

Bourdon Tube Pressure Gauges Industrial Series Gauge Type 212.20

WIKA Datasheet 212.20

Applications

- Sturdy industrial pressure gauges designed in compliance with operational safety requirements of EN 837-1 and ASME B40.100
- Reliable pressure gauge for machine and plant construction industry
- Suitable for gaseous or liquid media that will not obstruct the pressure system or corrode
- copper alloy wetted parts

Product features

- Long service life, robust
- Cost effective and reliable
- Pressure ranges up to 15,000 psi (100 bar)

Specifications

Design

ASME B40.100 & EN 837-1

Sizes

4" (100 mm), 6" (160 mm)

Accuracy class

± 1% of span (ASME B40.100 Grade 1A)

Ranges

Vacuum / Compound to 200 psi (16 bar)
Pressure from 15 psi (1 bar) to 15,000 psi (1000 bar)
or other equivalent units of pressure or vacuum

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°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) ±0.4% of span for every 18°F (10°K) rising or falling.



Bourdon Tube Pressure Gauge Model 212.20

Weather protection

Weather resistant (NEMA 3 / IP 54)

Pressure connection

Material: copper alloy
Lower mount (LM) or lower back mount (LBM)
1/2" NPT

Bourdon tube

Material: copper alloy
≤ 1000 psi (70 bar): C-shape copper alloy
> 1000 psi (70 bar): Helical 316L stainless steel

Movement

Brass

Dial

White aluminum with black lettering

Pointer

Black aluminum

Case

304 stainless steel with stainless steel bayonet ring

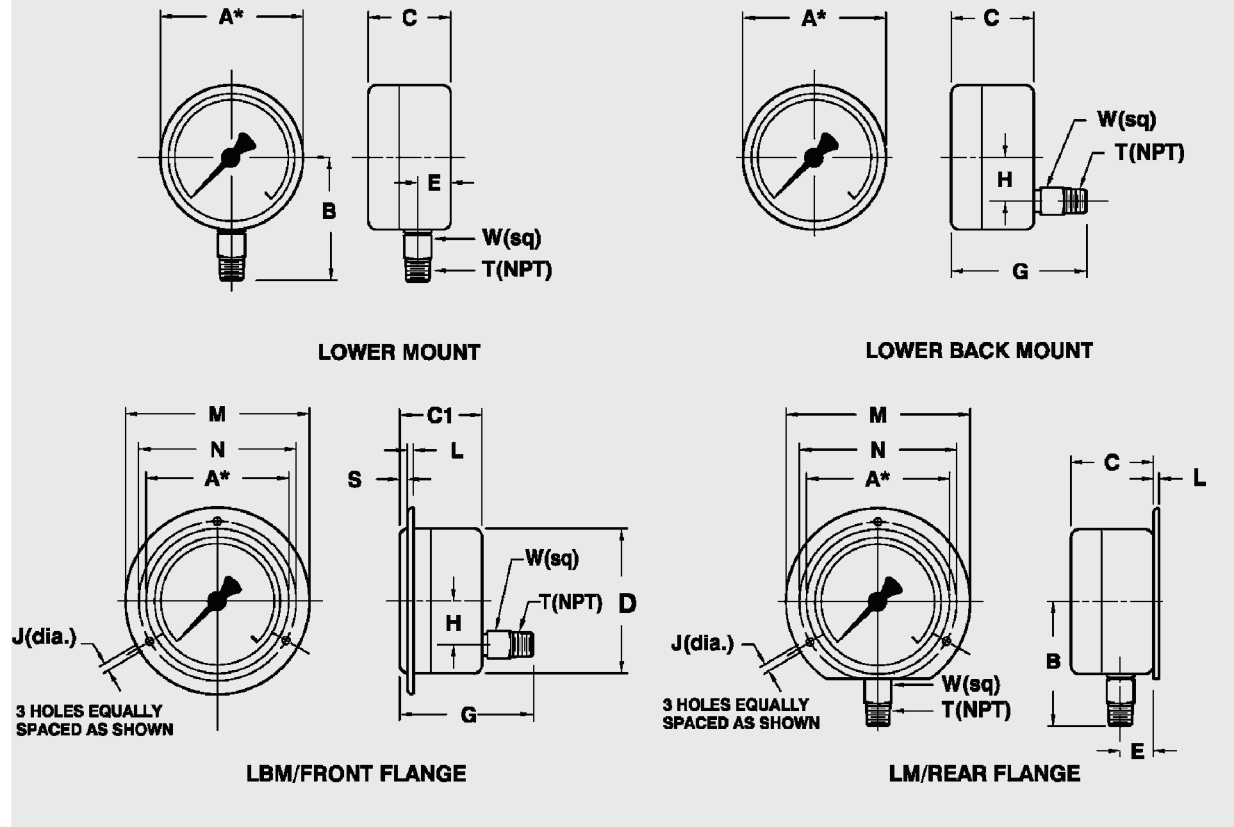
Window

Flat instrument glass

Optional extras

- Brass restrictor
- Stainless steel front or rear flange
- Liquid filled case: No (use Model 233.50)
- U-clamp panel mounting
- Integral alarm contacts
- Extended media temperature to +392°F (+200°C)
- Special connections limited to wrench flat area
- Custom dial layout
- Other pressure scales available
bar, kPa, MPa, kg/cm² and dual scales

Dimensions



Size		A	B	C ¹	D	E	G	H	J	L	M	N	S	T	W	Weight
4"	mm	100	85	49.5	99	15.5	81	30	4.8	3	132	116	5		22	
	in	4.0	3.35	1.95	3.90	0.61	3.19	1.18	0.19	0.12	5.2	4.57	0.20	1/2"	0.86	1.32 lb.
6"	mm	161	116	49.5	159	15.5	81	50	5.8	3	196	178	5		22	
	in	6.34	4.57	1.95	6.26	0.61	3.19	1.97	0.23	0.12	7.72	7.0	0.20	1/2"	0.86	2.42 lb.

¹ For LM range 20,000 psi and LBM ranges above 1,000 psi, C dimension changes to 66.5 mm / 2.58"

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.



WIKAL Instrument Corporation
 1000 Wiegand Boulevard
 Lawrenceville, GA 30043
 Tel (770) 513-8200 Toll-free 1-888-WIKA-USA
 Fax (770) 338-5118
 E-Mail info@wika.com
 www.wika.com