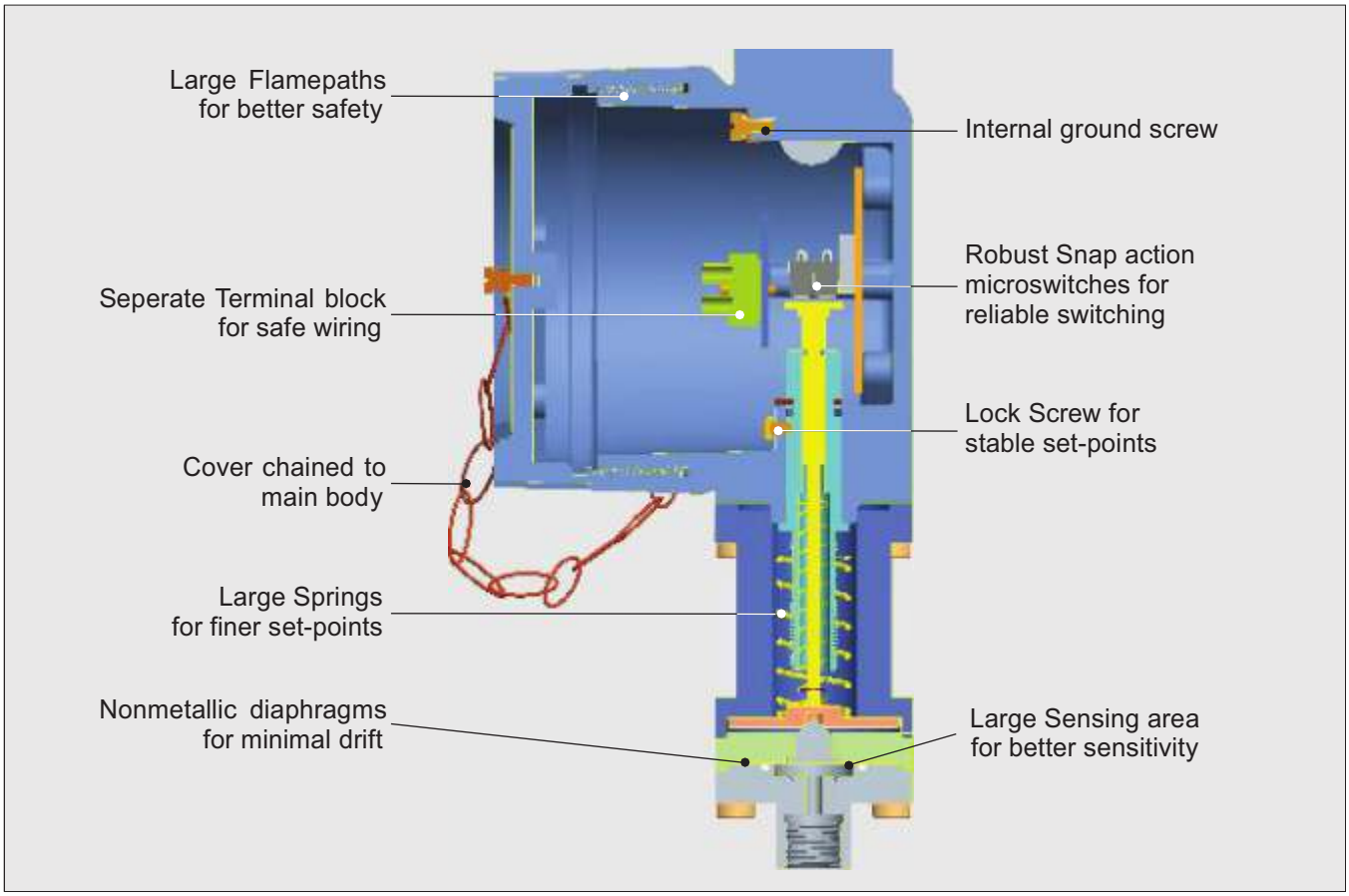
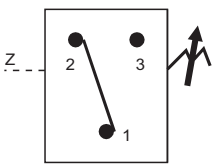
FC HIGH PROOF HIGH RANGE SWITCHES



Approximate Weight :

Pressure switches with Aluminium enclosure : 1.87 Kg.
Pressure switches with Grey CI enclosure : 4.27 Kg.
Pressure switches with SS enclosure : 4.42 Kg.

Electrical Connection :

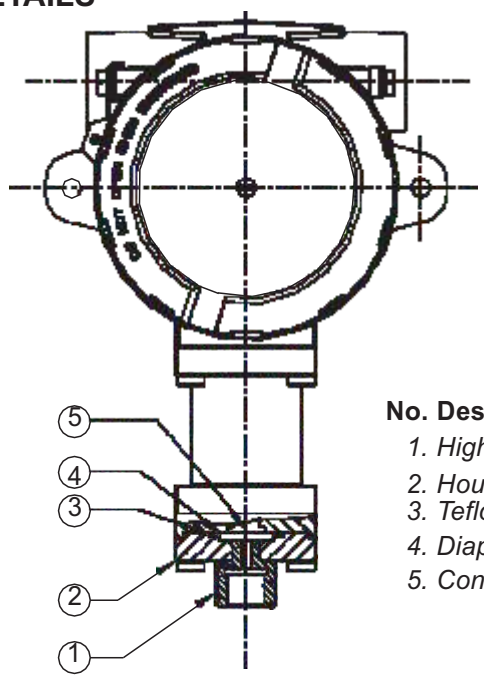


Some Applications :

High pressure gas handling systems, fire fighting systems where the maximum pressure is high and the tripping value is low.

