

Bourdon Tube Pressure Gauges Stainless Steel Series, Solid Front Case Type 232.30 - Dry Case Type 233.30 - Liquid-filled Case

INSTRUMENTS • CONTROLS • VALVES

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Applications

- With liquid filled case for applications with high dynamic pressure pulsations or vibration
- Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system
- Process industry: chemical/petrochemical, power stations, mining, on and offshore, environmental technology, mechanical engineering and plant construction

Special Features

- Solid-front stainless steel case
- Excellent load-cycle stability and shock resistance
- All stainless steel construction
- Positive pressure ranges to 20,000 PSI

Standard Features

Design

ASME B40.100 & EN 837-1

Sizes

2½", 4", 4½" & 6" (63, 100, 115 and 160 mm)

Accuracy class

2½": ± 2/1/2% of span (ASME B40.100 Grade A)
4", 4½" & 6": ± 1.0% of span (ASME B40.100 Grade 1A)

Ranges

Vacuum / Compound to 200 psi
Pressure from 0/15 to 0/15,000 psi - 2½", 4", 4½"
Pressure from 0/10 to 0/20,000 psi - 6"
or other equivalent units of pressure or vacuum

Working pressure

2½":	Steady:	3/4 full scale
	Fluctuating:	2/3 full scale
	Short time:	full scale value
4", 4½" & 6":	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) - dry
-4°F to +140°F (-20°C to +60°C) - glycerine filled
-40°F to +140°F (-40°C to +60°C) - silicone filled
Medium: +392°F (+200°C) maximum - dry
+212°F (+100°C) maximum - liquid filled



Bourdon Tube Pressure Gauge Model 232.30

Temperature error

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

Weather protection

Weather tight (NEMA 4X / IP65)

Pressure connection

Material: 316L stainless steel
Lower mount (LM)
Lower back mount (LBM) - 2½" & 4" size only
1/4" NPT or 1/2" NPT limited to wrench flat area

Bourdon tube

Material: 316L stainless steel
≤ 1,000 PSI: C-type,
≥ 1,500 PSI: helical type

Movement

Stainless steel

Dial

White aluminum with black lettering, 2½" with stop pin

Pointer

Black aluminum, adjustable

Case

304 stainless steel with solid baffle wall and blowout back (safety case)

Window

Polycarbonate (2½") and Safety Glass (4", 4½" & 6") with Buna-N gasket

Bezel ring

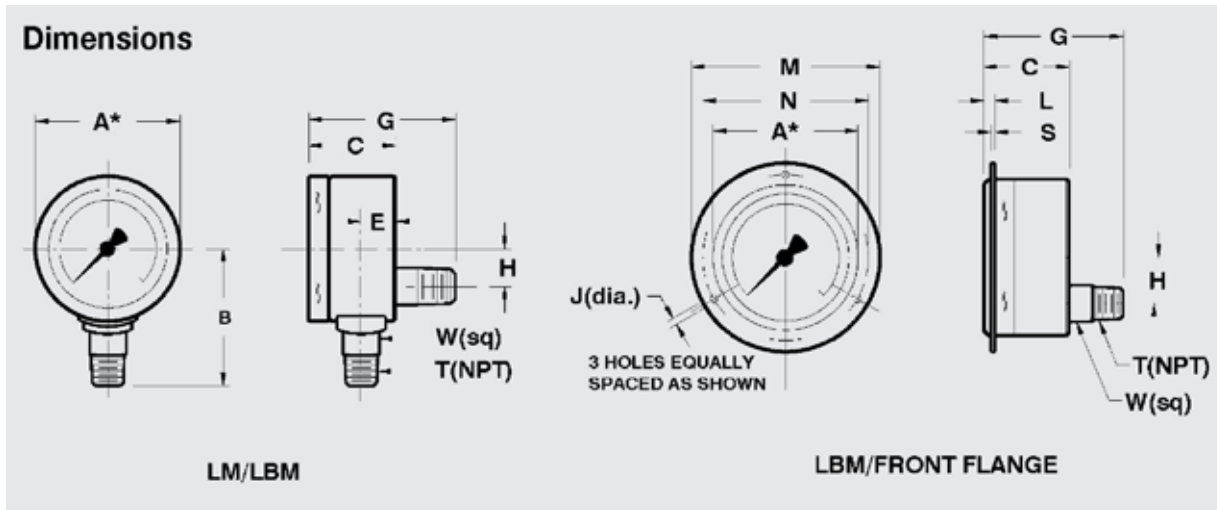
Stainless steel, bayonet-type

Case fill

Glycerine 99.7% - Type 233.30 (LM only)

Optional extras

- Other pressure connections
- Monel® wetted parts (Type 26X.30)
- Front flange, SS (LBM only)
- Mounting lugs for wall mounting*
- Silicone or Halocarbon case filling (LM only)
- Red drag pointer or mark pointer
- Non-adjustable pointer
- Safety glass window
- Custom dial layout
- Integral alarm contacts or transmitters
- Other pressure scales available: bar, kPa, MPa, kg/cm² and dual scales



Size	A	B	C ¹	E	G	H	J	L	M	N	S	T	W	Weight
2.5" mm	63	48	42	17.5	63	18.5	4	3	85	75	2	14	0.44 lb. dry	
in	2.48	1.89	1.65	0.69	2.48	0.73	0.16	0.12	3.35	2.95	0.08	1/4"	0.55	0.57 lb. filled
4" mm	101	86	57.5	24	93	30	4.8	3	132	116	2	22	1.43 lb. dry	
in	3.98	3.35	2.26	0.94	3.66	1.18	0.19	0.12	5.20	4.57	0.08	1/2"	0.87	2.38 lb. filled
4.5" mm	121	97	59.5	25	X	X	X	X	X	X	X	22	1.43 lb. dry	
in	4.76	3.82	2.34	0.99	X	-	X	X	X	X	X	1/2"	0.87	2.38 lb. filled
6" mm	161	116	58	24	-	-	5.8	3	196	178	2	22	2.86 lb. dry	
in	6.34	4.57	2.28	0.94	-	-	0.23	0.12	7.72	7.01	0.08	1/2"	0.87	5.15 lb. filled

¹ For 6" LM range 20,000 psi, C dimension changes to 75.5 mm / 2.97 in.

² Weight without optional accessories.

Note: For 2½" size, front flange is a 2-piece design. Hole panel cutout dimension for this option is 66.5 mm.

* Note: When mounting rear lugs, leave 15 mm between the back of the gauge and the mounting surface.

Recommended panel cutout is dimension D + 1 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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