

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 $\pm 1.6\%$ / CL 1.6 / Grade A
- Dry / Fillable / Liquid filled



GENERAL PURPOSE SS PRESSURE GAUGE, TMC02

DESCRIPTION

General

Design : EN 837-1

Accuracy : $\pm 1.6\%$ 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 (80 mm & 100 mm)

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 316 SS / 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 / NBR

Window : Plexi glass

Standard version

Dial size : 40mm/50 mm / 63 mm / 80 mm / 100 mm

Range : -1...0...1,000 bar

Mounting pattern : Direct Bottom

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

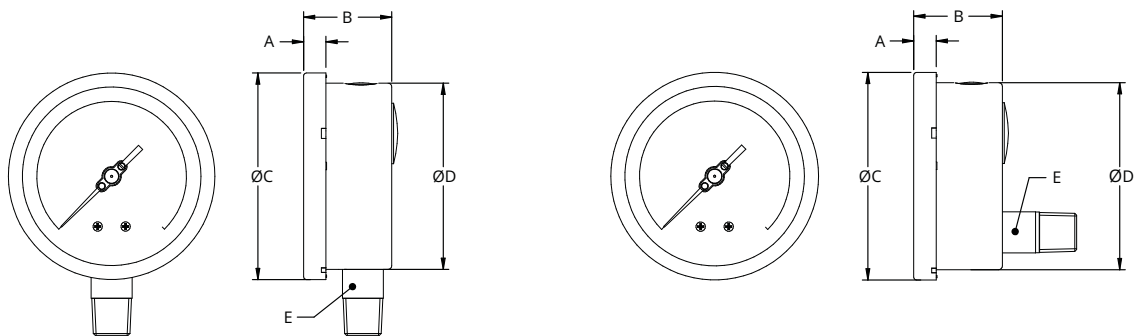
Gasket, Blow off disc & filling plug : NBR / Viton

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.

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	ØC	ØD	E
50	9	34	58.5	52	A/F14
63	12	33	69.7	62.5	A/F14
80	9.5	33.5	89.5	80	A/F14
100	12	38	111	100	A/F14

ORDERING CODES

MODEL						TMC02
TMC02 General purpose stainless steel pressure gauge						
DIAL SIZE						D2
D0	1.5" / 40 mm	D1	2" / 50 mm	D2	2.5" / 63 mm	
D3	3" / 80 mm	D4	4" / 100 mm			
MOUNTING						M1
M1	Direct bottom	M9	Direct center back with front flange (Exp in D1/D3)			
M2	Direct bottom with Back flange (Exp in D1)	M10	Direct center back with panel mounting clamp (Exp in D1/D3)			
M5	Direct center back	M7	Direct lower back with front flange (Exp in D1/D3)			
M6	Direct lower back (Exp in D1)	M8	Direct lower back with panel mounting clamp (Exp in D1/D3)			
CONNECTION						P4
P4	1/4" NPT (M)	P2	1/8" NPT (M)	P8	1/2" NPT (M)	
P3	1/4" BSP (M)	P6	3/8" BSP (M)	P7	1/2" BSP (M)	
P1	1/8" BSP (M)					
CASE FILLING						F3
F1	Dry	F2	Dry but fillable	F3	Glycerin filled	
F4	Silicon oil filled					
WETTED PARTS						S03
S03	AISI 316L SS	S01	AISI 304 SS			
INGRESS PROTECTION						I1
I1	IP 65	I3	IP 67			
RANGE						0-10 bar
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]						
OPTIONAL EXTRAS						E16/E27
E33	AISI 316 SS case & ring	E23	Cleaned for Oxygen service	E06	Maximum Reading pointer (In D2/D4)	
E16	5 - point calibration certificate	E17	Material test certificate 3.1	E28	AISI 316 SS tag plate	
E27	AISI 304 SS tag plate	E32	Dial tag marking			

Ordering Example : TMC02-D2.M1.P4.F3.S03.I1/0-10 bar/E16/E27