Bourdon Tube Pressure Gauge
Model 21X.54 Stainless Steel Construction

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Applications

- Intended for adverse service conditions where pulsating or vibration exists
- Process industry
- Suitable for gaseous or liquid media that will not obstruct the pressure system

Special features

- Vibration and shock resistant (with liquid filling)
- Stainless steel case with removable bayonet ring
- Pressure ranges up to 15,000 psi

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Standard Features

Design
ASME B40.100 & EN 837-1

Sizes
2½" & 4" (63 & 100 mm)

Accuracy class
2½": ± 2/1/2% of span (ASME B40.100 Grade A)
4": ± 1% of span (ASME B40.100 Grade 1A)

Ranges
Vacuum / Compound to 200 psi
Pressure from 15 psi to 15,000 psi
or other equivalent units of pressure or vacuum

Working pressure

2½":	Steady:	3/4 scale value
	Fluctuating:	2/3 full scale value
	Short time:	full scale value
4":	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: +140°F (+60°C) maximum

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 / IP 65)

Pressure connection
Material: copper alloy
Lower mount (LM) or center back mount (CBM) - 2½"
Lower mount (LM) or lower back mount (LBM) - 4"
1/4" NPT or 1/2" NPT limited to wrench flat area

Bourdon tube
2½" Size- Material: Copper alloy
30" Hg (VAC) to 800 PSI- C-type (soldered)
1000PSI to 15,000PSI- helical type (soldered)
Changes to stainless steel at 7,500 PSI brazed
4"Size- Material: Copper alloy ≤ 1,000 PSI
316 stainless steel ≥ 1,500 PSI
30" Hg (Vac) to 1,000 PSI- C-type (soldered)
1,500 PSI to 15,000 PSI- helical type (brazed)
Changes to stainless steel at 1,500 PSI

Movement
Copper alloy

Dial
White aluminum with black lettering; 2½" size with stop pin

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Pointer
Black aluminum, adjustable

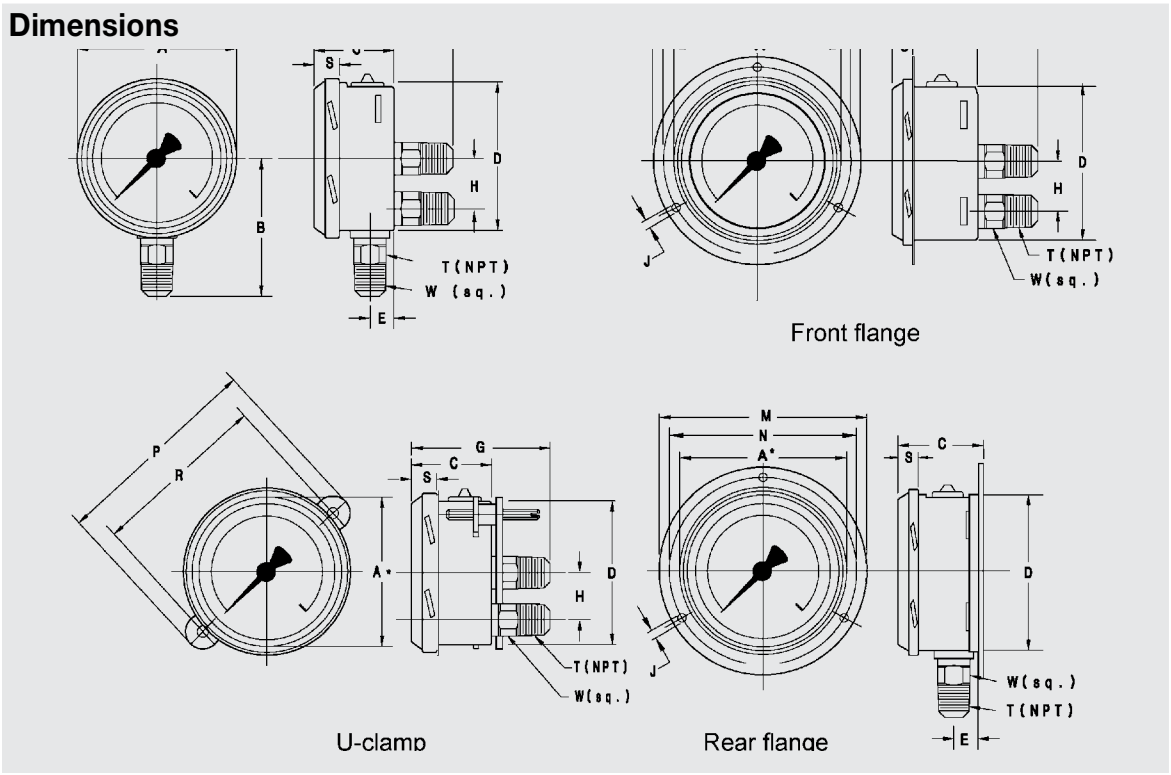
Case
304 stainless steel with vent plug and stainless steel bayonet ring. Suitable for liquid filling. Case connection sealed with EPDM o-ring (glycerine) or Viton o-ring (dry, silicone).

Window
Laminated safety glass with Buna-N gasket

Case fill
Glycerine 99.7% - Type 213.54

Optional extras
- Brass restrictor
- Stainless steel front or rear flange
- Zinc-plated steel or SS u-clamp bracket (field installable)
- Red drag pointer or mark pointer
- Silicone or fluorolube case filling
- 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	D	E	G	H	J	M	N	P	R	S	T	W	Weight	
2.5”	mm	70	54	33.5	62	13	55.5	-	3.6	85	75	87	72	12		14	0.36 lb.	dry
	in	2.75	2.13	1.32	2.44	0.51	2.19	-	0.14	3.35	2.95	3.43	2.83	0.47	1/4”	0.55	0.44 lb.	filled
4”	mm	110	87	49.5	100	15.5	81	30	4.8	132	116	125	110	15		22	1.10 lb.	dry
	in	4.30	3.43	1.95	3.94	0.61	3.19	1.18	0.19	5.20	4.57	4.92	4.33	0.59	1/2”	0.87	1.76 lb.	filled

Note: For 1/4” NPT connections on 4” gauges, reduce B dimension by 5mm/0.2”

Recommended panel cut-out:
2”- U-clamp: 63mm
front flange: 65mm

4”- U-clamp: 101mm
front flange:104mm

4½”- panel mount adapter 104mm minimum (not shown)

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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