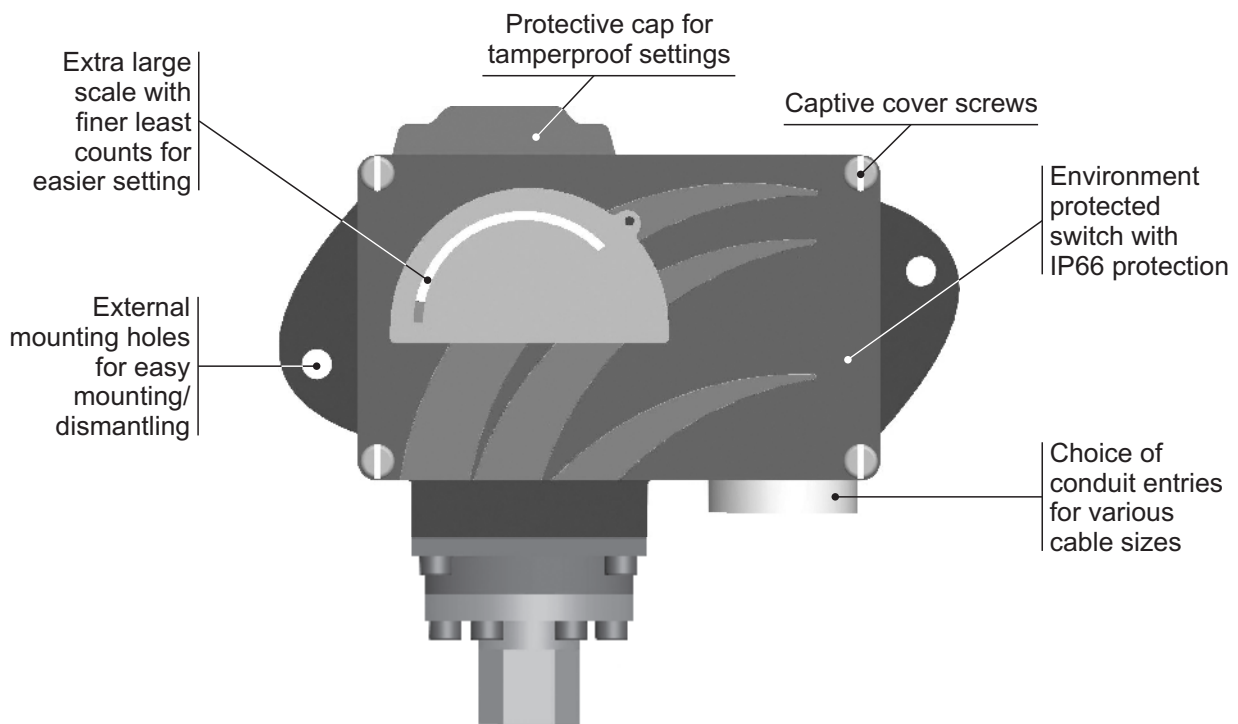
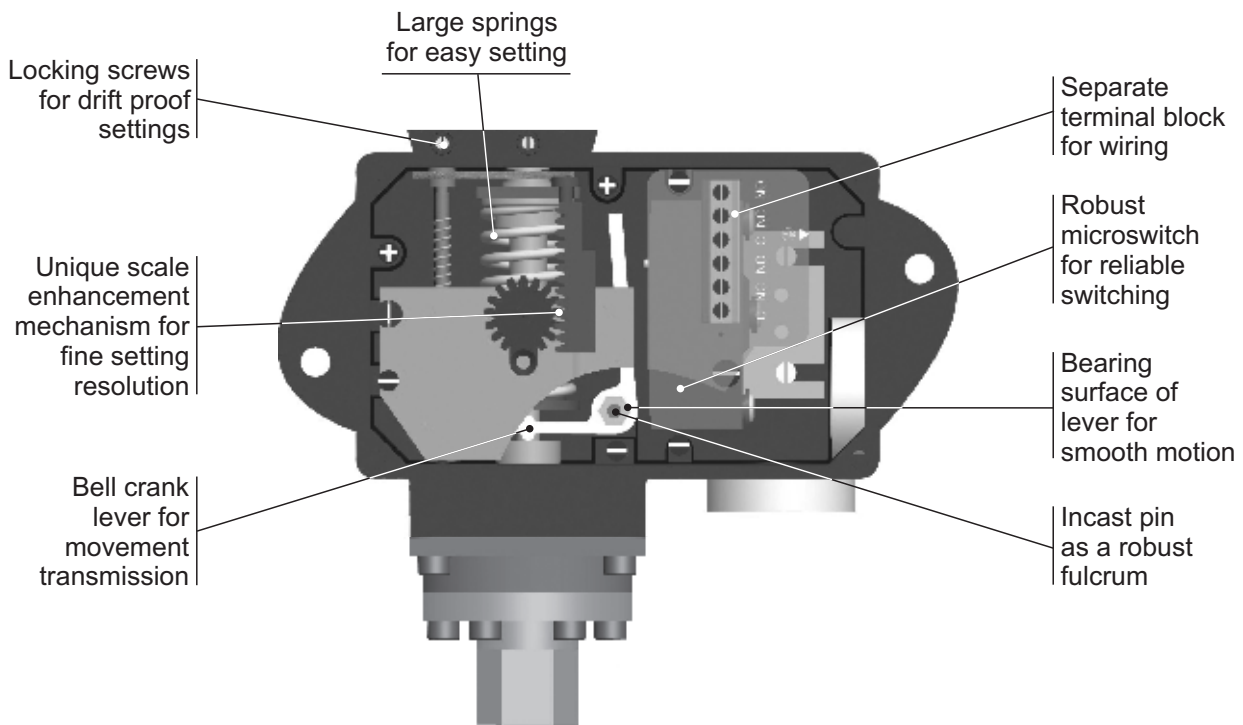


