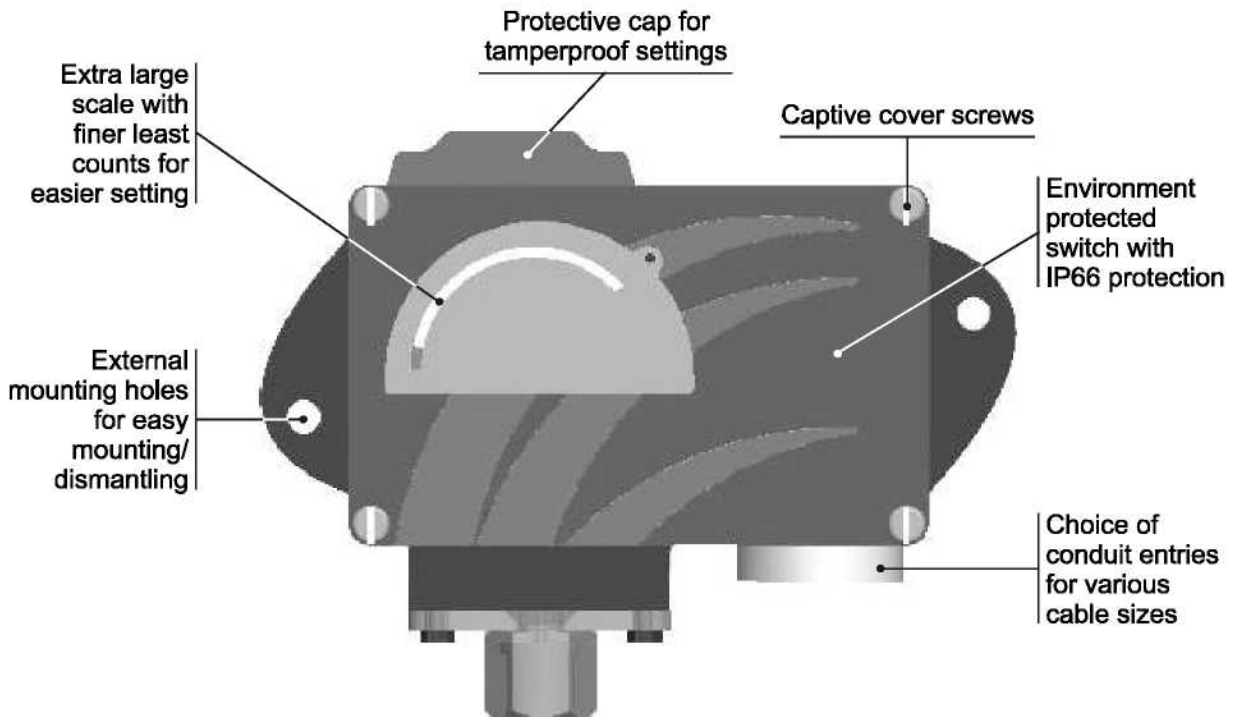
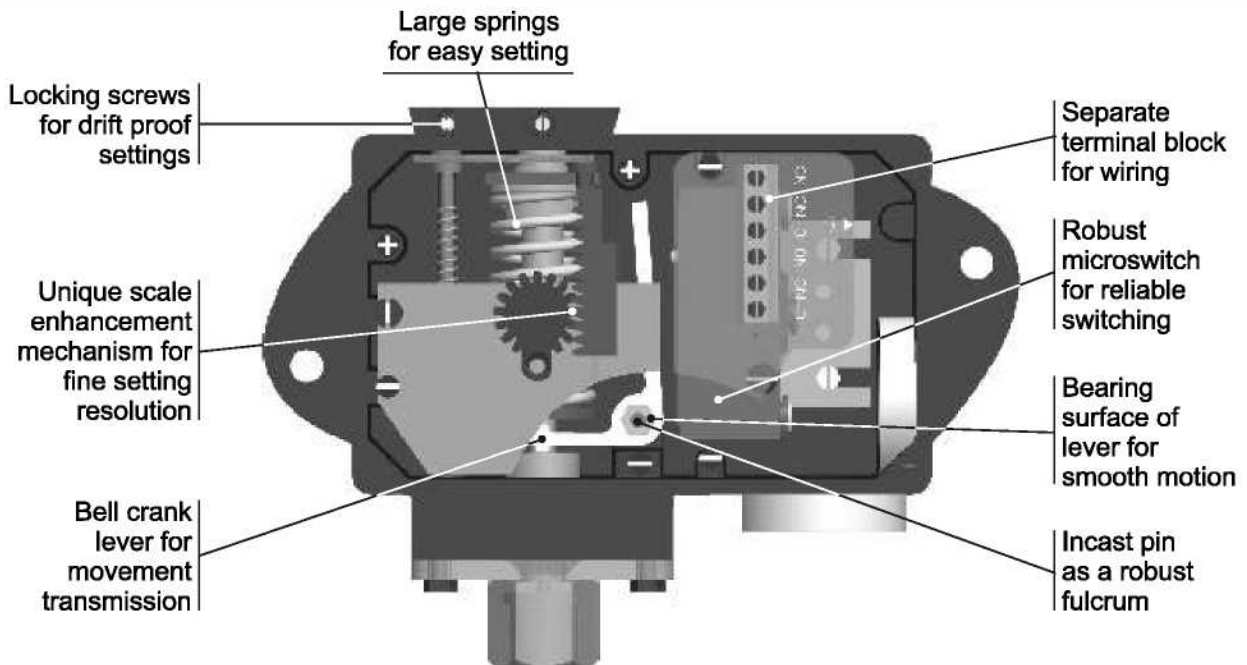
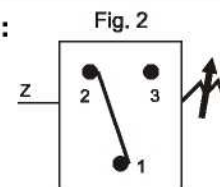


# MD HIGH RANGE PRESSURE SWITCHES



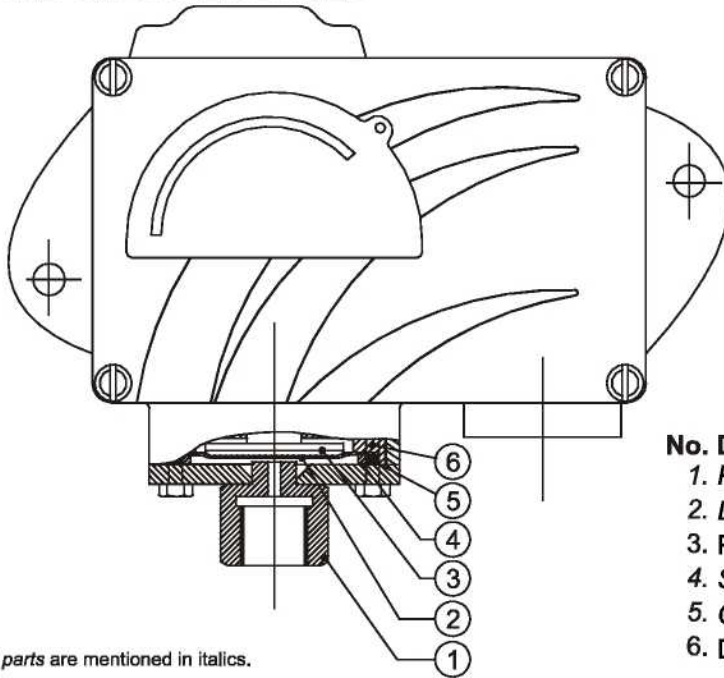
Approximate Weight : 0.700 Kg.

Electrical Connection :





## PRESSURE CAPSULE DETAILS

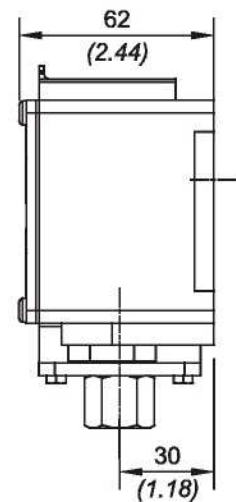
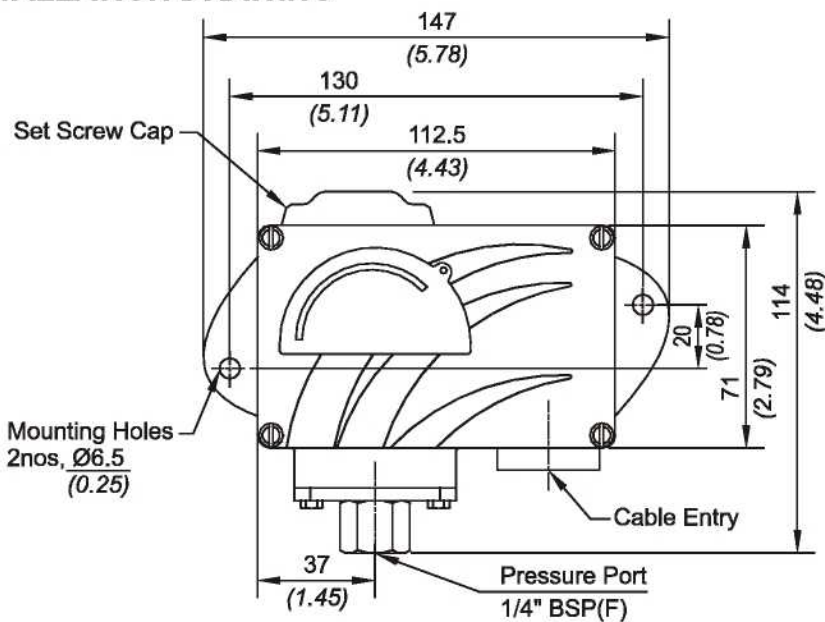


### No. Description

1. Pressure Housing (SS316)
2. Diaphragm (Teflon®)
3. Plunger
4. Steel Ring (SS316)
5. O-Ring (Teflon®)
6. Disc

Note : *wetted parts* are mentioned in italics.

## INSTALLATION DRAWING



APPROX. DIMENSIONS IN  $\frac{\text{mm}}{\text{inches}}$

# MD HIGH RANGE PRESSURE SWITCHES

## RANGE SELECTION TABLE

Range Code	Range bar (psi)	†Differential bar (psi)	Maximum Working Pressure bar (psi)
		Approximate Maximum for "A1" microswitch	
LP	0.067 - 0.213 (0.97 - 3.09)	0.02 (0.29)	5 (71.43)
LP5	0.1 - 0.5 (1.45 - 7.25)	0.08 (1.16)	5 (71.43)
H01	0.1 - 1.0 (1.45 - 14.50)	0.10 (1.43)	12 (171.43)
H02	0.1 - 1.5 (1.45 - 21.76)	0.12 (1.74)	12 (171.43)
H03	0.2 - 2.6 (2.90 - 37.71)	0.17 (2.46)	12 (171.43)
H04	0.2 - 3.6 (2.90 - 52.21)	0.20 (2.90)	12 (171.43)
H07	0.5 - 7.0 (7.25 - 101.50)	0.40 (5.72)	12 (171.43)
H10	0.5 - 10.0 (7.14 - 142.86)	0.40 (5.72)	25 (357.14)
H15	1.0 - 15.0 (14.29 - 214.29)	0.80 (11.43)	25 (357.14)
H30	5.0 - 25.0 (71.43 - 357.14)	0.80 (11.43)	35 (500.00)

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

**\* Note :**

Microswitches A2 through A7 can be supplied in some ranges and differentials will vary with microswitch used. Please contact sales office for details. Please check availability of adjustable differential with sales office.

