

## Description & Features

- Cost effective and reliable
- Simple and compact design
- Easy to read dial instrument eliminates accumulated errors of two instruments installations
- Working pressure up to 100 bar
- Differential pressure range up to 4bar
- Zero migration between high and low pressures
- Adjustable reed contact switching
- 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. Determine obstructions in process lines. 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. Balance and adjust flow rates in piping systems. Monitor liquid levels in storage tanks

## Specifications

### Dial Size

2.5"(63mm), 3.5"(80mm), 4"(100mm)  
4.5"(115mm) & 6"(150mm)

### Case

Stainless steel case or flange

### Body Material

316 stainless steel, Aluminium or Brass

### Wetted parts

Diaphragm, ceramic magnet, SS 304 spring

### Connection

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

### Seals

Buna-N (Standard) or Viton

### Porting

In line, Back or bottom

### Migration of media

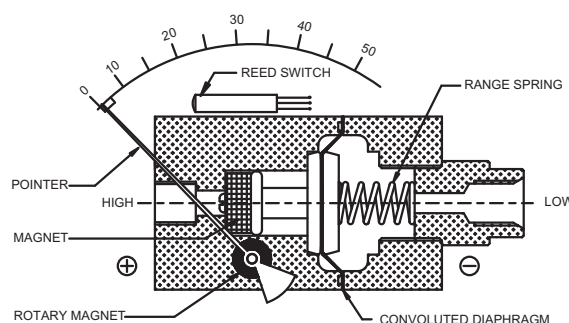
Zero migration between high and low pressures

### Protection

IP 65

### Window

Glass, Acrylic or Toughened glass



### Pressure range

0-0.075 to 0-4 bar (0-1psi to 0-60 psi)

### Working pressure

100 bar / 1500 psi

### 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

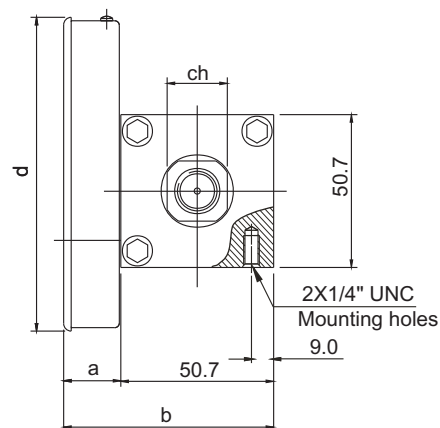
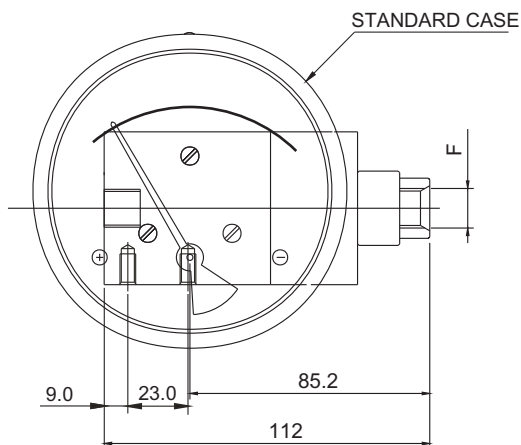
### Options

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

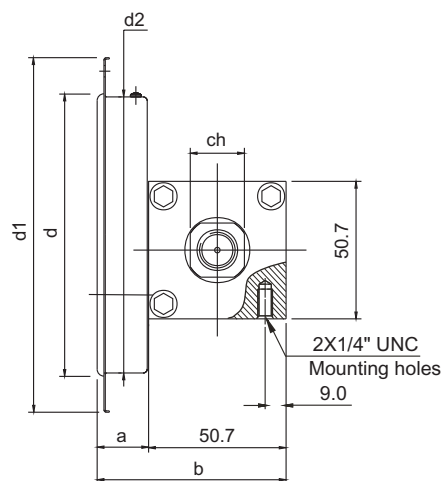
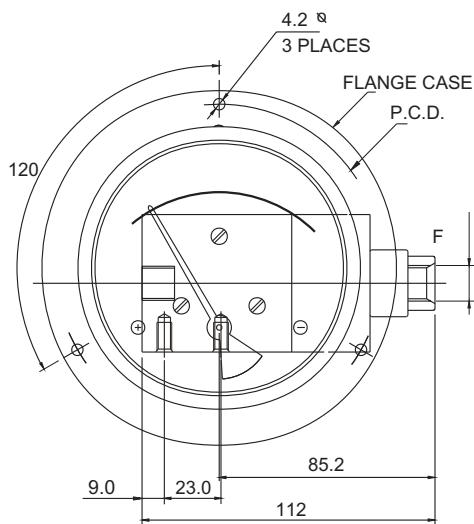
## Order Information