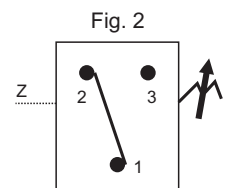
# MD HYDRAULIC DIAPHRAGM SWITCH



**Approximate Weight :** 1.2 Kg.

**Some Applications :** Used for high pressure compressor systems, mainly used for gaseous media.

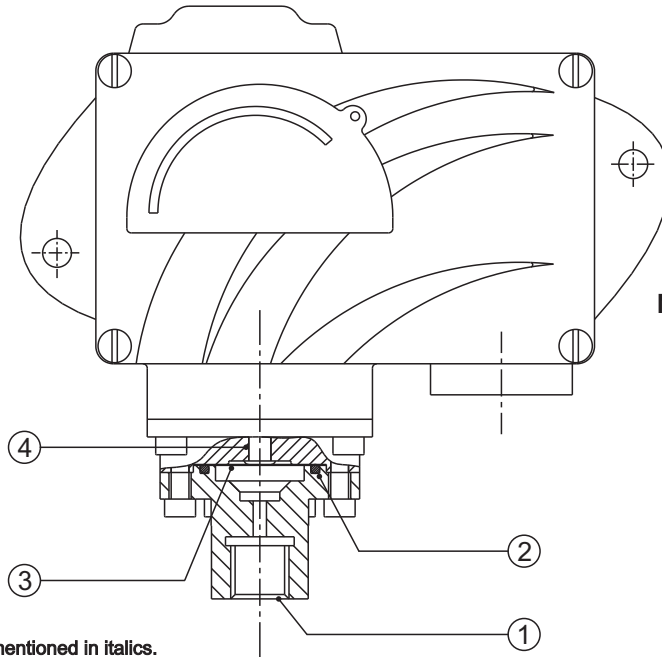
**Electrical Connection :**



# HYDRAULIC DIAPHRAGM SWITCH MD



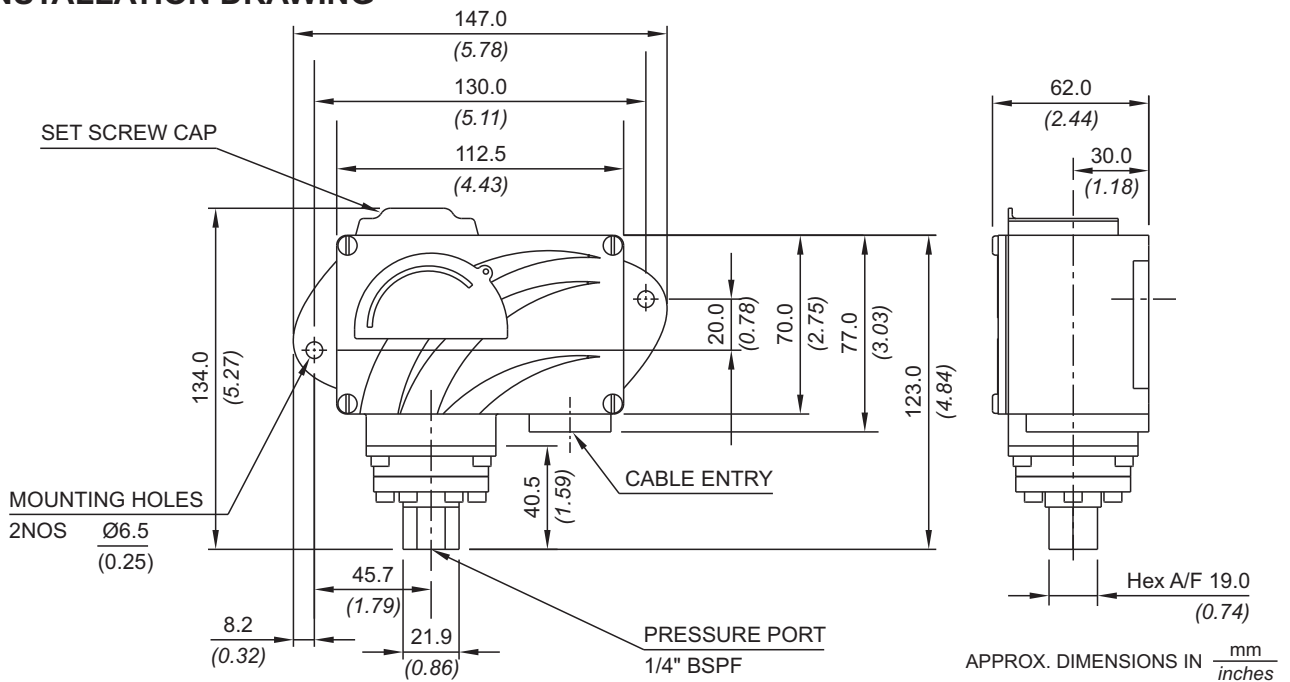
## PRESSURE CAPSULE DETAILS



- No. Description**
1. Pressure Housing
  2. Teflon® O-Ring
  3. Diaphragm
  4. Plunger

Note : *wetted parts* are mentioned in italics.

## INSTALLATION DRAWING



# MD HYDRAULIC DIAPHRAGM SWITCH

## 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 (2175.57)
H2T	2 - 20 (29.00 - 290.07)	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 (174.05)	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 (7251.9)

\* 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 INDUSTRIAL HYDRAULIC DIAPHRAGM RANGE PRESSURE SWITCHES

# HYDRAULIC DIAPHRAGM SWITCH

# MD

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
<input type="checkbox"/> Reserved for non-standard options not covered in catalogue. Will be given by manufacturer, only after agreement of supply details with customer.	<b>MD</b> = Industrial pressure switch with diecast Aluminium enclosure to IP66 as per IS2147	<b>1</b> = 1/2" NPT threads <b>2</b> = 3/4" NPT threads <b>3</b> = M20 X 1.5 threads	<b>PF1</b> = pressure switch, fixed differential