <p><b>-P1</b></p> <hr/> <p><b>-ATR</b></p>	<p><b>OPTIONS</b></p> <p><b>-ATR</b> - Aluminum tag (riveted)</p> <p><b>-ATW</b> - Aluminum tag (wired)</p> <p><b>-PE</b> - Prep for EP</p> <p><b>-PRESET</b> - Preset and pressure check set point</p> <p><b>-PT</b> - Paper tag</p> <p><b>-STR</b> - Stainless steel tag (riveted)</p> <p><b>-STW</b> - Stainless steel tag (wired)</p> <p><b>-23720</b> - Fungus proofing special</p> <p><b>-23444</b> - O2 acetylene special</p> <p><b>-RCH</b> - Rigid conduit hub</p> <p><b>ADJUSTABLE DIFFERENTIAL PRESSURE RANGES WITH MAXIMUM SUSTAINED PRESSURES</b></p> <p><b>-P1</b> - Adjustable range 1.0-30 in w.c. (25-760 bar)</p> <p><b>-P2</b> - Adjustable range 0.5-5 psig (0.03-0.35 bar)</p> <p><b>-P3</b> - Adjustable range 2.5-76.3 cm w.c.</p>
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