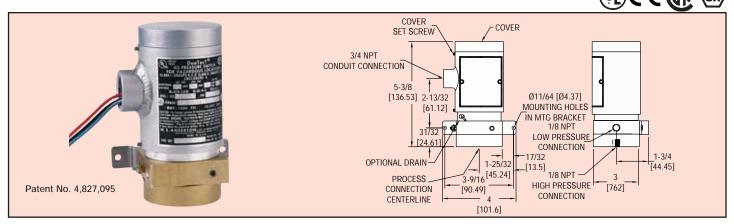


Explosion-Proof Differential Pressure SwitchesSetpoints from 10" w.c. to 200 psid — Rated 1500 psig, Weatherproof





Explosion-proof, heavy duty, industrial unit has patented and 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, up to 1500 psi (103 bar), on either high or low pressure port, without damage. Special overtravel feature prevents overtightening of range adjust screw. Choose optional 316SS chamber for water and water-based fluids or harsher applications.

HAZARDOUS LOCATION/WEATHERPROOF RATINGS												
MODEL	UL	CSA	Directive 94/9/EC ATEX Compliant									
H3 C	_		C € 0344 ⟨E⟩ II 2 G EEx d IIB -20°C≤ T amb ≤ 75°C T6 EC-Type Certificate No. KEMA 03ATEX 2584									
H3 L H3 T	CI. I, Gr.B, C & D CI. II, Gr.E, F & G NEMA 4X	CI. I, Gr.B, C & D CI. II, Gr.E, F & G NEMA 4	_									
H3 _ – C-DR	_	_	C€ 0344 ⟨x⟩ II 2 G EEx d IIB -20°C≤ T amb ≤ 75°C T6 EC-Type Certificate No. KEMA 03ATEX 2584									
H3 L-DR	CI. I, Gr.B, C & D CI. II, Gr.E, F & G NEMA 3	_	_									



Internal terminal blocks for conductors up to 18 gauge are option-

Optional NEMA 3 (IP 54) housing includes explosion-proof drain. Standard NEMA 4X (IP 56) version is without drain.

Ground Connection Standard — Internal ground connection also standard -use either

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: See ratings chart. Switch Type: SPDT or DPDT snap switch Electrical Rating: 5A @ 125/250 VAC, 30 VDC. Electrical Connections: See model chart. Conduit Connection: 3/4" female NPT. Process Connection: 1/8" female NPT. Mounting Orientation: Vertical.

Set Point Adjustment: Internal screw. Weight: 4 lb, 2 oz (2 kg).

Deadband: Approximately 5% of range.
Agency Approvals: UL, CSA, CE, and ATEX see ratings chart.

Model H3A-1SL																													
Model H3A-2SL																													
Model H3A-3SL																								 					
Model H3S-1SL																													
Model H3S-2SL																													
Model H3S-3SL			 V:		٠.	٠.		. ,		i.		 ?"		:		٠		 ٠	٠	 ٠	٠		٠	 	٠	٠	٠		٠
A-610-Pipe Mou	nun	ıg	ΚI	ιı	OI		۱-	1/	4	ιι	,	2	μ	ıμ	e									 					

Model Chart - Series H3

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Example	Н3	S	2	S	С	MV	H3S-2SC-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
Construction	НЗ						Series desgnator, weatherproof and explosion-proof
Pressure Chamber & Diaphragm Material (Wetted)		A S					Aluminum chamber with Nitrile diaphragm 316 SS chamber with Fluoroelastomer diaphragm
Adjustable Operating Range Deadband approximately 5% of range			1 2 3 4				Adjustable range 10-180 in. w.c. (2.48-44.78 kPa) Adjustable range 0.5-15 psid (0.03-1 bar) Adjustable range 5-70 psid (34-4.8 bar) Adjustable range 10-200 psid (.7-13.8 bar) Maximum pressure for all ranges is 1500 psi (103 bar)
Circuit (Switch) Options				S D			SPDT snap action switch rated 5A @ 125/250 VAC, 30 VDC DPDT snap action switch rated 5A @ 125/250 VAC, 30 VDC
Electrical Connection					L T		18 AWG x 18 inch lead wires UL, CSA approved internal terminal block
Options						C DRAIN MV VIT	ATEX approved internal terminal block Housing with drain - allows condensate to be drained from inside enclosure (meets NEMA 3 instead of 4X) Gold contacts on snap switch for dry circuits rated 1A @ 125 VAC, 1A resistive or 0.5 A inductive @ 30 VDC Fluoroelastomer diaphragm option where not standard