BourdonTube Pressure Gauge Type 233.55 LBM, All Stainless Steel Construction Panel Builder Gauge

Applications

- Panel builder and control industry
- Suitable for corrosive environments with 316 stainless steel wetted parts
- Used in gaseous and liquid media

Product features

- Equipped with socket restrictor and glycerine filled case
- Off-set case liquid filling port
- LBM process connection
- Crimped tamper-proof bezel ring
- FlexWindowTM option with integrated pressure compensation and 100% case fill (*)

Specifications

Design

ASME B40.100

Size

21/2" (63mm)

Accuracy Class

21/2" ± ASME B40.100 Grade A 2/1/2%

Bourdon Tube

Material: 316 Stainless steel < 1500 psi (100 bar): C-shape ≥ 1500 psi (100 bar): Helical

Socket Material

316L Stainless Steel

Movement

Stainless Steel

Dial

White aluminum with black lettering; stop pin

Pointer

Black aluminum

Case

316 Stainless Steel with vent plug and SS crimping ring. FlexWindow option without vent plug. Welded case/socket connection.

Front Flange

316 series Stainless Steel, polished

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Scale Ranges (all ranges not stocked)

Vacuum/Compound to 30 INHG(-1 bar)/0/200 psi (16 bar) Pressure from 15 psi (1 bar) to 20,000 psi (1600 bar) or other equivalent units of pressure or vacuum

Working Range

Steady: ¾ of full scale value Fluctuating: 2/3 of full scale value Short time: full scale value

Operating Temperature

Ambient: $-4^{\circ}F$ to $140^{\circ}F$ ($-20^{\circ}C$ to $60^{\circ}C$) Note 1 Media: $212^{\circ}F$ ($+100^{\circ}C$) maximum

Temperature Error

Additional error when temperature changes from reference temperature of 68°F (20°C) $\pm 0.4\%$ of span for every 18°F (10°K) rising or falling.

Ingress Protection

IP 65 per EN 60529 / IEC 60259 IP 66 (NEMA 4) with FlexWindow option

Vent Plug

Flat rubber - over 300 psi (20 bar)

Field cuttable nipple - vacuum through 300 psi (20 bar) With yellow vent lever - available

Note: FlexWindow option comes with integrated pressure compensation and does not require a vent plug

Restrictor

316 Stainless Steel; 0.023" (0.6mm) orifice, standard



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Pressure Connection

Material: 316 Stainless Steel Lower back mount (LBM) 1/4" NPT limited to wrench flat area

Standard Scale

PSI, PSI/BAR, PSI/KPA, PSI/KG/CM²

Window Gasket

Buna-N

Case Filling

Glycerine

100% Case fill with integrated pressure compensation with FlexWindow option

Window

Safety glass

FlexWindow (clear liquid silicone rubber)

(*) Not available with FlexWindow

Optional Extras

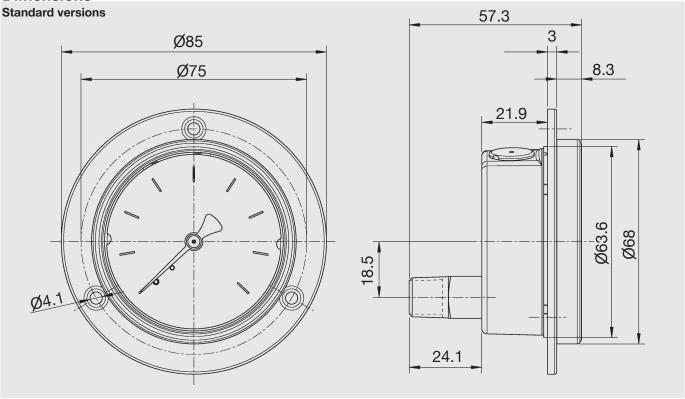
- Custom dial layout
- Silicone or Halocarbon oil case fill (*)
- Special connections limited to wrench flat area
- Other pressure scales available
- Cleaned to ASME level IV (without glycerine case fill) (*)

Recommendations

- Hole panel cutout= 2.56 inches or 65 mm
- Installation screw= #6 flat head screw; threaded into panel, or back nut attachment (3-required).

Note¹ Temperature ranges (liquid filled gauges) Glycerine: -4°F to 140°F (-20°C to 60°C) Silicone: -40°F to 140°F (-40°C to 60°C)

Dimensions



Ordering information

State computer part number (if available) /type number/size/range/connection size and locations/options required. WIKA reserves the right to make changes without prior notice.

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