

## Description & Features

- Cost effective and reliable.
- Uses diaphragm sensor.
- Easy to read dial instrument eliminates accumulated errors of two instruments installations.
- Differential pressure range from 25mm to 600mm/H<sub>2</sub>O
- Working pressures 35 bar.
- Indicating mechanism isolated from pressure chamber
- Only switch is also available.
- Wide application in air, gas and liquid media



## Applications

Monitor filter conditions, set filter by-pass, or initiate filter cleaning cycle. Check condition of pumps, heat exchangers, and other processing equipment. Detect abnormal and reverse flow conditions. Measure flow rates with venturi, orifice, or pitot tube.

## Specifications

### Dial Size

3.5"(80mm), 4"(100mm)  
4.5"(115mm) & 6"(150mm)

### Case

Stainless steel case and flange

### Body Material

316 stainless steel, Aluminium

### Wetted parts

Diaphragm, ceramic magnet, SS 304 spring  
Aluminium or SS-316 as per the gauge body

### Connection

1/4", 1/2", 3/8" in NPT, BSP, BSPT

### Seals

Buna-N (Standard) or Viton

### Porting

In line, Back & bottom

### Migration of media

Zero migration between high and low pressures.

### Protection

IP 65

### Window

Glass, Acrylic or Toughened glass

### Pressure range

25 upto 600 mmwc (1 upto 25 inch wc)

### Working pressure

35 bar

### Media Temperature

80°C/ 175 °F

### Accuracy

+/-2 % of FSD (Ascending)

### Operating principle

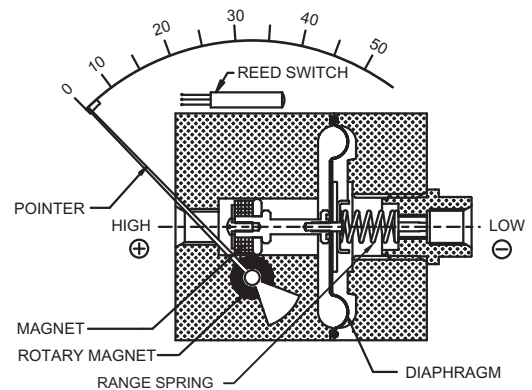
Magnetic coupling with a convoluted diaphragm sensor.

### Switch

SPST or SPDT, one or two. Switches are field adjustable. The set points can be increased or decreased externally with a simple screwdriver adjustments. When two switches are used, either switch can be adjusted independently.

### Options

Glycerine filling, maximum adjustable pointer, dual scale  
Direct, front panel flange, 2" pipe mounting  
Other connection size available  
Other internal parts in Aluminium, or SS-316 as per the body



