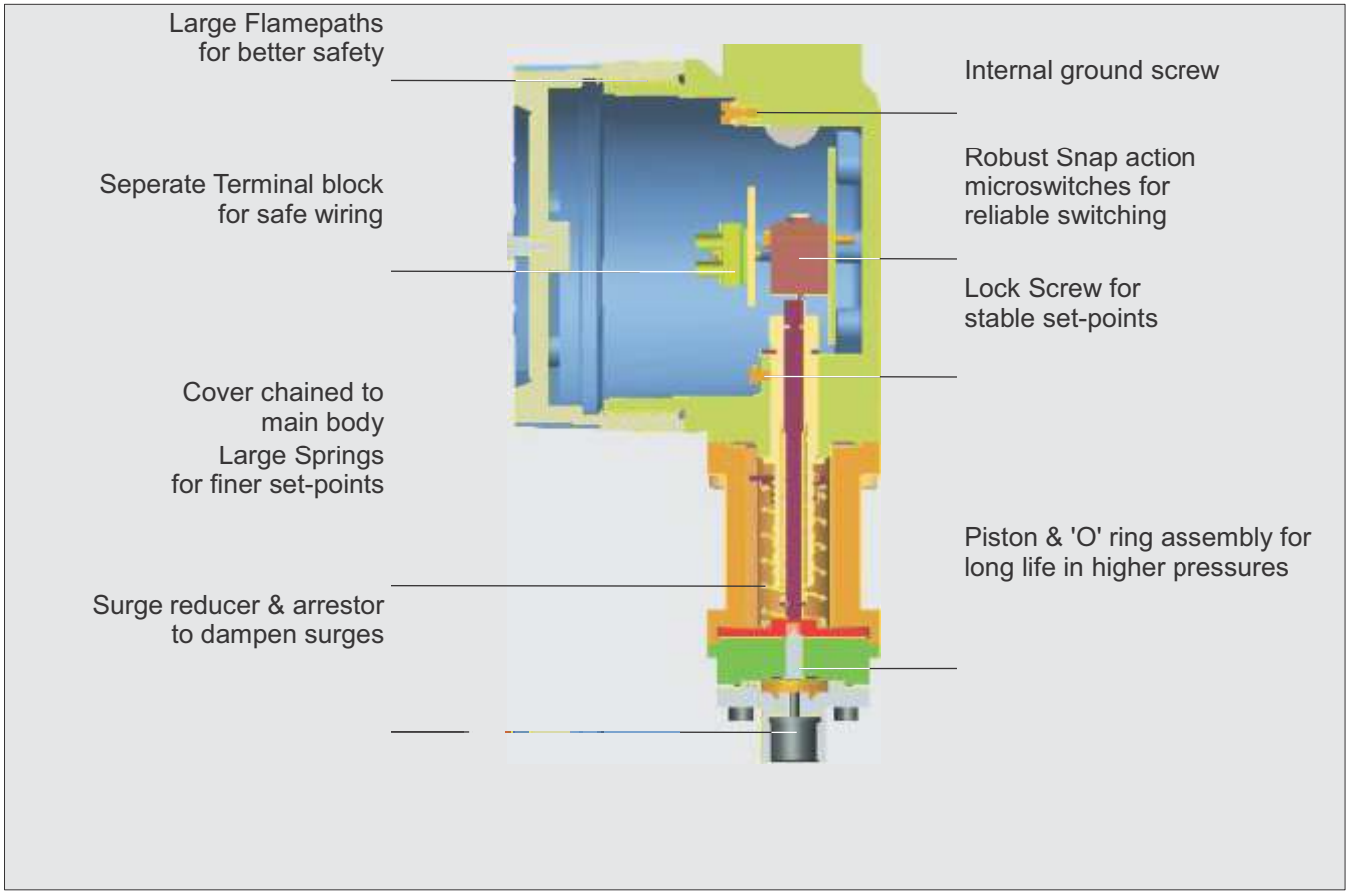
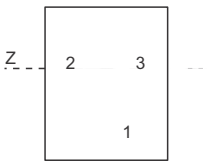
FC HYDRAULIC RANGES



Approximate Weight :

Pressure switches with Aluminium enclosure : 1.95 Kg.
Pressure switches with Grey CI enclosure : 4.35 Kg.
Pressure switches with SS enclosure : 4.45 Kg.