## HOW TO ORDER INDUSTRIAL HIGH RANGE PRESSURE SWITCHES

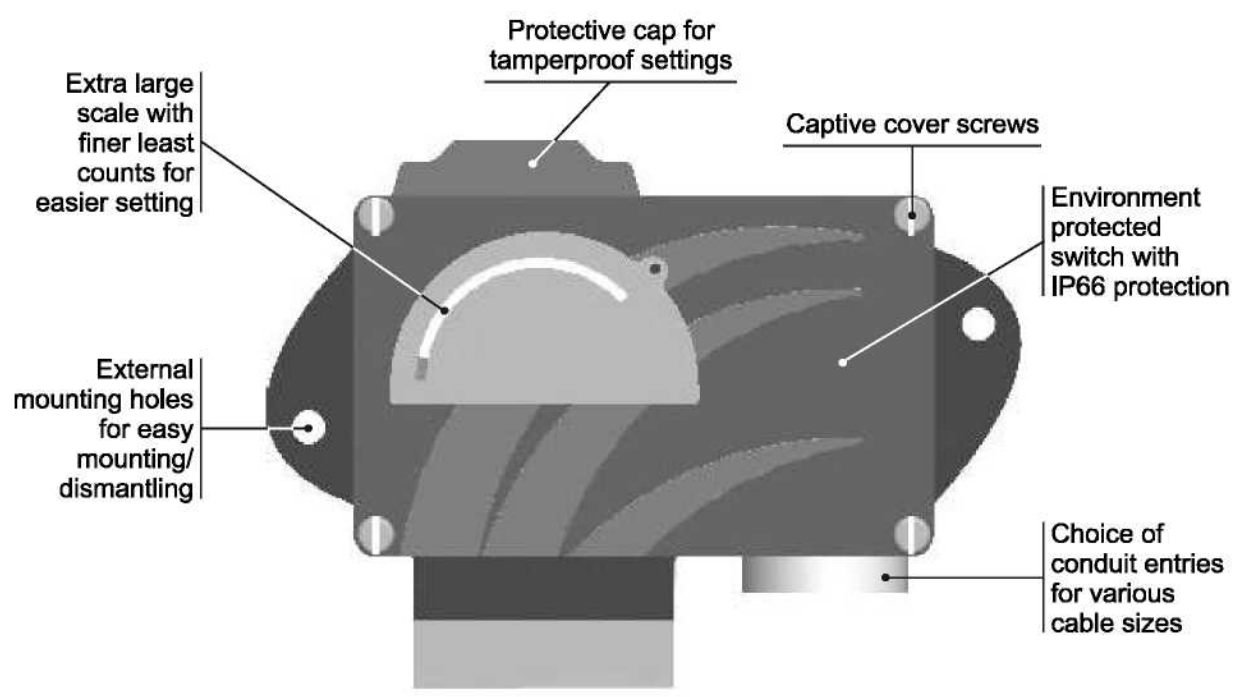
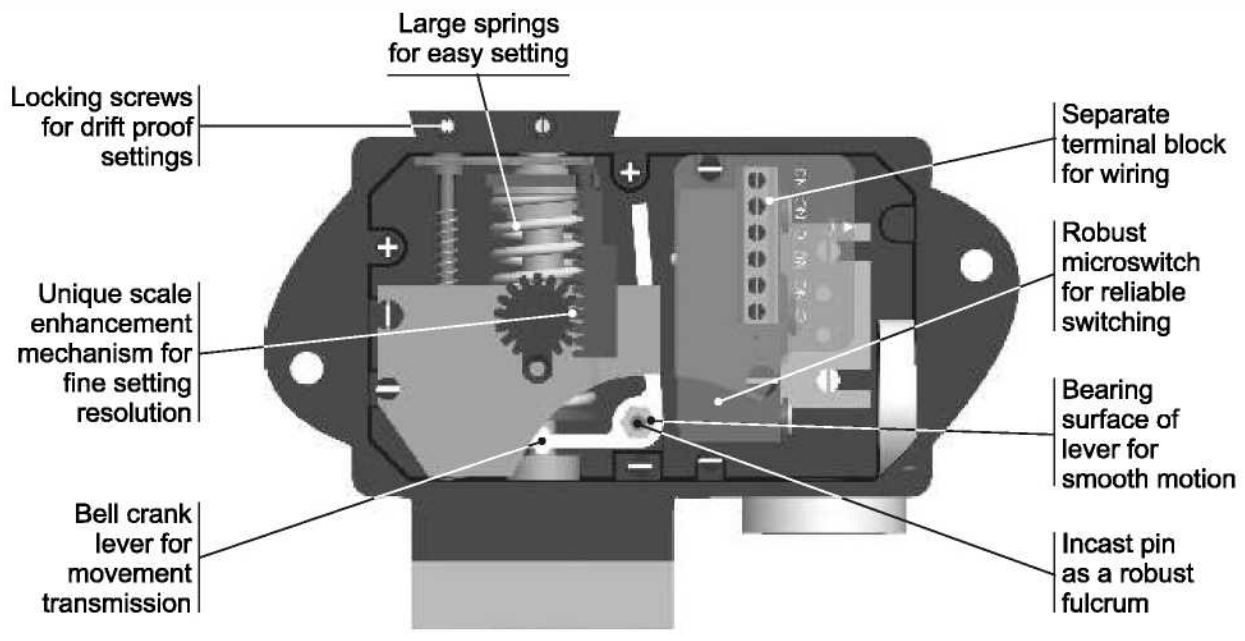
Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
Non standard allocation  <input type="checkbox"/> Reserved for non-standard options not covered in catalogue. Will be given by manufacturer, only after agreement of supply details with customer.	<b>MD</b> = Industrial pressure switch with diecast Aluminium enclosure to IP66 as per IS2147	<b>1</b> = 1/2" NPT threads for aluminium housing <b>2</b> = 3/4" NPT threads for aluminium housing <b>3</b> = M20 X 1.5 threads for aluminium housing	<b>PF1</b> = pressure switch, fixed differential without scale <b>PF2</b> = pressure switch, fixed differential with scale <b>PA1</b> = pressure switch, adjustable differential without scale <b>PA2</b> = pressure switch, adjustable differential with scale	<b>LP</b> = (0.067 - 0.213) <b>LP5</b> = (0.1 - 0.5) <b>H01</b> = (0.1 - 1.0) <b>H02</b> = (0.1 - 1.5) <b>H03</b> = (0.2 - 2.6) <b>H04</b> = (0.2 - 3.6) <b>H07</b> = (0.5 - 7.0) <b>H10</b> = (0.5 - 10.0) <b>H15</b> = (1.0 - 15.0) <b>H30</b> = (5.0 - 25.0)	<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>A6</b> = elements with adjustable deadband <b>A7</b> = 2SPDT switching elements * Please refer note under Range Selection Table	<b>S1</b> = SS316 pr. Housing with 1/4" BSPF pressure port <b>S2</b> = SS316 pressure housing with 1/4" NPT(F) pressure port.	<b>0</b> = Neoprene <b>1</b> = Teflon <b>2</b> = SS 316L

eg. A high range weatherproof switch with 1/2" NPT cable entry in aluminium housing as 1SPDT pressure switch, fixed differential without scale, having 0.1 bar to 1 bar pressure range, with 15Amp. microswitch, SS316 pressure housing with 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
□	MD	1	PF1	H01	A1	S1	0

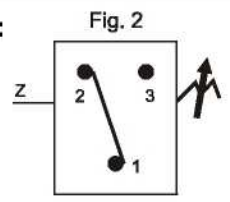
Please specify full model number to avoid ambiguity.

# MD HIGH PROOF HIGH RANGE PRESSURE SWITCHES



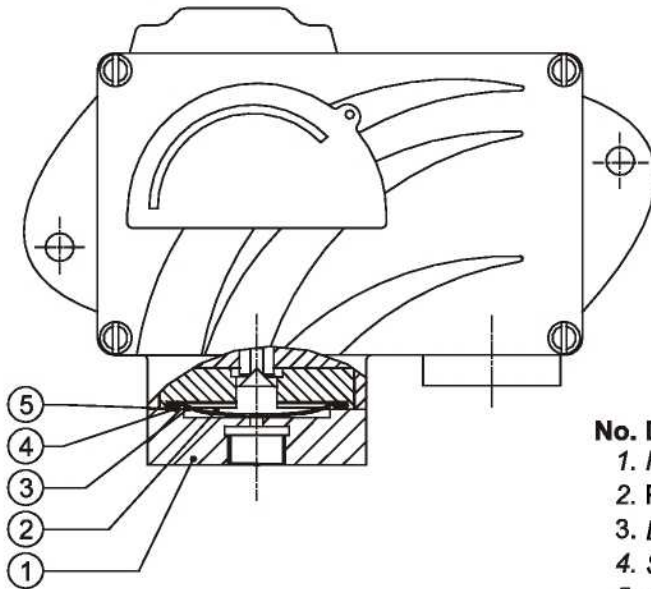
**Approximate Weight : 1.200 Kg.**

**Electrical Connection :**





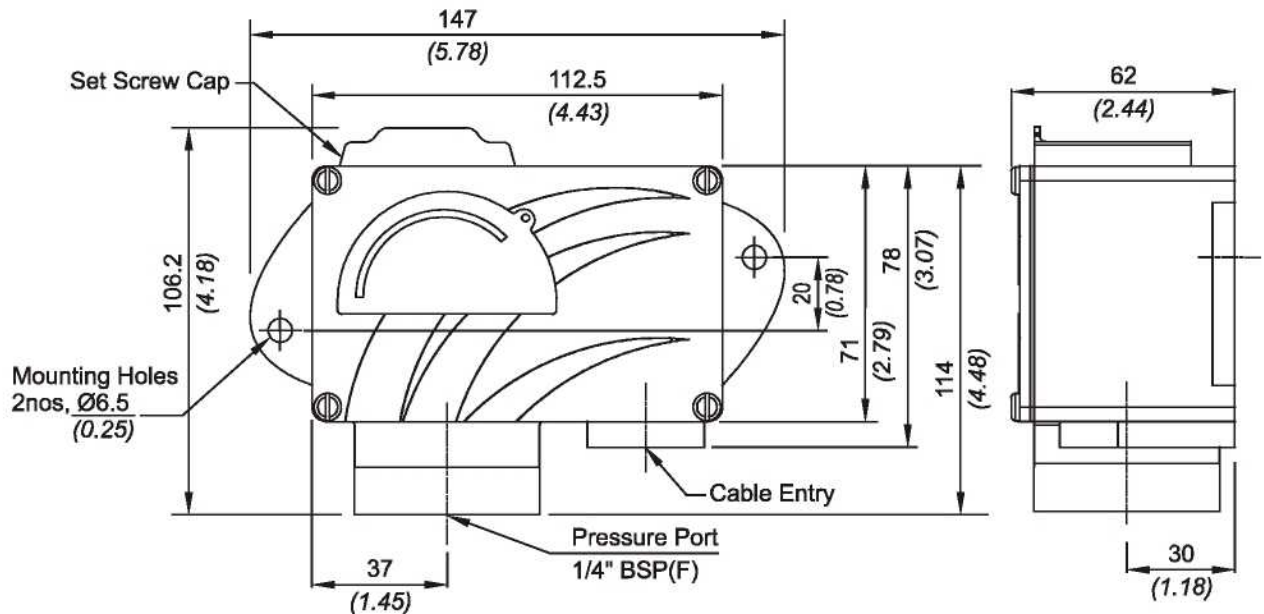
## PRESSURE CAPSULE DETAILS



- No. Description**
1. Pressure Housing
  2. Plunger
  3. Diaphragm (Teflon®)
  4. Steel Ring (SS316)
  5. O-Ring (Teflon®)

Note : *wetted parts* are mentioned in italics.

## INSTALLATION DRAWING



APPROX. DIMENSIONS IN  $\frac{\text{mm}}{\text{inches}}$

# MD HIGH PROOF HIGH RANGE PRESSURE SWITCHES

## RANGE SELECTION TABLE

Range Code	Range bar (psi)	Differential* bar (psi)	Maximum Working Pressure bar (psi)
		Approximate Maximum for "A1" microswitch	
PP	0.067 - 0.213 (0.97 - 3.09)	0.04 (0.58)	70 (1000.00)
PP5	0.1 - 0.5 (1.45 - 7.25)	0.16 (2.32)	70 (1000.00)
P01	0.1 - 1.0 (1.45 - 14.50)	0.20 (2.86)	70 (1000.00)
P02	0.1 - 1.5 (1.45 - 21.76)	0.24 (3.48)	70 (1000.00)
P03	0.2 - 2.6 (2.90 - 37.71)	0.34 (4.92)	70 (1000.00)
P04	0.2 - 3.6 (2.90 - 52.21)	0.40 (5.80)	70 (1000.00)
P07	0.5 - 7.0 (7.25 - 101.50)	0.80 (11.44)	70 (1000.00)
P10	0.5 - 10.0 (7.14 - 142.86)	0.80 (11.44)	70 (1000.00)
P15	1.0 - 15.0 (14.29 - 214.29)	1.60 (22.86)	70 (1000.00)
P30	5.0 - 25.0 (71.43 - 357.14)	1.60 (22.86)	70 (1000.00)

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

**\* Note :**

Microswitches A2 through A7 can be supplied in some ranges and differentials will vary with microswitch used. Please contact sales office for details. Please check availability of adjustable differential with sales office.

## HOW TO ORDER INDUSTRIAL 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 and Material of Enclosure	Switch Type	Range Code (values in bar)	Microswitch Type	Pressure Port 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 for aluminium housing <b>2</b> = 3/4" NPT threads for aluminium housing <b>3</b> = M20 X 1.5 threads for aluminium housing	<b>PF1</b> = pressure switch, fixed differential without scale <b>PF2</b> = pressure switch, fixed differential with scale <b>PA1</b> = pressure switch, adjustable differential without scale <b>PA2</b> = pressure switch, adjustable differential with scale	<b>PP</b> = (0.067 - 0.213) <b>PP5</b> = (0.1 - 0.5) <b>P01</b> = (0.1 - 1.0) <b>P02</b> = (0.1 - 1.5) <b>P03</b> = (0.2 - 2.6) <b>P04</b> = (0.2 - 3.6) <b>P07</b> = (0.5 - 7.0) <b>P10</b> = (0.5 - 10.0) <b>P15</b> = (1.0 - 15.0) <b>P30</b> = (5.0 - 25.0)	<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>A6</b> = elements with adjustable deadband <b>A7</b> = 2SPDT switching elements * Please refer note under Range Selection Table	<b>S1</b> = SS316 pr. Housing with 1/4" BSPF pressure port <b>S2</b> = SS316 pressure housing with 1/4" NPT(F) pressure port.	<b>0</b> = Neoprene <b>1</b> = Teflon <b>2</b> = SS 316L

