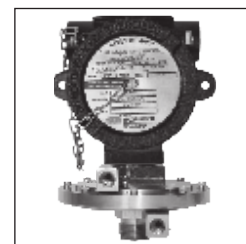
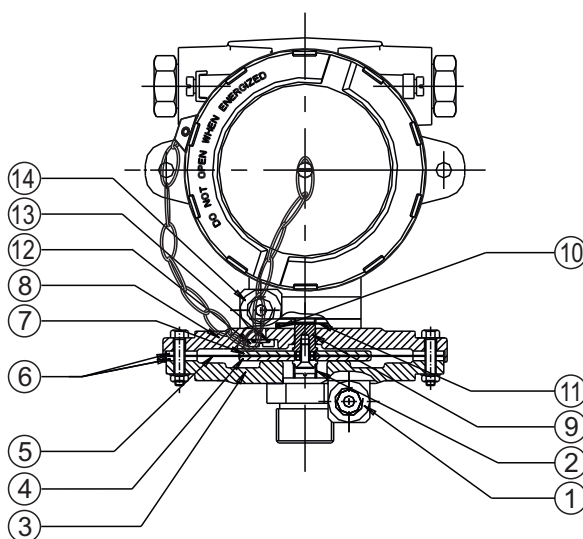




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PRESSURE CAPSULE DETAILS



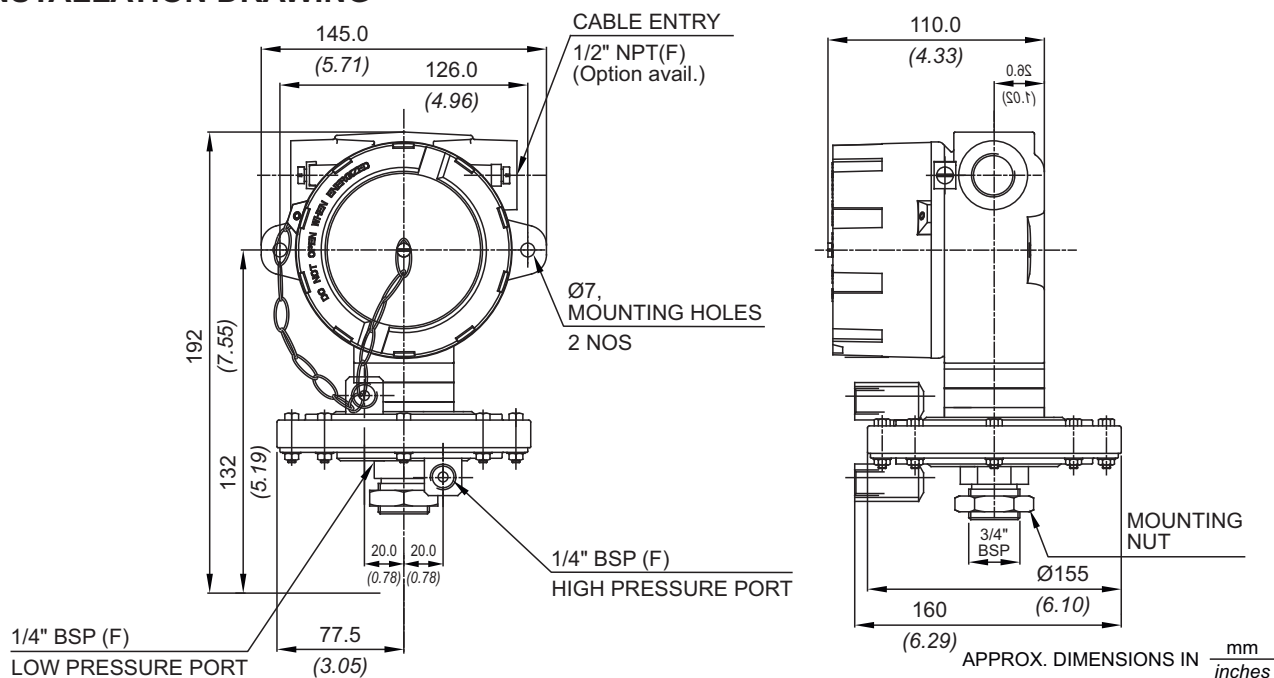
No. Description

1. High pressure port (S.S.)*
2. Support spring (S.S.)
3. Bottom flange (S.S.)*
4. Support plate (S.S.)
5. Diaphragm (Neoprene)
6. Gasket (Nitrile)
7. Top plate (S.S.)
8. Top flange (S.S.)*
9. Transfer pin (S.S.)
10. 'O' ring (Nitrile)
11. Sealing diaphragm (Nitrile)
12. Top flange screw (S.S.)
13. Sealing 'O' ring (Nitrile)
14. Low pressure port (S.S.)*

Note : wetted parts are mentioned in italics.

