

PHENOLIC CASE SAFETY PRESSURE GAUGE TGI04

APPLICATIONS

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

FEATURES

- Turret design
- Follows ASME B40.100
- Accuracy as per Grade 2A / $\pm 0.5\%$
- Dry / Fillable / Liquid filled



PHENOLIC CASE SAFETY PRESSURE GAUGE, TGI04

DESCRIPTION

General

Design : ASME B40.100

Accuracy : Grade 2A ($\pm 0.5\%$ 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 1500 psi

Short time 115% of FS value for range above 1500 psi

Weld joints : TIG argon arc welding

Material of construction

Sensing element : Bourdon Tube

[<100 bar : C - type , >100 bar : Helical]

Case & Ring material : Phenolic [Screwed type]

Bourdon tube & Shank : AISI 316L SS / Monel

Movement mechanism : AISI 304 SS

Dial : Aluminum, black graduation on white background

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

Gaskets & filling plug : Neoprene / NBR

Blow off disc : PP

Window : Shatterproof safety glass

Standard version

Dial size : 4.5"

Range : -15 - 0 - 23,200 psi

Mounting pattern : Direct Bottom

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

Ingress protection : IP 65

Execution : Dry / Dry but fillable

Filled versions

Glycerin

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

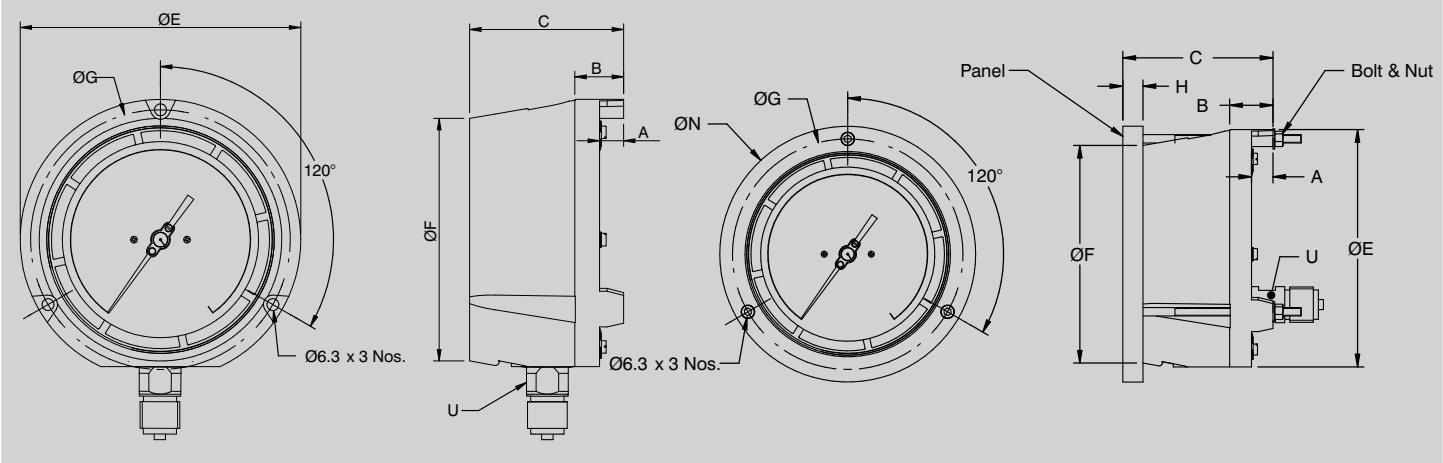
When temperature of the measuring system deviates from reference temperature (+20):

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

PHENOLIC CASE SAFETY PRESSURE GAUGE

TGI04

DIMENSIONAL DRAWING



NS	A	B	C	ØE	ØF	G	H	ØN	U
115	12.5	26	82	149	129	137	12	152	A/F-17

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

ORDERING CODES

MODEL						TGI04			
TGI04 Phenolic case safety pressure gauge									
DIAL SIZE						D5			
D5 4.5" / 115 mm									
MOUNTING						M1			
M1	Direct bottom		M2	Direct bottom with Back flange			M7	Direct lower back with front flange	
CONNECTION						P8			
P4	¼" NPT (M)		P6	3/8" NPT (M)			P8	½" NPT (M)	
P3	¼" BSP (M)		P5	3/8" BSP (M)		P7	½" BSP (M)		
CASE FILLING						F2			
F1	Dry		F2	Dry but fillable			F3	Glycerin filled	
F4	Silicon oil filled								
WETTED PARTS						S03			
S03	AISI 316L SS		M05	MONEL					
INGRESS PROTECTION						I1			
I1	IP 65		I3	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		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	
E23	Cleaned for Oxygen service		E27	AISI 304 SS tag plate			E28	AISI 316 SS tag plate	
E32	Dial tag marking								

Ordering Example : TGI04-D5.M1.P8.F2.S03.I1/0-10 bar/E16/E27