



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

# Dual High Range Pressure Switches

## CATALOGUE



Certificate No.: FM 72815

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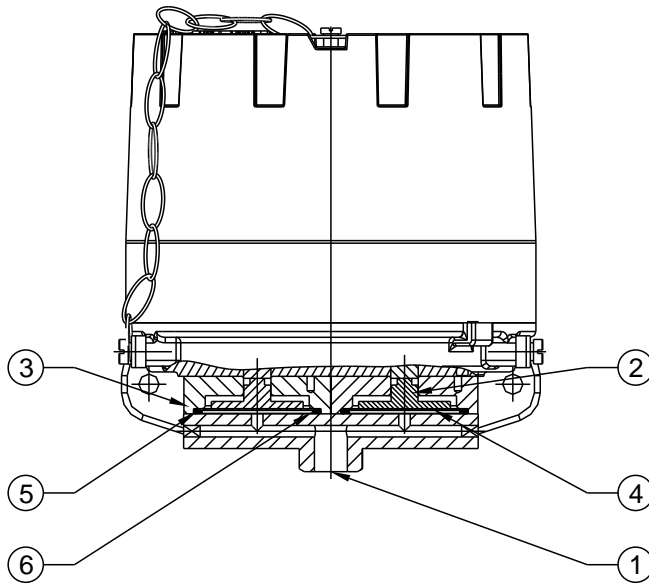
Website : <http://www.orion-instruments.com>

BULLETIN NO. : KA100807

# DS DUAL HIGH RANGE PRESSURE SWITCHES



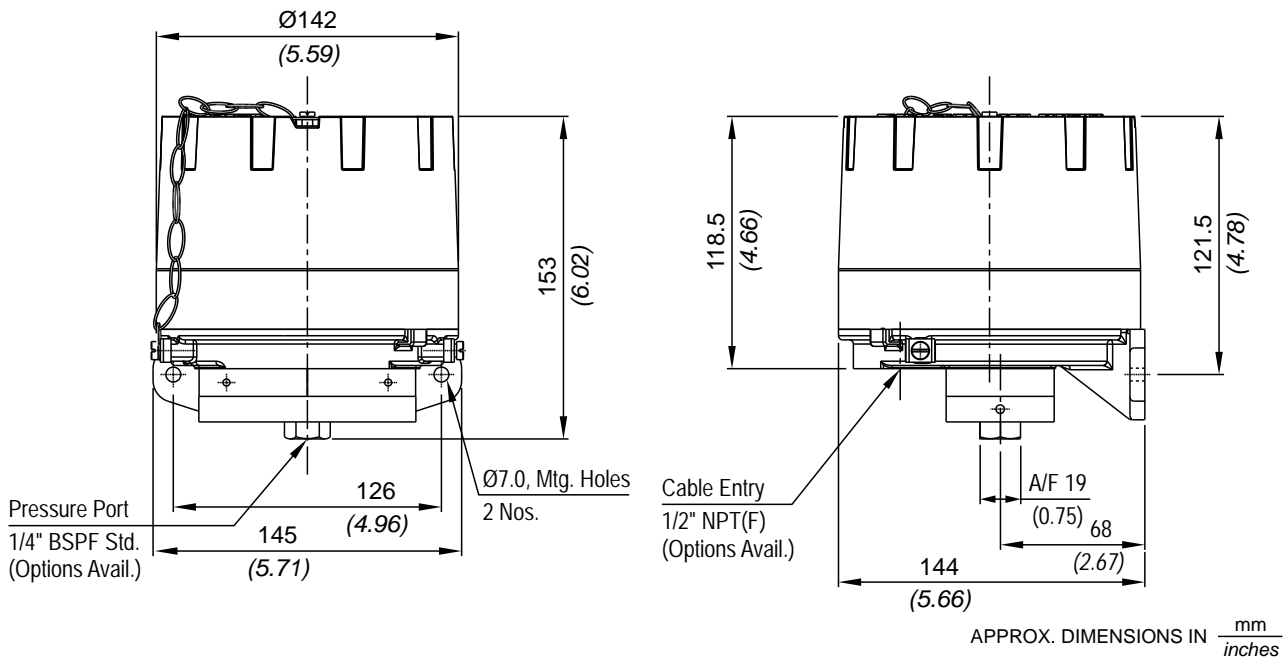
## PRESSURE CAPSULE DETAILS



- No. Description**
1. Pressure Port
  2. Plunger
  3. Housing Plate
  4. Diaphragm
  5. O-Ring
  6. Backup Ring

Note : *wetted parts* are mentioned in italics.

## INSTALLATION DRAWING



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## RANGE SELECTION TABLE

Range Code	Range bar (psi)	Differential* bar (psi)	Maximum Working Pressure bar (psi)
		Approximate Maximum for "A8" microswitch	
LP†	0.067 - 0.213 (0.97 - 3.09)	0.05 (0.71)	5 (71.43)
LP5	0.1 - 0.5 (1.45 - 7.25)	0.10 (1.43)	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)	0.20 (2.86)	12 (171.43)
H03	0.2 - 2.6 (2.90 - 37.71)	0.20 (2.86)	12 (171.43)
H04	0.2 - 3.6 (2.90 - 52.21)	0.20 (2.86)	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)	0.60 (8.58)	25 (357.14)
H15	1.0 - 15.0 (14.29 - 214.29)	0.60 (8.58)	25 (357.14)
H30	5.0 - 25.0 (71.43 - 357.14)	0.80 (11.44)	35 (500.00)

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

†Range not available in SS316 L diaphragm.

## HOW TO ORDER DUAL 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	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>DS</b> = Dual pressure switch with cast 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>PF2</b> = pressure switch, fixed differential with scale in bar <b>PF3</b> = pressure switch, fixed differential with scale in psi <b>*PA2</b> = pressure switch, adjustable differential with scale <b>*PA3</b> = pressure switch, adjustable differential with scale in psi <small>*Available only with option A9 in Group 6</small>	<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>A8</b> = General purpose microswitch rated at 5A; 250 VAC <b>A7</b> = 2SPDT microswitches <b>A9</b> = General purpose microswitch rated @ 5A, 250 VAC	<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 dual pressure switch with fixed differential having 0.1 bar to 1 bar pressure range, with 5 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"/>	DS	3	PF2	H01	A8	S1	0

Please specify full model number to avoid ambiguity.