

100mm Diameter DIN Style All Stainless Steel C1.0 Process Pressure Gauge

Application

For the measurement of fluid liquids that are not:- highly viscous, high temperature (over 150°C), likely to solidify/crystallize. Stainless steel (SS316L) internals and wetted parts make the gauge more resistant to corrosive or high temperature substances entering the gauge.

Also suitable for gases (excluding oxygen or acetylene) up to 25 bar maximum.

Food/Drink
Pharmaceutical
Petrochemical
Process



Description

Nominal Size
100mm

Accuracy
+/-1.0% FSD

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

Ranges
-1/0 BAR Vacuum to 0/1000 BAR Pressure
-1/+1 BAR to -1/+11 BAR Compound

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

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

Operating Temperature
Ambient: -20/+60°C
Medium: +150°C maximum

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

Ingress Protection
IP 65 as per EN 60529

Case & Bayonet Bezel
304 Stainless Steel - DIN design

Window
Laminated Safety Glass

Pressure Element
316L Stainless Steel - Sealed Bourdon tube
C-Type <100 BAR
Coiled Type >100 BAR

Joints
Welded 316L Stainless Steel

Movement
High Precision Stainless Steel

Process Connection & Block
SS316L - 3/8" BSP (parallel) male (standard)
SS316L - 1/2" BSP (parallel) male (standard)
SS316L - 22mm Square block welded

Rear Blow-Out
30mm Black rubber

Pointer
Micro Adjustable - Aluminium - Black

Dial
Aluminium - White

Filling
Optional - FDA Approved food grade glycerine (max 60°C)
Dow Corning DC200 Silicone Oil (max 150°C)

Special Options
Other scales/ranges
Electrical contacts
Maximum pressure indicator
Rubber gauge cover
Plastic Window