



# B. P. PRESSURE GAUGE COMPANY

*Don't take pressure, we will handle it...*

Manufacturer & Suppliers

# Products



Industrial Pressure Gauge (MS/ALL SS)



Commercial Pressure Gauge (SS)



Commercial Pressure Gauge (MS)



Diaphragm Pressure Gauge



Capillary Type Dial Thermometer



Stem Type Dial Thermometer



MMWC Pressure Gauge



Back Connection Panel Mounting Pressure Gauge (MS)



Lower BackConnection Pressure Gauge (MS/All SS)

## Glycerin Filled Gauges



- **Nominal Size:** 40 / 50 / 63 / 100 / 150 / 200 & 250 mm
- **Accuracy:**  $\pm 1\%$  of Full Scale
- **Case & Bezel:** SS 304, Crimp / Snap Action Bayonet type
- **Wetted Parts:** SS 304, SS 316 & Brass
- **Mounting:** Bottom / Surface / Panel / Flush Mounting
- **Scale Range:** Vacuum, Compound & Pressure up to 2500 Kg/cm<sup>2</sup>
- **Application:** Where Vibration & Pulsation are destructive factors

## Weatherproof Gauges



- **Nominal Size:** 40 / 50 / 63 / 100 / 150 / 200 & 250 mm
- **Accuracy:**  $\pm 1\%$  of Full Scale
- **Case & Bezel:** SS 304, Crimp / Snap Action Bayonet type
- **Wetted Parts:** SS 304, SS 316 & Brass
- **Mounting:** Bottom / Surface / Panel / Flush Mounting
- **Scale Range:** Vacuum, Compound & Pressure up to 2500 Kg/cm<sup>2</sup>
- **Application:** Generally used for Corrosive Gases & Liquid Media



## Diaphragm Sealed Gauges

- **Nominal Size:** 50 / 63 / 100 / 150 / 200 & 250 mm
- **Accuracy:**  $\pm 1.6\%$  of Full Scale
- **Case & Bezel:** SS 304, Snap Action Bayonet type
- **Wetted Parts:** SS 304, SS 316, SS 316L, Monel, Hastelloy 'C'
- **Mounting:** Bottom / Surface / Panel / Flush Mounting
- **Scale Range:** Vacuum, Compound & Pressure up to 1000 Kg/cm<sup>2</sup>
- **Application:** Generally used for Slurry & Hot Pressure Media



## Schaffer + Capsule Gauge + Low Pressure Diaphragm

- **Nominal Size:** 100 / 150 / 200 & 250 mm
- **Accuracy:**  $\pm 1.6\%$  of Full Scale
- **Case & Bezel:** SS 304, Crimp / Snap Action Bayonet type
- **Wetted Parts:** SS 304, SS 316, SS 316L
- **Mounting:** Bottom
- **Scale Range:** 250 to 6000 mmW.C.....1 to 21 Kg/cm<sup>2</sup>
- **Application:** Generally used for Low Pressure Measurement & Slurry Media



## MS/SS Utility Gauges

- **Nominal Size:** 50, 63, 80, 100, 150, 200 & 250 mm
- **Accuracy:**  $\pm 2\%$  of Full Scale
- **Case & Bezel:** Drawn Steel Black Powder Coated / SS304
- **Wetted Parts:** Copper Alloy (Brass)
- **Mounting:** Bottom / Surface / Panel
- **Scale Range:** Vacuum, Compound & Pressure up to  $1000 \text{ Kg/cm}^2$
- **Application:** Pneumatic Control System, Air Conditioning System & Pumps etc.