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

## Dimensions



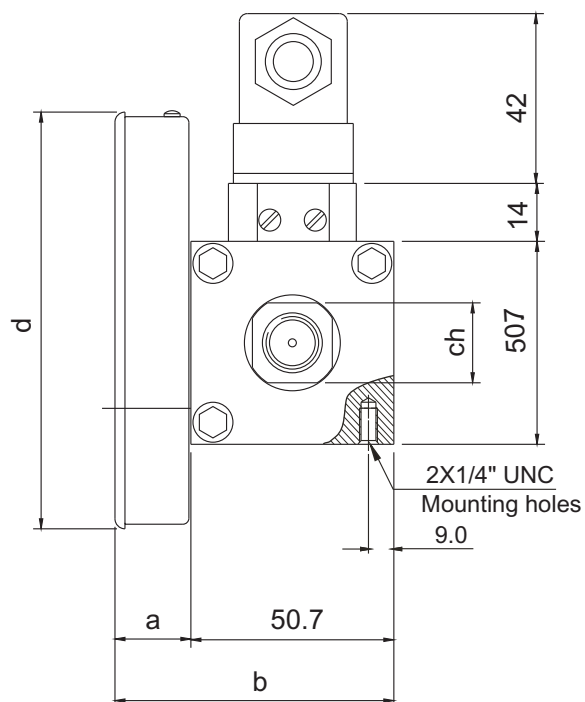
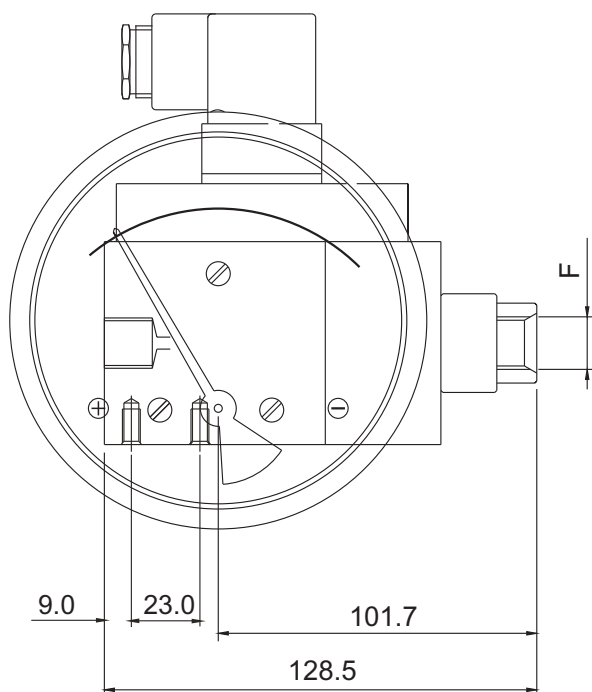
DIAL Ø	F	a	b	d	ch
63 (2.5")	1/4"BSP - 1/4"NPT	19	69.7	66	20
80 (3.5")	1/4"BSP - 1/4"NPT	19	69.7	83	20
100 (4")	1/4"BSP - 1/4"NPT	19	69.7	104.3	20
115 (4.5")	1/4"BSP - 1/4"NPT	19	69.7	119.7	20
150 (6")	1/4"BSP - 1/4"NPT	19	69.7	154.3	20



