

SANITARY PRESSURE GAUGE TGI10

APPLICATIONS

- Sanitary, food & beverages
- Pharmaceutical & paints
- Bacterial & fungal accumulates which contaminates the process

FEATURES

- Integrated gauge seal assembly
- Reduced vibration/pulsation
- Laser welded diaphragm



SANITARY PRESSURE GAUGE, TGI10

DESCRIPTION

General

Design : EN 837-3

Accuracy : $\pm 1.6\%$ of full scale

Ambient temperature: -40...+65°C [without dampening liquid]
-20...+65°C [with dampening liquid]

Service temperature : 10...150°C max.

Pressure limits : Steady pressure up to FS value
Fluctuating pressure up to 90% of FS value
Short time 1.3 x FS value for range up to 100 bar
Short time 1.15 x FS value for range above 100 bar

Weld joints : TIG argon arc welding

Material of construction

Sensing element : Diaphragm

Case & Ring material : AISI 304 SS (Bayonet type)

Diaphragm, Bourdon tube & Shank : AISI 316L SS

Movement mechanism : AISI 304 SS

Dial : Aluminum, black graduation on white background

Pointer : Fixed, aluminum, black powder coated

Gaskets & filling plug : Neoprene

Window : Plexi glass

Standard version

Dial size : DN50 / DN63 / DN100

Range : -1...40 bar

Mounting pattern : Direct, Bottom connection

Process connection : 1½" Sanitary connection

Seal filling fluid : Glycerine [10°C to 150°C]

Ingress protection : IP 65

Execution : Dry / Dry but fillable

Filled versions

Glycerin

Window : Plexi glass

Dampening liquid : Glycerin 99.7%

Temperature effect

When temperature of the measuring system deviates from reference temperature (+20°C) :

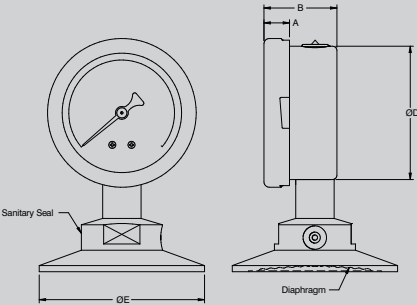
max error $\pm 0.4\%$ / 10K of true scale value.

SANITARY PRESSURE GAUGE

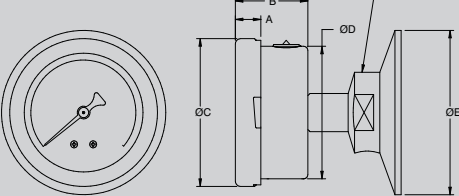
TGI10

DIMENSIONAL DRAWING

Direct bottom



Center back



DN	Clamp Size	A	B	ØC	ØD	ØE
50	1½"	9	34	58.5	51	50.5
	2"	9	34	58.5	51	64
	2½"	9	34	58.5	51	77.5
63	1½"	12	33	69.7	62.5	50.5
	2"	12	33	69.7	62.5	64
	2½"	12	33	69.7	62.5	77.5

NOTES
1. Drawing not to scale. All dimensions are in mm.

ORDERING CODES

MODEL

TGI10 Sanitary Pressure Gauge

DIAL SIZE

D1 2" / 50 mm **D2** 2.5" / 63 mm **D4** 4" / 100 mm

MOUNTING

M1 Direct bottom **M5** Direct center back

CONNECTION

P41 1" Tri-clamp **P42** 1½" Tri-clamp **P43** 2" Tri-clamp
P44 2½" Tri-clamp

CASE FILLING

F1 Dry **F2** Dry but fillable **F3** Glycerin filled

WETTED PARTS

S02 AISI 316 SS **S03** AISI 316L SS

INGRESS PROTECTION

I1 IP 65 **I3** IP 67

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]

OTHER OPTIONS

E16 5 - point calibration certificate **E31** Custom designed dial **E32** Dial tag marking
E17 Material test certificate 3.1 **E21** Material test certificate 2.2 **E28** SS tag plate, AISI 316 SS
E27 SS tag plate, AISI 304 SS **E47** Crimped case & ring

* Suitable Gasket & Clamp assemblies are available. Please contact ITEC.

Ordering Example : TGI10.D2.M1.P42.F2.S02.I1/0-10 bar/E16/E27