

Double Diaphragm

MIEPL make High Safety Pressure Gauges are based on the proven Bourdon tube measuring system. On pressurization, the deflection of the Bourdon tube, proportional to the incident pressure, is transmitted to the movement via a link and indicated. The modular design enables a multitude of combinations of case materials, process connections, nominal sizes and scale ranges. This widely used for Petrochemical Industries and Gaseous applications.



FEATURES

- Single side static sustainable
- Static pressure 200 bar max.
- External Zero adjustment
- Electric contact version
- Dry / liquid filled

APPLICATION

- Liquid & gaseous media
- Corrosive environments
- Oil & Gas applications
- Chemical & Petrochemical
- Level measurement in closed tank
- Filter monitoring

STANDARD SPECIFICATIONS

Dial size : DN100 / DN150

Range : 0 to 100 mBar ... 0 to 200 Bar

Mounting pattern : Direct, Bottom connection

Process connection : ¼" NPT (F) x 2 Nos.

Ingress protection : IP 65

Execution : Dry

STANDARD PARAMETERS

Ambient Temperature

Accuracy : CL 1.6 (AISI 316L SS) - Accuracy will be 2.5 with : Hastealloy C and monel 400 Diaphragm

: -40...+60°C (without dampening liquid) : -20...+60°C (with dampening liquid)

Service Temperature : 100°C max.

Static pressure limits (on either side): 40 bar / 100 bar / 200 bar

Over-pressure safety : 200 bar for ranges 0...0.4 bar up to 0...40 bar
Zero shift : Max. ± 2.5 % at 20 °C and max. static pressure

MATERIAL OF CONSTRUCTION

Sensing Element : Double diaphragm, Internal stop without o-ring

: ≤ 16 bar - AISI 316L SS, > 16 bar Inconel 718

Case & Ring Material : AISI 304 SS (Bayonet type)

Diaphragm : AISI 316L SS Chamber : AISI 304 SS

Fastener : AISI 304 SS (PN 100 bar max.)

: Alloy steel zinc coated

Movement mechanism : Stainless Steel
Transmission chamber dampening liquid : Silicon oil

Chamber sealing gaskets Viton

 Dial
 : Aluminum, black graduation on white background

 Pointer
 : Micro-zero adjustable, aluminum, black powder coated

Gaskets & filling plug : NBR

Window : Shatterproof Safety Glass, 4mm thickness

Purging plugs : 2 x 1/4" NPT (M), AISI 316 SS



REFERENCE

⊃ EN 837-3

STAND. SPEC.: DAMPENING LIQUID FILLED, GLYCERIN OR SILICON OIL

Accuracy : CL 2.5

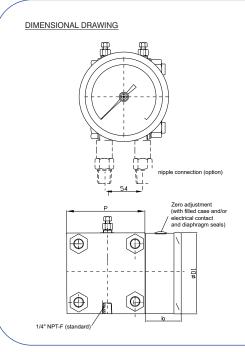
Window : Shatterproof safety glass

Dampening liquid : Glycerin 99.7% / Silicon oil 47V50

TEMPERATURE EFFECT

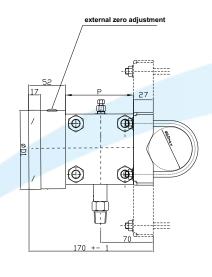
Please refer clause no 9.3 of EN 837-1

DRAWING

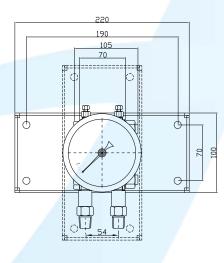


Type - 1A				
DN	100	100	160	160
Range mbar	≤160	250	≤160	250
P (PN40/100)	140	100	140	100
ØP (PN 200)	-	100	-	100
В	51	51	51	51
D1	100	100	160	160

DIMENSIONAL DRAWING



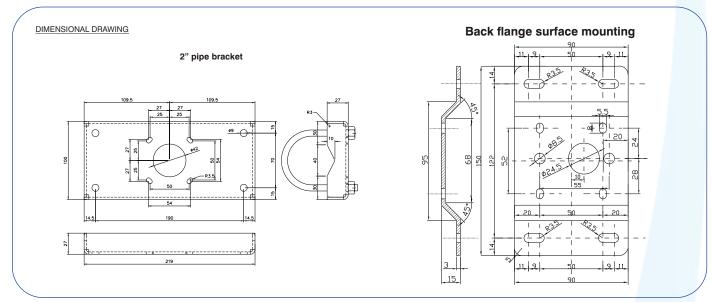
Type 1C

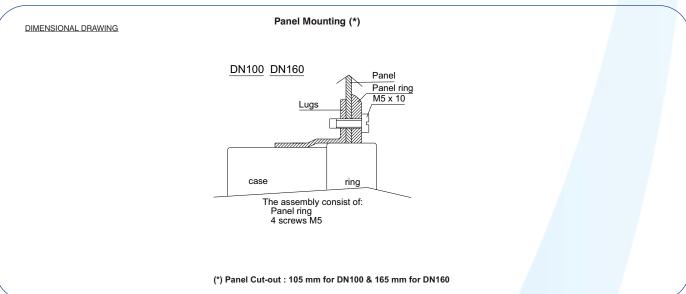


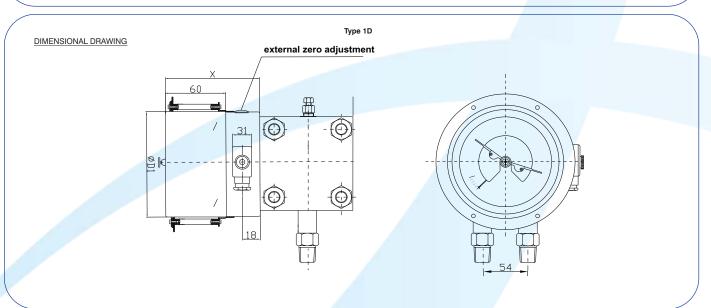
All dimensions are in mm.



DRAWING







All dimensions are in mm.



DIFFERENTIAL PRESSURE GAUGE



