

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, TMC04

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 Gaskets & filling plug : Neoprene / NBR

Blow off disc : PP

Window : Shatterproof safety glass

Standard version

Dial size : 4.5" / 115mm

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

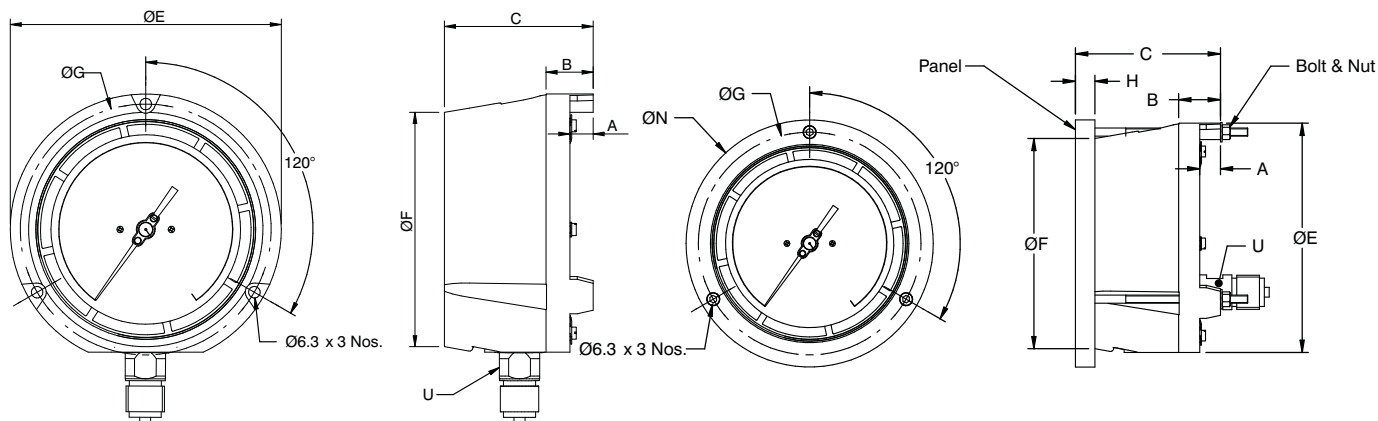
Dampening liquid : Silicon oil DC 200

[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.

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.

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

ORDERING CODES

MODEL				TMC04		Phenolic case safety pressure gauge		TMC04	
DIAL SIZE				D5		4.5" / 115 mm		D5	
MOUNTING				M1		Direct bottom		M1	
				M2		Direct bottom with Back flange			
				M7		Direct lower back with front flange			
CONNECTION				P4		¼" NPT (M)		P8	
				P3		¼" BSP (M)		P7	
				P6		3/8" NPT (M)			
				P5		3/8" BSP (M)			
								P8	
								P7	
CASE FILLING				F1		Dry		F2	
				F4		Silicon oil filled			
				F2		Dry but fillable		F3	
WETTED PARTS				S03		AISI 316L SS		S03	
				M05		MONEL			
INGRESS PROTECTION				I1		IP 65		I1	
				I3		IP 68			
RANGE				0-10 bar		Please mention range required with the measurement unit [TMC offer in all types of National & International measurement units, e.g. kg/cm ² , psi, kPa, etc. with single or dual scales]		0-10 bar	
OPTIONAL EXTRAS				E33		AISI 316 SS case & ring		E16/E27	
				E04		AISI 316 SS movement			
				E10		Over range protection 1.5xFS			
				E16		5 - point calibration certificate			
				E23		Cleaned for Oxygen service			
				E32		Dial tag marking			
				E43		Internal overload stop			
				E05		Dampened movement			
				E12		Epoxy coating (Case & Ring)			
				E17		Material test certificate 3.1			
				E27		AISI 304 SS tag plate			
				E44		Internal Vacuum stop			
				E06		Maximum Reading pointer			
				E13		Receiver gauge			
				E22		Tested to NACE standards			
				E28		AISI 316 SS tag plate			

Ordering Example : TMC04-D5.M1.P8.F2.S03.I1/0-10 bar/E16/E27