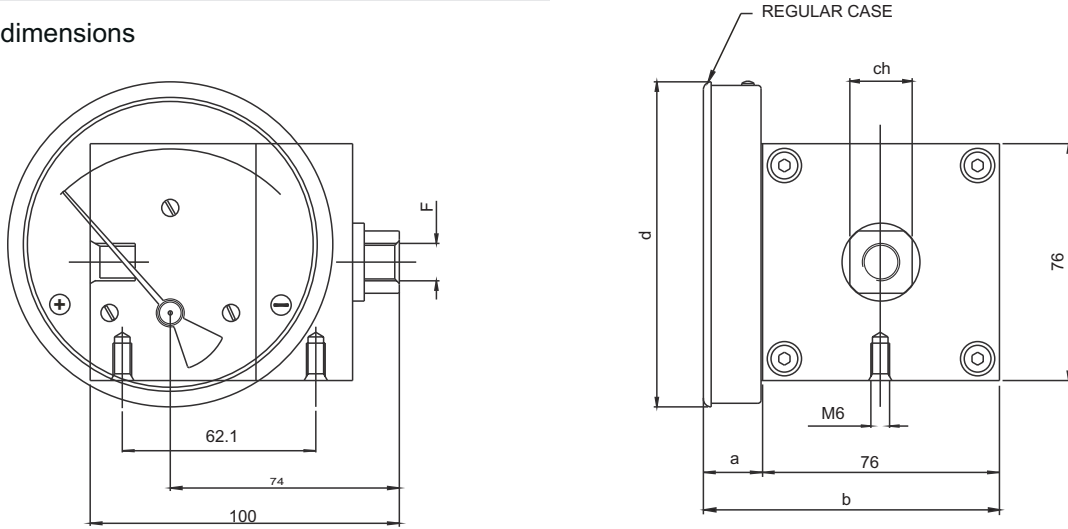
## Order Information

Series/ Dial Size/ Case Materials/ Wetted Parts/ Configuration/ Connection Size/ Thread/ Range/ Option

# PVD Diaphragm Sensing Element for Extra Low Pressure Gauge

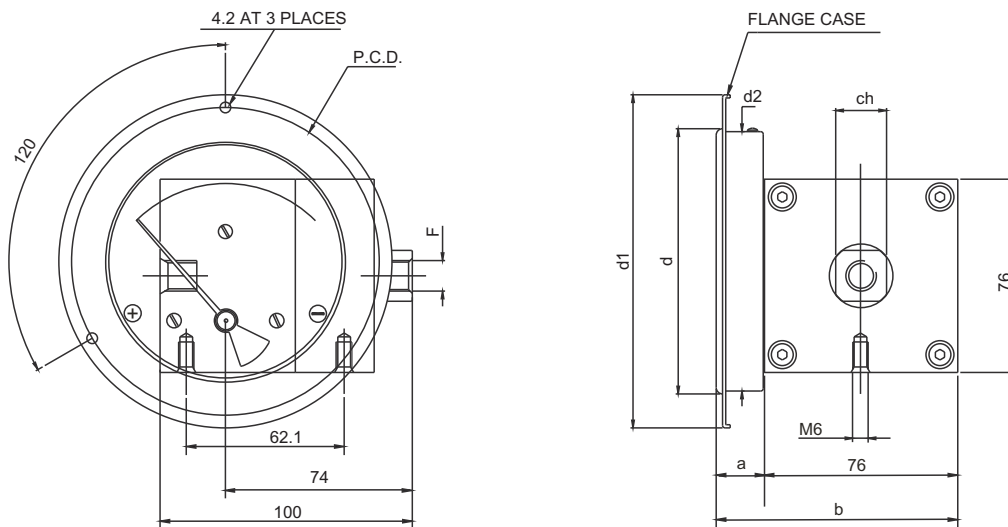
## Dimensions

Standard dimensions



DIAL Ø	F	a	b	d	ch
80 (3.5")	1/4"BSP - 1/4"NPT	19	95	83	20
100 (4")	1/4"BSP - 1/4"NPT	19	95	104.3	20
115 (4.5")	1/4"BSP - 1/4"NPT	19	95	119.7	20
150 (6")	1/4"BSP - 1/4"NPT	19	95	154.3	20