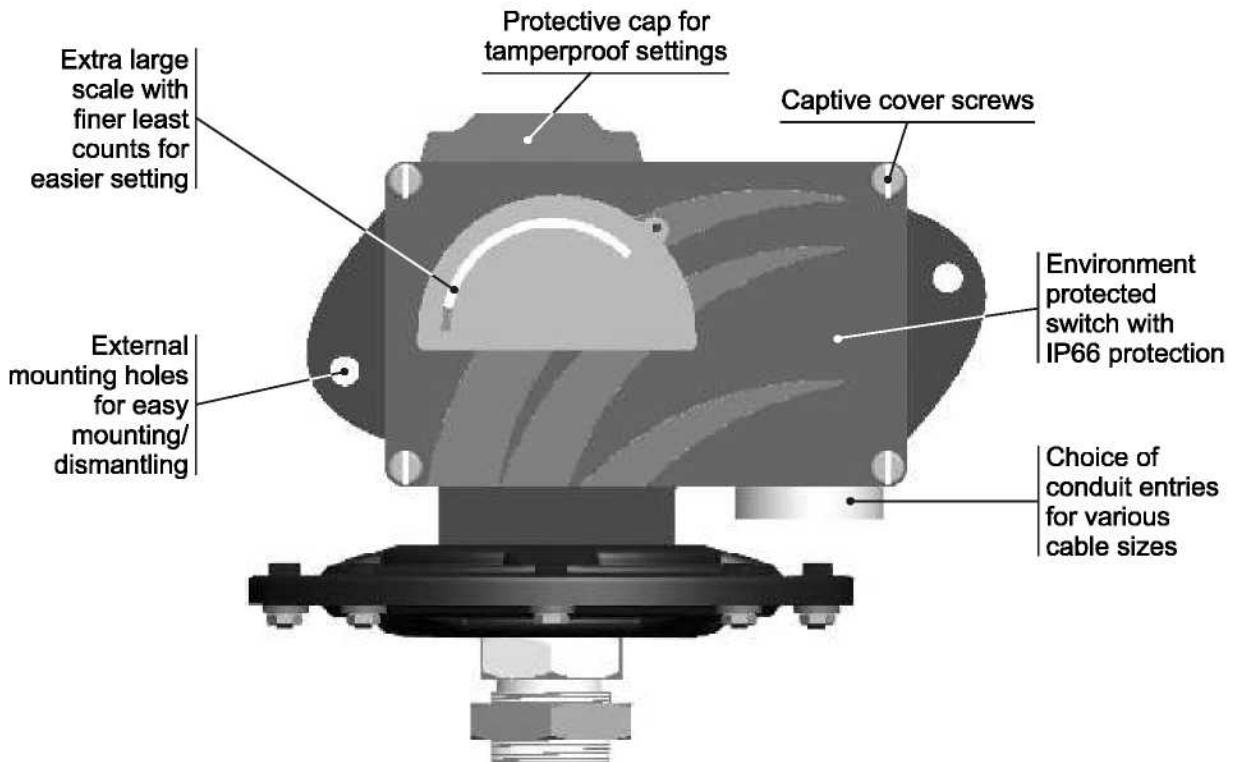
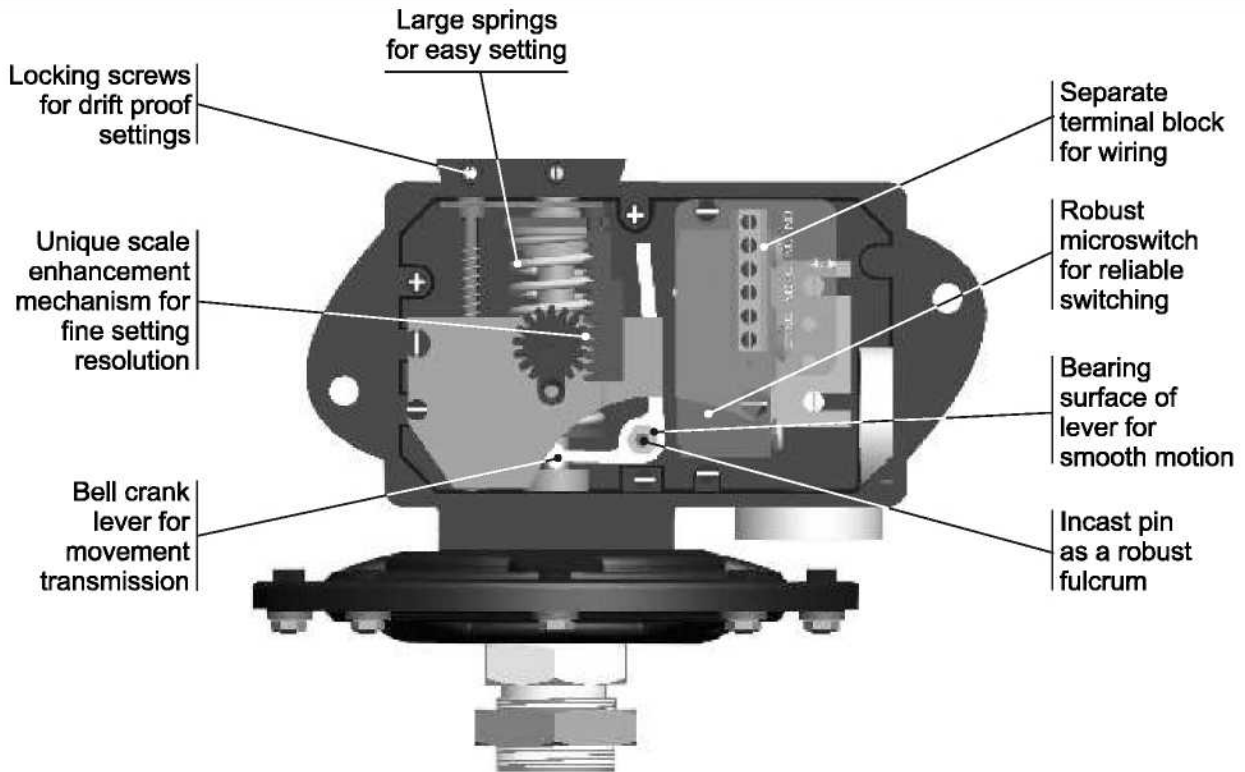
eg. A high proof high range weatherproof switch with 1/2" NPT cable entry in aluminium housing as 1SPDT pressure switch, fixed differential without scale, having 0.1 bar to 1 bar pressure range, with 15Amp. microswitch, SS316 pressure housing with 1/4" BSP port size & neoprene diaphragm shall be specified by

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
□	MD	1	PF1	P01	A1	S1	0

Please specify full model number to avoid ambiguity.

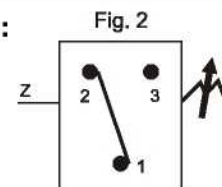


# MD LOW RANGE PRESSURE SWITCHES



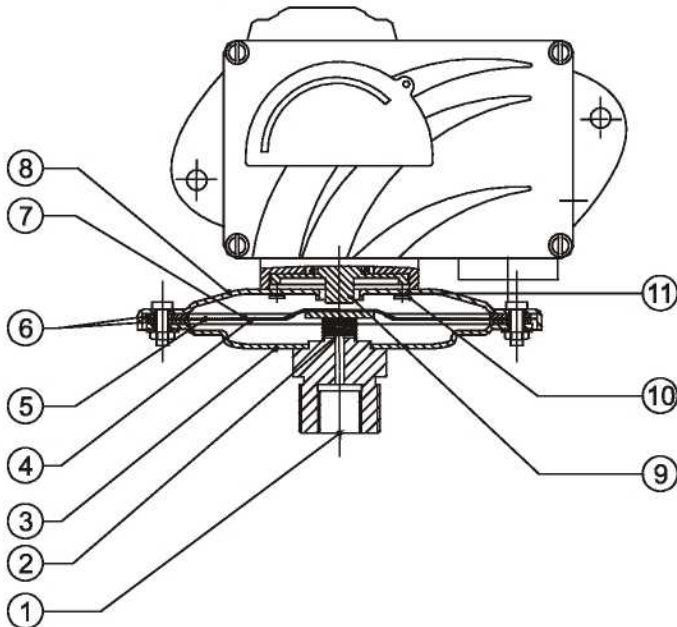
Approximate Weight : 1.500 Kg.

Electrical Connection :





## PRESSURE CAPSULE DETAILS



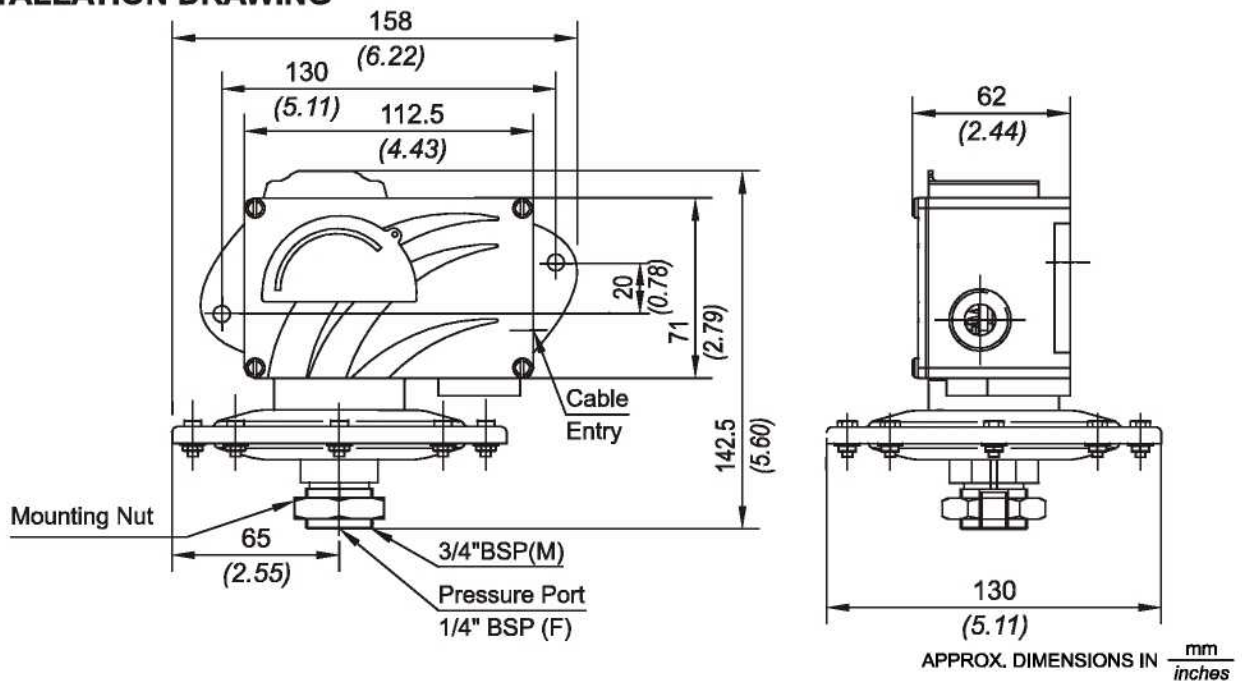
### No. Description

1. *Pressure port (M.S.)\**
2. *Support spring (S.S.)*
3. *Bottom flange (M.S.)*
4. *Support plate (Aluminium)*
5. *Diaphragm (Neoprene)*
6. *Gasket (Nitrile)*
7. *Top plate (Aluminium)*
8. *Top flange (M.S.)*
9. *Plunger*
10. *Top flange screw (M.S.)*
11. *Sealing 'O' ring (Nitrile)*

\*Pressure port is brazed with flange

Note : *wetted parts* are mentioned in italics.

## INSTALLATION DRAWING



# MD LOW RANGE PRESSURE SWITCHES

## RANGE SELECTION TABLE

Range Code	Range mbar ("wc)	Differential* mbar ("wc)	Maximum Working Pressure bar (psi)
		Approximate Maximum for "A1" microswitch	
L02	1.5 - 15.0 (0.590 - 5.905)	3 (1.181)	2 (28.57)
L03	5.0 - 25.0 (1.969 - 9.843)	5 (1.969)	2 (28.57)
L05	10.0 - 50.0 (3.937 - 19.685)	5 (1.969)	2 (28.57)
L10	10.0 - 100.0 (3.937 - 39.370)	10 (3.937)	2 (28.57)
L15	10.0 - 150.0 (3.937 - 59.055)	10 (3.937)	2 (28.57)
L25	20.0 - 250.0 (7.874 - 98.425)	10 (3.937)	2 (28.57)

\*Minimum differential increases with setpoint (Graphs available on request)

**\* Note :**

Microswitches A2 through A7 can be supplied in some ranges and differentials will vary with microswitch used. Please contact sales office for details. Please check availability of adjustable differential with sales office.

