

APPLICATIONS

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

FEATURES

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

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



SANITARY PRESSURE GAUGE, TMC10

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

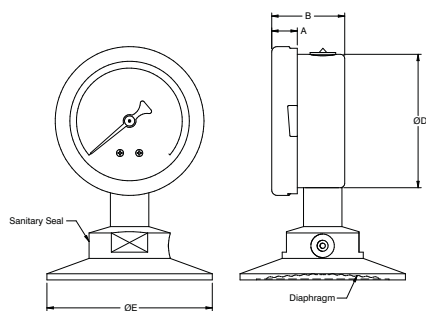
Dampening liquid : Glycerin 99.7%

Temperature effect

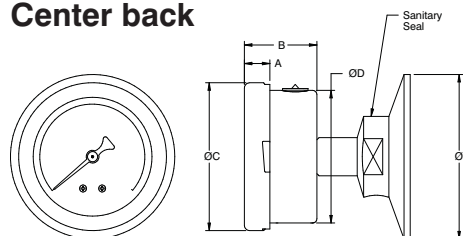
When temperature of the measuring system deviates from reference temperature (+20°C) :
max error $\pm 0.4\%$ / 10K of true scale value.

DIMENSIONAL DRAWING

Direct bottom



Center back



NOTES:

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

DN	Clamp Size	A	B	ØC	ØD	E
50	1½"	9	34	58.5	51	50.5
	2"	9	34	58.5	51	64
	2½"	9	34	58.5	51	77.5
50	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

ORDERING CODES

MODEL						TMC10		
TMC10 Sanitary Pressure Gauge								
DIAL SIZE						D2		
D1	2" / 50 mm		D2	2.5" / 63 mm		D4	4" / 100 mm	
MOUNTING						M1		
M1	Direct bottom		M5	Direct center back				
CONNECTION						P42		
P41	1" Tri-clamp		P42	1½" Tri-clamp		P43	2" Tri-clamp	
P44	2½" Tri-clamp							
CASE FILLING						F2		
F1	Dry		F2	Dry but fillable		F3	Glycerin filled	
WETTED PARTS						S02		
S02	AISI 316 SS		S03	AISI 316L 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/cm², psi, kPa, etc. with single or dual scales]								
OTHER OPTIONS						E16/E27		
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 : TMC10.D2.M1.P42.F2.S02.I1/0-10 bar/E16/E27