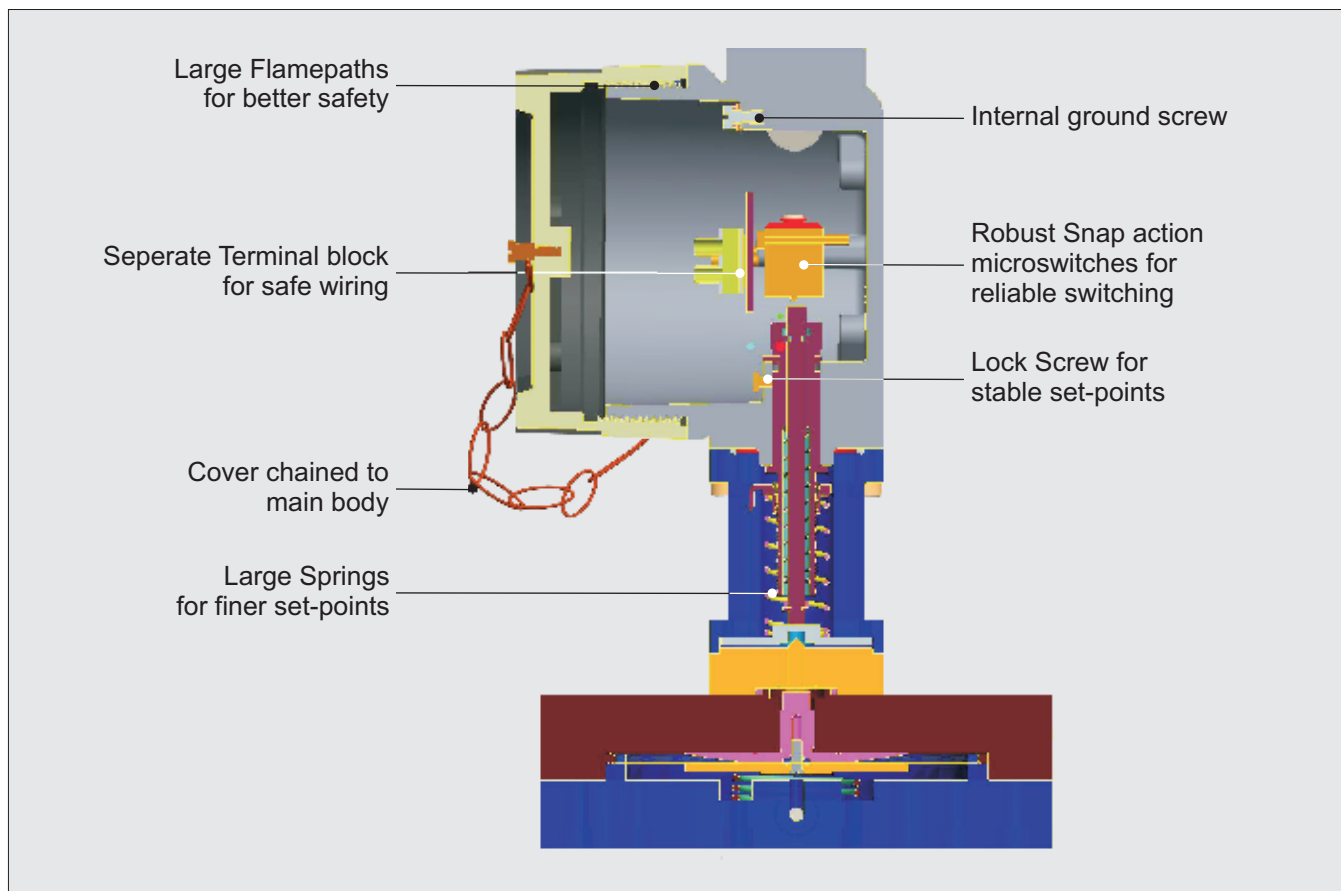


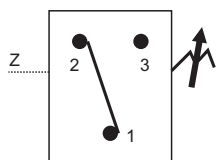
FC LOW ΔP HIGH PROOF PRESSURE DIFFERENCE SWITCHES



Approximate Weight :

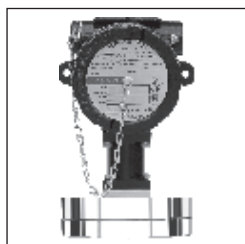
Pressure switches with Aluminium enclosure : 7.87 Kg.
 Pressure switches with Grey CI enclosure : 10.27 Kg.
 Pressure switches with SS enclosure : 10.42 Kg.

