

Pressure Gauges

Bourdon Tube Pressure Gauges

Field Repairable

All Stainless Steel Construction Panel Builder Gauges • Type 233.54

Application

Suitable for corrosive environments compatible with 316 stainless steel wetted parts, dry and liquid fillable case, where vibration and/or pressure pulsation occur in liquid or gaseous media which will not obstruct the pressure system.

Sizes

21/2" & 4" (63 & 100 mm)

Accuracy

21/2": ±1.5% of span

4": ±1.0% of span (ASME B40.1 Grade 1A)

Ranges (All ranges not stocked) Vacuum / Compound to 30"HG / 0 / 200 PSI Pressure from 15 PSI to 15,000 PSI or other equivalent units of pressure or vacuum

Working Range

2¹/₂" Steady: 3/4 of full scale value Fluctuating: 2/3 of 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:
 -4°F to 140°F (-20°C to 60°C)
 Note 1

 Media:
 max. 212°F (+100°C)
 Note 1

Temperature Error

Additional error when temperature changes from reference temperature of $68^{\circ}F$ ($20^{\circ}C$) $\pm 0.4\%$ for every $18^{\circ}F$ ($10^{\circ}C$) rising or falling. Percentage of span.

Standard Features

Connection

Material: 316 stainless steel Center back mount (CBM) 2½" Lower back mount (LBM) 4" 1/4" NPT or 1/2" NPTlimited to wrench flat area

Bourdon Tube

Material: 316 stainless steel 30"Hg (Vac) to 1000 PSI C-type $(2\frac{1}{2}")$ 30"Hg (Vac) to 1500 PSI C-type (4")1500 PSI to 15,000 PSI helical type $(2\frac{1}{2}")$ 2000 PSI to 15,000 PSI helical type (4")

Movement

300-Series stainless steel

Dial

White aluminum with black lettering. 21/2" with stop pin.

Pointer

Black aluminum, friction adjustable

Case

304 stainless steel with vent plug and polished stainless steel bayonet ring. EPDM o-ring between case and connection (4") Welded case/socket connection (2½")



Front Flange

300-series stainless steel, polished

Restrictor

316 stainless steel. 0.012" (0.3 mm) orifice, standard for ranges 1500 PSI and higher

Weather Protection Weather tight (NEMA 4X / IP 65)

Standard Scale PSI, PSI/BAR, PSI/KG/CM²

Window Gasket Buna-N

Window Laminated safety glass

Case Filling

Glycerine

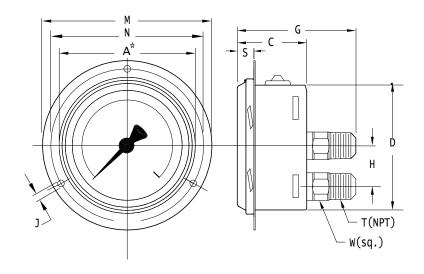
ORDER OPTIONS (min. order may apply)

Improved accuracy to $\pm 0.5\%$ of span (4" only) Custom dial layout Brass wetted parts (**213.54**) Monel® wetted parts (**263.54**) 316 SS threaded restrictor Silicone or fluorolube fill (NOTE 1) Acrylic window or flat glass window Special connections limited to wrench flat area Other pressure scales available: Bar, kPa, Kg/cm² and dual scales DIN standards Drag pointer

 Note 1
 Temperature Ranges (Liquid filled gauges) Glycerine:
 -4°F to 140°F (-20°C to 60°C)

 Silicone:
 -40°F to 140°F (-40°C to 60°C)

Dimensions



2XX.54 CBM/LBM/FF

A* NOMINAL SIZE

TYPE	WEIGHT	KEY	A *	С	D	G	н	J	М	Ν	S	Т	w
2XX.54 2.5"	0.50 lbs.	mm	63	33.5	62	55.5	-	3.6	85	75	12		14
		in	2.5	1.32	2.44	2.19		0.14	3.35	2.95	0.47	1/4"	0.55
2XX.54 4"	2.0 lbs.	mm	100	49.5	100	81	30	4.8	132	116	15		22
		in	4	1.95	3.94	3.19	1.18	0.19	5.2	4.57	0.59	1/2"	0.87

NOTE: For 4" gauges with 1/4" NPT connections, reduce B dimension by 5 mm (0.2 in.).

Panel Cutouts

(2½") - 2.56" / 65 mm (4") - 4.13" / 105 mm



 $\label{eq:Monelson} \begin{array}{l} \mbox{Monels}^{\circ} \mbox{ is a registered trademark of the INCO family of companies.} \\ \mbox{Halocarbon}^{\circ} \mbox{ is a registered trademark of the Halocarbon Products Corporation.} \end{array}$

Ordering Information:

State computer part number (if available) / type number / size / range / connection size and location / options required.

WIKA reserves the right to make design changes without prior notice.

WIKA Instrument Corporation 1000 Wiegand Boulevard Lawrenceville, Georgia 30043-5868 1-888-WIKA-USA / (770) 513-8200 (in GA) Fax (770) 338-5118 http://www.wika.com