## S.S. CASE BRASS INTERNAL PRESSURE GAUGE



#### **BOURDON TUBE TYPE**

## **Model - PT**

The Stainless Steel Brass Internal Gauges can be used in every field of Industries for the measurement of Non-agressive and non-crystallizing fluids. The filled version is available to reduce the stresses caused by the vibrations of the Installations, pulsating pressures or water hammers.

#### Special Features:

- Stainless steel case
- Two piece construction design
- Protection IP 65
- Dry or Liquid Filled
- Standard followed in general EN 837-1/ IS 3624



#### Applications:

- Oil
- Water Treatment Plant
- Pneumatics
- Hydraulics
- Pumps & Compressors
- Diesel Engines
- Gaseous / Liquid media that will not obstruct the pressure system

#### **Specifications**

STANDARD VERSION: 63mm & 100mm

Accuracy	: ± 1.6% of F.S.
Ambient temperature	: -25℃ to +65℃
Operating pressure	: 75% of the Scale Value
Over pressure limit	: 125% of Max. Scale Value for Pressure Ranges up to 100 kg/cm²
	: 115% of Max. Scale Value for Pressure Ranges from 100 to 400 kg/cm²

Case	: AISI 304 SS				
Ring	: AISI 304 SS (Rolling Type)				
Bourdon	: Copper Alloy				
Socket	: Copper Alloy				
Movement	: Copper Alloy				

Protection	: IP 65
Dial	: Aluminium, black graduation on white background
Pointer	: Black coloured, Fixed
Window	: Plexi Glass

#### **GLYCERINE FILLED VERSION (OPTION GF)**

Accuracy : ± 1.6% of F.S. Ambient temperature : Maximum 65℃ : Maximum 65℃ **Process Temperature** Window : Plexi Glass **Dampening Liquids** : Glycerine 98% (others available as option) Other Features : Refer Specification of Standard Version

#### 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 :

± 0.04 x (t2 - t1) % of F. S.

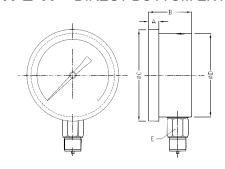
where t1 = reference temperature (+20 $^{\circ}$ C) and t2 = ambient temperature in  $^{\circ}$ C...

## **DIMENSIONS: - FOR STANDARD MODEL**

#### **TYPE 11 TYPE 14 TYPE 31 TYPE 32 TYPE 33**

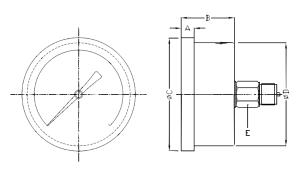
DRAWING OF MODEL (TYPE WISE)

**TYPE 11 - DIRECT BOTTOM ENTRY** 



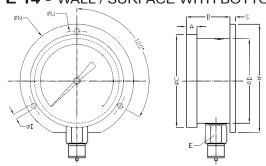
Size	Α	В	øС	Ø D	Е
63	6.5	30	68	62.5	A/F14
100	7	35.5	110	100	A/F17

TYPE 31 - DIRECT CENTER BACK ENTRY



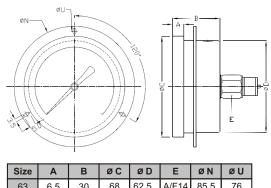
	Size	Α	В	øС	Ø D	Е
	63	4.5	29	57.5	51.5	A/F14
Ì	100	7	35.5	110	100	A/F17

TYPE 14 - WALL / SURFACE WITH BOTTOM ENTRY



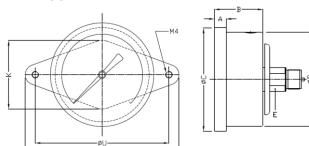
Size	Α	В	øС	ØD	E	S	ØΝ	ØΙ	øU	M
63	6.5	30	68	62.5	A/F14	6	134	5	76	80
100	7	35.5	110	100	A/F17	4	150	6	118	128

