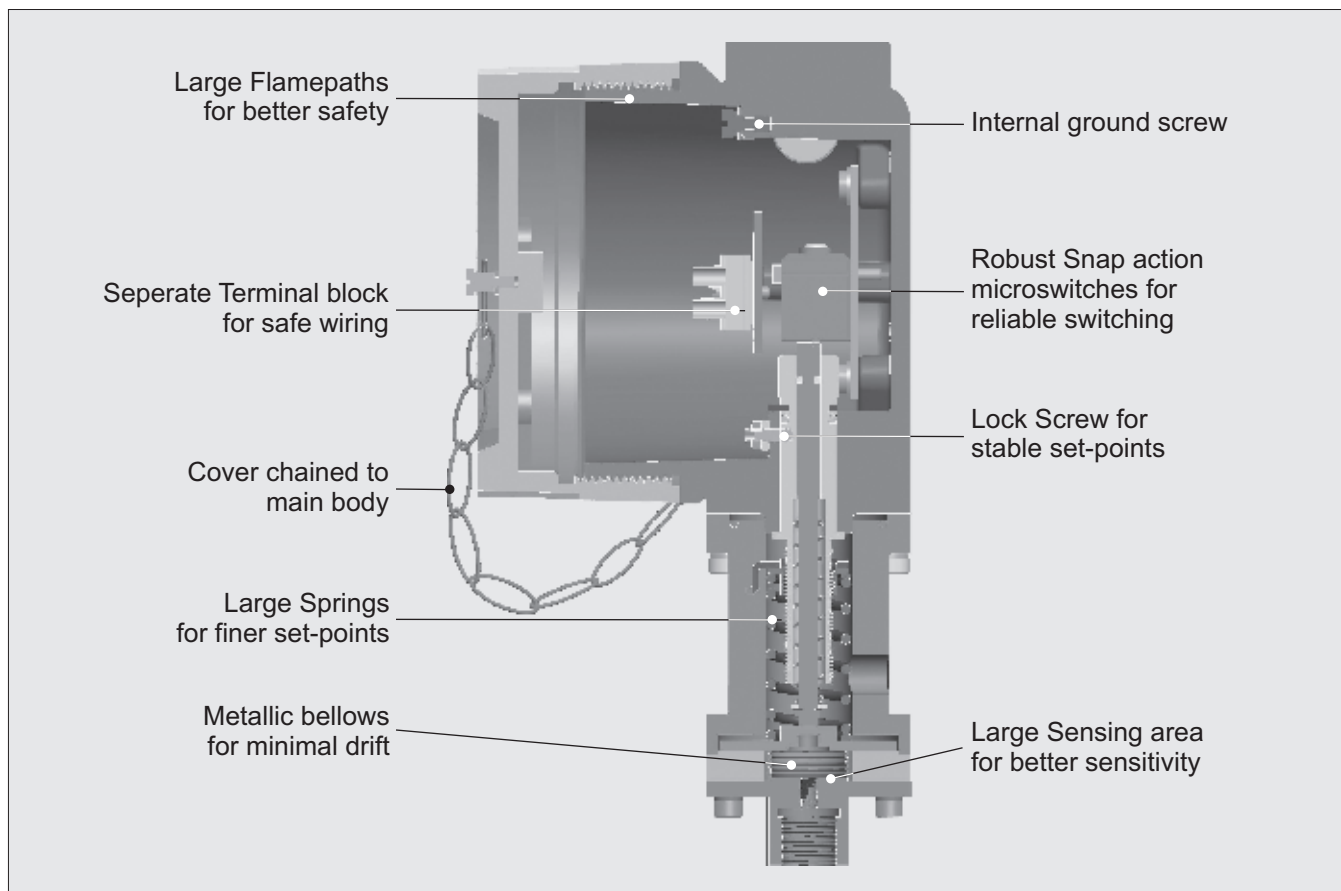


FC HIGH RANGE BELLOWS SWITCHES



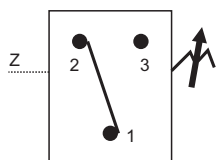
Approximate Weight :

Pressure switches with Aluminium enclosure : 1.92 Kg.

Pressure switches with Grey CI enclosure : 4.32 Kg.

Pressure switches with SS enclosure : 4.45 Kg.

Electrical Connection :

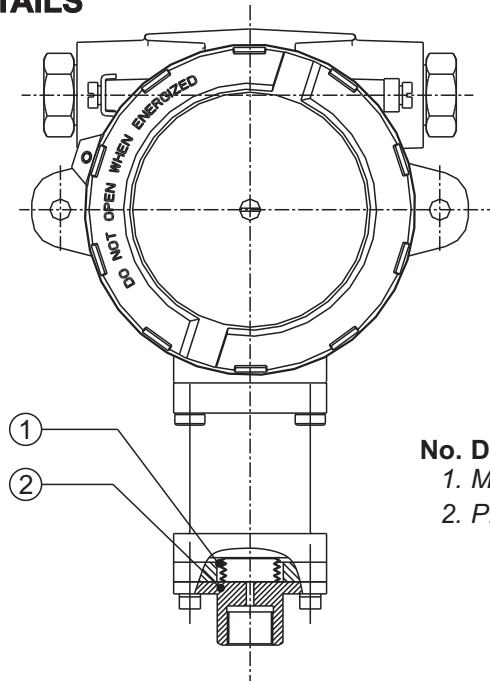


Some Applications :

For cryogenic applications.



