

100mm Diameter Glycerine Filled Pressure Gauge

Application

For the measurement of fluid liquids that are not:- highly viscous, high temperature (over 60°C), likely to solidify/crystallize or corrosive to copper or tin alloys.

Also suitable for non-oxidising gases (such as oxygen or acetylene) up to 25 bar maximum.

Glycerine filled gauges are particularly suited to applications where oscillating/surging pressures or vibration are present. The damping effect of the glycerine will steady the pointer making it easier to take a reading against the scale.



Description

Nominal Size
100mm

Accuracy
+/- 1.6% FSD

Scales
PSI Outer (Black) & BAR Inner (Red) - Pressure
"HG Outer (Black) & BAR Inner (Red) - Vacuum
"HG+PSI Outer (Black) & BAR Inner (Red) - Compound

Ranges
-30/0"HG Vacuum to 0/10000 PSI Pressure
-30"HG/+15 PSI to -30"HG/+160 PSI Compound

Mounting Options
Bottom - Direct Mounting (standard)
Bottom - Surface Mounting Rear 3 Hole Flange

Centre Back - Direct Mounting (standard)
Centre Back - Panel Mounting Rear Bracket
Centre Back - Panel Mounting Front 3 Hole Flange

Operating Temperature
Ambient: -20/+60°C
Medium: +60°C maximum

Temperature Effect
Variation in indication caused by temperature
 $\pm 0.04 \times (t_2 - t_1)\%$ of the span
t1 is the reference ambient temperature in °C
t2 is the ambient temperature in °C

Ingress Protection
IP 65 as per EN 60529

Case & Crimped Bezel
304 Stainless Steel

Window
Polycarbonate - Crystal clear

Pressure Element
CU Alloy - Sealed Bourdon tube
C-Type <100 BAR
Coiled Type >100 BAR

Joints
Soldered with tin/silver alloy

Movement
High Precision Brass

Process Connection & Block
Brass - 3/8" BSP (parallel) male (standard)
Brass - 1/2" BSP (parallel) male (standard)
Brass - 22mm Hexagon block

Pointer
Aluminium - Black

Dial
Aluminium - White

Filling
FDA Approved food grade glycerine

Special Options
Other scales/ranges
Customer logo on dial
Other process connections
Rubber gauge cover