

FULLY WELDED FLANGED DIAPHRAGM SEAL WITH PRESSURE GAUGE

TGI18-3

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

HOMOGENIZER PRESSURE GAUGE, TGI18-1

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

Standard version

Dial size : DN100

Range : -1...600 bar

Mounting pattern : Direct, Bottom connection

Process connection : Flange

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%

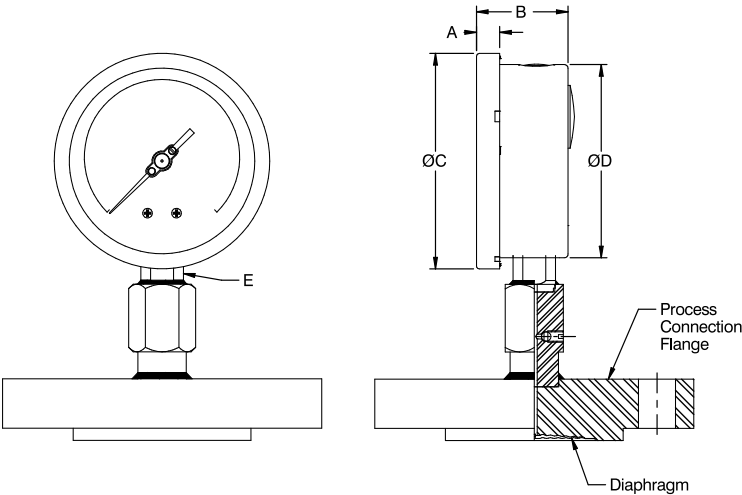
Temperature effect

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

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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										TGI18-2				
TGI18-3 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 [TGI 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 : TGI18-1.D4.M1.FA25.F2.S02.I1/0-250 bar/E16/E27