PRESSURE CAPSULE DETAILS

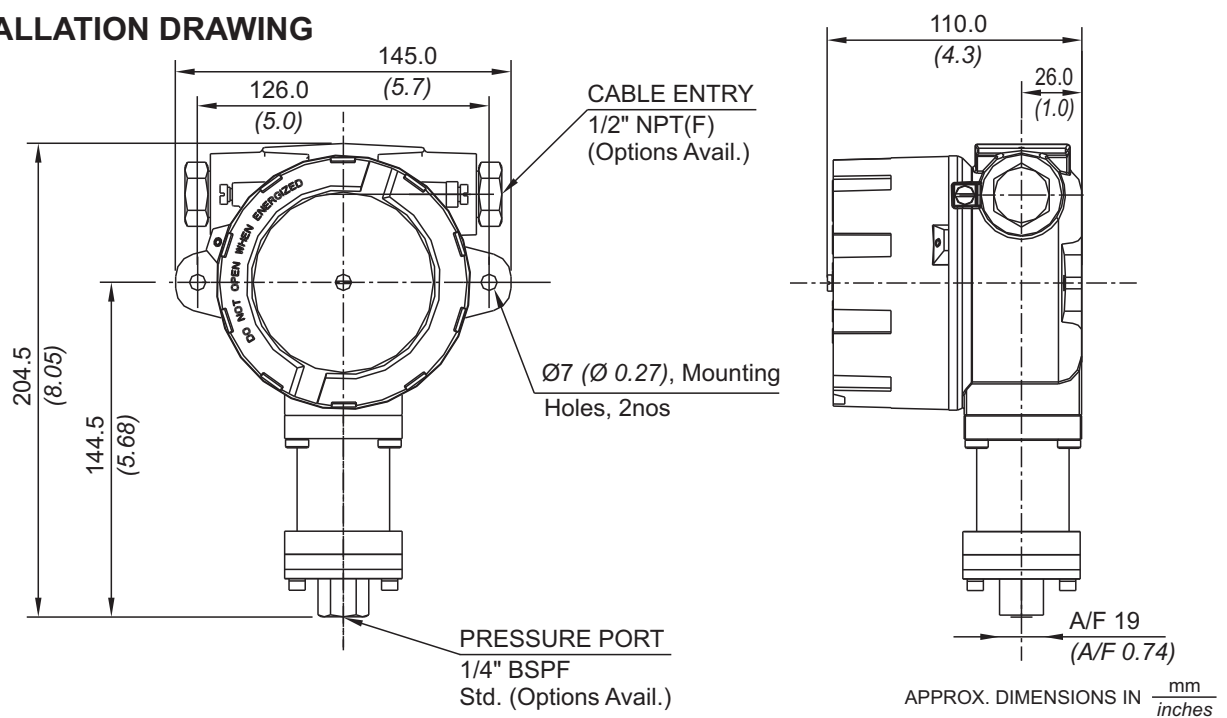


No. Description

1. Metallic Bellow
2. Pressure Housing

Note : *wetted parts* are mentioned in italics.

INSTALLATION DRAWING



FC HIGH RANGE BELLOWS SWITCHES

RANGE SELECTION TABLE

Range Code	Range bar (psi)	Differential* bar (psi)	Maximum Working Pressure bar (psi)
		Approximate Maximum for "A1" microswitch	
H01	0.1 - 1.0 (1.45 - 14.50)	0.10 (1.45)	12 (174.05)
H02	0.1 - 1.5 (1.45 - 21.76)	0.12 (1.74)	12 (174.05)
H03	0.2 - 2.6 (2.90 - 37.71)	0.17 (2.46)	12 (174.05)
H04	0.2 - 3.6 (2.90 - 52.21)	0.10 (1.45)	12 (174.05)
H07	0.5 - 7.0 (7.25 - 101.50)	0.20 (2.9)	12 (174.05)
H10	0.5 - 10.0 (7.25 - 145.037)	0.20 (2.9)	25 (362.6)
H15	1.0 - 15.0 (14.5 - 217.55)	0.50 (7.25)	25 (362.6)
H30	5.0 - 25.0 (72.52 - 362.6)	0.50 (7.25)	35 (507.63)
H4T	5 - 40 (72.52 - 580.15)	5 (72.52)	100 (1450.37)
H1H	10 - 100 (145.037 - 1450.37)	12 (174.05)	200 (2900.75)

*Minimum differential increases with setpoint (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 HIGH RANGE BELLOWS PRESSURE 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 bar)	Microswitch Type	Pressure Port Material Size	Bellows Material
☐ 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	P1 = pressure switch, fixed differential without scale P2 = pressure switch, fixed differential with scale in bar P3 = pressure switch, fixed differential with scale in psi	H01 = (0.1 - 1.0) H02 = (0.1 - 1.5) H03 = (0.2 - 2.6) H04 = (0.2 - 3.6) H07 = (0.5 - 7.0) H10 = (0.5 - 10.0) H15 = (1.0 - 15.0) H30 = (5.0 - 25.0) H4T = (5 - 40) H1H = (10 - 100)	A1 = General purpose microswitch rated at 15 A; 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 5 A; 250 VAC Please refer page no. 230 for more microswitch options * Please refer note under Range Selection Table	B1 = SS316L / 1/4" BSP(F) B2 = SS316L / 1/4" NPT(F)	2 = SS 316L

eg. A flameproof switch for gas group IIC, with 1/2" NPT cable entry in aluminium housing as 1SPDT pressure switch, having 0.1 bar to 1 bar pressure range, with 15Amp. microswitch, Bellows pressure housing with 1/4" BSP port size & SS316L Bellows shall be specified by

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
☐	FC	1	P1	H01	A1	B1	2

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.