Bourdon Tube 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

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

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°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) ±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

WIKA Datasheet 233.55 · 09/2019
**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

**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).

**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.