Standard dimensions for flanged type

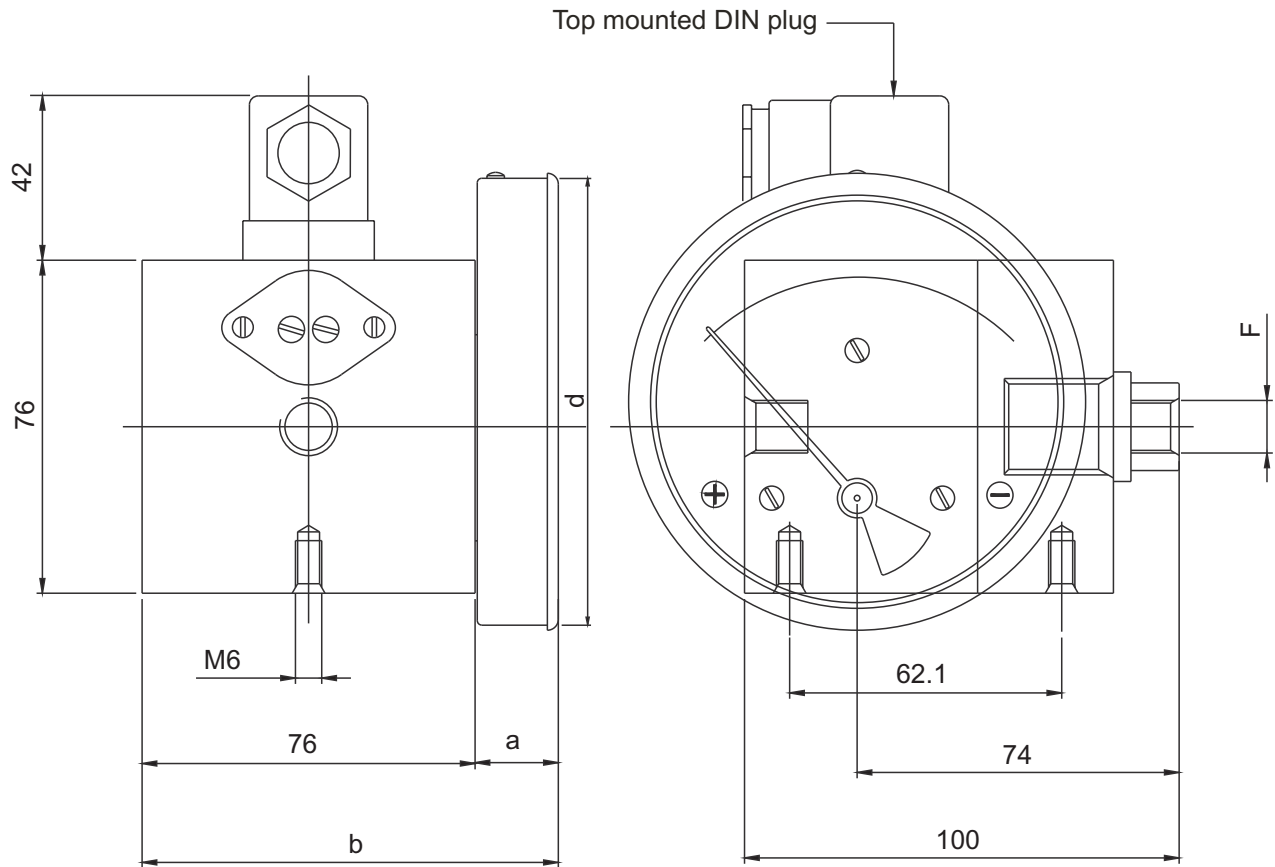


DIAL	F	a	b	d1	d2	ch	P. c. d	d
80 (3.5")	1/4" BSP - 1/4" NPT	19	95	109	82.0	20	99	83.0
100 (4.0")	1/4" BSP - 1/4" NPT	19	95	131	102.0	20	121	104.3
115 (4.5")	1/4" BSP - 1/4" NPT	19	95	146	117.0	20	136	119.7
150 (6.0")	1/4" BSP - 1/4" NPT	19	95	181	152.5	20	171	154.3

\* PANEL CUTOUT = d +1 mm.

# PVD Diaphragm Sensing Element for Extra Low Pressure Gauge

Gauge + Switch with reed contacts & DIN plug



DIAL Ø	F	a	b	d
80 (3.5")	1/4"BSP - 1/4"NPT	19	95	83
100 (4")	1/4"BSP - 1/4"NPT	19	95	104.3
115 (4.5")	1/4"BSP - 1/4"NPT	19	95	119.7
150 (6")	1/4"BSP - 1/4"NPT	19	95	154.3

