Explosion-proof, heavy duty, industrial unit has a unique new design which provides sensitivity to differential pressures as low as 10 inches of water (254 mm w.c.), yet handles total pressure of 1500 psi (103 bar). Unlike common differential pressure switches that use a piston-type motion transfer, the Series H3 utilizes a rotary motion transfer shaft that prevents a change in total pressure from causing a setpoint shift. Unit yields deadbands approximately 5% of range, with zero setpoint shift due to variation in working pressures. Friction is minimized and repeatability increased by allowing range spring to act directly on diaphragm plate. Rolling diaphragm design maintains constant effective area to further reduce friction. Diaphragm is allowed to “seat”, allowing application of full rated pressure, without damage. Special overtravel feature prevents overtightening of range adjust screw. Choose optional 316SS chamber for water and water-based fluids or harsher applications.

**Specifications**

- **Wetted Materials:** See pressure chamber and diaphragm material in model chart.
- **Temperature Limit:** -4 to 220°F (-20 to 104°C), ATEX: -20 to 90°C (-4 to 194°F).
- **Pressure Limit:** 1500 psig (103 bar).
- **Enclosure Rating:** Standard meets NEMA 4X (IP56), drain option meets NEMA 3 (IP54). For hazardous use, see the hazardous location ratings chart.

**Agency Approvals:** UL, CSA, CE, and ATEX see ratings chart.

**Construction:**

- **Hazardous Location Ratings**
  - Model H3A-1SL - 24.00
  - Model H3A-2SL - 438.00
  - Model H3A-3SL - 438.00
  - Model H3S-1SL - 585.00
  - Model H3S-2SL - 585.00
  - Model H3S-3SL - 585.00
  - A-610, Pipe Mounting Kit for 1-1/4" to 2" pipe - 24.00

**Electrical Rating:** 5A @ 125/250 VAC, 30 VDC.

**Connections:**

- **Conduit Connection:** 3/4" female NPT.
- **Process Connection:** 1/8" male NPT.
- **Mounting Orientation:** Vertical.
- **Set Point Adjustment:** Internal screw.
- **Weight:** 4 lb, 2 oz (2 kg).
- **Deadband:** Approximately 5% of range.

**Options**

- **Circuit Switch (Options):**
  - SPDT snap action switch rated 5A @ 125/250 VAC, 30 VDC.
  - DPDT snap action switch rated 5A @ 125/250 VAC, 30 VDC — add $108.00

- **Electrical Connection Options:**
  - 18 AWG x 18 inch lead wires — add $37.25
  - UL, CSA approved internal terminal block — add $37.25
  - ATEX approved internal terminal block — add $108.00

- **Housing with drain — allows condensate to be drained from inside enclosure** (meets NEMA 3 instead of 4X) — add $37.25

- **Gold contacts on snap switch for dry circuits** — add $10.00

- **Fluoroelastomer diaphragm option where not standard** — add $3.40

- **Hardened diaphragm option** — add $3.40

**Models**

- **H3A-1SL**
- **H3A-2SL**
- **H3A-3SL**
- **H3S-1SL**
- **H3S-2SL**
- **H3S-3SL**
- **A-610, Pipe Mounting Kit for 1-1/4" to 2" pipe**

**Sample Analysis**

- **H3**
- **S**
- **2**
- **S**
- **C**
- **MV**

**Example**

- **H3S-25C-MV Differential Pressure Control**
- 316 SS pressure chamber and Fluoroelastomer diaphragm; weatherproof and ATEX; SPDT snap action switch with gold contacts; fixed deadband, automatic reset; adjustable range 0.5-15 psid

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