

STAINLESS STEEL PRECISION PRESSURE GAUGE

TGI01

APPLICATIONS

- Liquid & gaseous mediums
- Corrosive environments
- Oil & Gas applications
- Chemical & Petrochemical
- Food & Beverages
- Nuclear power plants

FEATURES

- All stainless steel welded construction
- Follows IS 3624 / EN 837-1 / ASME B40.100
- Accuracy as per $\pm 1.0\%$ / CL 1.0 / Grade 1A
- Dry / Fillable / Liquid filled



SS PRECISION PRESSURE GAUGE, TGI01

DESCRIPTION

General

Design : EN 837-1

Accuracy : $\pm 1.0\%$ of full scale

Ambient temperature : -40...+65°C [without dampening liquid]
-40...+65°C [with dampening liquid filled silicon oil]

Service temperature : 300°C max.

Pressure limits : Steady pressure up to FS value
Fluctuating pressure up to 90% of FS value
Short time 130% of FS value for range up to 100 bar
Short time 115% of FS value for range above 100 bar

Weld joints : TIG argon arc welding

Protection class as per EN 837-1 : S1

Material of construction

Sensing element : Bourdon Tube
[<100 bar : C - type , >100 bar : Helical]

Case & Ring material : AISI 304 SS [Bayonet type]

Bourdon tube & Shank : AISI 316L SS / Monel
[Shank welded directly to case for rigidity in vibration field]

Movement mechanism : AISI 304 SS

Dial : Aluminum, black graduation on white background

Pointer : Micro-zero adjustable, aluminum, black powder coated

Gaskets, Blow off disc & filling plug : Neoprene / NBR

Window : Sheet glass / Shatterproof safety glass

Standard version

Dial size : 100 mm / 150 mm / 250 mm

Range : -1 - 0 - 1,600 bar

Mounting pattern : Direct Bottom

Process connection : $\frac{1}{2}$ " NPT (M) / $\frac{1}{2}$ " BSP (M)

Ingress protection : IP 65

Execution : Dry / Dry but fillable

Filled versions

Glycerin

Window : Shatterproof safety glass

Dampening liquid : Glycerin 99.7% / 80% / 60%
[Service temperature -20°C up to 65°C]

Silicon Oil

Window : Shatterproof safety glass

Gasket, Blow off disc & filling plug : NBR / Viton

Dampening liquid : Silicon oil DC 200
[Service temperature -40°C up to 150°C]

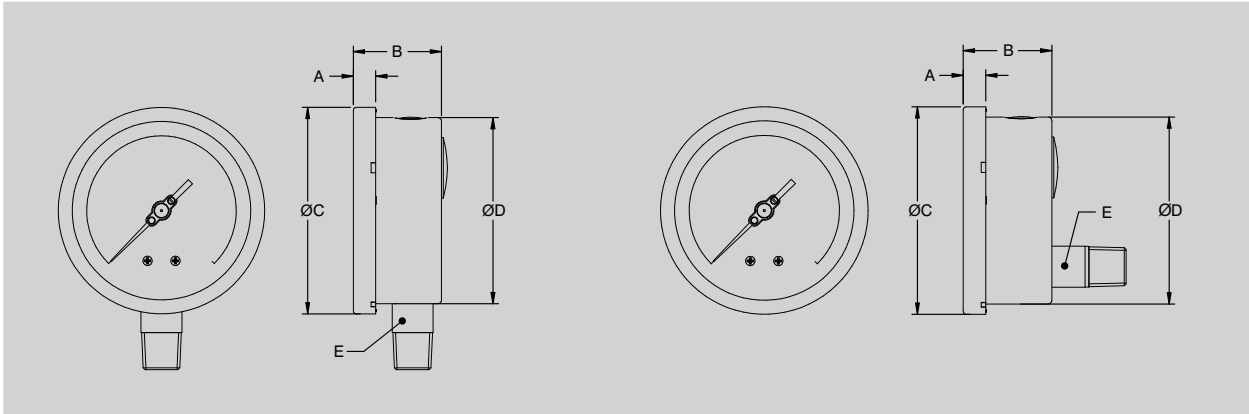
Temperature effect

When temperature of the measuring system deviates from reference temperature (+20°C):
max $\pm 0.4\%$ / 10K of full scale value.

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DIMENSIONAL DRAWING



NS	A	B	ØC	ØD	E
100	12	48	111	100	□22
150	15	48	161	149	□22
250	18.5	50	263	250	□22

NOTES

- Drawing not to scale. All dimensions are in mm.
- For other mounting details, Panel cut-out dimensions, kindly contact factory.

ORDERING CODES

MODEL

TGI01 Stainless steel precision pressure gauge

DIAL SIZE

D4 4" / 100 mm **D6** 6" / 150 mm **D10** 10" / 250 mm

MOUNTING

M1 Direct bottom **M6** Direct lower back **M7** Direct lower back with front flange
M2 Direct bottom with Back flange **M8** Direct lower back with panel mounting clamp

CONNECTION

P4 ¼" NPT (M) **P8** ½" NPT (M) **P20** M20 X 1.5 mm (M)
P3 ¼" BSP (M) **P5** 3/8" BSP (M) **P7** ½" BSP (M)

CASE FILLING

F1 Dry **F2** Dry but fillable **F3** Glycerin filled
F4 Silicon oil filled

WETTED PARTS

S03 AISI 316L SS **S05** MONEL **S01** AISI 304 SS ✓

INGRESS PROTECTION

I1 IP 65 **I3** IP 68

RANGE

0-10 bar Please mention range required with the measurement unit
[TGI offer in all types of National & International measurement units, e.g. kg/cm², psi, kPa, etc. with single or dual scales]

OPTIONAL EXTRAS

E33 AISI 316 SS case & ring	E43 Internal overload stop	E44 Internal Vacuum stop
E04 AISI 316 SS movement	E05 Dampened movement	E06 Maximum Reading pointer
E10 Over range protection 1.5xFS	E12 Epoxy coating (Case & Ring)	E13 Receiver gauge
E16 5 - point calibration certificate	E17 Material test certificate 3.1	E22 Tested to NACE standards
E20 Cleaned for Oxygen service	E26 Accuracy ±0.5%	E27 AISI 304 SS tag plate
E28 AISI 316 SS tag plate	E46 External zero adjustment	E32 Dial tag marking
E31 Custom designed dial		

Ordering Example : TGI01-D4.M1.P8.F2.S03.I1/0-10 bar/E16/E27