## Ordering Code PVD

Example	Code	Descriptions																				
<b>Series</b> PVD																						
<b>Type</b> G	G W	Gauge Gauge + Switch																				
<b>Body material</b> A	A S	Aluminium 316 stainless steel																				
<b>Dial size</b> 35	35 40	3.5" (80 mm) 4.0" (100 mm)																				
<b>Connection</b> 4N	4B 4N ZZ	1/4" BSP (Female) (On request, longer lead time) 1/4" NPT (Female) Special connection sizes using adaptor																				
<b>Porting</b> 1	1 2	In-line (Standard) Rear / Back																				
<b>Case type</b> SS	SS SF	SS 304 with a rubber ring (standard) SS 304 flange with a rubber ring (standard flange)																				
<b>Window</b> F	F T	Glass (standard) Toughened glass																				
<b>Seal</b> B	B V	Buna-N (standard) Viton																				
<b>Switch</b> 0	0 1 2 9 3 4 5 6 7 8	None One SPST, with a DIN plug* One SPST, with a terminal strip One SPST, with built in relay Two SPSTs, with a DIN plug* Two SPSTs, with a terminal strip One SPDT, with a DIN plug* One SPDT, with a terminal strip Two SPDTs, with two DIN plugs* Two SPDTs, with a terminal strip																				
		<table border="1"> <tr> <td colspan="2">SPST Specifications</td> </tr> <tr> <td>5 VA AC or DC (max)</td> <td></td> </tr> <tr> <td>175 V AC or DC (max)</td> <td></td> </tr> <tr> <td>0.25 Amp AC or DC (max)</td> <td></td> </tr> <tr> <td colspan="2">Built in relay</td> </tr> <tr> <td>230 V AC, 1 Amps.</td> <td></td> </tr> <tr> <td colspan="2">SPST Specifications</td> </tr> <tr> <td>10 VA AC or DC (max)</td> <td></td> </tr> <tr> <td>150 V AC or DC (max)</td> <td></td> </tr> <tr> <td>0.5 Amp AC or DC (max)</td> <td></td> </tr> </table>	SPST Specifications		5 VA AC or DC (max)		175 V AC or DC (max)		0.25 Amp AC or DC (max)		Built in relay		230 V AC, 1 Amps.		SPST Specifications		10 VA AC or DC (max)		150 V AC or DC (max)		0.5 Amp AC or DC (max)	
SPST Specifications																						
5 VA AC or DC (max)																						
175 V AC or DC (max)																						
0.25 Amp AC or DC (max)																						
Built in relay																						
230 V AC, 1 Amps.																						
SPST Specifications																						
10 VA AC or DC (max)																						
150 V AC or DC (max)																						
0.5 Amp AC or DC (max)																						
<b>Standard Ranges</b> 2.5kPa	mm H <sub>2</sub> O In H <sub>2</sub> O mbar kPa	<table border="1"> <tr> <td>25</td> <td>50</td> <td>125</td> <td>250</td> <td>600</td> </tr> <tr> <td>1</td> <td>2</td> <td>5</td> <td>10</td> <td>25</td> </tr> <tr> <td>-</td> <td>5</td> <td>-</td> <td>25</td> <td>60</td> </tr> <tr> <td>0.25</td> <td>0.5</td> <td>1.25</td> <td>2.5</td> <td>6</td> </tr> </table> <p>Other ranges on request.</p>	25	50	125	250	600	1	2	5	10	25	-	5	-	25	60	0.25	0.5	1.25	2.5	6
25	50	125	250	600																		
1	2	5	10	25																		
-	5	-	25	60																		
0.25	0.5	1.25	2.5	6																		
<b>Options</b> BC	0 A B C D E F G H	None Glycerine filling (Affects accuracy) Red follower pointer on acrylic window (Affects accuracy) Dual scale Colour band Strainer in (+) connection Reverse Port** NACE Silicone Oil*																				

### Limitations for making combinations:

- Glycerine filling will not have follower pointer
- No follower pointer available in 6" (150 mm)

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing, modifications may take place and materials specified may be replaced by others without prior notice.