

Wika Industrial Gauge – All Stainless Steel Construction Welded Case to Socket Connection – Field Liquid-Fillable



Applications

- With liquid filled case for applications with high dynamic pressure pulsations or vibration
- Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system
- Process industry: chemical/petrochemical, power stations, mining, on and offshore, environmental technology, mechanical engineering and plant construction

Special Features

- Excellent load-cycle stability and shock resistance
- All stainless steel construction
- Positive pressure ranges to 15,000 psi

Standard Features

Design

ASME B40.100 & EN 837-1

Sizes

2 1/2" & 4" (50, 63, & 100 mm)

Accuracy class

2 1/2": +/- 2/12% of span (ASME B40.100 Grade A)
4": +/- 1.0% of span (ASME B40.100 Grade 1A)

Ranges

Vacuum/Compound to 200 psi
Pressure from 15 psi to 15,000 psi or other equivalent units of pressure or vacuum

Working pressure

2 1/2" Steady: 3/4 scale value
Fluctuating: 2/3 full scale value
Short time: full scale value
4" Steady: full scale value
Fluctuating: 0.9 x full scale value
Short time: 1.3 x full scale value

Operating temperature

Ambient:
-40°F to +140°F (-40°C to +60°C) - dry
-4°F to +140°F (-20°C to +60°C) - glycerin filled
-40°F to +140°F (-40°C to +60°C) - silicone filled
Medium: +212°F (+100°C) maximum

Temperature error

Additional error when temperature changes from reference temperature of 68°F (20°C) +/- 0.4% for every 18°F (10°C) rising or falling. Percentage of span.

Weather protection

Weather tight (NEMA 4X / IP65)

Pressure connection

Material: 316L stainless steel
Lower mount (LM) & Center Back Mount (CBM)
Lower back mount (LBM) for 4" size
1/4" NPT or 1/2" NPT limited to wrench flat area

Bourdon Tube

Material: 316L stainless steel
2 1/2": ≤ 1,000 PSI: C-type,
≥ 1,500 PSI: helical type
4": ≤ 1,500 PSI: C-type,
≥ 2,000 PSI: helical type

Movement

Stainless steel

Pointer

Black aluminum

Case

304 stainless steel with vent plug and SS crimp ring
Welded case / socket connection

Window

Polycarbonate

Liquid filling

Glycerine 99.7% – Type 233.53

Optional Extras

- SS restrictor
- SS front flange
- SS rear flange
- Zinc-plated steel or SS u-clamp bracket (field installable)
- Cleaned for oxygen service
- Red drag pointer or mark pointer
- External zero adjustment
- Other pressure connections
- Silicone or Fluorolube case filling
- Other pressure scales available: bar, kPa, MPa, kg/cm², and dual scales

Ordering Information – Dry Gauge

PG-SSD

Dial Size and Connection

Low Mount

212LM14 2 1/2" Dial, 1/4" NPT
4LM14 4" Dial, 1/4" NPT
4LM12 4" Dial, 1/2" NPT

Back Mount

212CBM14 2 1/2" Dial, 1/4" NPT Center Back Mount
4LBM12 4" Dial, 1/2" NPT Lower Back Mount

Available Pressure Settings

15 PSI	600 PSI	30" Hg
30 PSI	800 PSI	30"-0-15 PSI
60 PSI	1000 PSI	30"-0-30 PSI
100 PSI	1500 PSI	30"-0-60 PSI
160 PSI	2000 PSI	30"-0-100 PSI
200 PSI	3000 PSI	30"-0-160 PSI
300 PSI	5000 PSI	30"-0-200 PSI
400 PSI	10000 PSI	30"-0-300 PSI (4" Dial Only)
		30"-0-400 PSI (4" Dial Only)

Ordering Information – Liquid Filled Gauge

PG-SSF

Dial Size and Connection

Low Mount

212LM14 2" Dial, 1/4" NPT
4LM14 4" Dial, 1/4" NPT
4LM12 4" Dial, 1/2" NPT

Back Mount

4CBM14 4" Dial, 1/4" NPT Center Back Mount
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100 PSI	1500 PSI	30"-0-60 PSI
160 PSI	2000 PSI	30"-0-100 PSI
200 PSI	3000 PSI	30"-0-160 PSI
300 PSI	5000 PSI	30"-0-200 PSI
400 PSI	10000 PSI	30"-0-300 PSI (4" Dial Only)
		30"-0-400 PSI (4" Dial Only)