*Pressure ports are brazed with flange

INSTALLATION DRAWING



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ULTRA LOW RANGE PRESSURE DIFFERENCE SWITCHES

RANGE SELECTION TABLE

Range Code	Range mbar ("Wc)	Differential* mbar ("Wc)	Maximum Working Pressure bar (psi)
		Approximate Maximum for "A1" microswitch	
U15	0.4 to 1.5 (0.16 to 0.60)	0.50 (0.20)	0.5 (7.25)
U25	0.5 to 2.5 (0.20 to 1.00)	0.80 (0.32)	0.5 (7.25)
U40	1.0 to 4.0 (0.40 to 1.60)	1.20 (0.48)	0.5 (7.25)

Note:

1. The minimum differential increases with the setpoint. The differential values mentioned in the above table are approximate maximum for FSR. The differential value will vary according to the pressure range selected and microswitch type. For actual values of differential please contact sales office.

2. When using 2SPDT switching arrangement, both microswitches may not actuate and/or deactuate at the same point. A small stage gap, normally upto +/- 5% FSR (depending on range code) may be observed. The On-Off differential (hysteresis) typically tends to be atleast double of those published for 1SPDT pressure switches.

If actuation and/or deactuation at same point is critical part of operation, then it can be achieved by using a separate DPDT relay. This relay will need a separate power supply for it's coil.

HOW TO ORDER FLAMEPROOF ULTRA LOW RANGE PRESSURE DIFFERENCE SWITCHES

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8										
Non standard allocation	Model	Cable Entry Size	Switch Type	Range Code (values in mbar)	Microswitch Type	Pressure Port Material / Size	Diaphragm										
☐ A prefix "N" is used in the model code in case of any non standard options / accessories that are provided with the switches. Will be given by manufacturer, only after agreement of supply details with customer. The prefix is subject to change as per specific requirement.	FC = IP66 Flameproof pressure switch, ATEX, IECEx & PESO approved FE = IP66 Flameproof pressure switch, PESO approved	1 = Al. head ½" NPT threads 2 = Al. head ¾" NPT threads 3 = Al. head M20 x 1.5 threads *4 = Grey Cl head ½" NPT threads *5 = Grey Cl head ¾" NPT threads *6 = Grey Cl head M20 x 1.5 threads 7 = SS head ½" NPT threads 8 = SS head ¾" 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"	U15 = (0.4 - 1.5) U25 = (0.5 - 2.5) U40 = (1.0 - 4.0)	A1 = General purpose microswitch rated at 15 A; 250 VAC *A6 = elements with adjustable deadband *A7 = 2SPDT switching elements A8 = General purpose microswitch rated at 5 A, 250 VAC; 5 A, 28 VDC *B7 = 2SPDT Switching Elements C6 = 1SPDT Adjustable Differential	S1 = SS316 / ¼" BSP(F) S2 = SS316 / ¼" NPT(F)	0 = Neoprene 1 = PTFE										
		Approx. switch weight in Kgs	<table><tr><td>Enclosure</td><td>FC</td><td>FE</td></tr><tr><td>Aluminium</td><td>3.910</td><td>3.410</td></tr><tr><td>Grey Cl</td><td>6.320</td><td>5.820</td></tr><tr><td>SS</td><td>6.410</td><td>5.910</td></tr></table>	Enclosure	FC	FE	Aluminium	3.910	3.410	Grey Cl	6.320	5.820	SS	6.410	5.910	*Not available in FE models	For adjustable differential please select microswitches A6 or C6 in group 6
Enclosure	FC	FE															
Aluminium	3.910	3.410															
Grey Cl	6.320	5.820															
SS	6.410	5.910															

eg. Flameproof switch for gas group, with $\frac{1}{2}$ " NPT cable entry in aluminium housing as 1SPDT pressure switch, fixed differential without scale, having 0.16 to 0.60 "Wc" pressure range, with 15Amp. microswitch, SS316 pressure housing with $\frac{1}{4}$ " 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	D1	U15	A1	S1	0

Please specify full model number to avoid ambiguity.

ULTRA LOW RANGE PRESSURE DIFFERENCE SWITCHES

FC/FE