## HOW TO ORDER INDUSTRIAL LOW RANGE PRESSURE SWITCHES

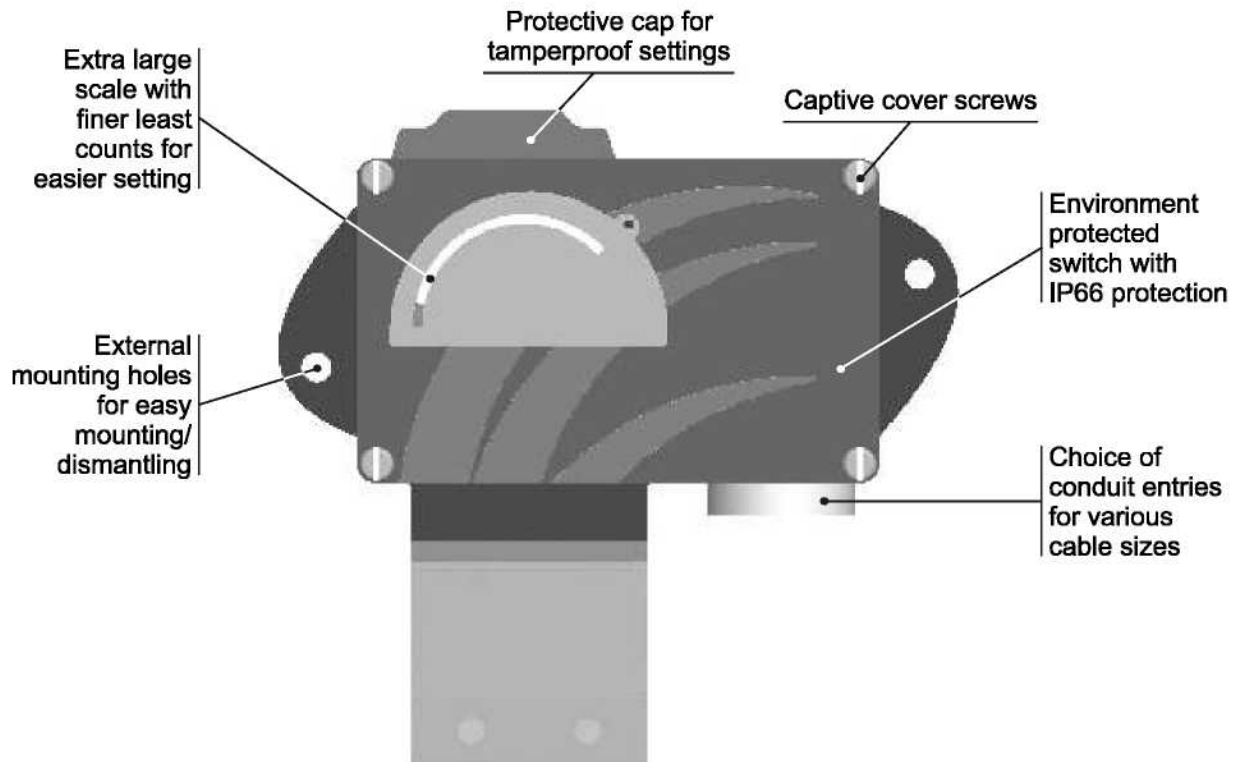
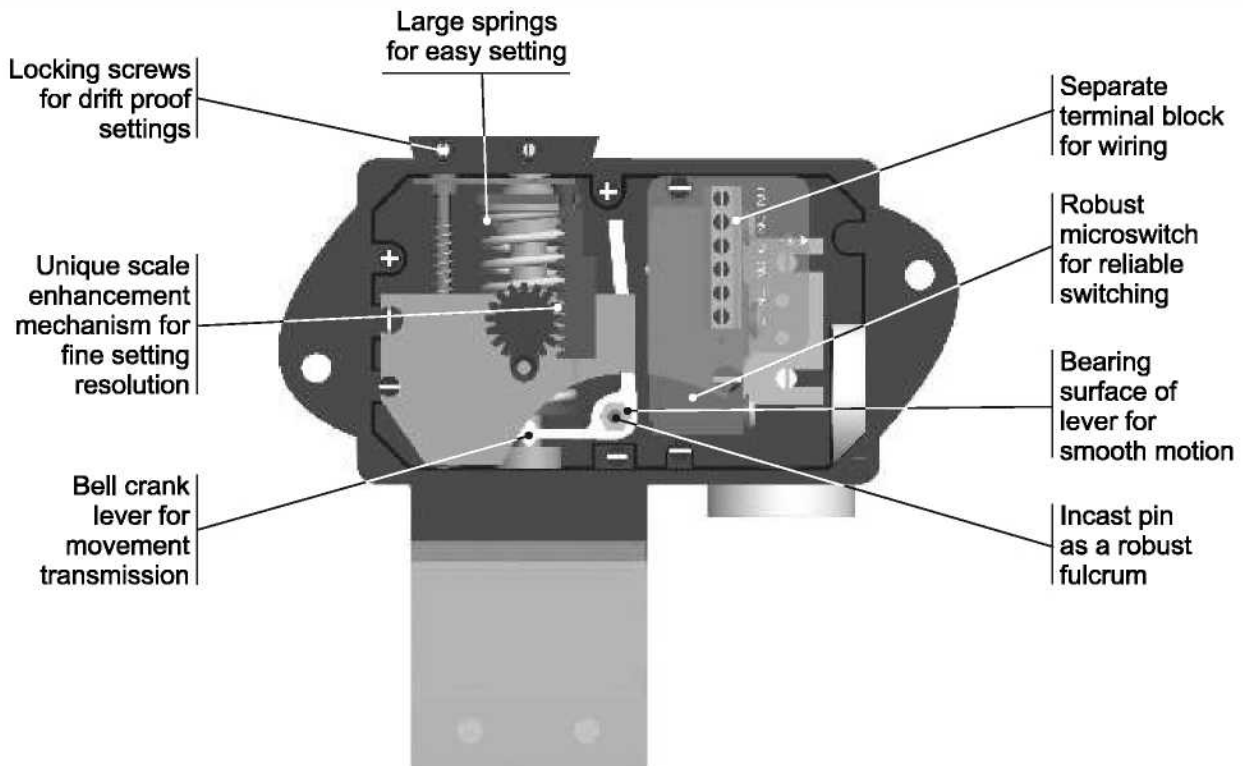
Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
Non standard allocation	Model	Cable Entry Size and Material of Enclosure	Switch Type	Range Code (values in bar)	Microswitch Type	Pressure Port Size	Diaphragm
<input type="checkbox"/> Reserved for non-standard options not covered in catalogue. 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 for aluminium housing <b>2</b> = 3/4" NPT threads for aluminium housing <b>3</b> = M20 X 1.5 threads for aluminium housing	<b>PF1</b> = pressure switch, fixed differential without scale <b>PF2</b> = pressure switch, fixed differential with scale <b>PA1</b> = pressure switch, adjustable differential without scale <b>PA2</b> = pressure switch, adjustable differential with scale	<b>L02</b> = (1.5 - 15) <b>L03</b> = (5 - 25) <b>L05</b> = (10 - 50) <b>L10</b> = (10 - 100) <b>L15</b> = (10 - 150) <b>L25</b> = (20 - 250)	<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>*A6</b> = elements with adjustable deadband <b>*A7</b> = 2SPDT switching elements * Please refer note under Range Selection Table	<b>M1</b> = M.S. powder coated pressure housing with 1/4" BSPF pressure port <b>M2</b> = M.S. powder coated pressure housing with 1/4" NPT(F) pressure port. <b>S1</b> = SS316 pr. Housing with 1/4" BSPF pressure port <b>S2</b> = SS316 pressure housing with 1/4" NPT(F) pressure port.	<b>0</b> = Neoprene <b>1</b> = Teflon

eg. A low range weatherproof switch, with 1/2" NPT cable entry in aluminium housing as 1SPDT pressure switch, fixed differential without scale, having 5 mbar to 25 mbar pressure range, with 15 Amp. microswitch, SS316 pressure housing with 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
□	MD	1	PF1	L03	A1	S1	0

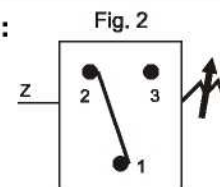
Please specify full model number to avoid ambiguity.

# MD HIGH RANGE PRESSURE DIFFERENCE SWITCHES



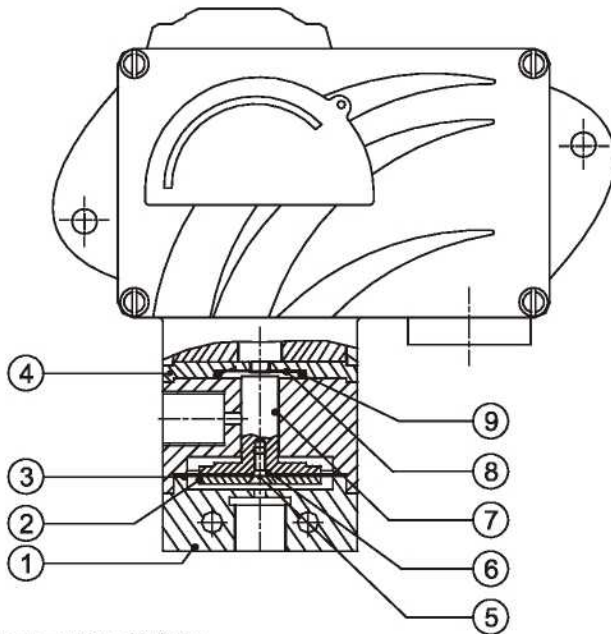
Approximate Weight : 1.500 Kg.

Electrical Connection :





## PRESSURE CAPSULE DETAILS

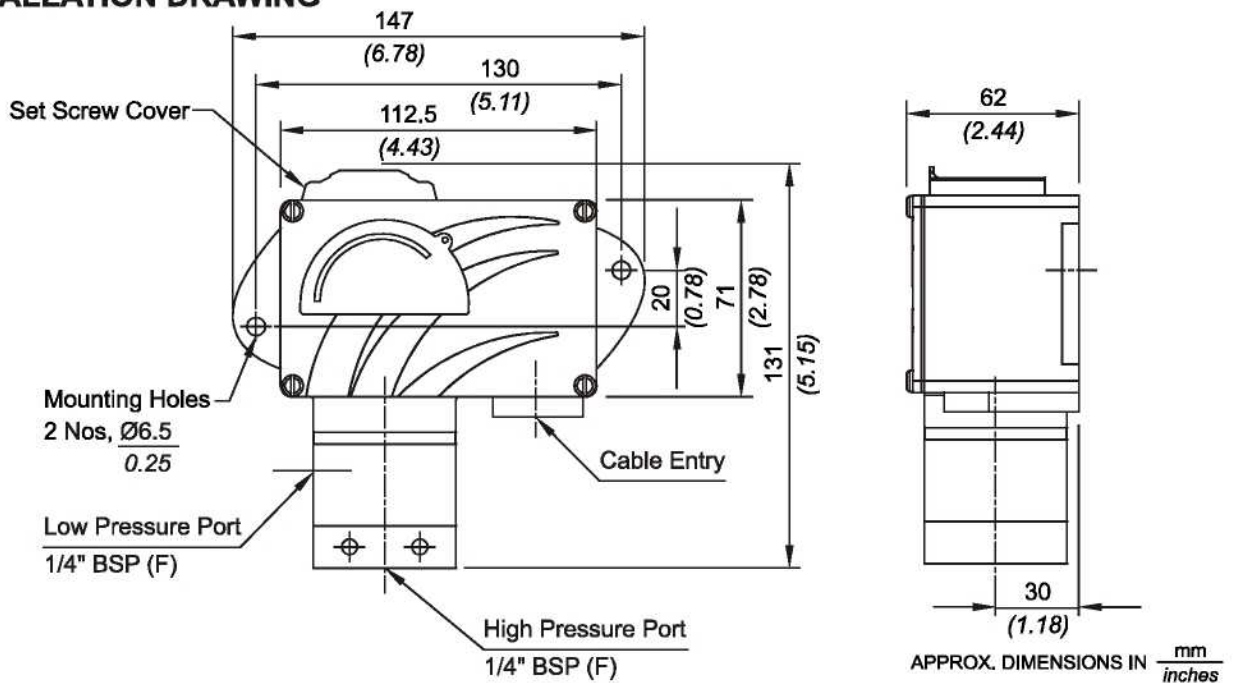


### No. Description

1. Pressure Housing
2. HP Plunger
3. Diaphragm
4. Disc
5. CSK Screw (SS)
6. O-Ring (Teflon®)
7. LP Plunger (SS316)
8. Sealing Diaphragm (Teflon®)
9. Sealing O-Ring (Teflon®)

Note : *wetted parts* are mentioned in italics.

## INSTALLATION DRAWING



# MD HIGH RANGE PRESSURE DIFFERENCE 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 (1.43 - 14.29)	0.12 (0.30)	12 (171.43)
H02	0.1 - 1.5 (1.43 - 21.43)	0.20 (1.14)	12 (171.43)
H03	0.2 - 2.6 (2.86 - 37.14)	0.20 (1.14)	12 (171.43)
H04	0.2 - 3.6 (2.86 - 51.43)	0.30 (1.43)	12 (171.43)

\*Minimum differential increases with setpoint (Graphs available on request)

**\* Note :**

Microswitches A2 through A7 can be supplied in some ranges and differentials will vary with microswitch used. Please contact sales office for details. Please check availability of adjustable differential with sales office.

