

BourdonTube Pressure Gauge

Type 233.55 LBM, All Stainless Steel Construction

Panel Builder Gauge

WIKA Datasheet 233.55

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

Specifications

Design

ASME B40.100

Size

2½" (63mm)

Accuracy class

2½" \pm 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.
Welded case/socket connection

Front Flange

316 series Stainless Steel, polished



Panel Builder Gauge 233.55

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: $\frac{1}{4}$ of full scale value
Fluctuating: $\frac{2}{3}$ of full scale value
Short time: full scale value

Operating Temperature

Ambient: -4°F to 140°F (-20°C to 60°C) ^{Note 1}
Media: 212°F (+100°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.

Weather protection

Weather-tight (NEMA 4X/IP 65)

Vent Plug

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

Restrictor

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

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

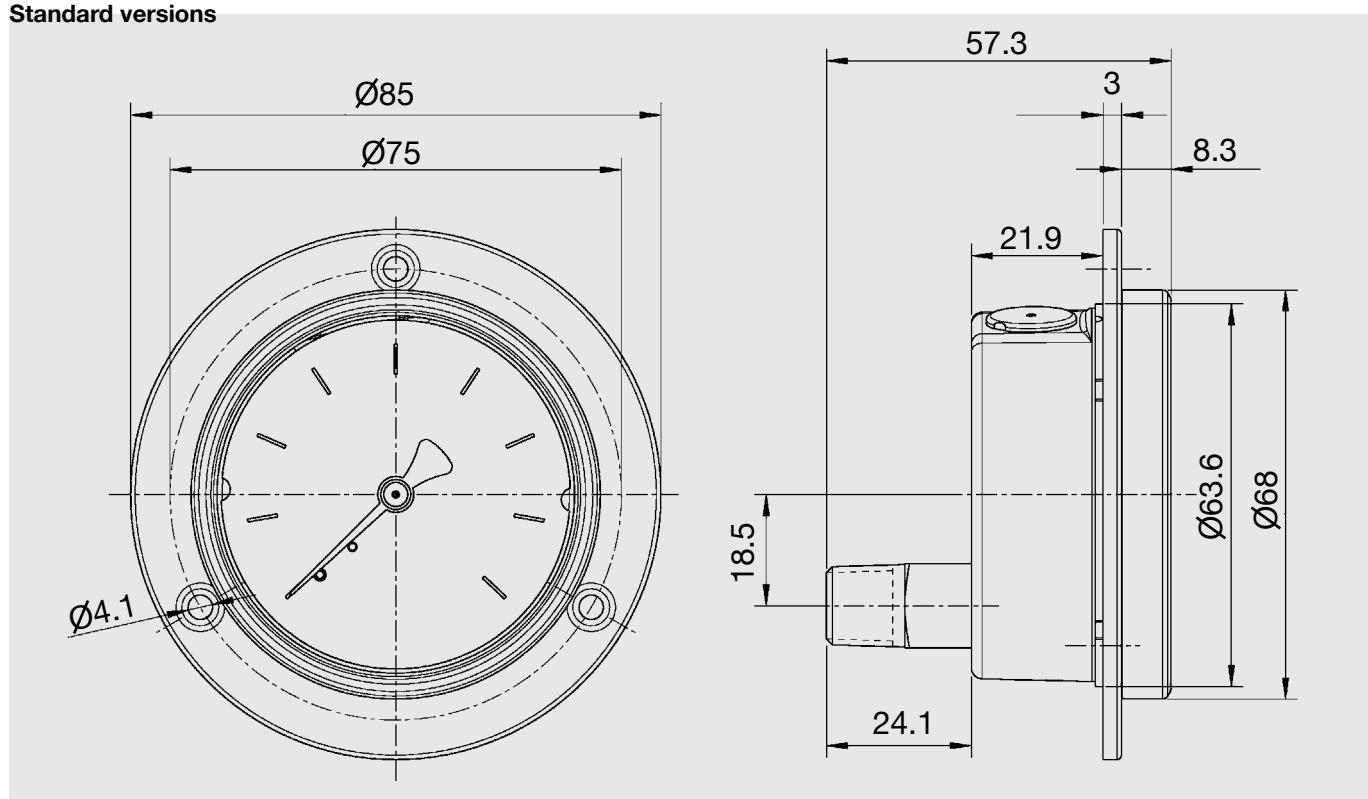
Glycerine-1000 Centistoke, standard

Window

Safety glass

Dimensions

Standard versions



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.

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)



WIKA Instrument Corporation

1000 Wiegand Boulevard

Lawrenceville, GA 30043

1-888-WIKA-USA /770-513-8200 (in GA)

Fax 770-338-5118

info@wika.com www.wika.com