

MD/MT VACUUM SWITCHES

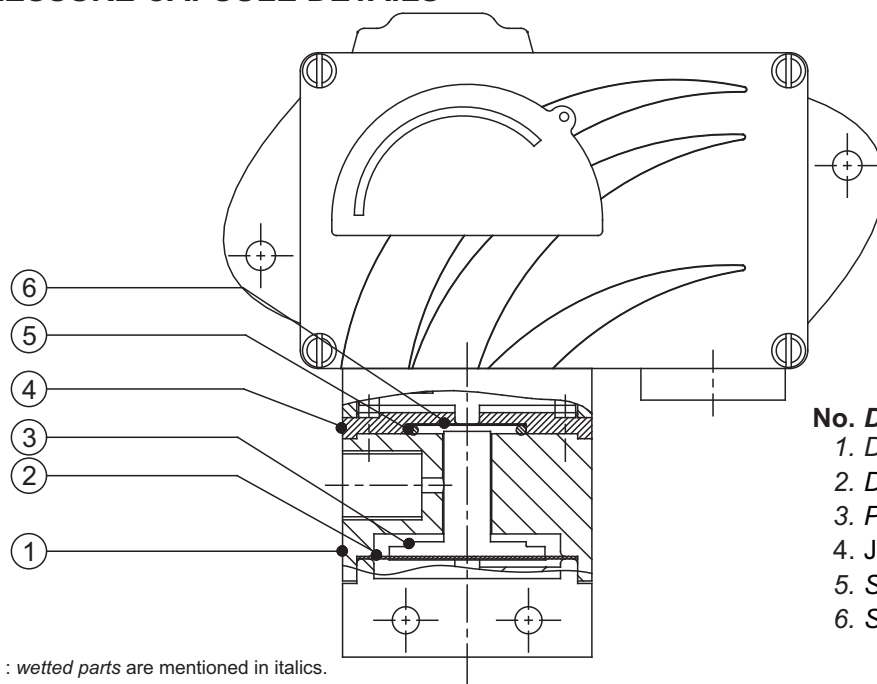


MD

CE



PRESSURE CAPSULE DETAILS

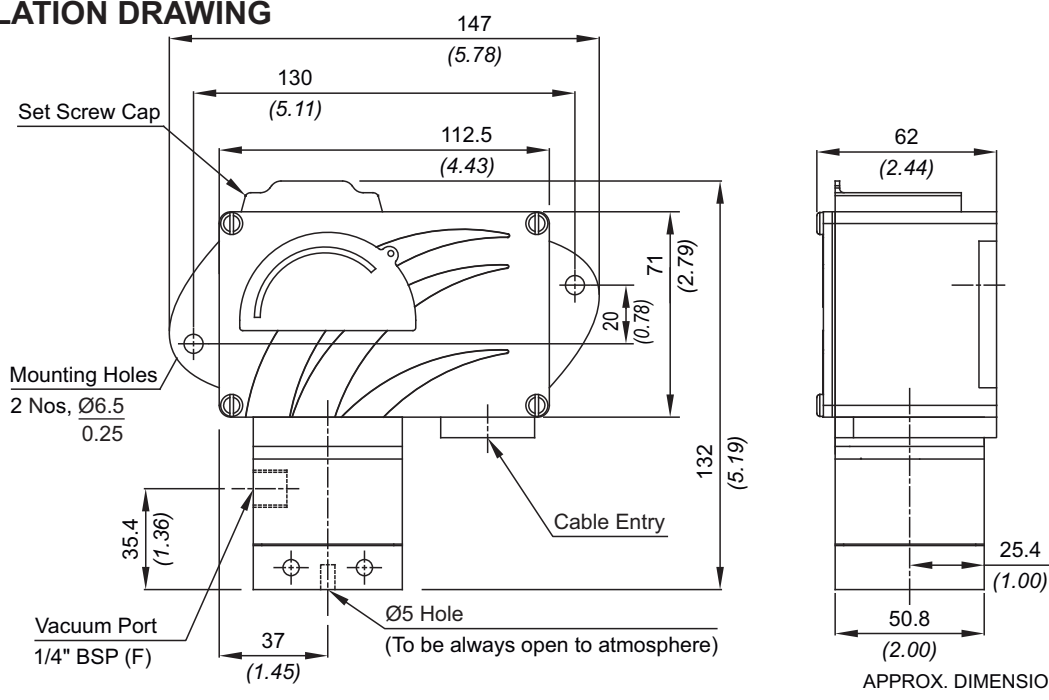


No. Description

1. *Disc (Al)*
2. *Diaphragm (PTFE®)*
3. *Plunger (SS316)*
4. *Junction Plate (Al)*
5. *Sealing O-Ring (PTFE®)*
6. *Sealing Diaphragms (PTFE®)*

Note : *wetted parts* are mentioned in italics.

INSTALLATION DRAWING



MD/MT 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 (1.181)	12 (174.05)

Note:

1. The minimum differential increases with the setpoint. The differential values mentioned in the above table are approximate maximum for FSR. The differential value will vary according to the pressure range selected and microswitch type. For actual values of differential please contact sales office.

2. When using 2SPDT switching arrangement, both microswitches may not actuate and/or deactuate at the same point. A small stage gap, normally upto +/- 5% FSR (depending on range code) may be observed. The On-Off differential (hysteresis) typically tends to be atleast double of those published for 1SPDT pressure switches.

If actuation and/or deactuation at same point is critical part of operation, then it can be achieved by using a separate DPDT relay. This relay will need a separate power supply for it's coil.

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	Switch Type	Range Code (values in mmHg)	Microswitch Type	Pressure Port Material / Size	Diaphragm									
☐ A prefix "N" is used in the model code in case of any non standard options / accessories that are provided with the switches. Will be given by manufacturer, only after agreement of supply details with customer. The prefix is subject to change as per specific requirement.	