without scale <b>PF2</b> = pressure switch, fixed differential with scale in bar <b>PF3</b> = pressure switch, fixed differential with scale in psi <b>*PA1</b> = pressure switch, adjustable differential without scale <b>*PA2</b> = pressure switch, adjustable differential with scale in bar <b>*PA3</b> = pressure switch, adjustable differential with scale in psi *Available with A9 (in group 6) only	<b>H1T</b> = (0.5 - 10) <b>H2T</b> = (2 - 20) <b>H4T</b> = (5 - 40) <b>H1H</b> = (10 - 100) <b>H2H</b> = (7 - 200) <b>H4H</b> = (40 - 400)	<b>A1</b> = General purpose microswitch rated at 15 A; 250 VAC <b>*A2</b> = Hermetically sealed for corrosive environments <b>*A3</b> = gold plated contacts for low voltage applications <b>*A4</b> = DPDT configuration <b>*A5</b> = for high DC ratings <b>*A7</b> = 2SPDT switching elements <b>*A9</b> = 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	<b>S1</b> = SS316 / 1/4" BSP(F) <b>S2</b> = SS316 / 1/4" NPT(F)	<b>2</b> = SS316L

eg. A hydraulic diaphragm pressure switch, with 1/2" NPT cable entry in aluminium housing as 1SPDT pressure switch, fixed differential without scale, having 5 bar to 40 bar pressure range, with 15Amp. microswitch, SS316 pressure housing with 1/4" BSP port size shall be specified by

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
<input type="checkbox"/>	MD	1	PF1	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.