## Precision Master + Test Gauges

- **Nominal Size:** 150, 200 & 250 mm
- **Accuracy:**  $\pm 0.25\%$  &  $\pm 0.5\%$  of Full Scale
- **Case & Bezel:** SS 304, Snap Action Bayonet type
- **Wetted Parts:** SS 304, SS 316L
- **Mounting:** Bottom / Surface / Panel / Flush Mounting
- **Scale Range:** Vacuum, Compound & Pressure up to  $1000 \text{ Kg/cm}^2$
- **Application:** Used for Re-Calibration of Pressure Instruments & Lab Application



## Mercury + Bi-Metal Temp. Gauges

- **Nominal Size:** 63, 100, 150, 200 & 250 mm
- **Accuracy:**  $\pm 1\%$  &  $\pm 1.6\%$  of Full Scale
- **Case & Bezel:** SS 304, Snap Action Bayonet Type
- **Wetted Parts:** SS 304, SS 316
- **Mounting:** Bottom / Surface / Panel / Flush Mounting / Remote
- **Scale Range:**  $-30^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  to  $650^{\circ}\text{C}$  or Equivalent  $^{\circ}\text{F}$
- **Application:** In all Process Industries for Temp. Measurement

## Pressure Gauges Accessories



- **Snubber:** For suppressing the effect of sudden pressure pulses and fluctuation of pressure peaks
- **Gauge Saver:** Used for protecting pressure gauges against exceed pressure
- **Syphon:** Pressure gauge siphons protect gauges from the effect of rapid pressure surges and hot pressure media
- **Gauge Cock:** Shut-off device for pressure gauges, for measurement of liquids, gases and steam
- **Needle Valve:** Intended to isolate the pressure gauge from the measured fluid or to provide a means of throttling or dampening pressure pulsation
- **Manifold Valve:** Manifold is intended for isolating & pressure equalizing
- **Thermowell:** Serves as a protective barrier between a thermometer and the process media

## Special Features

- Stainless steel case & measuring system
- Socket directly welded to case
- Liquid filled version
- Standard followed EN 837-1

## Application

- Pumps
- Diesel engines & Refrigerating plants - Chemical & Petrochemical industries
- Environments & gaseous or liquid media that will not obstruct the pressure system
- Hydro-cleaning machines
- Presses
- Engine compressions



## Specifications

- **Standard Version:** 100 mm & 150 mm
- **Accuracy:**  $\pm 1.6\%$  of F. S.
- **Ambient temperature:**  $-25^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$
- **Process temperature:** Max  $300^{\circ}\text{C}$
- **Operating pressure range:** 75% of Scale Value

