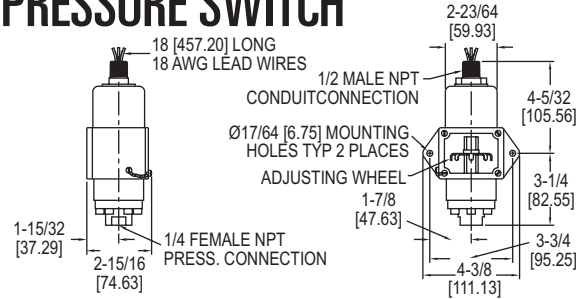


# EXPLOSION-PROOF DIAPHRAGM OPERATED PRESSURE SWITCH

Visible Set point, Fixed Deadband, Pressure Ranges to 1400 psi



The **Series 1000E Explosion-Proof Diaphragm Operated Pressure Switch** has the same rugged construction as used in Series 1000W plus explosion-proof design are combined in this new unit. UL listed for Class I, Groups A, B, C & D; Class II, Groups E, F & G. Belleville spring movement permits mounting of control in any position and helps prevent contact chatter. High over-pressure protection and vibration resistance are also featured.

## FEATURES/BENEFITS

- Weatherproof housing is ideal for a wide variety of applications where dust or water is present
- Spring movement design provides for control in any mounting position and prevents contact chatter reducing false or inconsistent switching
- UL listed to support rigorous process applications and regulations

## APPLICATIONS

- Chemical, petroleum, food and drug processing industries
- Process and industrial applications

## SPECIFICATIONS

**Wetted Materials:** See pressure chamber and diaphragm material in model chart.

**Temperature Limits:** -30 to 170°F (-35 to 77°C).

**Pressure Limit:** 3000 psig (206.8 bar).

**Enclosure Rating:** Explosion-proof, UL listed for Class I, Groups A, B, C and D; Class II, Groups E, F, and G.

**Switch Type:** SPDT snap switch. Hermetically sealed optional.

**Electrical Rating:** 15 A @ 125/250/480 VAC res., 0.5 A @ 125 VDC, 0.25 A @ 250 VDC.

**Wiring Connections:** 18 AWG, 18" (460 mm) color-coded leads: N.O. (yellow), N.C. (black), and common (red).

**Conduit Connection:** 1/2" male NPT.

**Process Connection:** 1/4" female NPT.

**Mounting Orientation:** Any position.

**Set Point Adjustment:** Internal thumbwheel.

**Weight:** 3 lb (1.4 kg).

**Deadband:** See model chart.

**Agency Approvals:** UL.

## MODEL CHART

Aluminum Pressure Chamber Polyamide Diaph. Model	316 SS Pressure Chamber FEP Diaph. Model	Adjustable Operating Range psig (bar)	Approx.* Deadband (Fixed) psig (bar)
1003E-A1-J	1003E-B3-J	5 to 40 (.48 to 2.8)	2.5 (.17)
1004E-A1-J	1004E-B3-J	10 to 70 (.69 to 4.8)	5 (.34)
1005E-A1-J	1005E-B3-J	25 to 200 (1.7 to 13.8)	10 (.69)
1006E-A1-J	1006E-B3-J	50 to 350 (3.5 to 24.1)	18 (1.2)
1007E-A1-J	1007E-B3-J	75 to 550 (5.2 to 37.9)	36 (2.5)
1008E-A1-J	1008E-B3-J	100 to 900 (6.9 to 62.1)	60 (4.1)
1009E-A1-J	1009E-B3-J	200 to 1400 (13.8 to 96.5)	90 (6.2)

\*Deadband 10-15% larger when using 316 SS diaphragm.

**Note:** To order, change A1 to B2 for 316 SS diaphragm and pressure chamber.

**Example:** 1003E-B2-J. Values shown are for mid-scale.