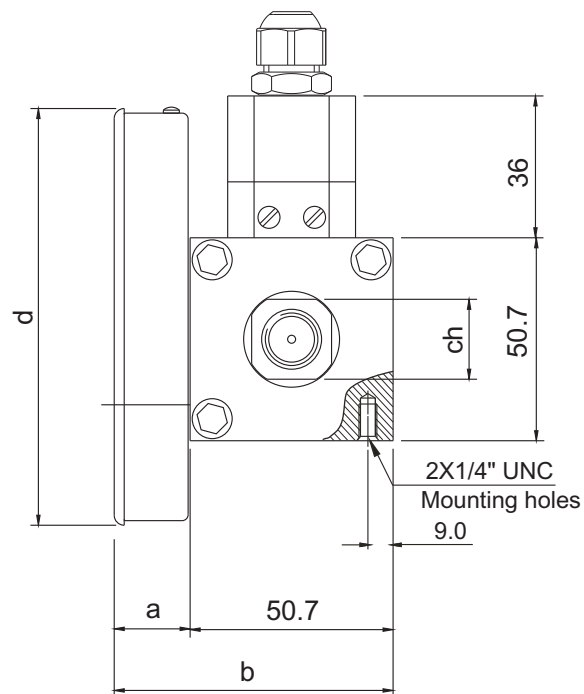
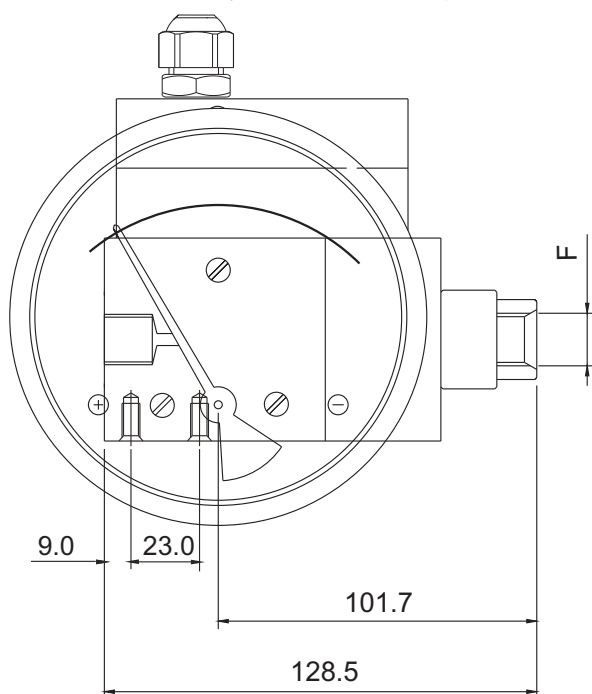
DIAL Ø	F	a	b	d1	d2	ch	p.c.d.	d *
63(2.5")	1/4"BSP - 1/4"NPT	19	69.7	93	65	20	83	66
80(3.5")	1/4"BSP - 1/4"NPT	19	69.7	109	82	20	99	83
100(4")	1/4"BSP - 1/4"NPT	19	69.7	131	102	20	121	104.3
115(4.5")	1/4"BSP - 1/4"NPT	19	69.7	146	117	20	136	119.7
150(6")	1/4"BSP - 1/4"NPT	19	69.7	181	152.5	20	171	154.3

