

# 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" ± 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: ¼ of full scale value  
Fluctuating: 2/3 of full scale value  
Short time: full scale value

### Operating Temperature

Ambient: -4°F to 140°F (-20°C to 60°C) <sup>Note 1</sup>  
Media: 212°F (+100°C) maximum

### Temperature error

Additional error when temperature changes from reference temperature of 68°F (20°C) ±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/CM<sup>2</sup>

### Window gasket

Buna-N

### Case Filling

Glycerine-1000 Centistoke, standard

### Window

Safety glass

## 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).

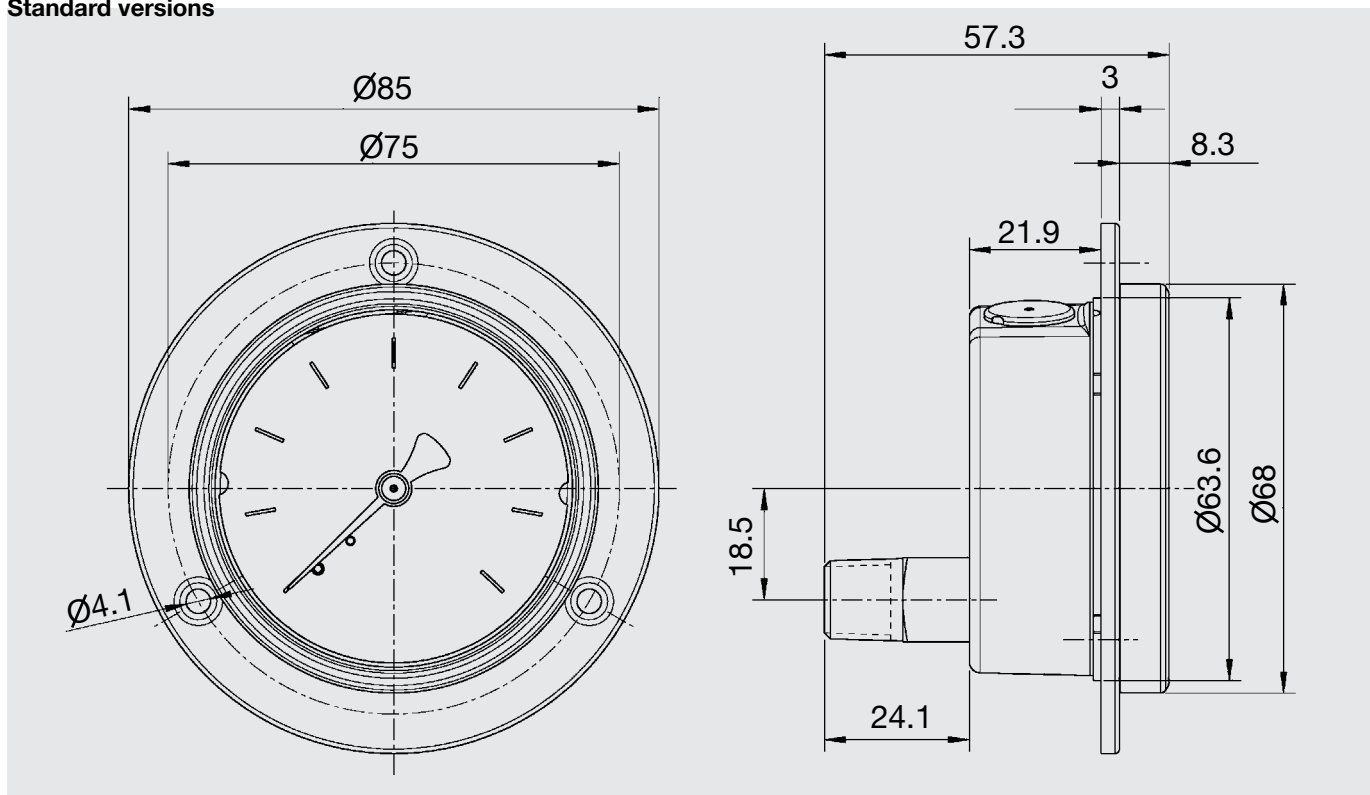
Note<sup>1</sup> Temperature ranges (liquid filled gauges)

Glycerine: -4°F to 140°F (-20°C to 60°C)

Silicone: -40°F to 140°F (-40°C to 60°C)

## Dimensions

### 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.



### 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