

APPLICATIONS

- Sanitary, food & beverages
- Full welded construction
- Zero-leak path design

FEATURES

- Dairy, Ice cream industries
- Pharmaceutical industries
- Sterilization applications
- Oil & Gas applications
- Corrosive environments

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 : TMC 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



FULLY WELDED FLANGED DIAPHRAGM SEAL WITH PRESSURE GAUGE, TMC18-3

Standard version

Dial size : DN100

Range : -1...600 bar

Mounting pattern : Direct, Bottom connection

Process connection : Without mounting flange

Seal filling fluid : Glycerine [10°C to 150°C]

Ingress protection : IP 65

Execution : Dry / Dry but fillable

Filled version

Glycerin

Window : Plexi glass

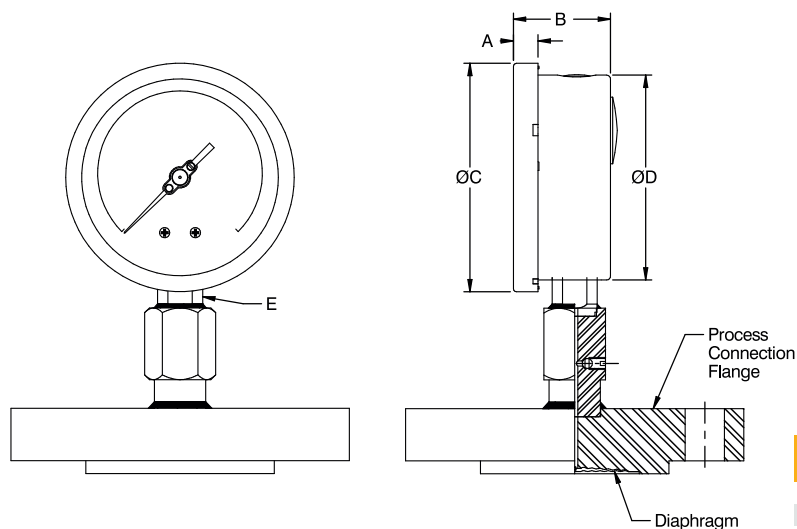
Dampening liquid : Glycerin 99.7%

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



DN	A	B	ØC	ØD	E	Weight (grams)
100	12	48	111	100	SQ.22	5065
150	15	48	161	149	SQ.22	5363

All dimensions are in mm.

ORDERING CODES

MODEL										TMC18-3				
TMC18-3	Fully	Welded	Flanged	Diaphragm	Seal	with	Pressure	Gauge						
DIAL SIZE										D4				
D4	4" / 100 mm				D6	6" / 150 mm								
MOUNTING	M01	Direct Mounting								M1				
FLANGE CONNECTION										FA25				
FA25	1 1/2" RF 150#		FA26	1 1/2" RF 300#		FA27	1 1/2" RF 600#		FA31	2" RF 150#	FA32	2" RF 300#		
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			I6	IP 68									
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									

Ordering Example : TMC18-3.D4.M1.FA25.F2.S02.I1/0-250 bar/E16/E27