Electrical Connection :

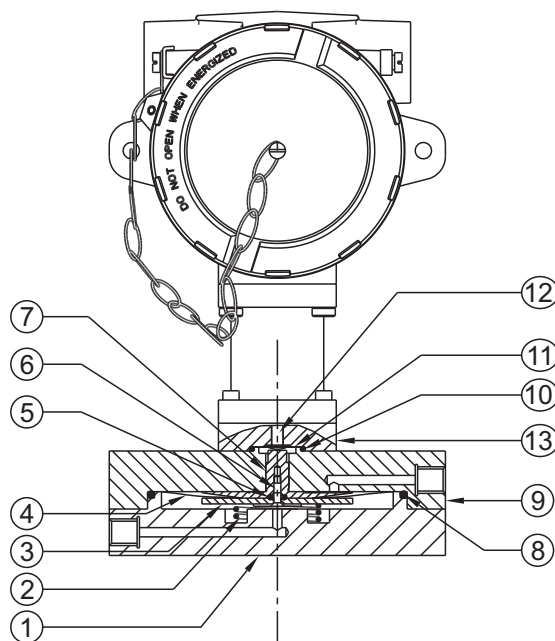


Some Applications :

Used in gas skids, cooling systems, applications requiring very low pressure difference but high system/proof pressure like pressurization in cross country pipelines, etc.



PRESSURE CAPSULE DETAILS

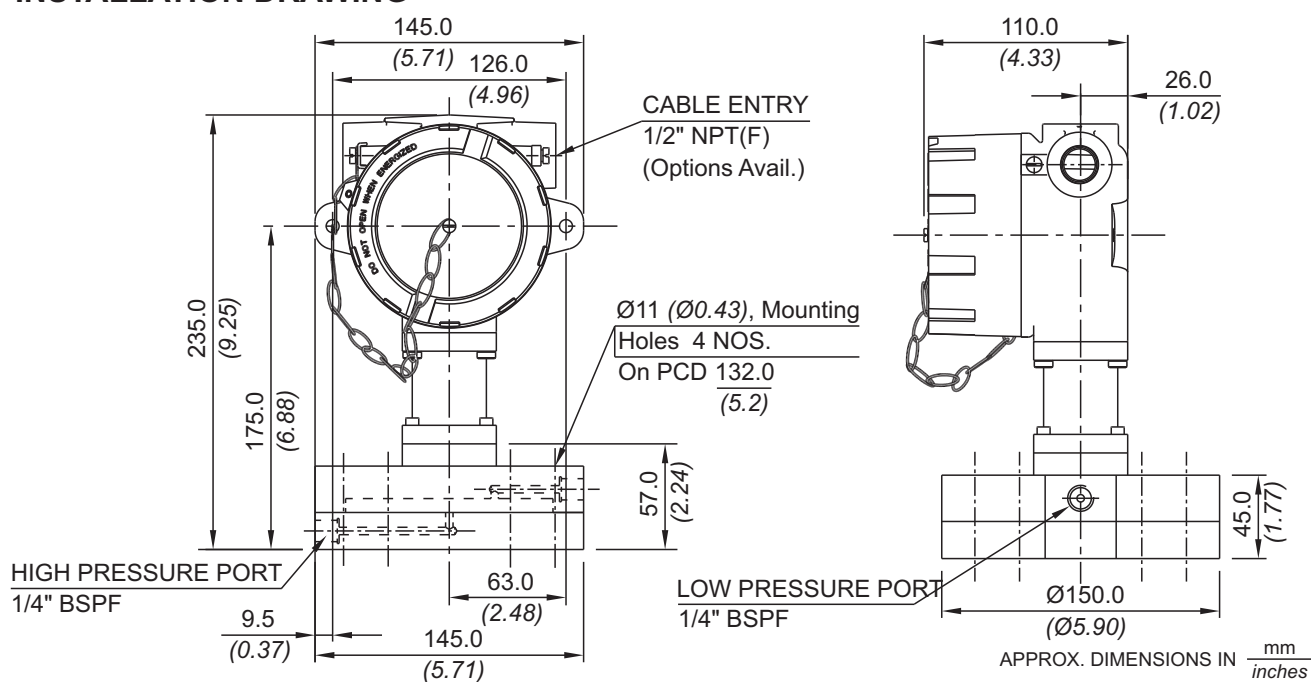


No. Description

1. High Pressure Housing
2. Spring
3. H P Plunger
4. Diaphragm
5. Plunger 'O' ring
6. Plunger Screw
7. L P Plunger
8. Main Sealing 'O' ring
9. Low Pressure Housing
10. Sealing 'O' ring
11. Diaphragm
12. Small Plunger

Note : wetted parts are mentioned in italics.