TYPE 32 - DIRECT CENTER BACK ENTRY WITH FRONT FLANGE



Size	Α	В	øС	Ø D	Е	ØΝ	øU
63	6.5	30	68	62.5	A/F14	85.5	76

TYPE 33 - DIRECT CENTER BACK ENTRY WITH MOUNTING BRACKET



Size	Α	В	øС	Ø D	Е	J	K	øU
63	6.5	30	68	62.5	A/F14	91	38	70.5

## SELECTION OF MODEL

### (1) MODEL CODE

#### (2) DIAL SIZE

Dial Size	Code
63	2
100	4



PT	PT
2	1

#### (3) MOUNTING TYPE

Mounting Type	Code
DIRECT BOTTOM ENTRY	11
WALL / SURFACE / PROJECTION MOUNTING WITH BOTTOM ENTRY	14
DIRECT CENTER BACK ENTRY	31
DIRECT CENTER BACK ENTRY WITH FRONT FLANGE	32
DIRECT CENTER BACK ENTRY WITH MOUNTING BRACKET	33

#### 11 11

#### (4) GAUGE CONNECTION SIZE

1/4" BSP (M) (STD)	2BM
1/4" BSPT (M)	2TM
1/4" NPT (M)	2NM
1/2" BSP (M) (STD)	4BM

3/8" BSP (M)	3BM
3/8" BSPT (M)	3TM
3/8" NPT (M)	3NM
1/2" NPT (M)	4NM

2BM 4BM

Note:- OTHER OPTIONS WILL BE PROVIDED ON REQUEST. CONSULT FACTORY FOR MORE DETAILS

#### (5) RANGE

#### REFER TO THE FOLLOWING TABLE

L	PSI
	-30inHg - 0
l	0 - 15 psi
l	0 - 100 psi
l	0 - 150 psi
l	0 - 300 psi
l	0 - 600 psi
l	0 - 1000 psi
l	0 - 1500 psi
l	0 - 2200 psi
l	0 - 3000 psi
l	0 - 4000 psi
l	0 - 5000 psi
l	0 - 6000 psi
١	-30inHg - 30
١	-30inHg - 60
١	-30inHg - 100
l	-30inHg - 200
١	-30inHg - 300

Kg/cm <sup>2</sup>
- 760 mmHg - 0
0 - 1 kg/cm <sup>2</sup>
0 - 4 kg/cm <sup>2</sup>
0 - 7 kg/cm²
0 - 10 kg/cm <sup>2</sup>
0 - 16 kg/cm²
0 - 21 kg/cm²
0 - 28 kg/cm <sup>2</sup>
0 - 35 kg/cm <sup>2</sup>
0 - 70 kg/cm²
0 - 100 kg/cm²
0 - 160 kg/cm²
0 - 210 kg/cm <sup>2</sup>
0 - 280 kg/cm <sup>2</sup>
0 - 350 kg/cm <sup>2</sup>
0 - 400 kg/cm <sup>2</sup>
-1 - 10 kg/cm <sup>2</sup>
-1 - 21 kg/cm²

0 - 10 0 - 10 kg /cm² kg/cm<sup>2</sup>

XX

XX

(Othe Pressure UNIT like Bar, kPa, MPa, psi, kg/cm2 or Dual Scale like kg/cm2 with psi, kPa with bar, bar with psi ,etc will be provided on request)

#### (6) OPTIONS

DC CUSTOM DESIGNED DIAL	<b>DB</b> INTEGRAL DAMPENING SCREW (BRASS)
TS SS TAG PLATE	CC FIVE POINT CALIBRATION CERTIFICATE
GF DAMPENING LIQUID GLYCERINE FILLED	HT HELIUM LEAK TEST
OS OXYGEN SERVICE	AA CASE WITH BAYONET TYPE BEZEL*
FG FILLABLE LIQUID GLYCERINE	SG SAFETY GLASS (For Bayonet Type)

Example	1	2	3	4	5	6
SELECTION OF MODEL	PT	2	11	2BM	0 - 10 kg/cm²	Option XX
SELECTION OF MODEL	PT	4	11	4BM	0 - 10 kg/cm²	Option XX

## Below options are provided on request of customer

CE	CE MARKING (AS PER PED 97/23/EC) SS
NC	CONFORMITY AS PER NACE MR 0175
СС	FIVE POINT CALIBRATION CERTIFICATE
HT	HELIUM LEAK TEST
IA	IBR APPROVAL
MC	MATERIAL TEST CERTIFICATE
WV	ON-OFF TYPE VENT PLUG
os	OXYGEN SERVICE
DC	CUSTOM DESIGNED DIAL

## Other Products

- Pressure Switches BETA, Netherland
- Temperature Switches BETA, Netherland
- Flow Meter

- Level Meter
- RTD & Thermocouple
- TP Meter

- Gearless Switches
- Capillary Type Temp.Gauge
- Differential Pressure Gauge

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