

Low Pressure Gauge Type 612.20, Stainless Steel Case

WIKA Datasheet 612.20

Applications

- Low pressure pneumatic systems
- Suitable for fluid medium, gaseous or dry that does not corrode copper alloy.

Product features

- Low pressure series
- Copper alloy wetted parts & stainless steel case
- Capsule pressure gauge

Specifications

Design

EN 837-3

Size

2½", 4" & 6" (63 mm, 100 mm & 160 mm)

Accuracy class

± 1.5% of span

Ranges (All ranges not stocked)

Size 2½" (63 mm): 0 ... 10" H₂O (25 mbar) to 0 ... 250" H₂O (600 mbar)

Size 4" (100 mm): 0 ... 4" H₂O (10 mbar) to 0 ... 250" H₂O (600 mbar)

Size 6" (160 mm): 0 ... 2.5" H₂O (4 mbar) to 0 ... 250" H₂O (600 mbar)

or all other equivalent vacuum or compound ranges

Connection

Copper alloy

Size 2½" (63 mm): ¼" NPT lower mount (LM) or center back mount (CBM)

Size 4" & 6" (100 mm & 160 mm): ¼" NPT or ½" NPT lower mount (LM) or lower back mount (LBM)

Capsule Element

Material: copper alloy

Movement

Copper alloy, nickel-silver pinion gear and shaft.

Zero adjustment screw on dial

Dial

White aluminum with black lettering

Pointer

Black aluminum (zero adjust on dial. Must remove window to access)



Pressure Gauge 612.20

Case

304 stainless steel with stainless steel bayonet ring

Weather Protection

Weather resistant (NEMA 3 / IP 54)

Standard Scales

in. H₂O/mm H₂O

oz.-sq. in./mm H₂O

oz.-sq. in./in. H₂O

PSI

Window Gasket

Buna-N

Window

Flat window glass

Working Range

Steady: Full scale value

Fluctuating: 0.9 x full scale value

Operating Temperature

Ambient: -4°F to 140°F (-20°C to 60°C)

Media: max. 212°F (+100°C)

max. 176°F (+80°C) for 4" & 6" LBM

Temperature error

Additional error when temperature changes from reference temperature of 68°F (20°C) ±0.6% of span for every 18°F (10°K) rising or falling.

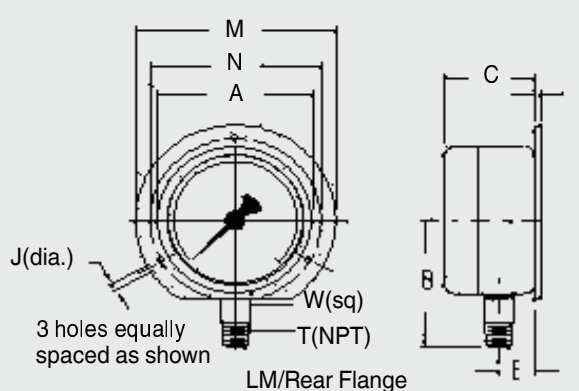
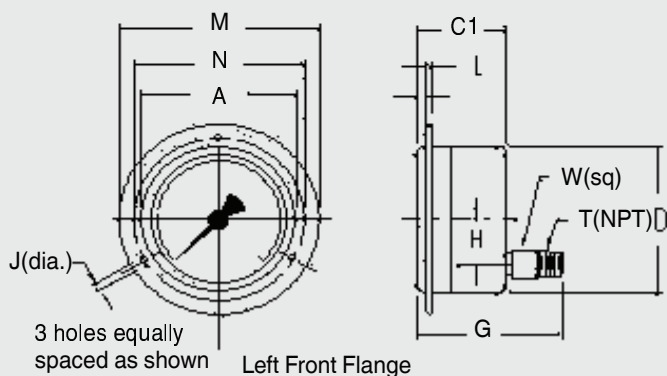
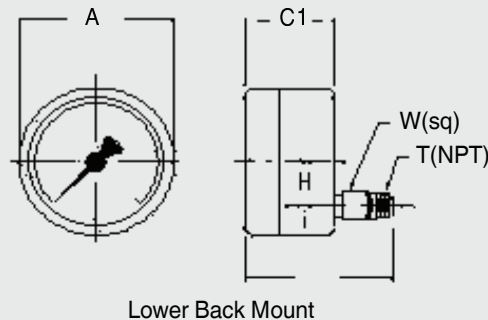
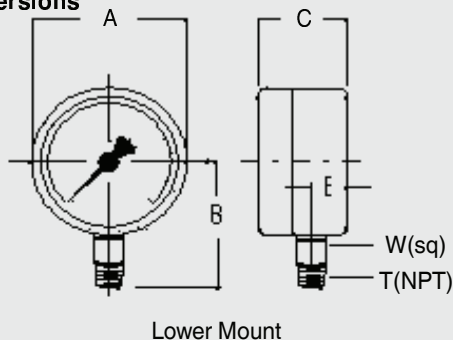
Optional Extras

- Front stainless steel polished
- Brass threaded restrictor
- U-Clamp bracket steel zinc plated with stainless steel polished profile ring (4" & 6")
- Safety glass window
- Overpressure and underpressure protection:
 - ≤ 10" H₂O (25 mbar): 3x of full scale
 - > 10" H₂O (25 mbar): 10x of full scale

- Cleaned for oxygen service
- Medical specification
- Special connections limited to wrench flat area
- Nickel plated connection
- Externally adjustable red mark pointer (set pointer)
- Externally adjustable red drag pointer (max. pointer)
- Custom dial layout
- Other pressure scales available

Dimensions

Standard versions



A* NOMINAL SIZE

TYPE/SIZE	WEIGHT	KEY	A	B	C	C1	D	E	G	H	J	L	M	N	T	W
612.20	1.32 lbs	mm	101	85	49.3	49.3	104	15.5	78	30	4.8	3	132	116	1/2" or 1/4"	22
4"		in	4	3.35	1.94	1.94	4.09	0.61	3.07	1.18	0.19	0.12	5.2	4.57	1/2" or 1/4"	0.86

Note: For 1/4" NPT connections, B dimension changes to 80mm / 3.15 in.
Recommended panel cut-out: D + 1mm

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.



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