## HOW TO ORDER INDUSTRIAL HIGH 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 and Material of Enclosure	Switch Type	Range Code (values in bar)	Microswitch Type	Pressure Port 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 for aluminium housing <b>2</b> = 3/4" NPT threads for aluminium housing <b>3</b> = M20 X 1.5 threads for aluminium housing	<b>DF1</b> = pressure switch, fixed differential without scale <b>DF2</b> = pressure switch, fixed differential with scale <b>DA1</b> = pressure switch, adjustable differential without scale <b>DA2</b> = pressure switch, adjustable differential with scale	<b>H01</b> = (0.1 - 1.0) <b>H02</b> = (0.1 - 1.5) <b>H03</b> = (0.2 - 2.6) <b>H04</b> = (0.2 - 3.6)	<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>*A6</b> = elements with adjustable deadband <b>*A7</b> = 2SPDT switching elements <small>* Please refer note under Range Selection Table</small>	<b>A1</b> = Aluminium pressure housing with 1/4" BSPF pressure port <b>A2</b> = Aluminium pressure housing with 1/4" NPT(F) pressure port. <b>S1</b> = SS316 pr. Housing with 1/4" BSPF pressure port <b>S2</b> = SS316 pressure housing with 1/4" NPT(F) pressure port.	<b>0</b> = Neoprene <b>1</b> = Teflon

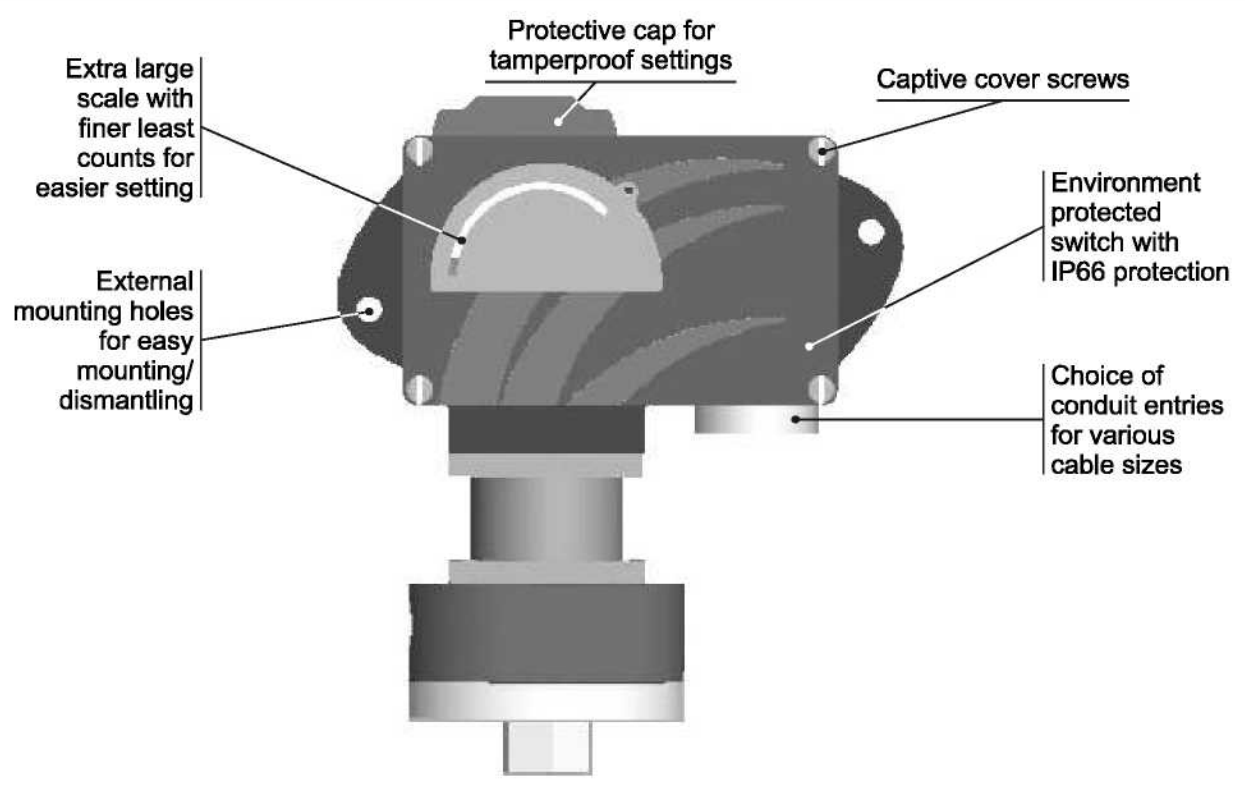
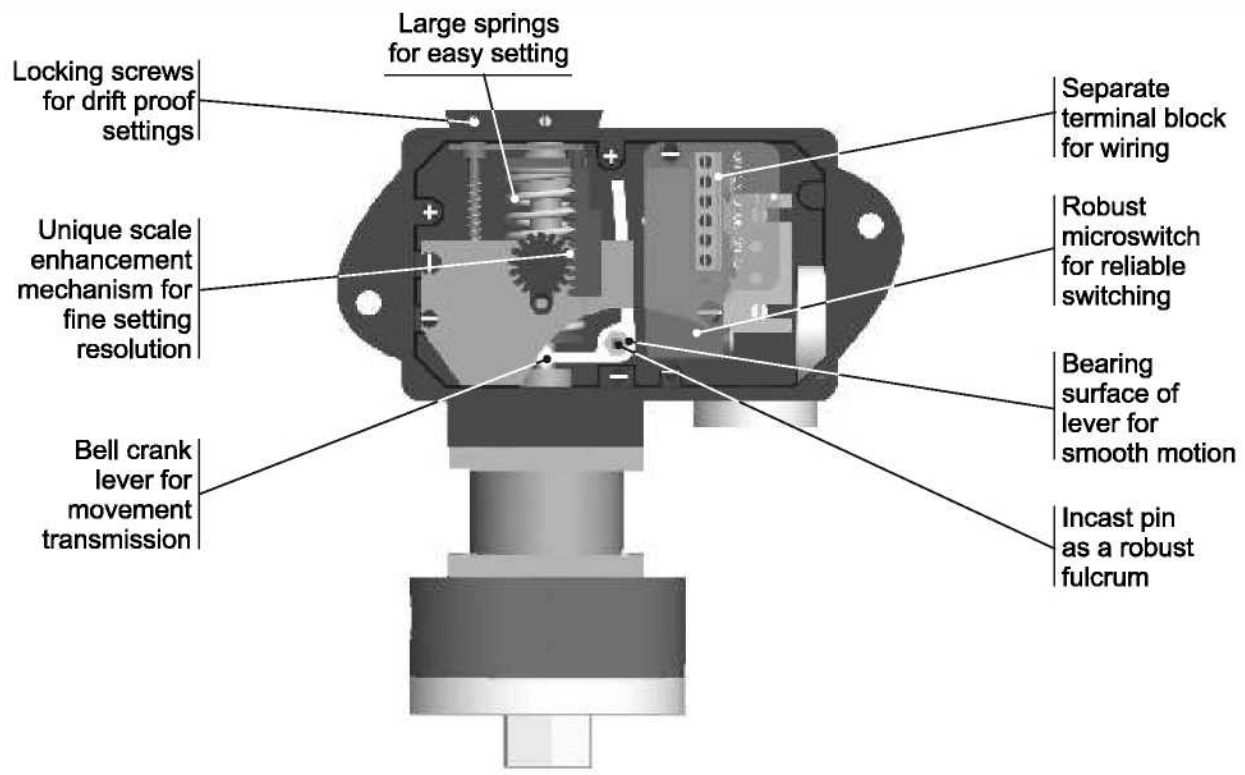
eg. A high range pressure difference weatherproof switch, with 1/2" NPT cable entry in aluminium housing as 1SPDT pressure switch, fixed differential without scale, having 0.1 bar to 1 bar pressure range, with 15 Amp. microswitch, SS316 pressure housing with 1/4" BSP port size & neoprene diaphragm shall be specified by

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
<input type="checkbox"/>	MD	1	DF1	H01	A1	S1	0

Please specify full model number to avoid ambiguity.

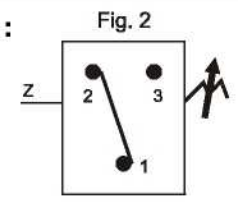


# MD HIGH PROOF HIGH RANGE PRESSURE DIFFERENCE SWITCHES



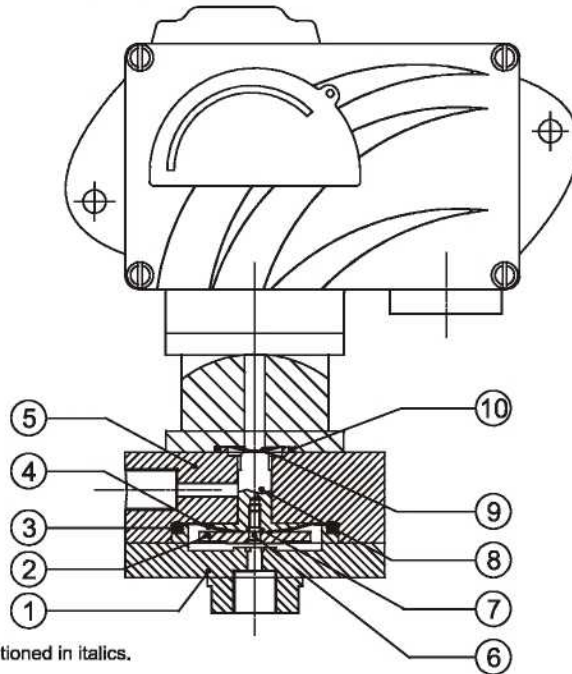
Approximate Weight : 2.000 Kg.

Electrical Connection :





## PRESSURE CAPSULE DETAILS

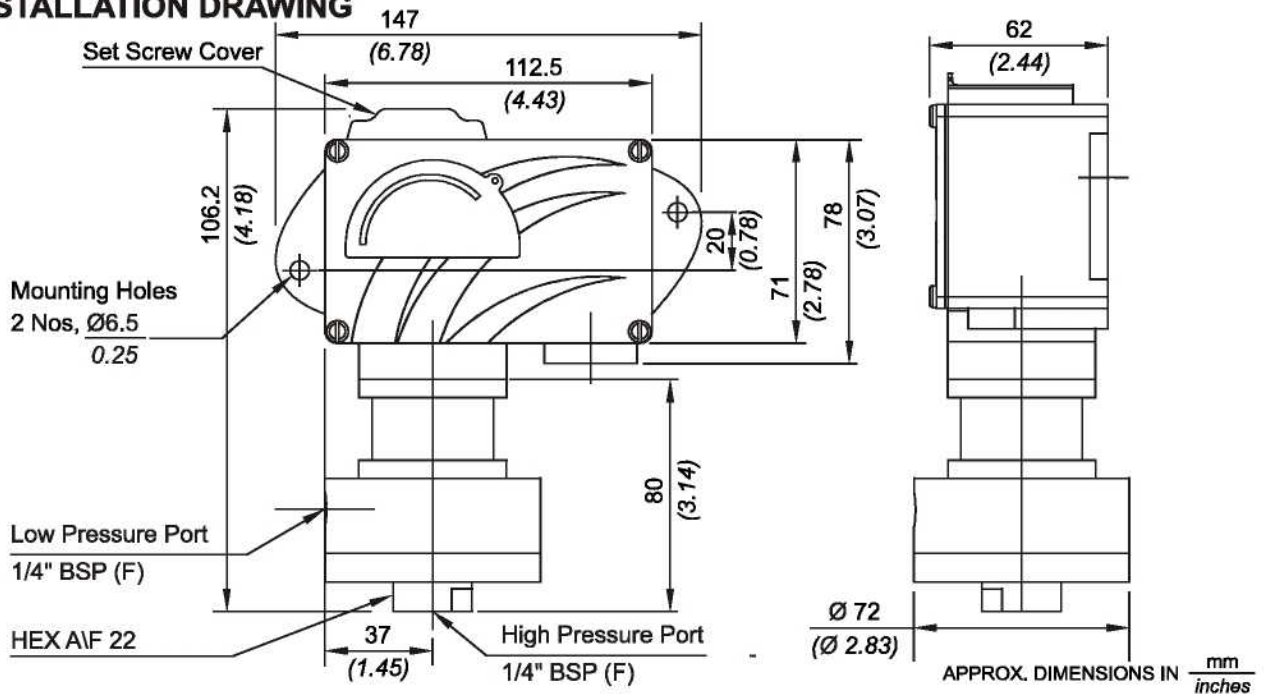


### No. Description

1. Pressure Housing
2. HP Plunger
3. Sealing O-Ring
4. Diaphragm
5. Disc
6. CSK Screw (SS)
7. O-Ring (Teflon®)
8. LP Plunger (SS316)
9. Sealing Diaphragm (Teflon®)
10. Sealing O-Ring (Teflon®)

Note : *wetted parts* are mentioned in italics.

## INSTALLATION DRAWING



**RANGE SELECTION TABLE**

Range Code	Range bar ( <i>psi</i> )	Differential* bar ( <i>psi</i> )	Maximum Working Pressure bar ( <i>psi</i> )
		Approximate Maximum for "A1" microswitch	
P01	0.1 - 1.0 (1.43 - 14.29)	0.24 (0.60)	200 (2900.76)
P02	0.1 - 1.5 (1.43 - 21.43)	0.40 (2.28)	200 (2900.76)
P03	0.2 - 2.6 (2.86 - 37.14)	0.40 (2.28)	200 (2900.76)
P04	0.2 - 3.6 (2.86 - 51.43)	0.60 (2.86)	200 (2900.76)

\*Minimum differential increases with setpoint (Graphs available on request)

**\* Note :**

Microswitches A2 through A7 can be supplied in some ranges and differentials will vary with microswitch used. Please contact sales office for details. Please check availability of adjustable differential with sales office.

