

MICRO glycerin filled pressure gauges are suitable for the measurements where vibration and pulsation exist. The filled glycerine in the case offers steady pointer reading under vibrating conditions, lowers friction between moving parts i.e. low wear, even when submitted to high dynamic loads, no steaming up on the windows as there is no possibility of condensation inside the gauge and all such features offer operational ease and long life.



PRESSURE GAUGES

Technical Specifications: (Confirming to EN-837-1 & IS-3624)



Bottom Entry
Direct Mounting

Bottom Entry
Surface Mounting

Back Entry
Panel Mounting

Back Entry
Bracket Mounting

Back Entry Panel +
Bracket Mounting

Ø115mm
Phenolic Case

- **Nominal size :**
Ø 40, 50, 63, 100, 115, 150, 200, 250 & 300 mm
- **Accuracy :**
≤ Ø 63 mm - ±1.6% of FS (±1% of FS Optional)
≥ Ø 100 mm - ±1% of FS (±0.5% of FS Optional)
- **Case & Bezel :**
SS 304 Case with Crimped Bezel (Hermetically Sealed) (For Ø 50, 63 & 100 mm)
SS 304 Case with Snap Action bayonet lock type bezel (SS 316 Optional)
- **Ingress Protection :**
IP 65 as per EN 60 529 or IS/IEC 60 529
IP 68 as per IS/IEC 60 529 for Ø 100 & 150 mm - Optional
- **Pressure element : Bourdon Tube**
Brass / SS 316 / SS 316L / SS 316Ti (Monel 400 Optional)
(< 100 bar 'C' shape / ≥ 100 bar helical shape)
- **Over pressure limit :**
≤ 100 bar - 125% of FS
> 100 bar < 600 bar - 115% of FS
> 600 bar < 1600 bar - 110% of FS
- **Movement :**
Plated Brass / SS 304 (SS 316 optional)
- **Socket :**
Brass / SS 304 / SS 316 / SS 316L (Monel 400 Optional)
- **Dial :**
Aluminium – Pre-coated White with black marking
- **Pointer :**
Aluminium – Black finish fix type (Center / Micro Zero Adjustment Optional)
- **Window :**
3 mm thick transparent Acrylic / Toughened for ≤ Ø 63 mm
4 mm thick Acrylic / Toughened / Shatter Proof Glass for ≥ Ø 100 mm
- **Joints :**
Argon welded for SS / Silver Brazed for Brass
- **Sealing gasket :**
Nitrile Rubber (EPDM Optional)
- **Blow out protection :**
Neoprene Rubber (EPDM Optional)
For ≤ Ø 63 mm : On Top of Case
For ≥ Ø 100 mm : On Back of Case
- **Pressure relief :**
Top of Case with Vent Valve (On Request)
- **Process Connection :**
For Ø 40 mm - 1/8" BSP / NPT / BSPT (Male)
For Ø 50 & 63 mm - 1/8" / 1/4" BSP / NPT / BSPT (Male), M12 X 1 (Male)
For ≥ Ø 100 mm - 1/4" / 3/8" / 1/2" BSP / NPT / BSPT (Male) M20 X 1.5 (Male)
Other Male or Female on Request
- **Permissible temperature :**
Ambient : -25°C to 65°C
Process : Maximum 65°C
- **Type of mounting :**
Bottom Connection Direct Mounting
Back Connection Direct Mounting
Bottom Connection Surface Mounting
Back Connection Panel Mounting
Back Connection Bracket Mounting
Back Connection Panel + Bracket Mounting
- **Pressure range :**
Ø 40 mm : -30" Hg ... 0 ... 40 bar
Ø 50 mm : -30" Hg ... 0 ... 400 bar
Ø 63 mm : -30" Hg ... 0 ... 1000 bar
≥ Ø 100 mm : -30" Hg ... 0 ... 3500 bar
- **Case Filling Fluid :**
Glycerin (Purity 99.7%)
(Silicon Oil for Higher Temperature Optional)
- **Optional Available features :**
 - Ammonia (NH₃), Freon Scale, customized scale with different unit of measurement or logo
 - For Oxygen (O₂) Application degreased wetted parts
 - Eco model for Ø 50, 63, 100 & 150 mm
 - Solid front case (Safety Pattern) for Ø 100 & 150 mm
 - Phenolic Solid Front safety design Case for Ø 115mm
 - External Zero Adj. for ≥ Ø 100 mm

APPLICATION

- Air Compressor
- Hydraulic Press
- Pump
- Marine Engines
- Pipe line & Transmission Station where Vibration & Pulsation are destructive factor