

**SHREEJI**

Helping World to Measure....

**SPP**Polypropylene Case Pressure Gauge (4-1/2")  
Bourdon type**Special Features**

- Polypropylene case with SS measuring system
- Wetted parts AISI 316L stainless steel
- Accuracy  $\pm 1\%$  F.S. (Optional  $\pm 0.5\%$  F.S. On Request)
- Solid front design features baffle wall interposed between the sensing system, the window and a pressure relieving back for increased safety
- Standard followed ASME - B 40.100

**Application**

- Suitable for high pressure gas
- Corrosive / hazardous environment that will not obstruct the pressure system.

**Specifications**

Standard Version : 4 1/2"

Accuracy	:	$\pm 1\%$ F. S. (As per ASME B40.100)
Ambient temperature	:	-20°C to +65°C
Process temperature	:	Max 150°C
Operating pressure range	:	75% of Scale Value
Over pressure limit	:	$\leq 100$ bar : 125% of Max. Scale Value
	:	$> 100$ to $\leq 600$ bar : 115% of Max. Scale Value
	:	$> 600$ to $\leq 1600$ bar : 110% of Max. Scale Value

Case	:	Fibre Glass Reinforced Polypropylene
Bourdon	:	AISI 316L SS
Socket	:	AISI 316L SS
Movement	:	AISI 304 SS
Joints	:	Tig Argon Arc Welding

Protection	:	IP 68
Dial	:	Aluminium, black graduation on white background
Pointer	:	Aluminium, black Coloured, Micrometer Zero Adjustable
Window	:	Toughened Glass
Blow off Disc	:	Stainless Steel
Gasket	:	Neoprene

**Dry But Fillable Version**

Fillable Dampening Liquid	:	Glycerine 99.7%
Ambient Temperature	:	Maximum 65°C
Process Temperature	:	Maximum 65°C
Other Features	:	Refer Specification of Standard Version

**Glycerine Filled Version**

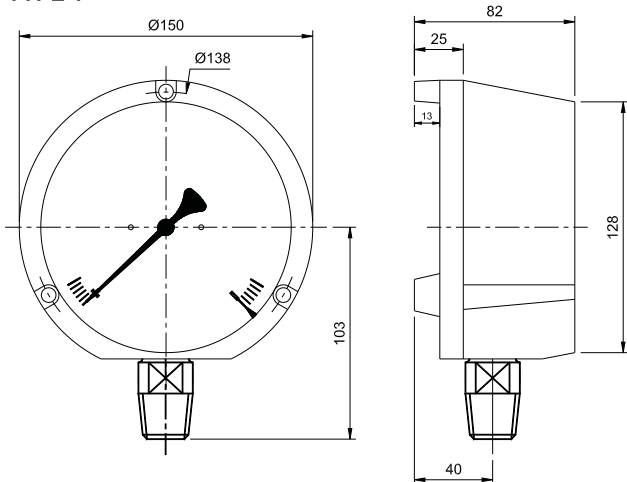
Accuracy	:	$\pm 1.0\%$ of F. S.
Ambient Temperature	:	Maximum 65°C
Process Temperature	:	Maximum 65°C
Dampening Liquids	:	Glycerine 99.7%
	:	(Others available as Option)
Other Features	:	Refer Specification of Standard Version
Protection	:	IP 68

Temperature effect:

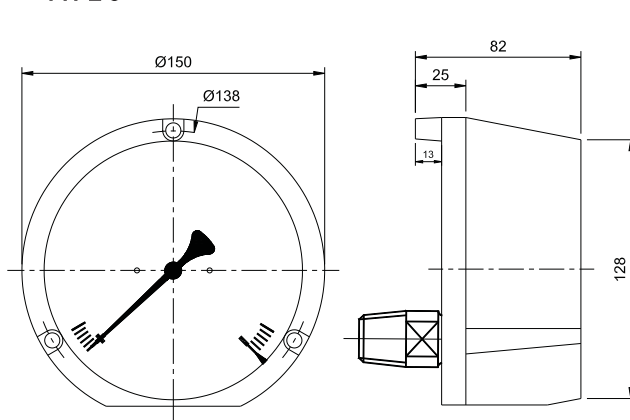
The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement :- Formula :  $\pm 0.04 \times (t_2 - t_1) \%$  of F. S. where  $t_1$  = reference temperature (+20°C) and  $t_2$  = ambient temperature in °C.

## Dimensions - standard version

**TYPE 1**



**TYPE 3**



- Notes :
- Drawings are not to scale.
  - All Dimensions are in mm.
  - Weights mentioned are approximate and for standard product.
  - Weight can be different after selection of options.

Note : We offer National / International Scales like kPa, MPa, bar, psi, kg/cm<sup>2</sup> & Dual Scale like kPa with psi, kPa with bar, bar with psi or Equivalent scales as per the requirement can be provided on request. Following are the example tables for kg/cm<sup>2</sup> & psi scales

### Pressure Range

#### Single Scale (kg/cm<sup>2</sup> or bar)

0/0.6	0/4	0/25	0/160	0/1000
0/1	0/6	0/40	0/250	0/1600
0/1.6	0/10	0/60	0/400	
0/2.5	0/16	0/100	0/600	

#### Dual Scale (kg/cm<sup>2</sup> with psi)

psi	kg/cm <sup>2</sup>	psi	kg/cm <sup>2</sup>	psi	kg/cm <sup>2</sup>
0/15	0/1	0/400	0/28	0/4000	0/280
0/30	0/2	0/500	0/35	0/5000	0/350
0/60	0/4	0/600	0/40	0/6000	0/400
0/100	0/7	0/1000	0/70	0/10000	0/700
0/150	0/10	0/1500	0/100	0/15000	0/1000
0/230	0/16	0/2300	0/160	0/23000	0/1600
0/300	0/20	0/3000	0/200		

### Vacuum & Compound Range

Dual Scale					
inHg with psi	mmHg with kg/cm <sup>2</sup>	inHg with psi	mmHg with kg/cm <sup>2</sup>	inHg with psi	mmHg with kg/cm <sup>2</sup>
- 30/0	- 760 / 0	- 30/60	- 760 / 3	- 30/200	- 760 / 15
- 30/15	- 760 / 1	- 30/100	- 760 / 6	- 30/300	- 760 / 20
- 30/30	- 760 / 2	- 30/150	- 760 / 9	- 30/350	- 760 / 24
Single Scale (kg/cm <sup>2</sup> )					
- 1/0	- 1/1.5	- 1/5	- 1/15		
- 1/0.6	- 1/3	- 1/9	- 1/24		

### Accessories (Refer Datasheet for complete specifications)

<b>CT</b> Cooling tower	<b>GC</b> Gauge cock	<b>GS</b> Over load protector (gauge saver)**
<b>*</b> Needle valve	<b>SN</b> Snubber	<b>SP</b> Siphon

\* Refer catalogue for Valves & Manifolds. \*\* For Pressure Ranges.