MD = Industrial pressure switch with IP66 rated enclosure as per IS/IEC 60529 MT = Industrial pressure switch with IP66 rated enclosure as per IS/IEC 60529	1 = Al. enclosure ½" NPT threads *2 = Al. enclosure ¾" NPT threads 3 = Al. enclosure M20 X 1.5 threads 7 = SS enclosure, ½" NPT threads *8 = SS enclosure, ¾" NPT threads 9 = SS enclosure, M20 X 1.5 threads	VF1 = vacuum switch, fixed differential without scale VF2 = vacuum switch, fixed differential with scale in mmHg VF3 = vacuum switch, fixed differential with scale in "Hg *VA1 = vacuum switch, adjustable differential without scale *VA2 = vacuum switch, adjustable differential with scale in mmHg *VA3 = vacuum switch, adjustable differential with scale in "Hg	V00 = († 760 - 100)	A1 = General purpose microswitch, rated at 15 A; 250 VAC *A6 = Adjustable deadband *A7 = 2SPDT switching elements *A8 = General purpose microswitch *A9 = General purpose microswitch *B7 = 2SPDT Switching Elements *B9 = 2SPDT Switching Elements for adjustable differential	S1 = SS316 / ¼" BSP(F) S2 = SS316 / ¼" NPT(F)	0 = Neoprene 1 = PTFE									
	Approx. switch weight in Kgs		* Please refer to page nos. 290 & 291 for options and specifications of microswitches Please contact sales office for additional information More options available, please contact sales office													
<table><tr><td>Enclosure</td><td>MD</td><td>MT</td></tr><tr><td>Aluminium</td><td>1.500</td><td>1.930</td></tr><tr><td>SS</td><td>3.110</td><td>3.540</td></tr></table>	Enclosure	MD	MT	Aluminium	1.500	1.930	SS	3.110	3.540							
Enclosure	MD	MT														
Aluminium	1.500	1.930														
SS	3.110	3.540														

eg. A vacuum industrial switch, with 1/2" 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 1/4" BSP port size & neoprene diaphragm shall be specified by

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☐	MD	1	VF1	V00	A1	S1	0

Please specify full model number to avoid ambiguity.