## HOW TO ORDER INDUSTRIAL HIGH PROOF HIGH RANGE PRESSURE DIFFERENCE SWITCHES

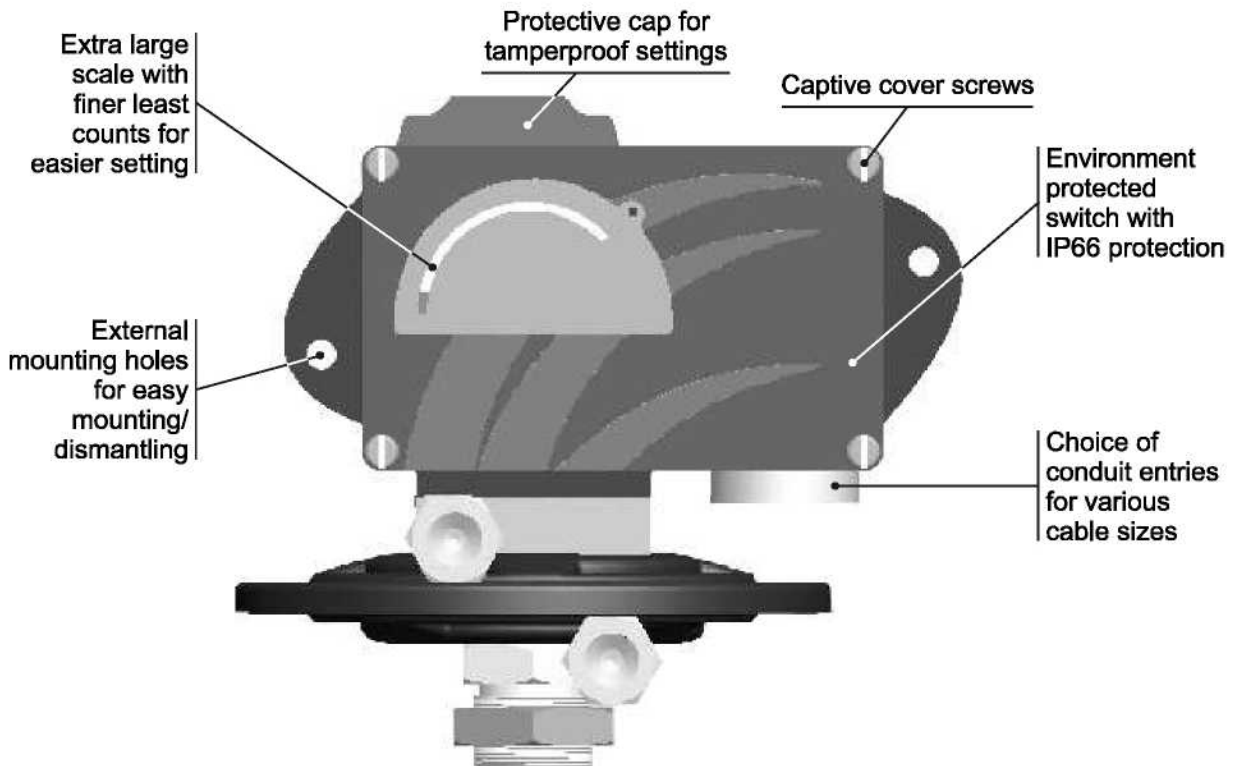
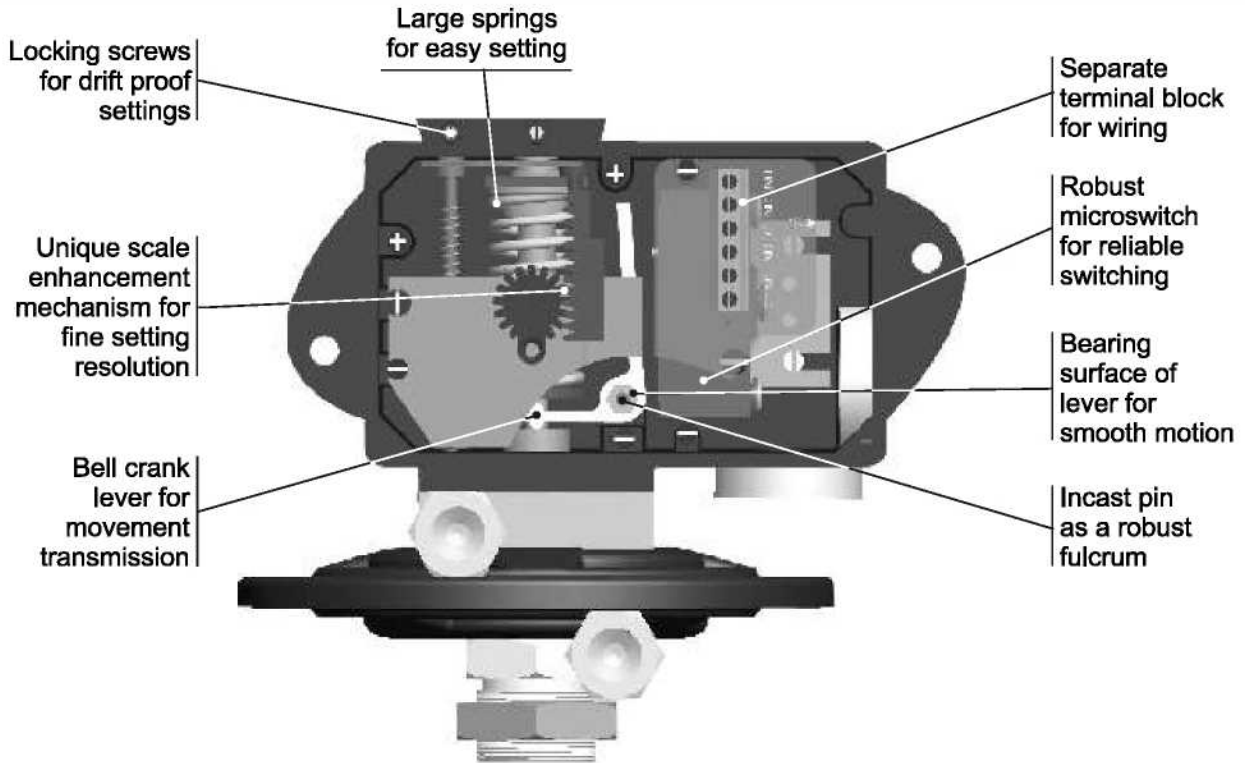
Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
Non standard allocation	Model	Cable Entry Size and Material of Enclosure	Switch Type	Range Code (values in bar)	Microswitch Type	Pressure Port Size	Diaphragm
<input type="checkbox"/> Reserved for non-standard options not covered in catalogue. 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> = ½" NPT threads for aluminium housing <b>2</b> = ¾" NPT threads for aluminium housing <b>3</b> = M20 X 1.5 threads for aluminium housing	<b>DF1</b> = pressure switch, fixed differential without scale <b>DF2</b> = pressure switch, fixed differential with scale <b>DA1</b> = pressure switch, adjustable differential without scale <b>DA2</b> = pressure switch, adjustable differential with scale	<b>P01</b> = (0.1 - 1.0) <b>P02</b> = (0.1 - 1.5) <b>P03</b> = (0.2 - 2.6) <b>P04</b> = (0.2 - 3.6)	<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>A6</b> = elements with adjustable deadband <b>A7</b> = 2SPDT switching elements  * Please refer note under Range Selection Table	<b>S1</b> = SS316 pr. Housing with ¼" BSPF pressure port <b>S2</b> = SS316 pressure housing with ¼" NPT(F) pressure port.	<b>0</b> = Neoprene <b>1</b> = Teflon

eg. A high proof high range pressure difference weatherproof 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 15Amp. microswitch, SS316 pressure housing with ¼" 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
<input type="checkbox"/>	MD	1	DF1	P01	A1	S1	0

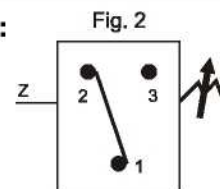
Please specify full model number to avoid ambiguity.

# MD LOW RANGE PRESSURE DIFFERENCE SWITCHES



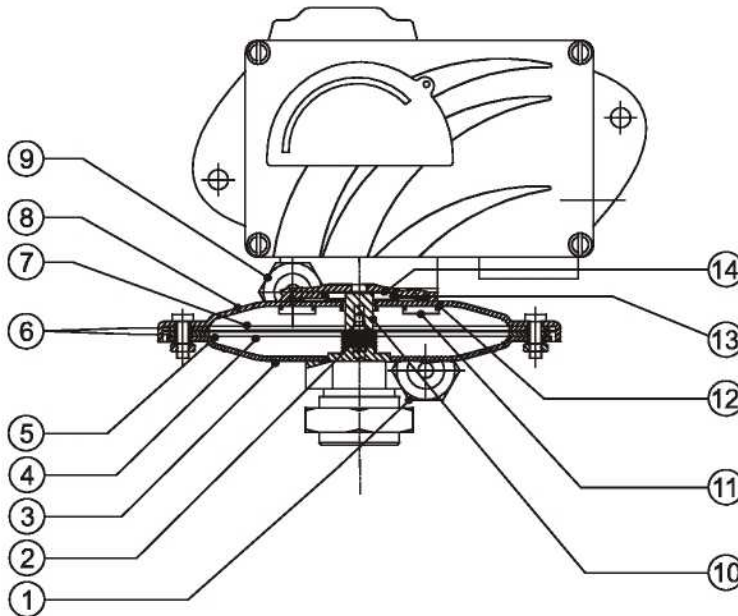
Approximate Weight : 2.000 Kg.

Electrical Connection :





## PRESSURE CAPSULE DETAILS



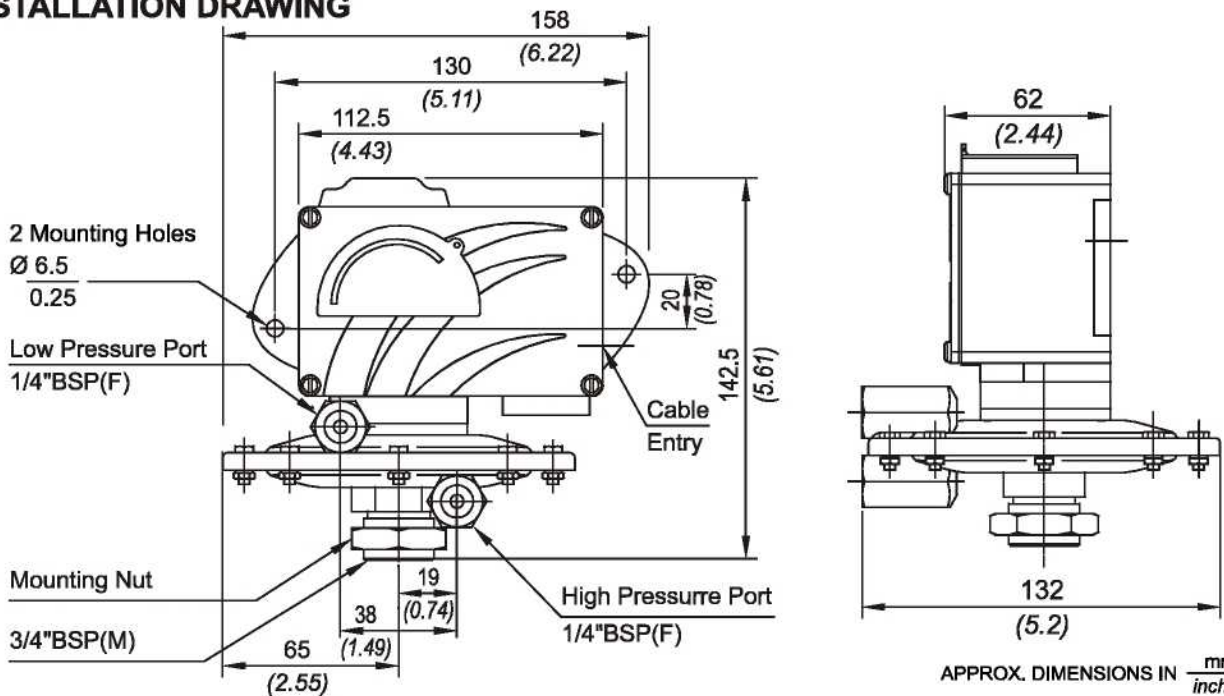
### No. Description

1. High Pressure Port (M.S.)\*
2. Support Spring (S.S.)
3. Bottom Flange (M.S.)
4. Support Plate (Aluminium)
5. Diaphragm (Neoprene)
6. Gasket (Nitrile)
7. Top Plate (Aluminium)
8. Top Flange (M.S.)\*
9. Low Pressure Port (M.S.)
10. Transfer Pin (Al)
11. Top Flange Screw (M.S.)
12. O-Ring (Nitrile)
13. O-Ring (Nitrile)
14. Sealing Diaphragm (Nitrile)

\* Pressure ports are brazed with flange

Note : *wetted parts* are mentioned in italics.

## INSTALLATION DRAWING



# MD 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	
L02	1.5 - 15 (0.590 - 5.905)	3 (1.181)	2 (28.57)
L03	5 - 25 (1.969 - 9.843)	5 (1.969)	2 (28.57)
L05	10 - 50 (3.937 - 19.685)	5 (1.969)	2 (28.57)
L10	10 - 100 (3.937 - 39.370)	10 (3.937)	2 (28.57)
L15	10 - 150 (3.937 - 59.055)	10 (3.937)	2 (28.57)
L25	20 - 250 (7.874 - 98.425)	10 (3.937)	2 (28.57)

\*Minimum differential increases with setpoint (Graphs available on request)

**\* Note :**

Microswitches A2 through A7 can be supplied in some ranges and differentials will vary with microswitch used. Please contact sales office for details. Please check availability of adjustable differential with sales office.

