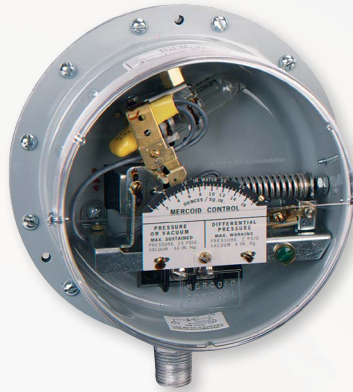




SERIES PG | GAS PRESSURE/DIFFERENTIAL PRESSURE SWITCHES



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

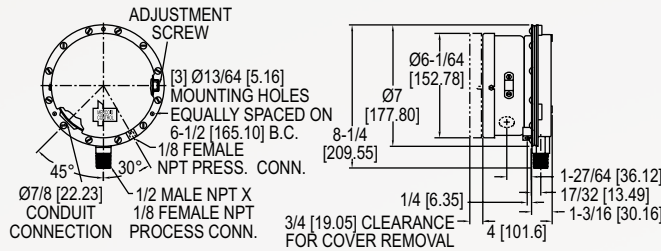
DESCRIPTION

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 requirements.

SPECIFICATIONS

Wetted Material	Fairprene, brass, steel, and aluminum.
Temperature Limits	-10 to 180°F (-23 to 82°C).
Pressure Limit	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).
Enclosure Rating	General purpose. Weatherproof optional.
Repeatability	$\pm 1\%$ of full range.
Switch Type	SPST mercury switch, SPDT mercury switch, SPDT snap switch, or SPDT hermetically sealed snap switch. Optional DPDT.
Electrical Rating	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.
Electrical Connections	Screw type.
Conduit Connection	7/8" (22.23 mm) hole for 1/2" (12.7 mm) conduit hub.
Process Connection	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.
Mounting Orientation	Vertical.
Set Point Adjustment	External screw.
Weight	4.5 lb (2 kg).
Deadband	See model chart.
Compliance	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>SERIES</p> <p>PG: General purpose enclosure, NEMA 1 (standard)</p> <p>PR: Manual reset, operates on pressure increase automatically, resets on decrease</p> <p>PRL: Manual reset, operates on pressure decrease automatically, resets on increase</p> <p>HOUSING OPTIONS</p> <p>W: Weather-resistant enclosure, NEMA 2, 3R (optional)</p> <p>CIRCUIT</p> <p>-2: SPST mercury switch, electrical code K, opens on vacuum, pressure or differential pressure increase</p> <p>-2P: SPST mercury switch, electrical code L, opens on vacuum, pressure or differential pressure increase</p> <p>-3: SPST mercury switch, electrical code K, closes on vacuum, pressure or differential pressure increase</p> <p>-3P: SPST mercury switch, electrical code L, closes on vacuum, pressure or differential pressure increase</p> <p>-153: SPDT mercury switch, electrical code M</p> <p>-103: DPST, (2) SPST mercury switches, electrical code L, both close on increase, FM approved, PG, PGW only</p> <p>-105: DPST, two SPST mercury switched, one electrical code L, one electrical code N, both open on decrease</p> <p>-119: (2) mercury switches, SPST NO (DPST)</p> <p>-127: DPST, (2) SPST mercury switches, electrical code L, both open on increase</p> <p>-129: DPST, (2) SPST mercury switches, one electrical code L, one electrical code N, both open on increase</p> <p>-131v (2) mercury switches, SPST NC (DPST)</p> <p>-152: (1) mercury switch, SPDT (4-wire)</p> <p>-156: SPDT, (2) SPST mercury switches, electrical code L, one opens on increase, one closes on increase</p> <p>-158: SPDT, (2) SPST mercury switches, one electrical code L - opens on increase, one electrical code N - closes on increase</p> <p>-161: SPDT, (2) SPST mercury switches, one electrical code L - opens on decrease, one electrical code N - closes on decrease</p> <p>-190: (2) mercury switches, SPST NC; SPST NO (SPDT)</p> <p>-804: DPDT, (2) SPDT mercury switches, electrical code M</p> <p>-7000-153: 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>-7000-153HG: SPDT, hermetically sealed snap switch, rated 1A at 125 VAC, 1A resistive at 30 VDC</p> <p>-7200-804: DPDT, (2) SPDT snap acting switches, rated 5A at 120/240 VAC, 30 VDC resistive</p> <p>Note: Other circuits available, consult factory. For electrical codes, see specifications.</p>	<p>PG W -2 -P1 -ATR</p>	<p>OPTIONS</p> <p>-ATR: Aluminum tag (riveted)</p> <p>-ATW: Aluminum tag (wired)</p> <p>-PE: Prep for EP</p> <p>-PRESET: Preset and pressure check set point</p> <p>-PT: Paper tag</p> <p>-STR: Stainless steel tag (riveted)</p> <p>-STW: Stainless steel tag (wired)</p> <p>-23720: Fungus proofing special</p> <p>-23444: O2 acetylene special</p> <p>-RCH: Rigid conduit hub</p> <p>ADJUSTABLE DIFFERENTIAL PRESSURE RANGES WITH MAXIMUM SUSTAINED PRESSURES</p> <p>-P1: Adjustable range 1.0-30 in w.c. (25-760 bar)</p> <p>-P2: Adjustable range 0.5-5 psig (0.03-0.35 bar)</p> <p>-P3: Adjustable range 2.5-76.3 cm w.c.</p>
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DS-PG Rev. 2

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