INSTALLATION DRAWING



FC LOW ΔP HIGH PROOF PRESSURE DIFFERENCE SWITCHES

RANGE SELECTION TABLE

Range Code	Range mbar ("wc)	Differential* mbar ("wc)	Maximum Working Pressure bar (psi)
		Approximate Maximum for "A1" microswitch	
M03	5 - 25 (2.007 - 10.037)	5 (2.007)	100 (1450.38)
M05	10 - 50 (4.015 - 20.073)	5 (2.007)	100 (1450.38)
M10	10 - 100 (4.015 - 40.150)	10 (4.015)	100 (1450.38)
M15	10 - 150 (4.015 - 60.22)	10 (4.015)	100 (1450.38)
M25	20 - 250 (8.029 - 100.366)	15 (6.022)	100 (1450.38)
M35	50 - 350 (20.073 - 140.52)	35 (14.05)	110 (1595.00)

*Minimum differential increases with setpoint, values with neoprene diaphragm (Graphs available on request)

* Differentials of microswitches A2 through A9 will vary. Differentials for A7 are typically twice that for A1 microswitch. Please indicate specifically the differential value in enquiry/order, when it is critical in your application.

HOW TO ORDER FLAMEPROOF LOW ΔP HIGH PROOF RANGE PRESSURE DIFFERENCE SWITCHES

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
Non standard allocation	Gas Group Classification	Cable Entry Size	Switch Type	Range Code (values in mbar)	Microswitch Type	Pressure Port Material / Size	Diaphragm
☐ Reserved for non-standard options not covered in catalogue. Will be given by manufacturer, only after agreement of supply details with customer.	FC = Flameproof pressure switch, ATEX & IECEx approved, with Aluminium head as per IS/IEC 60079-1 for Gas Gr. IIC	1 = Al. head 1/2" NPT threads 2 = Al. head 3/4" NPT threads 3 = Al. head M20 x 1.5 threads 4 = Grey CI head 1/2" NPT threads 5 = Grey CI head 3/4" NPT threads 6 = Grey CI head M20 x 1.5 threads 7 = SS head 1/2" NPT threads 8 = SS head 3/4" NPT threads 9 = SS head M20 x 1.5 threads	D1 = pressure difference switch, fixed differential without scale D2 = pressure difference switch, fixed differential with scale in mbar D3 = pressure difference switch, fixed differential with scale in "wc	M03 = (5 - 25) M05 = (10 - 50) M10 = (10 - 100) M15 = (10 - 150) M25 = (20 - 250) M35 = (50 - 350)	A1 = General purpose microswitch rated at 15A; 250 VAC A2 = Hermetically sealed for corrosive environments A3 = gold plated contacts for low voltage applications A4 = DPDT configuration A5 = for high DC ratings A6 = elements with adjustable deadband A7 = 2SPDT switching elements A9 = General purpose microswitch rated at 5A; 250 VAC	S1 = SS316 / 1/4" BSP(F) S2 = SS316 / 1/4" NPT(F)	0 = Neoprene 1 = Teflon
						Please refer page no. 226 & 227 for more pressure port options	For additional wetted parts please refer Pressure Capsule Details on Page 63
						Please refer page no. 230 for more microswitch options * Please refer note under Range Selection Table	

eg. A flameproof switch for gas group IIC, with 1/2" NPT cable entry in aluminium housing as 1SPDT pressure switch, having 20 mbar to 250 mbar pressure range, with 15Amp. microswitch, SS316 pressure housing with 1/4" BSP port size & neoprene diaphragm shall be specified by

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
☐	FC	1	P1	M25	A1	S1	0

Please specify full model number to avoid ambiguity. If only the first two groups are specified while ordering, uncalibrated switches with standard wetted parts and enclosures will be supplied.