## HOW TO ORDER INDUSTRIAL 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 and Material of Enclosure	Switch Type	Range Code (values in bar)	Microswitch Type	Pressure Port 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 for aluminium housing <b>2</b> = 3/4" NPT threads for aluminium housing <b>3</b> = M20 X 1.5 threads for aluminium housing	<b>DF1</b> = pressure switch, fixed differential without scale <b>DF2</b> = pressure switch, fixed differential with scale <b>DA1</b> = pressure switch, adjustable differential without scale <b>DA2</b> = pressure switch, adjustable differential with scale	<b>L02</b> = (1.5 - 15) <b>L03</b> = (5 - 25) <b>L05</b> = (10 - 50) <b>L10</b> = (10 - 100) <b>L15</b> = (10 - 150) <b>L25</b> = (20 - 250)	<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>*A6</b> = elements with adjustable deadband <b>*A7</b> = 2SPDT switching elements  * Please refer note under Range Selection Table	<b>M1</b> = M.S. powder coated pressure housing with 1/4" BSPF pressure port <b>M2</b> = M.S. powder coated pressure housing with 1/4" NPT(F) pressure port. <b>S1</b> = SS316 pr. Housing with 1/4" BSPF pressure port <b>S2</b> = SS316 pressure housing with 1/4" NPT(F) pressure port.	<b>0</b> = Neoprene <b>1</b> = Teflon

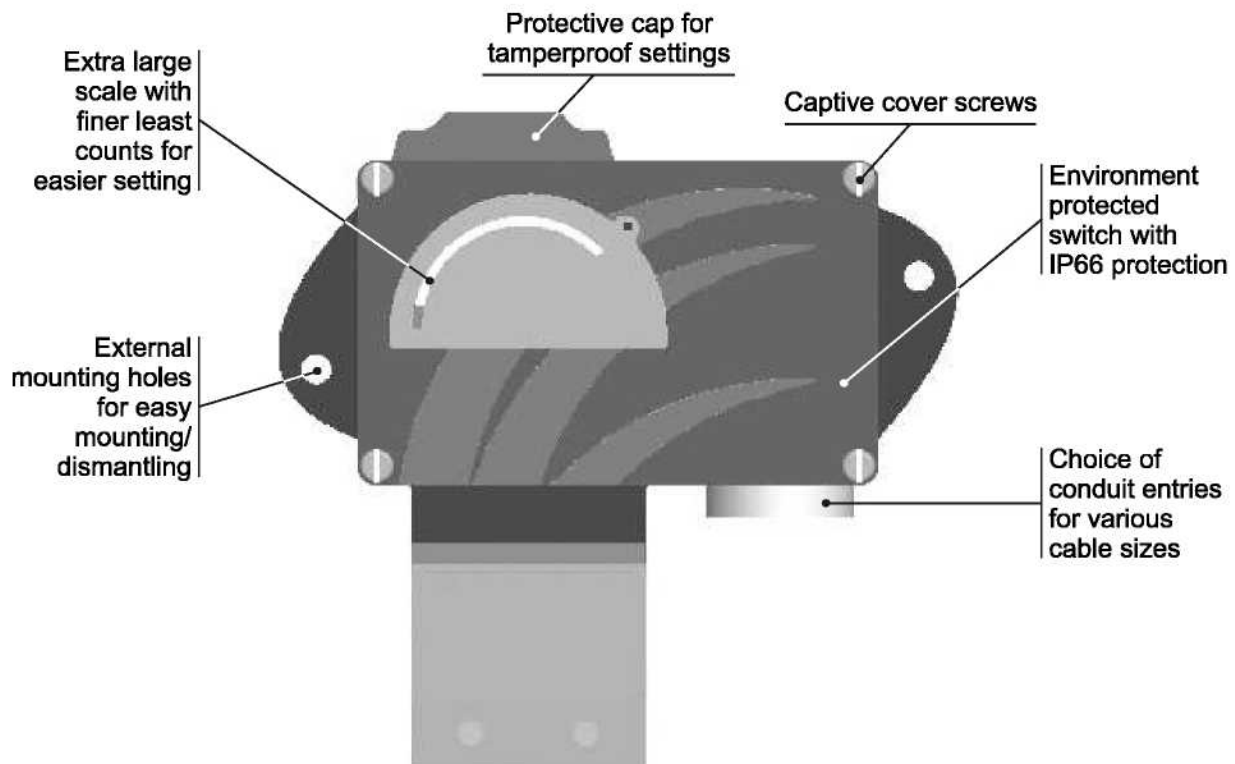
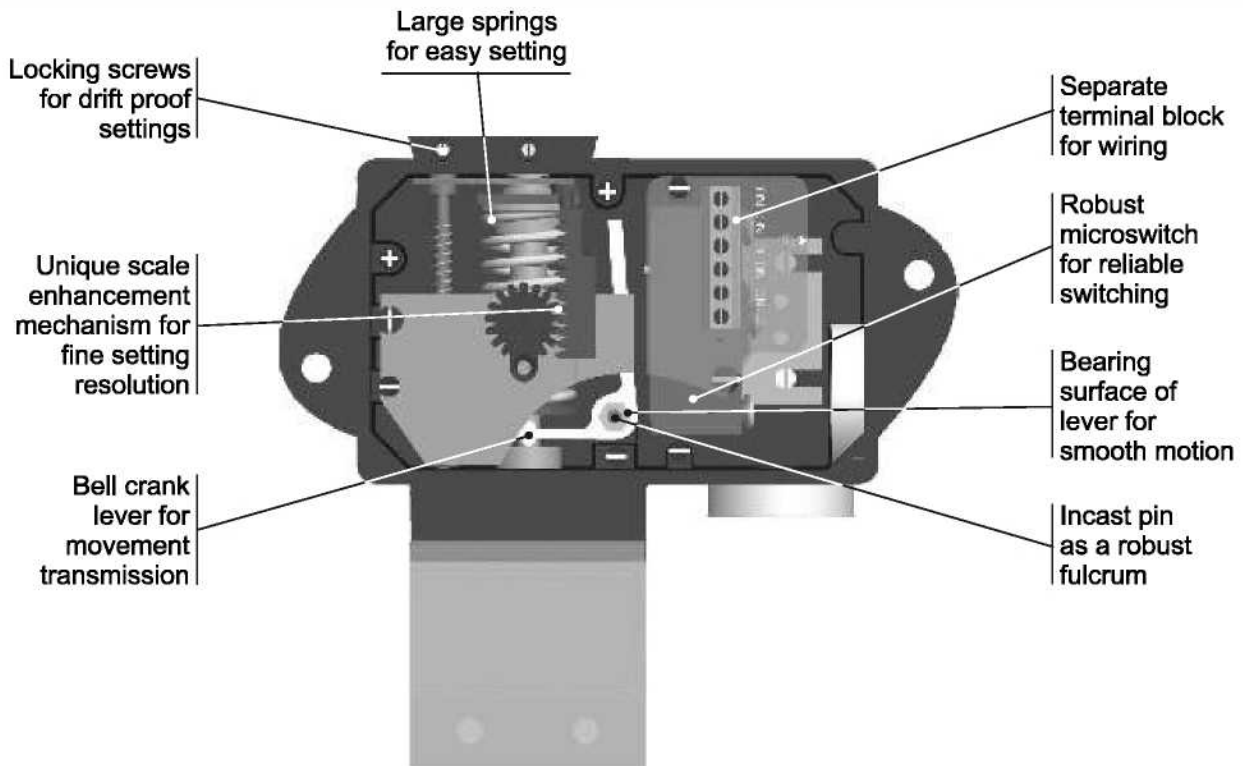
eg. A low range pressure difference weatherproof switch, with 1/2" NPT cable entry in aluminium housing as 1SPDT pressure switch, fixed differential without scale, having 5 mbar to 25 mbar pressure range, with 15 Amp. microswitch, SS316 pressure housing with 1/4" BSP port size & neoprene diaphragm shall be specified by

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
<input type="checkbox"/>	MD	1	DF1	L03	A1	S1	0

Please specify full model number to avoid ambiguity.

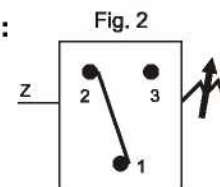


# MD VACUUM SWITCHES



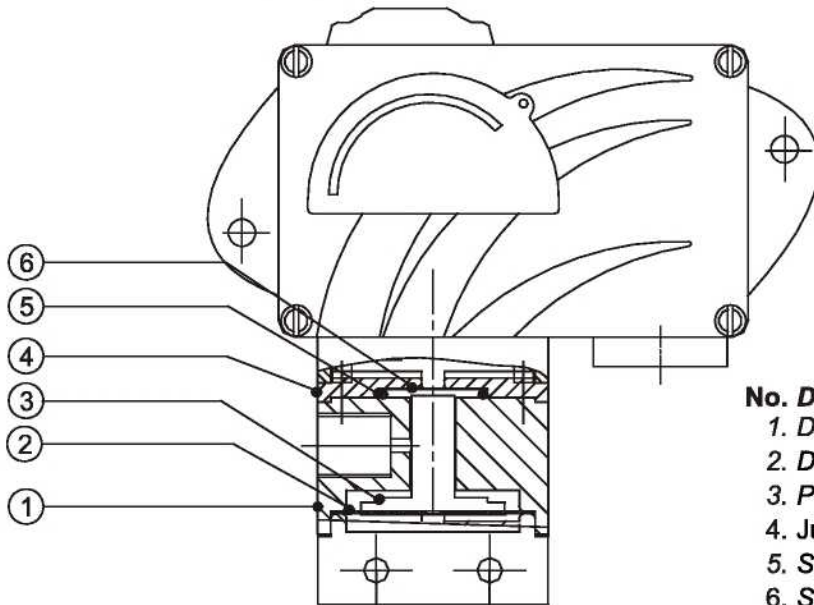
Approximate Weight : 1.500 Kg.

Electrical Connection :





## PRESSURE CAPSULE DETAILS

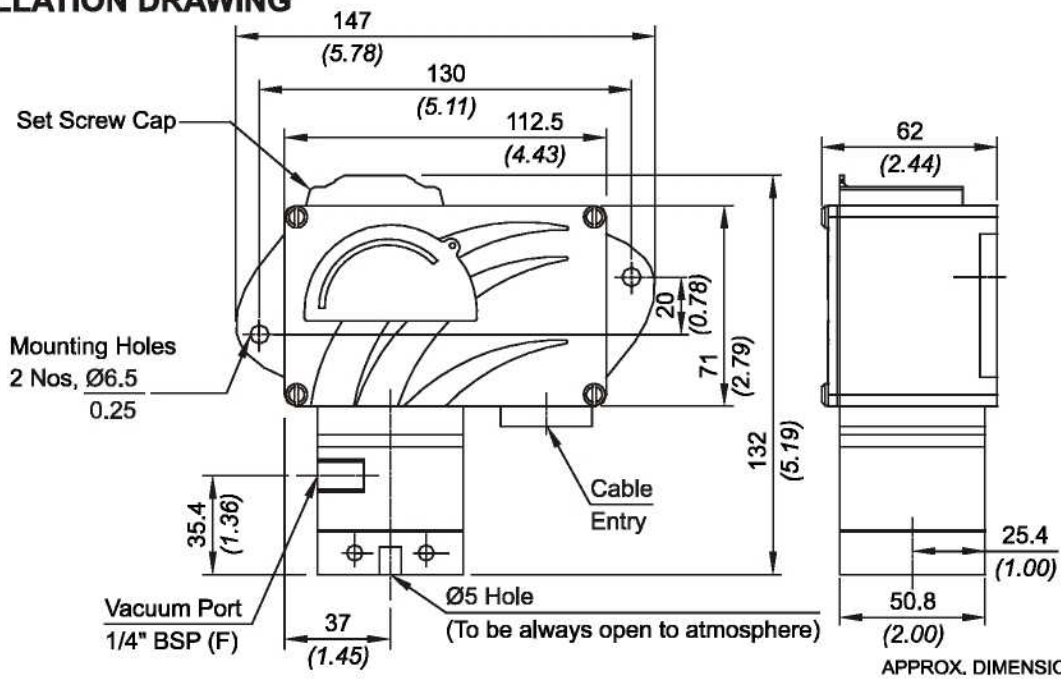


### No. Description

1. Disc
2. Diaphragm
3. Plunger (SS316)
4. Junction Plate
5. Sealing 'O' Ring (Teflon®)
6. Sealing diaphragms (Teflon®)

Note : *wetted parts* are mentioned in italics.

## INSTALLATION DRAWING



# MD VACUUM SWITCHES

## RANGE SELECTION TABLE

Range Code	Range mm Hg (" Hg)	Differential* mm Hg ("Hg)	Maximum Working Pressure bar (psi)
		Approximate Maximum for "A1" microswitch	
V00	† 760 - 100 (29.92 - 3.94)	30 (0.90)	12 (171.43)

\*Minimum differential increases with setpoint (Graphs available on request)

† Typical values achieved at sea level, total vacuum that can be achieved varies mainly with altitude.

**\* Note :**

Microswitches A2 through A7 can be supplied in some ranges and differentials will vary with microswitch used. Please contact sales office for details. Please check availability of adjustable differential with sales office.

## HOW TO ORDER INDUSTRIAL VACUUM SWITCHES

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
Non standard allocation	Model	Cable Entry Size and Material of Enclosure	Switch Type	Range Code (values in bar)	Microswitch Type	Pressure Port 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> = ½" NPT threads for aluminium housing <b>2</b> = ¾" NPT threads for aluminium housing <b>3</b> = M20 X 1.5 threads for aluminium housing	<b>VF1</b> = vacuum switch, fixed differential without scale <b>VF2</b> = vacuum switch, fixed differential with scale <b>VA1</b> = vacuum switch, adjustable differential without scale <b>VA2</b> = vacuum switch, adjustable differential with scale	<b>V00</b> = († 760 - 100)	<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>*A6</b> = elements with adjustable deadband <b>*A7</b> = 2SPDT switching elements <small>* Please refer note under Range Selection Table</small>	<b>A1</b> = Aluminium pressure housing with ¼" BSPF pressure port <b>A2</b> = Aluminium pressure housing with ¼" NPT(F) pressure port. <b>S1</b> = SS316 pr. Housing with ¼" BSPF pressure port <b>S2</b> = SS316 pressure housing with ¼" NPT(F) pressure port.	<b>0</b> = Neoprene <b>1</b> = Teflon
<input type="checkbox"/>	MD	1	VF1	V00	A1	S1	0

eg. A vacuum weatherproof switch, with ½" NPT cable entry in aluminium housing as 1SPDT pressure switch, fixed differential without scale, having 760 mmHg to 100 mmHg vacuum range, with 15Amp. microswitch, SS316 pressure housing with ¼" BSP port size & neoprene diaphragm shall be specified by

Please specify full model number to avoid ambiguity.



