

Diaphragm Seal

MIEPL make Homogenizer Pressure Gauge are used in Food, Pharma, Dairy and Beverages industrial application. Having access to accurate pressure readings at all times is essential Generally homogenizer gauge is used in food, dairy industry on Homogenizer Machines. Since it is a hygienic application diaphragm seal is used. Further the presence of continuous pulsating media and that too at High Pressure causes failure of ordinary diaphragm gauges.

**FEATURES**

- Optional electric contacts
- Filled version

APPLICATION

- Dairy, Ice cream industries
- Pharmaceutical industries
- Sterilization applications
- Food & Beverages

REFERENCE

- EN 837-1

STANDARD SPECIFICATIONS

Dial size	: DN100
Range	: 0...160 bar [B21], 0...250 bar [B24], 0...400 bar [B27], 0...600 bar [B29]
Mounting pattern	: Direct, Bottom connection
Process connection	: With mounting flange
Seal filling fluid	: Food grade oil
Ingress protection	: IP 65
Execution	: Dampening liquid filled, glycerine

STANDARD PARAMETERS

Accuracy	: CL 1.6
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
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 (Shank welded directly to case)
Movement mechanism	: Dampened movement, AISI 304 SS
Dial	: Aluminum, black graduation on white background
Pointer	: Micro-zero adjustable, aluminum, black powder coated
Gaskets, Blow off disc & filling plug	: Silicon Rubber gasket & Neoprene filling plug
Window	: Plexi glass

STANDARD SPECIFICATIONS : DAMPENING LIQUID FILLED

Window	: Acrylic glass dome
Switch type	: Normally open; Make contact (1NO)

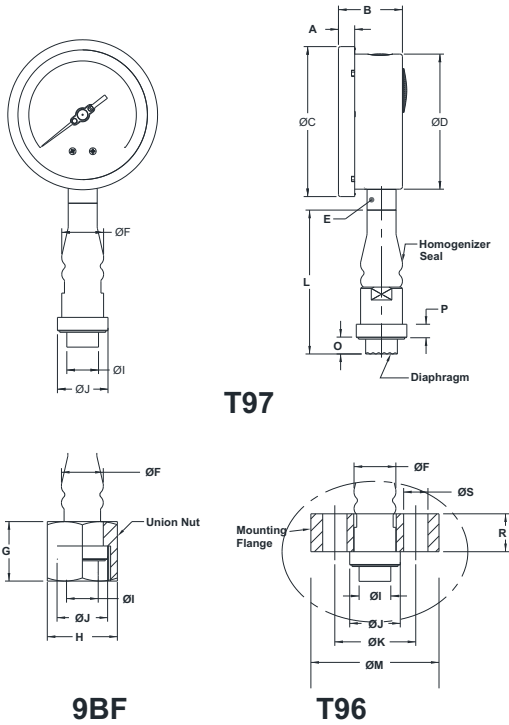
TEMPERATURE EFFECT

Please refer clause no 9.3 of EN 837-1

DRAWING

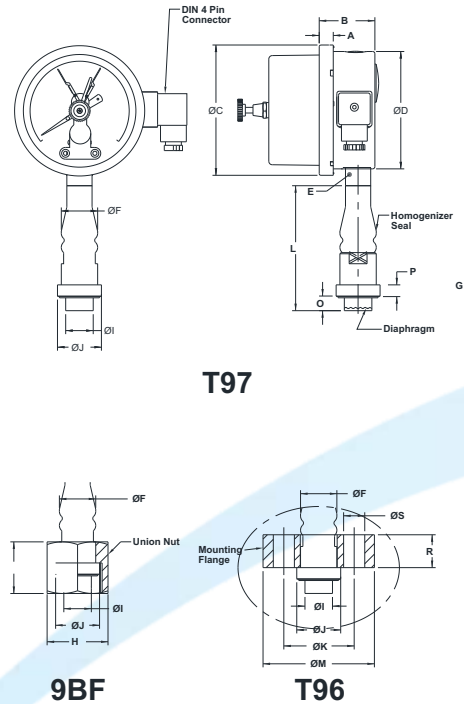
DIMENSIONAL DRAWING

Standard Version



DN	100
A	12
B	48
ØC	111
ØD	100
E	SQ.22
ØF	31
G	44
H	A/F50
I	23.5
J	37.5
K	60
L	106.5
M	95
N	45
O	11
P	11
R	28
ØS	18
Weight (Grams)	1310

Electric contact version



DN	100
A	12
B	48
ØC	111
ØD	100
E	SQ.22
ØF	31
G	44
H	A/F50
I	23.5
J	37.5
K	60
L	106.5
M	95
N	45
O	11
P	11
R	28
ØS	18
Weight (Grams)	1310

All dimensions are in mm.

ORDERING CODE

MP25 - D - XXX - 1A - T96 - IP2 - E2

1. DIAL SIZE	100 mm / 4"	D				
	63 mm / 2.5"	C				
2. RANGE	Refer "Range Table"		XXX			
3. MOUNTING PATTERN	Direct Bottom connection			1A		
4. PROCESS CONNECTION	With mounting flange				T96	
	Without mounting flange				T97	
	1¼" BSP (F) Union Nut					9BF
	Other thread size and standards available on request ¹					
5. INGRESS PROCESS	IP 65					IP2
	IP 66					IP3
	IP 67					IP4
6. EXECUTION	Dry but fillable					E2
	Dampening liquid filled, glycerine ²					E4
7. SWITCH CATEGORY	Precision contacts					PRE C
8. ELECTRIC CONTACT	Break contact (1NC)					ECS1
	Make contact (1NO)					ECS2
	2 x Break contact (2NC)					ECS3
	2 x Make contact (2NO)					ECS4
	1 Break + 1 Make (1NC+1NO)					ECS5
	1 Make + 1 Break (1NO+1NC)					ECS6
9. OTHER OPTIONS	Maximum reading pointer	FW	Material test certificate 3.1	SC	SS tag plate, AISI 316 SS	WG
	Rubber parts, Viton	QA	Material test certificate 2.2	SM	Custom designed dial	WR
	5 - point calibration certificate	SA	SS tag plate, AISI 304 SS	WF	Dial tag marking	WT

Ordering Example: **MP25 - D - XXX - 1A - T96 - IP2 - E2**

1. For other connections, please contact factory.
2. Rubber parts shall be in Viton.