

Bourdon Tube Pressure Gauges Solid-Front Test Gauge - Direct Drive Type 332.34DD

WIKA Datasheet 332.34DD

Applications

- Where high dynamic pressure pulsations, vibration, or shock are present
- Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system
- Process industry: chemical, petrochemical, refining, power stations, mining, environmental technology, mechanical engineering and plant construction

Special Features

- Excellent load-cycle stability and shock resistance
- Movement-less direct drive Bourdon tube
- Positive pressure ranges up to 10,000 psi (700 bar)
- All ranges can withstand full vacuum
- Calibration certificate, traceable to NIST
- Helium leak tested

Specifications

Design

ASME B40.100

Sizes

4½" (115 mm) dial size

Accuracy class

± 0.25% of span (ASME B40.100 Grade 3A)
± 0.50% of span (ASME B40.100 Grade 2A) for all vacuum/compound ranges and range 0/10,000 psi (700 bar)

Ranges

Vacuum / Compound to 300 psi (20 bar)
Pressure from 0/30 psi (20 bar) to 0/10,000 psi (700 bar) or other equivalent units of pressure or vacuum

Working pressure

Steady: full scale value
Fluctuating: 0.9 x full scale value
Short time: 1.5 x full scale value

Operating temperature

Ambient: -65°F to +190°F
Medium: -65°F to +400°F



Bourdon Tube Pressure Gauge Model 332.34DD

Temperature error

Additional error when temperature changes from reference temperature of 68°F (20°C): ±0.4% of full span for every 18°F (10°K) rising or falling.

Weather protection

Weather resistant (NEMA 3 / IP54)

Pressure connection

Material: 316 SS
Lower mount (LM) and lower back mount (LBM)
¼" or ½" NPT

Bourdon tube / wetted parts

Material: Inconel X-750
316 SS socket & capillary
All connection micro-brazed, welded & helium leak tested

Filter

Porous metal disk - 316 SS
Porosity: 25 to 50 microns

Dial

White aluminum with mirror band, black lettering
Mirror band dial - aluminum substrate with white polyester film and black lettering

Pointer

Black aluminum, adjustable, knife edge

Case

Red fiberglass-reinforced thermoplastic (PBTP)
Solid front, blowout back
Turret-style case with built in rear flange lugs

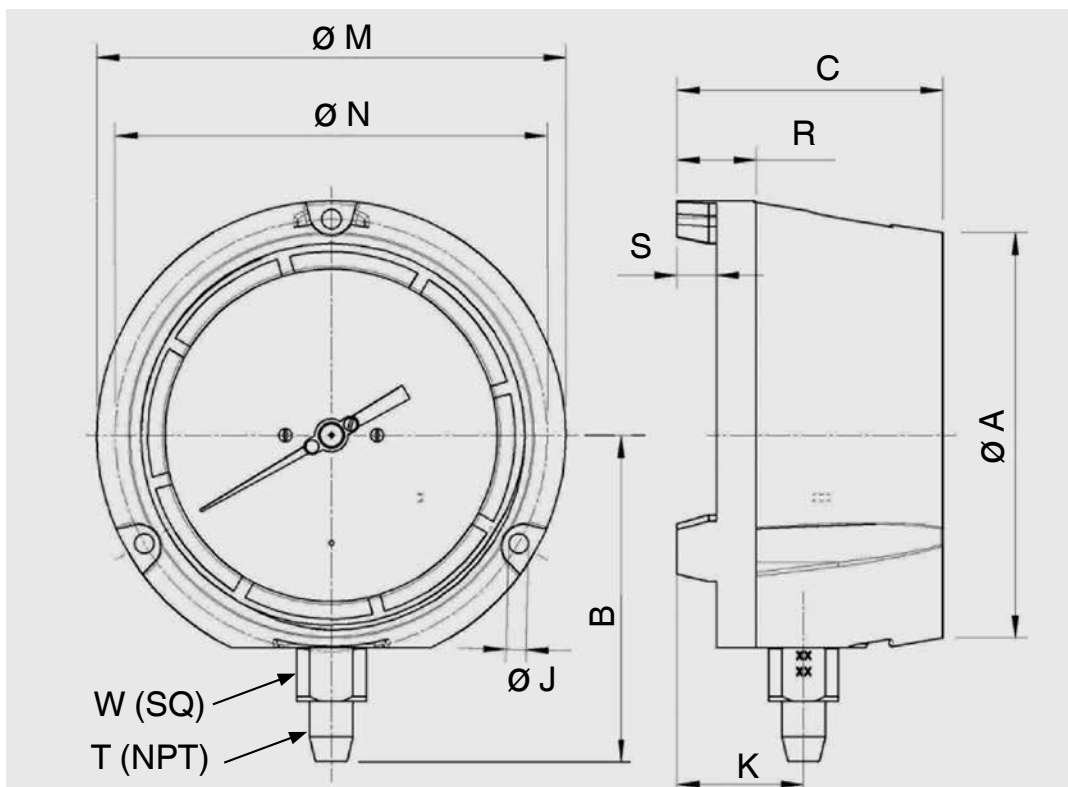
Window

Clear acrylic with Buna-N gasket
External zero adjustment screw located on window

Optional extras

- Safety Glass (gauge will not come with external zero adjustment)
- Viton Isolator for connection (not recommended for gases or vacuum service)
- EPDM Isolator for connection (not recommended for gases or vacuum service)
- Filter - 316 SS porous metal disk - 25 to 50 microns (one included with each gauge)
- Oxygen cleaned to ASME B40.100 Level IV
- Other pressure connections
- Other pressure scales (bar, KPa, MPa, kg/cm² and dual scales)
- Custom dial layout
- Panel mounting kit (field assembly)
- NEMA 4 / IP65 weather protection
- Diaphragm seals

Dimensions



Size		A	B	C	D	J	K	L	M	N	R	S	T	W	Weight ¹
4.5"	mm	128	103	84	120.3	6.3	40	28.5	148	136.5	25	12.5		22	2 lb.
	in	5	4.06	3.31	4.74	0.248	1.57	1.12	5.83	5.37	0.99	0.49	*½"	0.87	2 lb.

* Or ¼"

¹ Weight without optional accessories



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