## Over pressure limit

< 100 bar: 125% of Max. Scale Value

$\geq 100$  to < 600 bar: 115% of Max Scale Value

$\geq 600$  to < 700 bar: 110% of Max Scale Value

**Case & Bezel:** AISI 304 SS

**Bourdon:** AISI 316 SS

**Socket (Directly Welded to Case):** AISI 304 SS / AISI 316 SS

**Movement (Optional SS 304):** Brass Plated

**Joints:** Tig Argon Arc Welding



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## Specifications

**Standard Version:** 100 mm & 150 mm

**Accuracy :**  $\pm 1.6\%$  of F. S.

**Ambient temperature :**  $-25^{\circ}\text{C}$  to  $+ 65^{\circ}\text{C}$

**Process temperature :** Max  $300^{\circ}\text{C}$

**Operating pressure range :** 75% of Scale Value

**Over pressure limit :**  $< 100$  bar : 125% of Max. Scale Value

**$\geq 100$  to  $< 600$  bar :** 115% of Max Scale Value

**$\geq 600$  to  $< 700$  bar :** 110% of Max Scale Value

**Case & Bezel :** AISI 304 SS

**Bourdon :** AISI 316 SS

**Socket (Directly Welded to Case) :** AISI 304 SS/AISI 316 SS

**Movement (Optional SS 304) :** Brass Plated

**Joints :** Tig Argon Arc Welding



**Dial** : Aluminium, black graduation on white background

**Pointer** : Aluminium, black coloured

**Window** : Crystal Clear Acrylic / Flexi Glass for NS 100 & Sheet Glass for NS 150

**Gasket & filling plug** : Neoprene

**Dampening Liquids** : Glycerine 99.7%

**Ambient Temperature** : Maximum 65°C

**Process Temperature** : Maximum 100°C

### Temperature effect

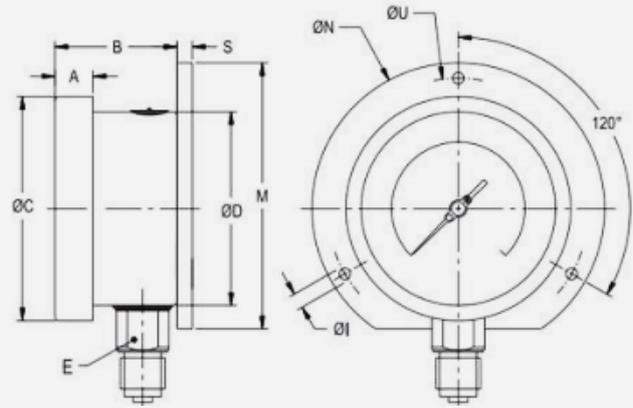
The variation of indication caused by effects of temperature is to be calculated by below formula; which needs to be added in the specified accuracy while measurement.

**Formula:**  $\pm 0.04 \times (t_2 - t_1) \% \text{ of F. S}$  where  $t_1$  = reference temperature (20°C) and  $t_2$  = ambient temperature in °C.



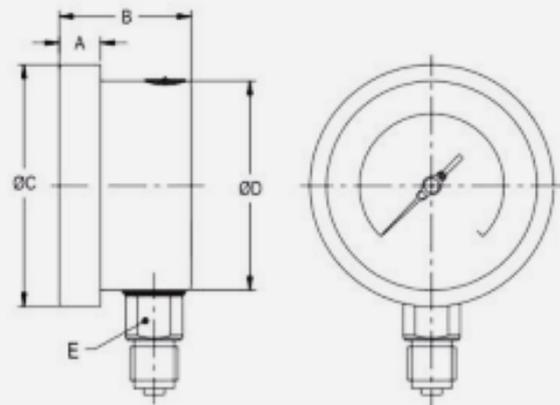
# Technical Specification

## Bottom Surface Mounting



NS	A	B	ØC	ØD	E	M	S	ØI	ØN	ØU	Weight in gram (With Box)	Weight in gram (With Glycerin)
100	6.5	35	100	100	17	128	5	6	134	118	450	650
150	15	40	161	149	17	174.5	5	6	186	168	850	1250

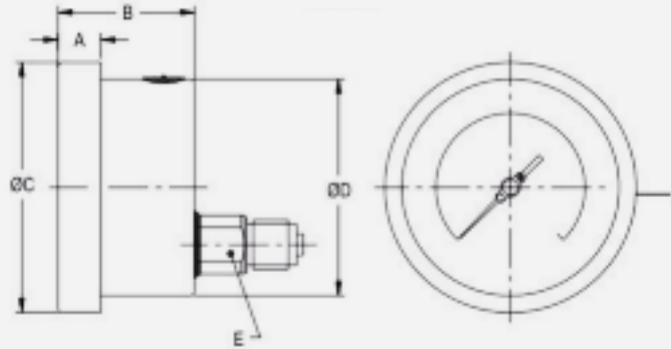
## Bottom Direct Mounting



NS	A	B	ØC	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	6.5	35	111	100	17	430	630
150	15	40	161	149	17	800	1400

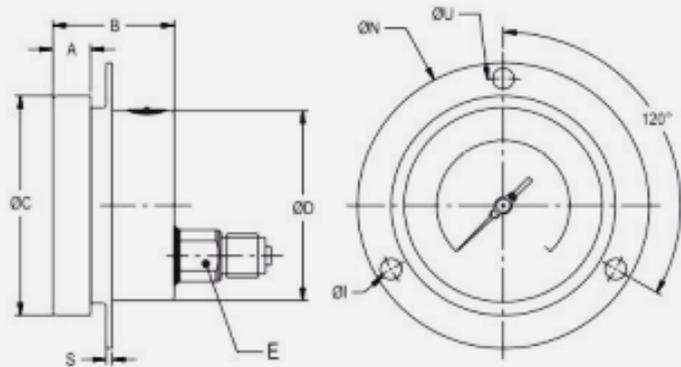
## Technical Specification

### Lower Back Mounting



NS	A	B	ØC	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	35	111	100	17	430	630
150	15	40	161	149	17	800	1400

