



PRESSURE SWITCHES
PRESSURE DIFFERENCE SWITCHES
VACUUM SWITCHES
From 1.5 mbar to 600 bar

MT Low Range Pressure Difference Switches

CATALOGUE

Certificate No.: FM72815

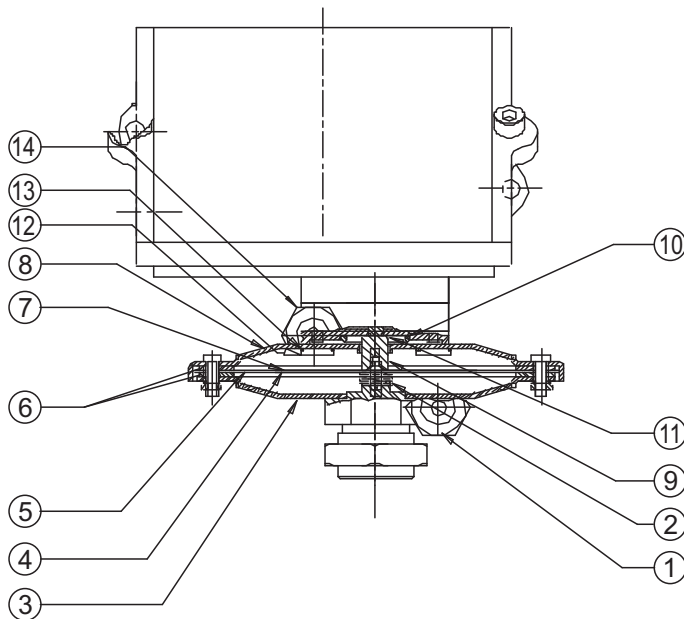


Kaustubha Udyog AN ISO9001:2008 COMPANY

S. No. 36/1/1, Sinhgad Road, Vadgaon Khurd,
Near Lokmat Press, Pune 411 041 INDIA
Tel. : +91-(0) 20-24393577 / 24393877
Telefax: +91-(0) 20-24393577 / 25460486
Email : pressure@vsnl.com

Website : <http://www.orion-instruments.com>

PRESSURE CAPSULE DETAILS



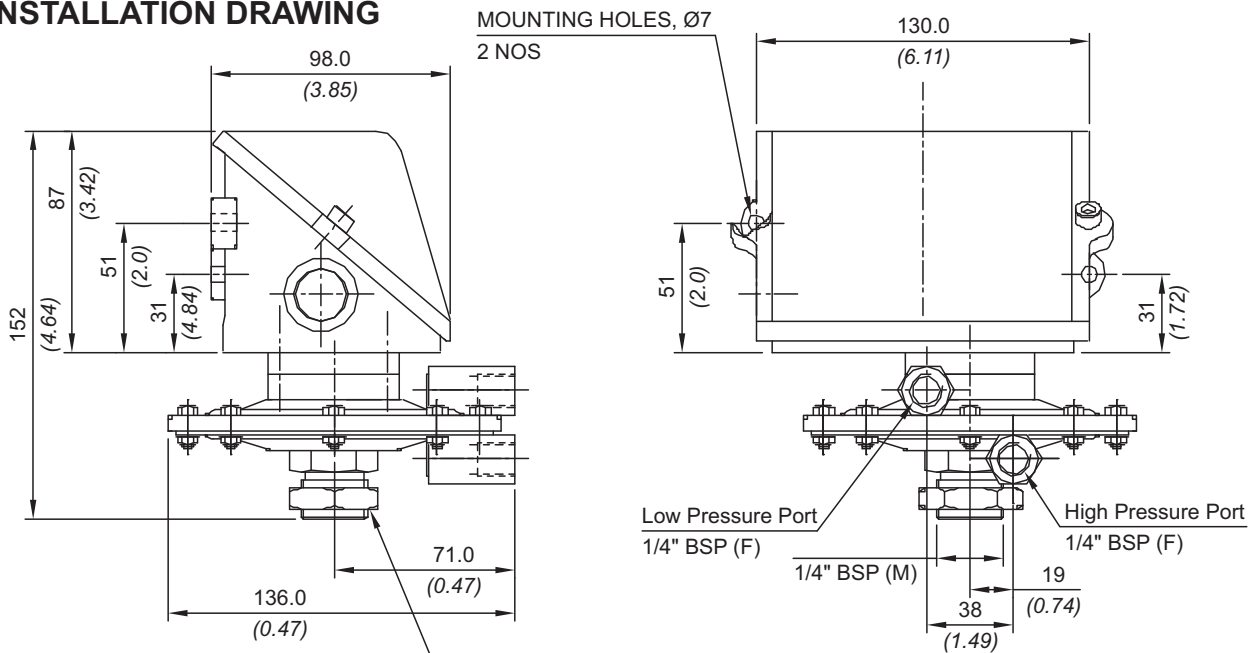
No. Description

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. Transfer pin (Aluminium)
10. 'O' ring (Nitrile)
11. Sealing diaphragm (Nitrile)
12. Top flange screw (M.S.)
13. Sealing 'O' ring (Nitrile)
14. Low pressure port (M.S.)*

*Pressure ports are brazed with flange

Note : *wetted parts* are mentioned in italics.

INSTALLATION DRAWING



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

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 (0.602 - 6.02)	3 (1.204)	2 (29.00)
L03	5 - 25 (2.007 - 10.037)	5 (2.007)	2 (29.00)
L05	10 - 50 (4.015 - 20.073)	5 (2.007)	2 (29.00)
L10	10 - 100 (4.015 - 40.146)	10 (4.015)	2 (29.00)
L15	10 - 150 (4.015 - 60.22)	10 (4.015)	2 (29.00)
L25	20 - 250 (8.03 - 100.36)	15 (4.015)	2 (29.00)
L35	50 - 350 (20.073 - 140.51)	35 (14.05)	2 (29.00)

*Minimum differential increases with setpoint, values with neoprene diaphragm (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 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	Switch Type	Range Code (values in mbar)	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.	MT = Industrial pressure switch with diecast Aluminium enclosure to IP66 as per IS/IEC 60529	1 = Al. head 1/2" NPT threads 3 = Al. head M20 X 1.5 threads	DF1 = pressure difference switch, fixed differential without scale DF2 = pressure difference switch, fixed differential with scale in mbar DF3 = pressure difference switch, fixed differential with scale in "wc *DA1 = pressure difference switch, adjustable differential without scale *DA2 = pressure difference switch, adjustable differential with scale in mbar *DA3 = pressure difference switch, adjustable differential with scale in "wc *Available with A9 (in group 6) only	L02 = (1.5 - 15) L03 = (5 - 25) L05 = (10 - 50) L10 = (10 - 100) L15 = (10 - 150) L25 = (20 - 250) L35 = (50 - 350)	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 *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	M1 = M.S. powder coated / 1/4" BSP(F) M2 = M.S. powder coated / 1/4" NPT(F) S1 = SS316 / 1/4" BSP(F) S2 = SS316 / 1/4" NPT(F)	0 = Neoprene 1 = Teflon

eg. Industrial switch with 1/2" NPT cable entry in aluminium housing as 1SPDT pressure switch, fix differential with scale in mbar, having 1.5 to 15 mbar 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
<input type="checkbox"/>	MT	1	DF1	L03	A1	S1	0

Please specify full model number to avoid ambiguity.