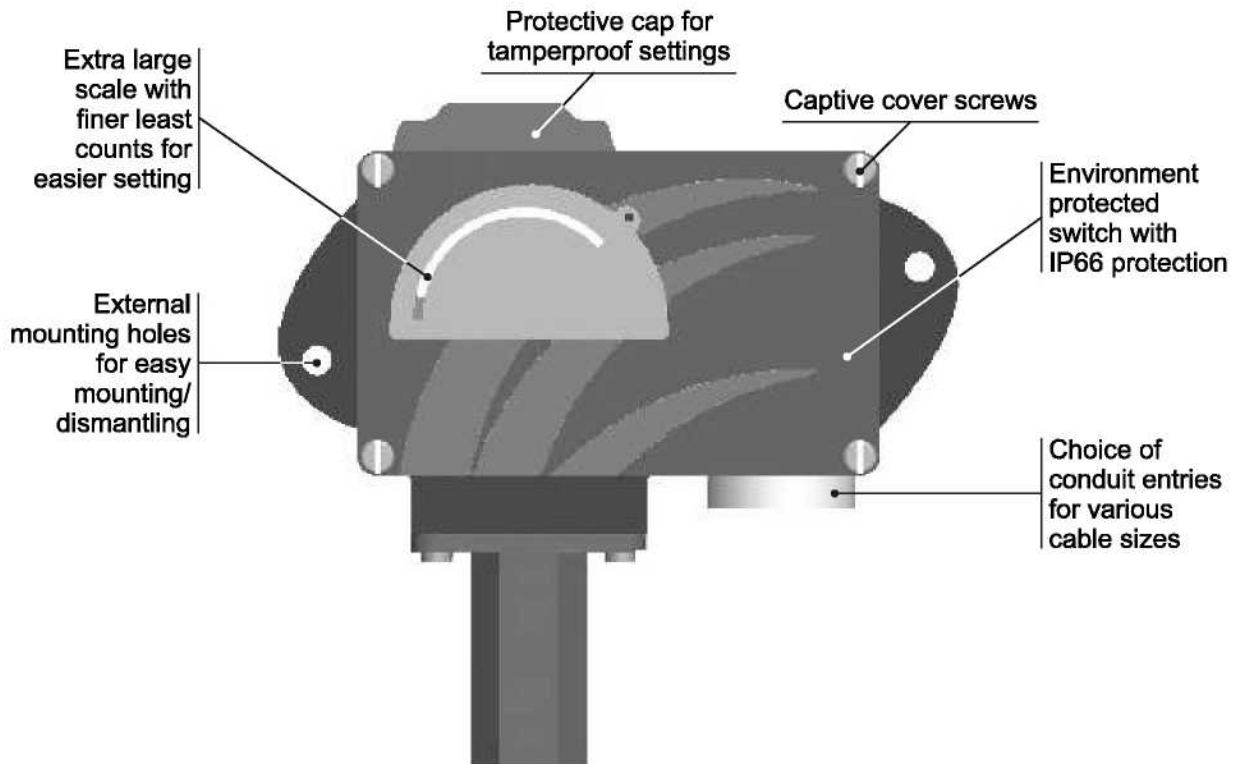
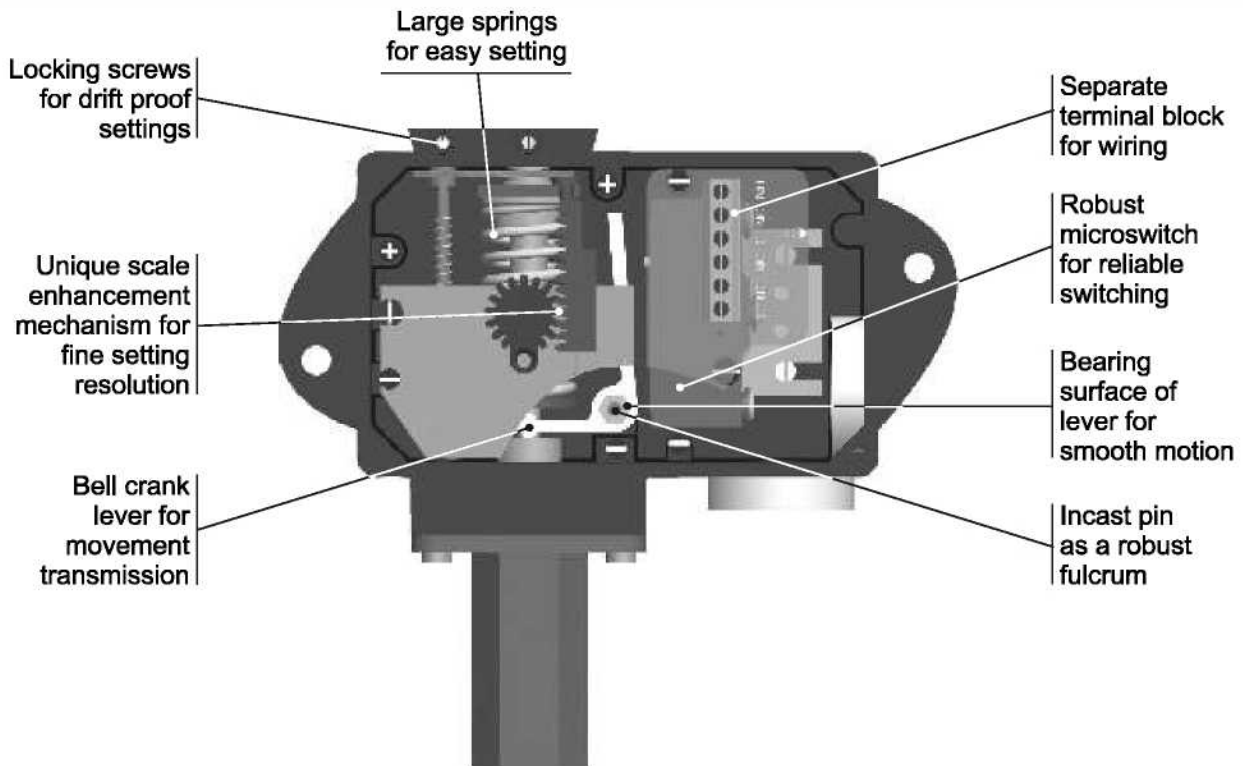
22 Sarum Complex,  
Salisbury Road,  
Uxbridge,  
Middlesex  
UB8 2RZ



VALVES, SWITCHES, INSTRUMENTATION  
AND SYSTEMS FOR  
PRESSURE, FLOW AND  
TEMPERATURE APPLICATIONS

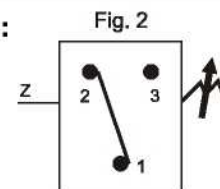
Tel: 01895 200015 Fax: 01895 252205  
E-Mail: info@tamo.co.uk Website: www.tamo.co.uk

# MD HYDRAULIC RANGE PRESSURE SWITCHES



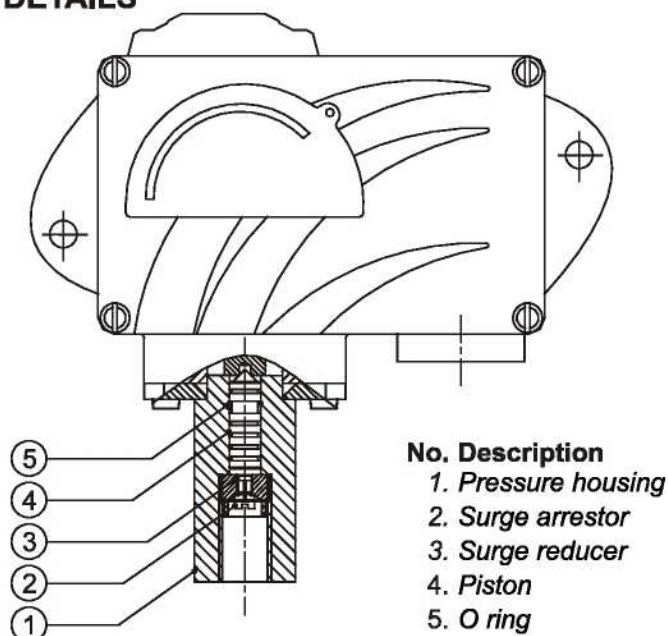
Approximate Weight : 0.850 Kg.

Electrical Connection :



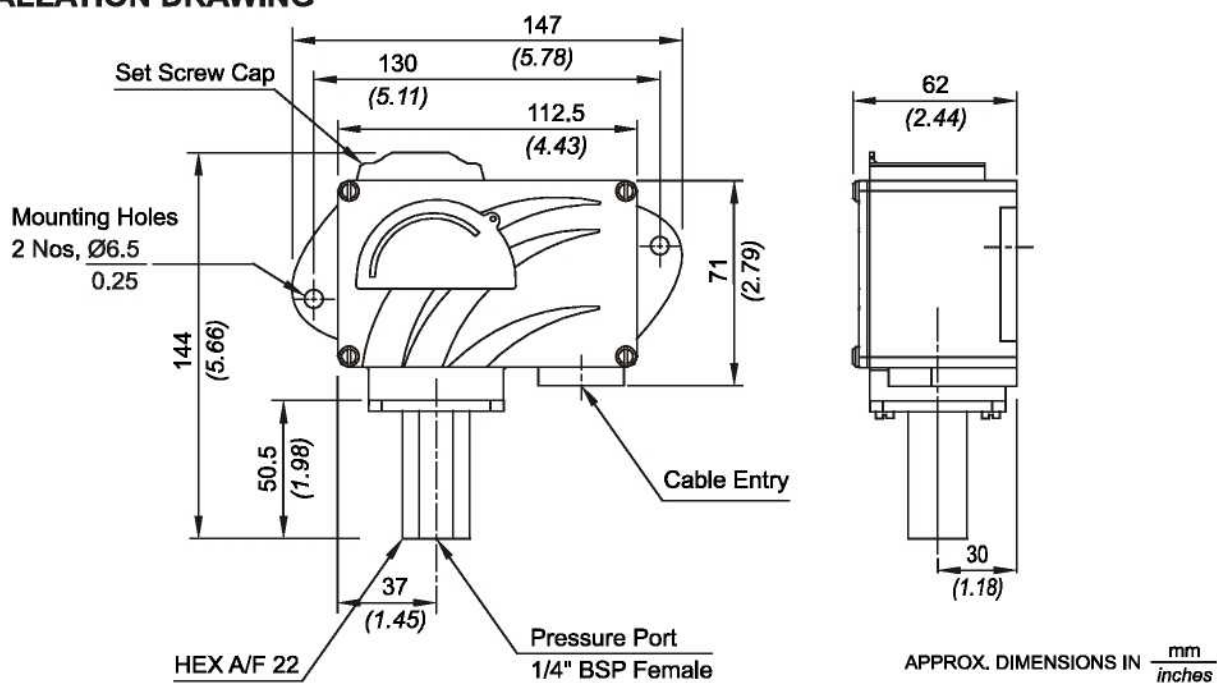


## PRESSURE CAPSULE DETAILS



Note : *wetted parts* are mentioned in italics.

## INSTALLATION DRAWING



# MD HYDRAULIC RANGE PRESSURE SWITCHES

## RANGE SELECTION TABLE

Range Code	Range bar (psi)	Differential* bar (psi)	Maximum Working Pressure bar (psi)
		Approximate Maximum for "A1" microswitch	
040	5 - 40 (71.43 - 571.43)	5 (71.43)	80 (1142.85)
100	10 - 100 (142.86 - 1428.57)	12 (171.42)	120 (1714.29)
200	7 - 200 (100.00 - 2857.14)	24 (342.86)	200 (2857.14)
350	35 - 350 (100.00 - 2857.14)	24 (342.86)	500 (7142.86)
400	100 - 400 (1428.57 - 5714.29)	30 (571.42)	400 (5714.29)

\*Minimum differential increases with setpoint (Graphs available on request)

**\* Note :**

Microswitches A2 through A7 can be supplied in some ranges and differentials will vary with microswitch used. Please contact sales office for details. Please check availability of adjustable differential with sales office.

## HOW TO ORDER INDUSTRIAL HYDRAULIC 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 and Material of Enclosure	Switch Type	Range Code (values in bar)	Microswitch Type	Pressure Port 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 for aluminium housing <b>2</b> = 3/4" NPT threads for aluminium housing <b>3</b> = M20 X 1.5 threads for aluminium housing	<b>PF1</b> = pressure switch, fixed differential without scale <b>PF2</b> = pressure switch, fixed differential with scale <b>PA1</b> = pressure switch, adjustable differential without scale <b>PA2</b> = pressure switch, adjustable differential with scale	<b>040</b> = (5 - 40) <b>100</b> = (10 - 100) <b>200</b> = (7 - 200) <b>350</b> = (35 - 350) <b>400</b> = (100 - 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>A6</b> = elements with adjustable deadband <b>A7</b> = 2SPDT switching elements * Please refer note under Range Selection Table	<b>S1</b> = SS316 pr. Housing with 1/4" BSPF pressure port <b>S2</b> = SS316 pressure housing with 1/4" NPT pressure port.	
□	MD	1	PF1	040	A1	S1	-

eg. A hydraulic weatherproof 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

Please specify full model number to avoid ambiguity.