

APPLICATIONS

- Sanitary, food & beverages
- Optional electric contacts
- Optional transmitter output
- Filled versions

FEATURES

- Dairy, Ice cream industries
- Pharmaceutical industries
- Sterilization applications

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

**FULLY WELDED DIAPHRAGM SEAL WITH PRESSURE GAUGE, TMC18-2****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

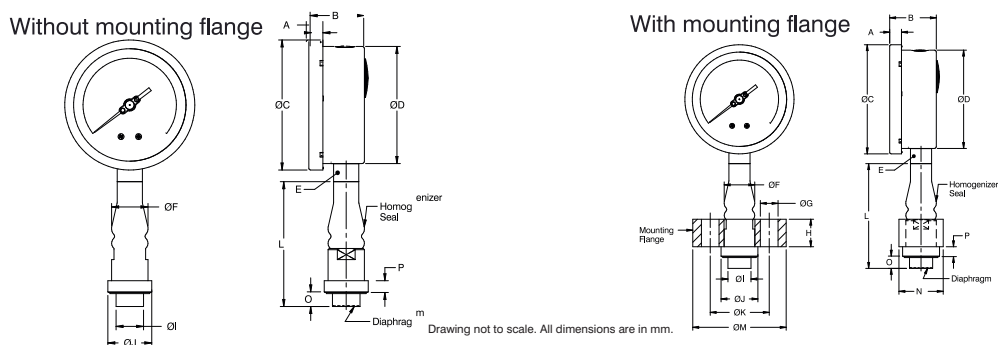
Dampening liquid : Glycerin 99.7%

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



Drawing not to scale. All dimensions are in mm.

DN	A	B	OC	OD	E	F	I	J	L	O	P	Weight (grams)
100	12	48	111	100	SQ.22	31	23.5	37.5	106.5	11	11	1295

DN	A	B	OC	OD	E	OF	G	H	I	J	K	L	M	N	O	P	Weight (grams)
100	12	48	111	100	SQ.22	31	18	28	23.5	37.5	60	106.5	95	45	11	11	1688

NOTES:

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

ORDERING CODES

MODEL

TMC18-2 Fully Welded Diaphragm Seal with Pressure Gauge

TMC18-2

DIAL SIZE

D4 4" / 100 mm

D2

M1

MOUNTING CONNECTION

P41 With mounting flange

P42 Without Mounting Flange

P43 1 1/4" BSP(F) Union Nut

P42

CASE FILLING

F1 Dry

F2 Dry but fillable

F3 Glycerin filled

F2

WETTED PARTS

S02 AISI 316 SS

S03 AISI 316L SS

S02

INGRESS PROTECTION

I1 IP 65

I6 IP 68

I1

RANGE

0-250 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]

0-250 bar

OTHER OPTIONS

E16 5 - point calibration certificate

E31 Custom designed dial

E32 Dial tag marking

E16/E27

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 : TMC18-2.D2.M1.P42.F2.S02.I1/0-250 bar/E16/E27