

Bourdon Tube Pressure Gauges Test Gauge with $\pm 0.25\%$ 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 ($\pm 0.25\%$ 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

$\pm 0.25\%$ 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 pressure

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 $+140^{\circ}\text{F}$ (-40°C to $+60^{\circ}\text{C}$)

Medium: $+140^{\circ}\text{F}$ ($+60^{\circ}\text{C}$) 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)



Bourdon Tube Pressure Gauge Model 312.20

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

$\leq 1,000$ 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

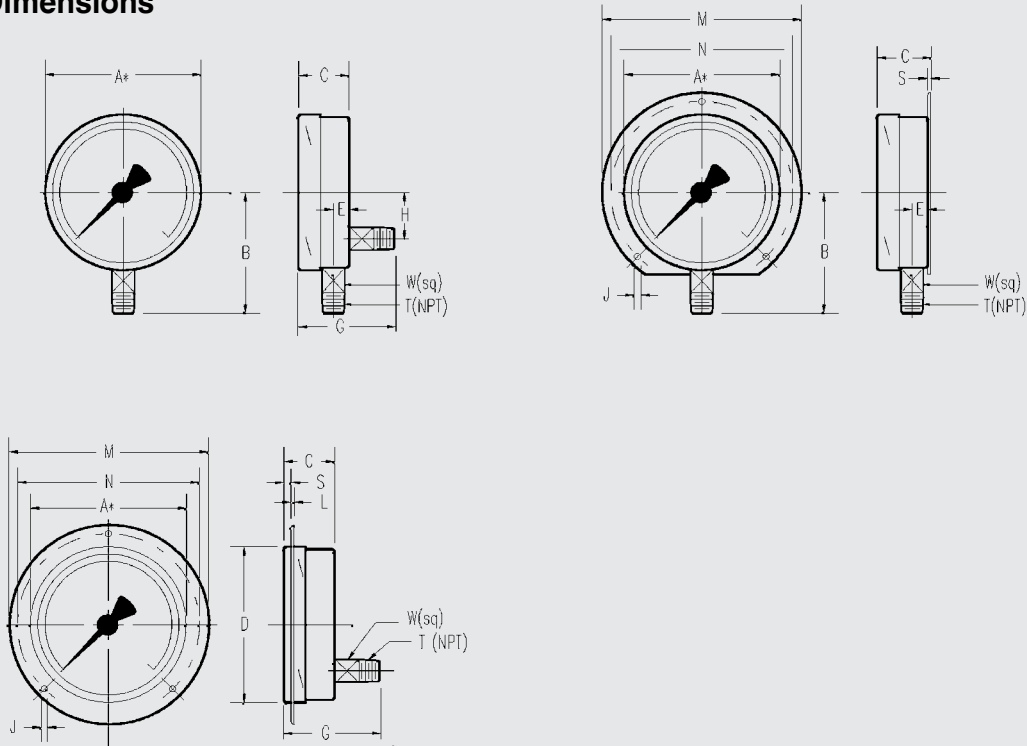
Standard scale

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

Dimensions



Size		A	B	C ¹	D	E	G	H	J	L	M	N	T	W	Weight
6"	mm	160	116	49.5	161	15.5	81	50	5.8	3	196	178		22	
	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 ≤ 60 psi and ≥ 1,500 psi, C dimension changes to 2.58" (65.5 mm)

Recommended panel cutout is dimension D + 1.5 mm

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.



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