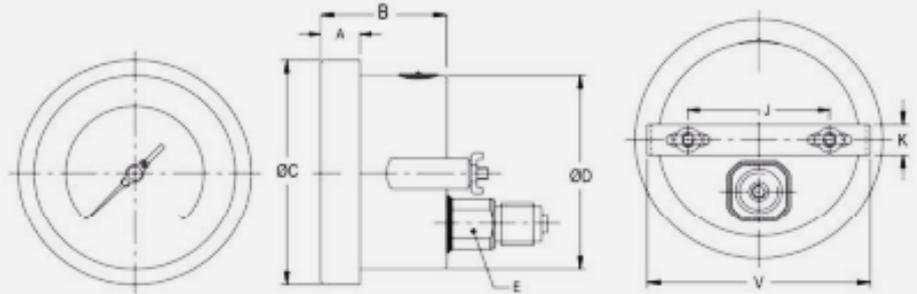
### Lower Back Mounting (with Panel)



NS	A	B	ØC	ØD	E	M	S	ØI	ØN	ØU	Weight in gram (With Box)	Weight in gram (With Glycerin)
100	6.5	35	100	100	17	128	5	6	134	118	450	650
150	15	40	161	149	17	174.5	5	6	186	168	850	1250

## Technical Specification

### Lower Back Mounting (with Bracket)



NS	A	B	ØC	ØD	E	J	K	V	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	35	111	100	17	62	16	108	450	650
150	15	45	161	149	17	100	16	166	850	1250

## Range Table

**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 pai 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.**

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

psi	kg/cm <sup>2</sup>	psi	kg/cm <sup>2</sup>
0/0.6	0/4	0/25	0/160
0/1	0/6	0/40	0/250
0/1.6	0/10	0/60	0/400
0/2.5	0/16	0/100	0/600

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

psi	kg/cm <sup>2</sup>	psi	kg/cm <sup>2</sup>	psi	kg/cm <sup>2</sup>
0/15	0/1	0/30	0/2	0/60	0/4
0/100	0/7	0/150	0/10	0/200	0/14
0/300	0/20	0/400	0/28	0/600	0/40
0/1000	0/70	0/1500	0/100	0/2000	0/140

## Vacuum & Compound (inHg with psi & mmHg with kg/cm<sup>2</sup>)

inHg/psi	kg/cm <sup>2</sup>	mmHg/psi	kg/cm <sup>2</sup>
-30/15	-1/1	-760/15	-1/1
-30/30	-1/2	-760/30	-1/2
-30/60	-1/4	-760/60	-1/4
-30/100	-1/7	-760/100	-1/7

## 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

## Freon (With temperature scale)

Range (psi)	
-30 inHg -150	0-300
-30 inHg -300	0-500

## Ammonia (With temperature scale)

(kg/cm <sup>2</sup> )	(psi)
-1 to 12.5	-30 inHg -150
-1 to 16	-30 inHg -300
-1 to 25	0 - 300

**NOTE :** For temperature scales, please provide refrigerant name.

## Accessories (refer datasheet for complete specification)

- CT Cooling tower
- GS Over load protector ( gauge saver)
- SN Snubber
- GC Gauge cock
- SP Siphon

Needle value SP Siphon

Refer catalogue for values & Manifolds.

For Pressure Ranges.

**NOTE : For Any Non Standard or Special Scale Marketing**



# Team Expertise



**Vishal Khutal**

**Director - Manufacturing,  
Operations & Procurement**



**Raj Patil**

**Director - Marketing &  
Sales**

## EXPERTISE



Expert



Consulting



Brainstorm



Teamwork



Knowledge



Trust



***Don't take pressure, we will handle it...***

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