HIGH PROOF HIGH RANGE SWITCHES FC

PRESSURE CAPSULE DETAILS

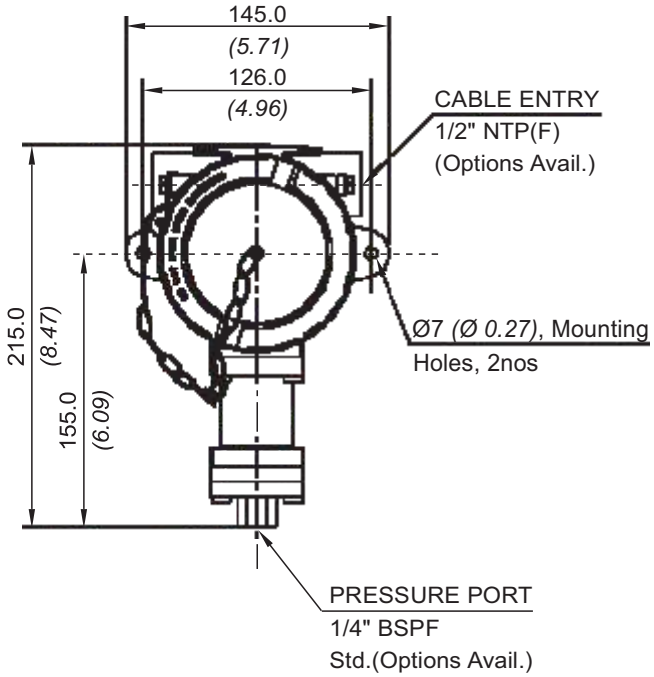


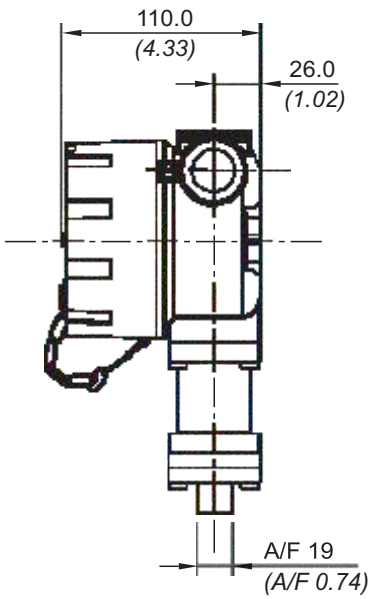
No. Description

1. *High Pressure Port*
2. *Housing Plate*
3. *Teflon® O-Ring*
4. *Diaphragm*
5. *Conical Plunger*

Note : *wetted parts* are mentioned in italics.

INSTALLATION DRAWING





APPROX. DIMENSIONS IN mm / *inches*

FC HIGH PROOF HIGH RANGE SWITCHES

RANGE SELECTION TABLE

Range Code	Range bar *(psi)*	Differential* bar *(psi)*	Maximum Working Pressure bar *(psi)*
		Approximate Maximum for "A1" microswitch	
P01	0.1 - 1.0 *(1.45 - 14.50)*	0.20 *(2.9)*	70 *(1015.26)*
P02	0.1 - 1.5 *(1.45 - 21.76)*	0.20 *(2.9)*	70 *(1015.26)*
P03	0.2 - 2.6 *(2.90 - 37.71)*	0.30 *(4.35)*	70 *(1015.26)*
P04	0.2 - 3.6 *(2.90 - 52.21)*	0.40 *(5.80)*	70 *(1015.26)*
P07	0.5 - 7.0 *(7.25 - 101.50)*	0.50 *(7.25)*	70 *(1015.26)*
P10	0.5 - 10.0 *(7.14 - 142.86)*	0.80 *(11.6)*	70 *(1015.26)*
P15	1.0 - 15.0 *(14.29 - 214.29)*	1.50 *(23.2)*	70 *(1015.26)*
P30	5.0 - 25.0 *(71.43 - 357.14)*	1.50 *(23.2)*	70 *(1015.26)*

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

* Differentials of miroswitches 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 PROOF HIGH RANGE PRESSURE 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 bar)	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 ½" NPT threads **2** = Al. head ¾" NPT threads **3** = Al. head M20 x 1.5 threads **4** = Grey CI head ½" NPT threads **5** = Grey CI head ¾" NPT threads **6** = Grey CI 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	**P 1** = pressure switch, fixed differential without scale **P2** = pressure switch, fixed differential with scale in bar **P3** = pressure switch, fixed differential with scale in psi	**P01** = (0.1 - 1.0) **P02** (0.1 - 1.5) **P03** = (0.2 - 2.6) **P04** = (0.2 - 3.6) **P07** = (0.5 - 7.0) **P10** = (0.5 - 10.0) **P15** = (1.0 - 15.0) **P30** = (5.0 - 25.0)	**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 * Some microswitches may not be available for particular ranges.Please check with sales office. Please refer page no. 230 for more microswitch options	**S1** = SS316 / ¼" BSP(F) **S2** = SS316 / ¼" NPT(F) Please refer page no. 226 & 227 for more pressure port options	**0** = Neoprene **1** = Teflon **2** = SS 316L

Continuous efforts for product development may necessitate changes in these details without notice

eg. A high proof high range flameproof switch with ½" NPT cable entry in aluminium housing as 1SPDT pressure switch, fixed differential without scale, having 0.1 bar to 1 bar pressure range, with 15 Amp. microswitch, SS316 pressure housing with ¼" BSP port size & SS316L diaphragm shall be specified by

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
☐	FC	1	P1	P01	A1	S1	2

Please specify full model number to avoid ambiguity.