\* PANEL CUTOUT = d + 1

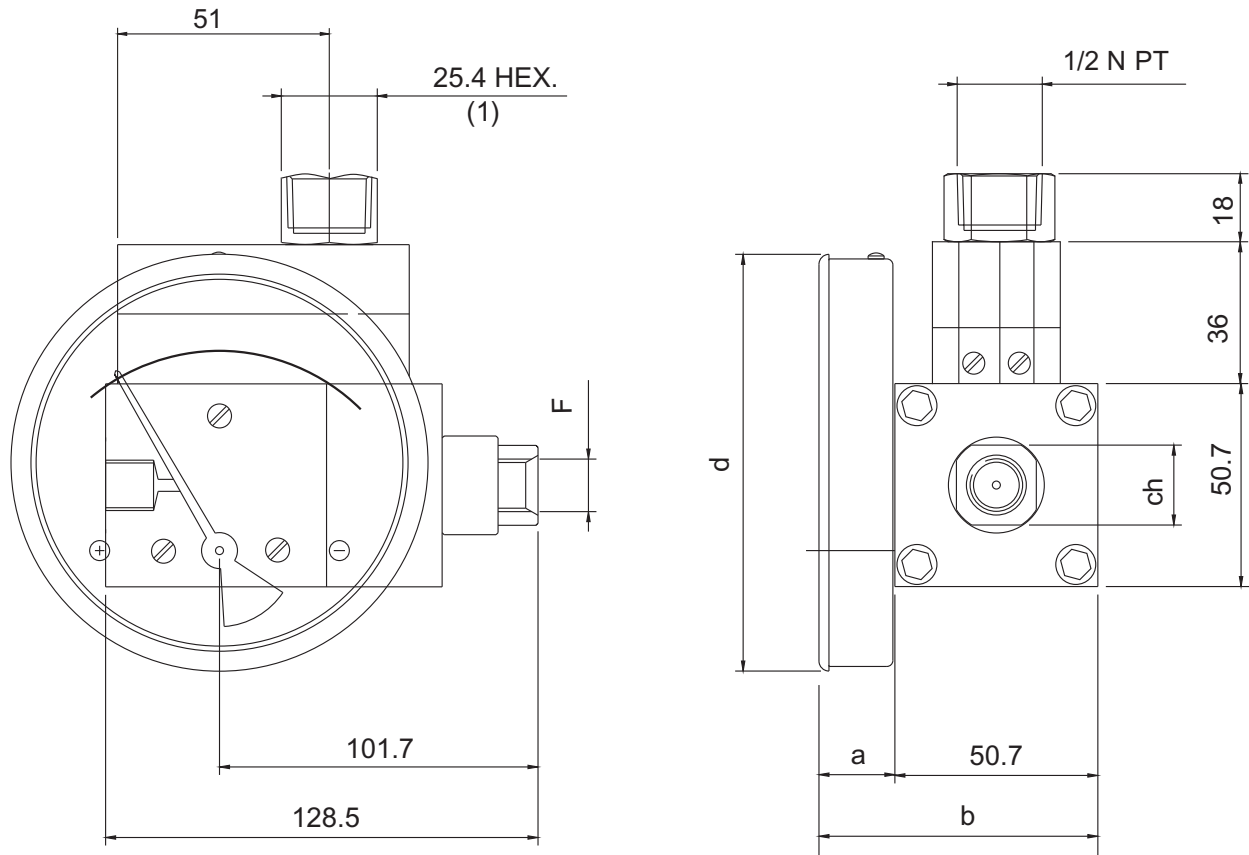
## GAUGE + SWITCH WITH REED CONTACTS WITH DIN PLUG AND TERMINAL STRIP



DIAL Ø	F	a	b	d	ch
63	1/4"BSP - 1/4"NPT	19	69.7	66	20
80	1/4"BSP - 1/4"NPT	19	69.7	83	20
100	1/4"BSP - 1/4"NPT	19	69.7	104.3	20
115	1/4"BSP - 1/4"NPT	19	69.7	119.7	20
150	1/4"BSP - 1/4"NPT	19	69.7	154.3	20



## GAUGE + SWITCH WITH REED CONTACTS WITH TERMINAL STRIP & 1/2" NPT CONDUIT CONNECTION



DIAL Ø	F	a	b	d	ch
63	1/4"BSP - 1/4"NPT	19	69.7	66	20
80	1/4"BSP - 1/4"NPT	19	69.7	83	20
100	1/4"BSP - 1/4"NPT	19	69.7	104.3	20
115	1/4"BSP - 1/4"NPT	19	69.7	119.7	20
150	1/4"BSP - 1/4"NPT	19	69.7	154.3	20

## Ordering Code PSD

Example	Code	Descriptions
Series	PSD	
Type	W	G Gauge W Gauge + Switch
Body material	B	A Aluminium (anodized semi hard) B Brass N Nylon
Dial size	35	25 2.5" (63 mm) 35 3.5" (80 mm) 40 4.0" (100 mm)
Connection	4N	4B 1/4" BSP (Female) (On request, longer lead time) 4N 1/4" NPT (Female) ZZ Special connection sizes using adaptor
Porting	1	1 In-line (Standard) 2 Rear / Back 3 Bottom
Case type	SS	SS SS 304 with a rubber ring (standard) SF SS 304 flange with a rubber ring (standard flange)
Window	A	F Glass (standard) T Toughened glass
Seal	B	B Buna-N (standard) V Viton
Switch	3	0 None 1 One SPST, with a DIN plug* 2 One SPST, with a terminal strip 9 One SPST, with built in relay 3 Two SPSTs, with a DIN plug* 4 Two SPSTs, with a terminal strip 5 One SPDT, with a DIN plug* 6 One SPDT, with a terminal strip 7 Two SPDTs, with two DIN plugs* 8 Two SPDTs, with a terminal strip
Standard Ranges	15psi	Kg/cm bar Mbar psi kPa
Options	BC	0 None A Glycerine filling (Affects accuracy) B Red follower pointer on acrylic window (Affects accuracy) C Dual scale D Colour band E Strainer in (+) connection F Reverse Port** D NACE E Silicone Oil*

**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)

\* DIN plug : we mount it on the top, on the plastic switch cover.  
However we can mount it at the back as a request

0.075	0.25	-	0.5	0.75	1	-	1.6	2	2.5	3	-	4
0.075	0.25	-	0.5	0.75	1	-	1.6	2	2.5	3	-	4
75	250	-	500	750	1000	-	-	-	-	-	-	-
1	-	5	8	-	15	20	25	30	-	40	50	60
-	25	-	50	75	100	-	160	200	250	300	-	400

Other ranges on request.

### 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.