Bourdon Tube Pressure Gauges Test Gauge with ± 0.25% Accuracy Type 312.20

WIKA Datasheet 312.20

Applications

- Calibration and testing laboratories
- Suitable for gaseous or liquid media that will not obstruct the pressure system or corrode copper alloy wetted parts

Product features

- High accuracy (± 0.25% of span)
- Mirrored band on dial
- Knife edge adjustable pointer
- Pressure ranges up to 10,000 psi (700 bar)

Specifications

Design ASME B40.100 & EN 837-1

Sizes 6" (160 mm)

Accuracy class ± 0.25% of span (ASME B40.100 Grade 3A)

Ranges (all ranges not stocked) Vacuum / Compound to 200 psi (16 bar) Pressure from 10 psi (0.6 bar) to 10,000 psi (700 bar) or other equivalent units of pressure or vacuum

Calibration medium

≤ 360 psi (25 bar): Gas > 360 psi (25 bar): Liquid

Working pressureSteady:full scale valueFluctuating:0.9 x full scale valueShort time:1.3 x full scale value

Operating temperature

Ambient: -40°F to +140°F (-40°C to +60°C) Medium: +140°F (+60°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 resistant (NEMA 3 / IP 54)

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Pressure connection

Material: copper alloy Lower mount (LM) or lower back mount (LBM) 1/4" NPT or 1/2" NPT limited to wrench flat area

Bourdon tube

≤ 1,000 psi (70 bar): C-shape, copper alloy > 1,000 psi (70 bar): Helical, 316L stainless steel

Movement

Copper alloy with nickel-alloy wearable parts

Dial

White aluminum with black lettering and mirrored band

Pointer Black aluminum with knife edge, adjustable

Case

304 stainless steel with Buna-N vent plug and polished stainless steel bayonet ring.

Window Laminated safety glass

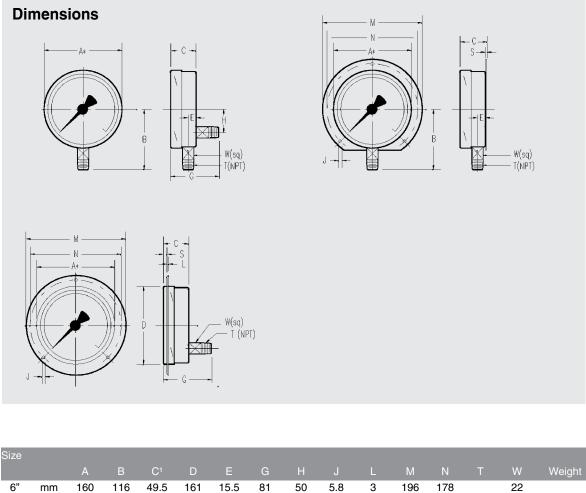
Window gasket Buna-N

Standard scale psi



Optional extras

- Brass restrictor
- Stainless steel front or rear flange
- NIST calibration certificate
- Other thread connections available
- Custom dial layout
- Other pressure scales available bar, kPa, MPa, kg/cm² and dual scales
- Alarm contact switches magnetic and inductive



0		100	110	40.0	101	10.0	01	50	5.0	0	150	170		~~	
	in	6.0	4.57	1.95	6.34	0.61	3.19	1.97	0.23	0.12	7.72	7.0	1/2"	0.86	2.42 lb

 1 For ranges $\leq\!60$ psi and $\geq\!1,\!500$ psi, C dimension changes to 2.58" (65.5 mm)

Recommended panel cutout is dimension D + 1.5 mm

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Ordering information

Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice. WIKA Datasheet 312.20 · 06/2015



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