

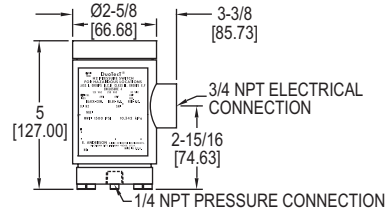


SERIES H2 | W. E. ANDERSON™ BY DWYER



# DUAL-ACTION EXPLOSION-PROOF PRESSURE SWITCHES

## Explosion-proof and Weatherproof Enclosure



Explosion-Proof, UL & CSA Listed for Class I, Groups B, C & D and Class II, Groups E, F & G. The **SERIES H2** is designed for sequencing two different actions as pressure of a liquid or gas increases or decreases. The design consists of two concentric pistons operated by a single diaphragm with one pressure chamber. Each piston actuates a separate switch independent of the other. The switches may be adjusted to operate together, at opposite ends of the range or at two intermediate set points. The threaded top is removed to field adjust or service switches without disturbing electrical or pressure connections. The Duotect® switch is explosion-proof and weatherproof. It can be mounted in any position and is not affected by vibration.

### FEATURES/BENEFITS

- Explosion-proof and weather-proof housing provides device protection for outdoor use or harsh environment operation
- UL listed, CSA approved to support rigorous process applications and regulations
- Independent piston action design for either gas or liquid allows switches to active together or independently based on settings
- Mounting in any position and not affected by vibration provides reliable switching for equipment

### APPLICATIONS

- Mechanical HVAC or process equipment
- Chemical, petroleum, food and drug processing industries
- Process and Industrial applications

### SPECIFICATIONS

**Wetted Materials:** 316 SS chamber with FEP diaphragm and Buna-N O-ring standard. Fluoroelastomer or EPDM O-ring optional.

**Temperature Limit:** 275°F (135°C). CSA approved: -20 to 90°C (-4 to 184°F).

**Pressure Limit:** 1500 psig (103 bar).

**Enclosure Rating:** UL listed explosion-proof, Class I, Groups B, C, and D. Class II Groups E, F, and G. Meets NEMA 4X (IP66). CSA optional. Class I, Groups B, C & D. Class II, Groups E, F, & G -20°C ≤ Tamb ≤ 75°C T6 [optional -20°C ≤ Tamb ≤ 40°C T5] Type 4.

**Switch Type:** Two SPDT snap switches.

**Electrical Rating:** 5 A @ 125/250 VAC. 5 A res., 3 A ind. @ 30 VDC. Gold contacts optional.

**Electrical Connections:** 18 AWG, 18" (460 mm) long.

**Conduit Connection:** 3/4" female NPT.

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

**Mounting Orientation:** Any position.

**Set Point Adjustment:** Internal nut.

**Weight:** 2 lb (.9 kg).

**Deadband:** Approximately 10% of range.

**Agency Approvals:** CSA, UL.

### MODEL CHART

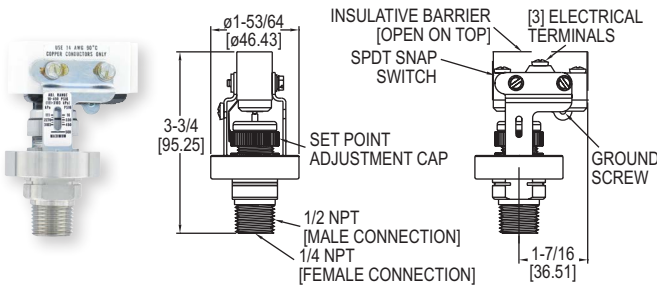
Model	Low Range psig (bar)	High Range psig (bar)
H2S-1	3 to 40 (0.21 to 2.76)	5 to 75 (0.35 to 5.17)
H2S-2	25 to 250 (1.72 to 17.2)	30 to 400 (2.07 to 27.6)
H2S-3	100 to 1000 (6.89 to 68.9)	150 to 1500 (10.3 to 103)



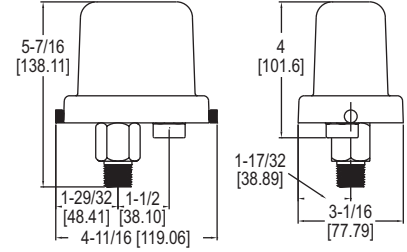
SERIES A1F | MERCROID® BY DWYER

# LOW COST OEM PRESSURE SWITCH

## Field Adjustable with Weather-Proof Enclosure



A1F



A1F with weatherproof enclosure

Low cost and precision made, the **SERIES A1F** Pressure Switch is ideal for OEM industrial applications. Wetted materials of 316 SS and fluorocarbon ensure great chemical compatibility with a wide range of process media. The open case style is perfect for panel mounting applications like pump skids. Weatherproof enclosure is available in polycarbonate offering a low cost weatherproof switch. Superior 15 A contact allows direct control of motors or pumps without the use of external relays, a true cost savings. Features include a convenient indicating scale for quick and easy field adjustment.

### FEATURES/BENEFITS

- 15 A contact allows direct control reducing costs and reliability by having to introduce additional contacts and relays
- Case style allows use for panel mounting application with optional weather-proof enclosure for use in outdoor environments
- Field adjustable reduces installation time bring application on-line faster
- Wetted material provides support for wider range of process media

### APPLICATIONS

- OEM
- Compressors
- Motor control
- Process equipment
- Pump control

### SPECIFICATIONS

**Service:** Compatible liquids and gases.

**Wetted Materials:** Pressure chamber: 316 SS; Diaphragm: Fluorocarbon.

**Temperature Limit:** -40 to 175°F (-40 to 80°C).

**Pressure Limits:** 500 psig (34 bar).

**Enclosure Rating:** No rating for open construction. Installed properly within an optional weatherproof enclosure meets NEMA 4X (IP66) standards.

**Switch Type:** SPDT snap switch.

**Electrical Rating:** 15 A @ 120/240/480 VAC; 1/8 HP @ 125 VAC; 1/4 HP @ 250 VAC.

**Electrical Connection:** Screw terminals.

**Process Connection:** 1/4" female NPT and 1/2" male NPT.

**Mounting Orientation:** Within 20° of vertical.

**Set Point Adjustment:** Knurled screw cap with indicating scale.

**Deadband:** Fixed. See deadband chart.

**Weight:** 10.5 oz (297 g).

**Agency Approvals:** cUL, UL.

### MODEL CHART

Model	Range psig (bar)	Deadband at Min. Range psig (bar)	Deadband at Max. Range psig (bar)
A1F-O-SS-1-1	2 to 15 (0.14 to 1.03)	2 (0.14)	3 (0.21)
A1F-O-SS-1-2	4 to 75 (0.28 to 5.17)	4 (0.27)	15 (1.0)
A1F-O-SS-1-3	8 to 225 (0.55 to 15.5)	8 (0.55)	25 (1.7)
A1F-O-SS-1-4	16 to 450 (1.1 to 31.0)	15 (1.0)	50 (3.5)

**Note:** Optional enclosure factory installed. To order, change O to PC.

**Example:** A1F-PC-SS-1-1