Electrical Connection :

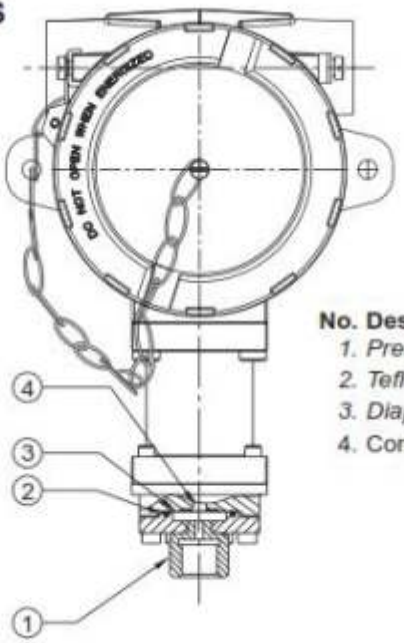


Some Applications :

For high pressure cylinder testing jigs, CNG/LPG gas skids, high pressure compressors, etc.

FC HYDRAULIC RANGES

PRESSURE CAPSULE DETAILS

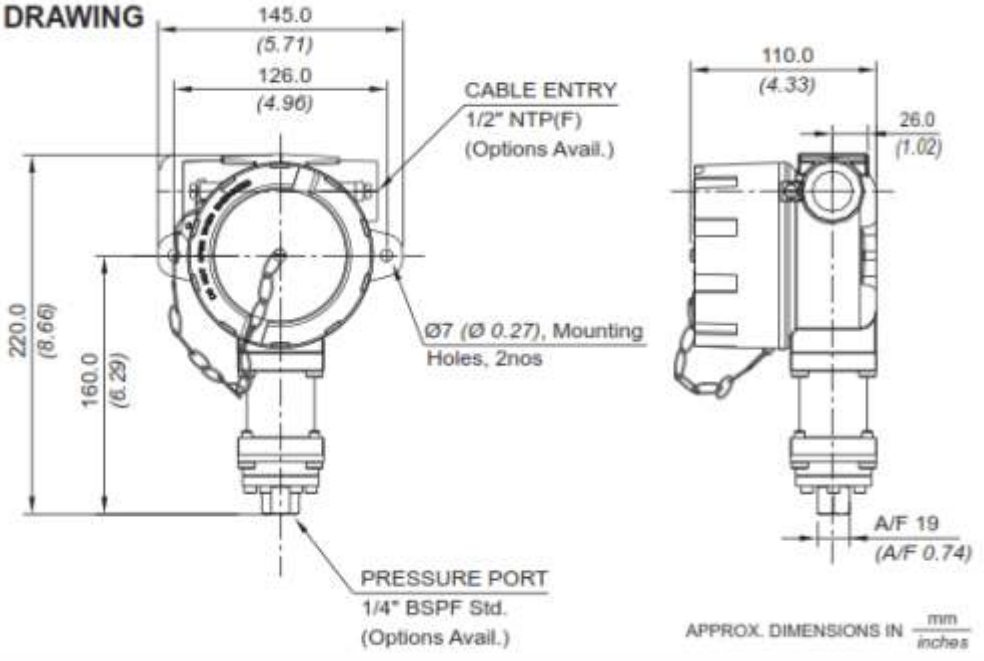


No. Description

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

Note : *wetted parts* are mentioned in italics.

INSTALLATION DRAWING



APPROX. DIMENSIONS IN mm / *inches*

FC HYDRAULIC RANGES

RANGE SELECTION TABLE

Range Code	Range bar *(psi)*	Differential* bar *(psi)*	Maximum Working Pressure bar *(psi)*
		Approximate Maximum for "A1" microswitch	
H1T	0.5 - 10 *(7.25 - 145.04)*	0.5 *(7.25)*	150 *(2175.00)*
H2T	2 - 20 *(29.00 - 290.08)*	2 *(29.00)*	200 *(2900.76)*
H4T	5 - 40 *(72.52 - 580.15)*	5 *(72.52)*	200 *(2900.76)*
H1H	10 - 100 *(145.04 - 1450.38)*	12 *(174.045)*	200 *(2900.76)*
H2H	7 - 200 *(101.53 - 2900.76)*	24 *(348.09)*	400 *(5801.52)*
H4H	40 - 400 *(580.15 - 5801.52)*	70 *(1015.27)*	500 *(7251.90)*

* Minimum differential increases with setpoint (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 HYDRAULIC RANGE 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	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	**H1T** = (0.5 - 10) **H2T** = (2 - 20) **H4T** = (5 - 40) **H1H** = (10 - 100) **H2H** = (7 - 200) **H4H** = (40 - 400)	**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 ***A8** = General purpose microswitch rated at 5 A; 250 VAC ***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	**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 **3** = Hastelloy C **4** = Monel **5** = Titanium **6** = Tantalum **7** = Inconel

eg. A flameproof switch for gas group IIC, with ½" NPT cable entry in aluminium housing as 1SPDT pressure switch, having 5 bar to 40 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	H4T	A1	S1	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.

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