POLYPROPYLENE CASE PRESSURE GAUGE



BOURDON TUBE TYPE

Model - PP

Special Features:

- Accuracy ±0.5 % of F.S
- Wetted parts AISI 316L SS
- Solid Front design features baffle wall interposed between the sensing system, the window and a pressure relieving back for increases safety
- Standard followed ASME B 40.100

Applications:

- Suitable for High Pressure Gas
- Corrosive / Hazardous environment that will not obstruct the Pressure System.



Specifications

STANDARD VERSION: 4 1/2"

Accuracy : ± 0.5% of F.S. (As per ASME B40.100)

Ambient temperature : -25°C to +65°C

Process Temperature : Max. 150°C

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 600 kg/cm²

: 110% of Max. Scale Value for Pressure Ranges from 600 to 1600 kg/cm²

Case : Fiber Glass Reinforced Polypropylene

Bourdon : AISI 316L SS

Socket : AISI 316L SS

Movement : AISI 304 SS

Joints : Tig Argon Arc Welding

Protection : IP 65

Dial : Aluminium, black graduation on white background

Pointer : Aluminium, Black coloured, Micrometer Zero Adjustable

Window : Safety Glass

Blow off Disc : Fiber Glass Reinforced Polypropylene

Gasket : Neoprene

GLYCERINE FILLED VERSION (OPTION GF)

Accuracy	: ± 1.0% of F.S.
Ambient temperature	: Maximum 65℃
Process Temperature	: Maximum 65℃
Protection	: IP 65
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.

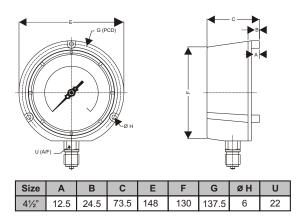
where t1 = reference temperature (+20 $^{\circ}$ C) and t2 = ambient temperature in $^{\circ}$ C...

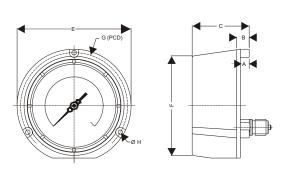
DIMENSIONS: - FOR STANDARD MODEL

TYPE 14 TYPE 21 TYPE 22

DRAWING OF MODEL (TYPE WISE)

TYPE 14 - WALL / SURFACE WITH BOTTOM ENTRY

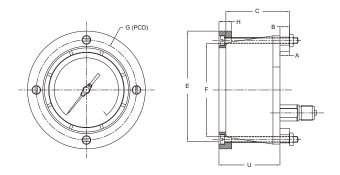




TYPE 21 - DIRECT LOWER BACK ENTRY

Size	Α	В	С	Е	F	G	ØΗ	U
4½"	12.5	24.5	73.5	148	130	137.5	6	22

TYPE 22 - DIRECT LOWER BACK ENTRY WITH FRONT FLANGE



Size	Α	В	С	Ш	F	G	ØΗ	J
4½"	12.5	24.5	73.5	148	130	137.5	6	22

Notes: • Drawings are not to Scale. • All Dimensions are in mm.

SELECTION OF MODEL

(1) MODEL CODE

(2) DIAL SIZE

• /	
Dial Size	Code
4½"	41/2"

(3) MOUNTING TYPE

Mounting Type	Code
WALL / SURFACE / PROJECTION MOUNTING WITH BOTTOM ENTRY	14
DIRECT LOWER BACK ENTRY (Never Fillable)	21
DIRECT LOWER BACK ENTRY WITH FRONT FLANGE	22

(4) GAUGE CONNECTION SIZE

1/4" NPT (M)	2NM
1/2" NPT (M) (STD)	4NM

3/8" BSP (M)	3BM
1/2" BSP (M) (STD)	4BM

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

PP

41/2"

14

4NM

(5) RANGE

Kg/cm²
0 - 0.6 kg/cm²
0 - 1 kg/cm²
0 - 1.6 kg/cm²
0 - 2 kg/cm²
0 - 2.5 kg/cm²
0 - 4 kg/cm²
0 - 6 kg/cm²
0 - 7 kg/cm²
0 - 10 kg/cm²
0 - 16 kg/cm²
0 - 21 kg/cm²

REFER TO THE FOLLOWING TABLE

		_	
Kg/cm ²	Kg/cm ²		Kg/cm ²
0 - 25 kg/cm ²	0 - 350 kg/cm ²		-1 - 9 kg/cm ²
0 - 28 kg/cm ²	0 - 400 kg/cm ²		-1 - 15 kg/cm²
0 - 35 kg/cm ²	0 - 600 kg/cm ²		-1 - 20 kg/cm²
0 - 40 kg/cm ²	0 - 700 kg/cm ²		-1 -24 kg/cm ²
0 - 60 kg/cm ²	0 - 1000 kg/cm ²		
0 - 70 kg/cm ²	0 - 1600 kg/cm ²		
0 - 100 kg/cm ²	-1 - 0 kg/cm ²		
0 - 160 kg/cm ²	-1 - 1 kg/cm²		
0 - 200 kg/cm ²	-1 - 2 kg/cm²		
0 - 250 kg/cm ²	-1 - 3 kg/cm²		
0 - 280 kg/cm ²	-1 - 6 kg/cm ²		

(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	DB	INTEGRAL DAMPENING SCREW (316 SS)
TS	SS TAG PLATE	CC	FIVE POINT CALIBRATION CERTIFICATE
GF	DAMPENING LIQUID GLYCERINE FILLED	HT	HELIUM LEAK TEST
OS	OXYGEN SERVICE	MC	MATERIAL TEST CERTIFICATE

Example	1	2	3	4	5	6
SELECTION OF MODEL	PP	4½"	14	4NM	0-10 kg/cm²	Option XX

NESSTECH INC. INTERNATIONAL SALES DEPARTMENT

1-12-1 Akanehama, Narashino-shi, Chiba 275-0024, JAPAN

PHONE +81-47-453-1182 F A X +81-47-453-0727

■ NESSTECH INSTRUMENTS PVT. LTD (INDIA)

Survey No. 26/2, "G" Type, Global Industrial Park, Near Nahuli Railwaycrossing, Village Valvada, Vapi, Tal Umbergaon, Dist Valsad-396191, Gujrat

TEL: +91-260-299-6920

■ NESS TECHNOLOGY (M) SDN BHD (MALAYSIA)

No. 42A Jalan PUJ 3/8, Taman Puncak Jalil, Bandar Putra Permai, 43300 Seri Kembangan, Selangor

TEL: +603-8940-1134/8940-1059 FAX: +603-8999-4133

0-10 Kg/cm²

XX