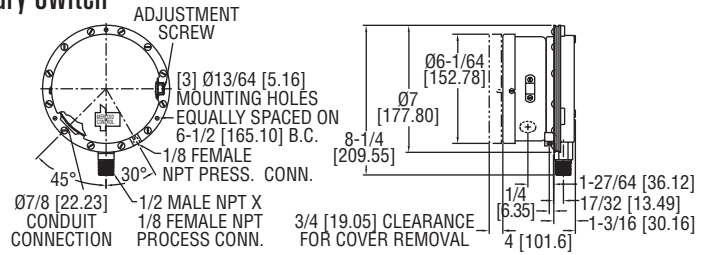


# GAS PRESSURE/DIFFERENTIAL PRESSURE SWITCHES

External Adjustment, Visible Dial, Hermetically Sealed Snap or Mercury Switch



Scan here to watch product video



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. PR and PRL models add manual reset operation on increasing or decreasing pressure. 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 switches can be provided. Standard housing is NEMA 1. Optional enclosures can be supplied for weather resistant and explosion-proof requirements.

**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

**SPECIFICATIONS**

**Wetted Materials:** 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 (.14 bar); Sustained pressure, range P2: 10 psig (0.7 bar).

**Enclosure Rating:** General purpose. Weatherproof and explosion-proof 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:** SPDT mercury: 4A @ 120 VAC/VDC, 2A @ 240 VAC/VDC. SPST mercury: 6A @ 120 VAC/VDC, 3A @ 240 VAC/VDC. SPDT Snap: 15A @ 120 VAC, 8A @ 240 VAC, 0.5A @ 120 VDC, 0.25A @ 240 VDC. SPDT H.S. Silver Snap: 5A @ 125/250 VAC, 30 VDC resistive. SPDT H.S. Gold Snap: 1A @ 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.

**Agency Approvals:** FM, UL for mercury switch models. UL only on snap switch models.

**MODEL CHART**

Model	Range	Max. Deadband	Switch Type	Model	Range	Max. Deadband	Switch Type
PG-153-P1	1-30 in w.c. (.25-7.47 kPa)	1.9 in w.c. (0.47 kPa)	SPDT mercury	PG-7000-153-P1	1-30 in w.c. (.25-7.45 kPa)	4 in w.c. (1.0 kPa)	SPDT snap
PG-153-P2	0.5-5 psid (0.3-.345 bar)	0.4 psid (0.38 bar)	SPDT mercury	PG-7000-153-P2	0.5-5 psid (.03-.345 bar)	.5 psid (.035 bar)	SPDT snap
PG-3-P1	1-30 in w.c. (.25-7.47 kPa)	1.3 in w.c. (0.32 kPa)	SPST mercury*	PG-7000-153HS-P1	1-30 in w.c. (.25-7.47 kPa)	4 in w.c. (1.0 kPa)	SPDT hermetically sealed silver snap
PG-3-P2	0.5-5 psid (.03-.345 bar)	0.3 psid (0.21 kPa)	SPST mercury*	PG-7000-153HG-P1	1-30 in w.c. (.25-7.47 kPa)	4 in w.c. (1.0 kPa)	SPDT hermetically sealed gold snap

\*SPST switches shown are close on increase of pressure.  
For open on increase of pressure replace 3 in middle of model number with 2. **Example:** PG-2-P1.

Differential Pressure Switches