

COMMERCIAL PRESSURE GAUGE-SS CASE TGI05-1

APPLICATIONS

- Liquid & gaseous mediums
- Oil & Gas applications
- Food & Beverages

FEATURES

- Follows IS 3624 / EN 837-1 / ASME B40.100
- Accuracy as per $\pm 1.6\%$ / CL 1.6 / Grade A
- Dry / Fillable / Liquid filled



COMMERCIAL PRESSURE GAUGE, TGI05-1

DESCRIPTION

General

Design : EN 837-1

Accuracy : $\pm 1.6\%$ of full scale [63 mm onwards]
 $\pm 2.5\%$ of full scale [50 mm and below]

Ambient temperature : -30...+65°C

Service temperature : 150°C max.

Pressure limits : Steady pressure up to 75% of 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

Joints : Silver alloy brazing / soldering

Material of construction

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

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

Bourdon tube & Shank : Copper Alloy

Movement mechanism : Copper Alloy

Dial : Aluminum, black graduation on white background

Pointer : Fixed, aluminum, black powder coated

Window : Plexi glass / Sheet glass

Standard version

Dial size : 50 mm / 63 mm / 80 mm / 100 mm

Range : -1...0...700 bar

Mounting pattern : Direct Bottom

Process connection : 1/4" NPT (M) / 1/4" BSP (M) / 1/2" NPT (M)

Ingress protection : IP 65

Execution : Dry / Dry but fillable

Filled version

Glycerin

Gaskets & filling plug : Silicon gasket & Neoprene filling plug

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

Silicon Oil

Gasket & filling plug : NBR / Viton

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

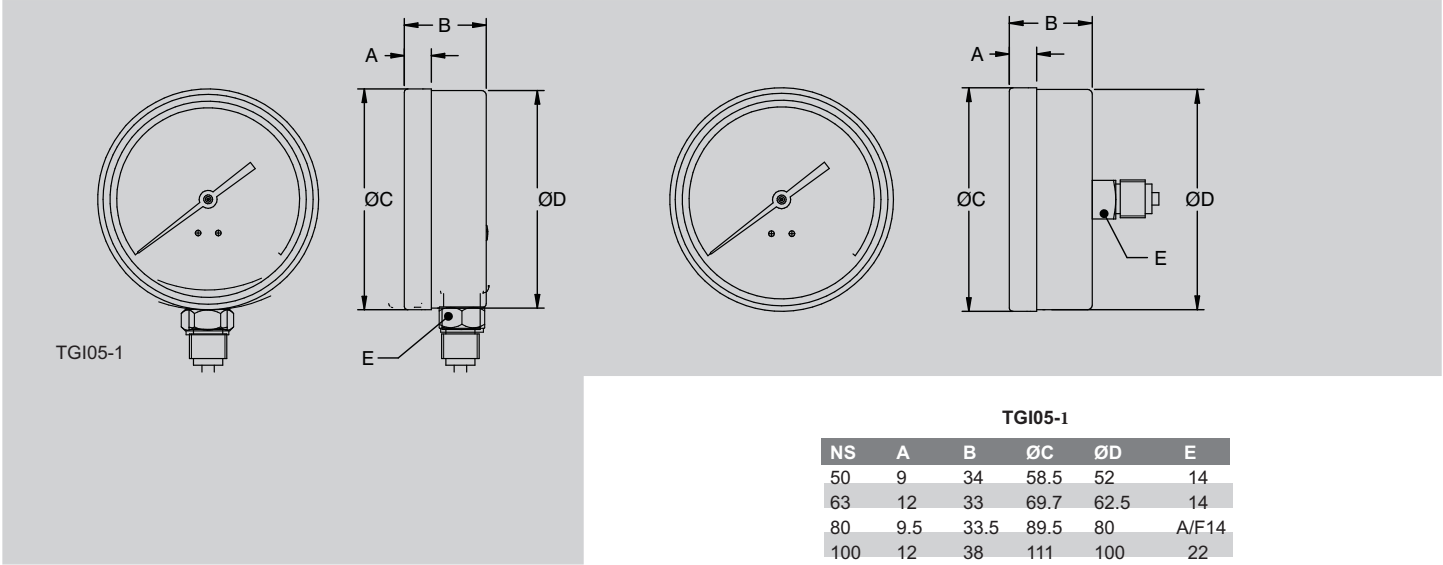
Temperature effect

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

COMMERCIAL PRESSURE GAUGE -SS CASE

TGI05-1

DIMENSIONAL DRAWING



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

ORDERING CODES

MODEL						TGI05-1
TGI05-1 Commercial pressure gauge (SS Case)						
DIAL SIZE						D2
D1	2" / 50 mm		D2	2.5" / 63 mm		
D3	3" / 80 mm					
D4	4" / 100 mm					
MOUNTING						M5
M1	Direct bottom		M9	Direct center back with front flange		
M2	Direct bottom with Back flange		M10	Direct center back with panel mounting bracket		
M5	Direct center back					
CONNECTION						P4
P4	1/4" NPT (M)		P6	3/8" NPT (M)		
P3	1/4" BSP (M)		P5	3/8" BSP (M)		
P1	1/8" BSP (M)		P2	1/8" NPT (M)		
P8	1/2" NPT (M)		P7	1/2" BSP (M)		
CASE FILLING						F1
F1	Dry		F2	Dry but fillable		
F4	Silicon oil filled					
WETTED PARTS						S12
S12	Copper alloy					
INGRESS PROTECTION						I1
I1	IP 65		I5	IP 68		
RANGE						0-10 bar
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						E16/E27
E33	AISI 316 SS case & ring		E12	Epoxy coating (Case & Ring)		
E16	5 - point calibration certificate		E17	Material test certificate 3.1		
E27	AISI 304 SS tag plate		E23	Cleaned for Oxygen service		
E28	AISI 316 SS tag plate		E32	Dial tag marking		

Ordering Example : TGI05-1.D2.M5.P4.F1.S12.I1/0-10 bar/E16/E27