



Bourdon Tube Pressure Gauges

Stainless Steel Case

Stainless Steel Wetted Parts

Process Industry Series Liquid Fillable • Type 23X.50

Pressure Gauges

Application

Industrial type gauge design for fluid medium which does not clog connection or corrode 316 stainless steel.

Example: process, chemical, petrochemical equipment.

Sizes (All sizes not stocked)

6" (160 mm)

Accuracy

±1.0% of span (ASME B40.1 Grade 1A)

Ranges (All ranges not stocked)

Vacuum / Compound to 30"Hg / 0 / 200 PSI

Pressure from 10 PSI to 20,000 PSI

or other equivalent units of pressure or vacuum

Working Range

| | | |
|-----|--------------|-------------------------|
| 2½" | Steady: | 3/4 of full scale value |
| | Fluctuating: | 2/3 of full scale value |
| | Short time: | full scale value |

| | | |
|---------|--------------|------------------------|
| 4" & 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) ^{Note 1}

Media: max. 212°F (+100°C)

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.

Standard Features

Connection

Material: 316 stainless steel

Lower mount (LM)

Lower back mount (LBM)

Welded to case

1/4" NPT or 1/2" NPT limited to wrench flat area

Bourdon Tube

Material: 316 stainless steel

30"Hg (Vac) to 1000 PSI C-type

1500 PSI to 20,000 PSI helical type

Movement

316 stainless steel

Dial

White aluminum with black lettering.

Pointer

Black aluminum - adjustable

Case

304 stainless steel with polished twist lock ring and blow out plug. Blow-out plug provided with venting lever standard for ranges 300PSI and lower.



Weather Protection

Weather resistant (NEMA 3 / IP 54) - dry case

Weather tight (NEMA 4X / IP 65) - liquid-filled case

Standard Scale

PSI, PSI/BAR, PSI/Kg/cm²

Window Gasket

Buna-N

Window

Laminated safety glass

Order Options (min. order may apply)

316 SS threaded restrictor

Front flange stainless steel polished

Rear flange stainless steel

U-clamp bracket with SS polished profile ring

316 SS case material

Glass window

Cleaned for oxygen service

Special connections limited to wrench flat area

Externally adjustable red drag pointer (max. hand)

Externally adjustable red mark pointer (set pointer)

DIN standards

Custom dial layout

Other pressure scales available:

Bar, kPa, MPa, Kg/cm² and dual scales

Alarm contact switches (magnetic or inductive)

Transmitters

Glycerine, silicone or Fluorlube case filling (**Type 233.50**)

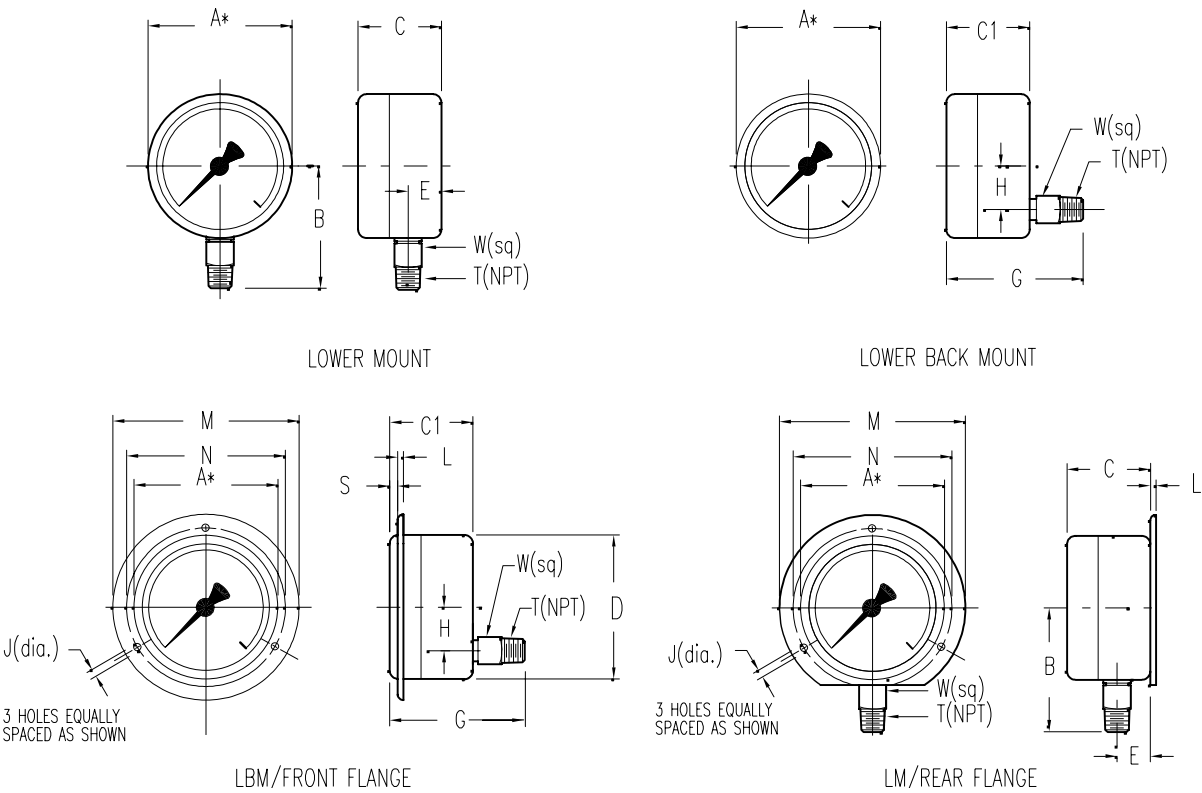
Note 1 Temperature Ranges (Liquid filled gauges)

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

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

APM 23X.50
(APM 02.02)

Dimensions:



A* NOMINAL SIZE

| TYPE/SIZE | WEIGHT | KEY | A* | B (1) | C (2) | C1 (2) | D | E | G | H (3) | J | L | M | N | S | T | W |
|--------------|---|-----|------|-------|-------|--------|------|------|------|-------|------|------|------|------|-----|------|-----|
| 23X.50 6" | 2.42 lbs. + 2.0 lbs. if liq. fill | mm | 160 | 116 | 49.5 | 49.5 | 159 | 15.5 | 81 | 50 | 5.8 | 3 | 196 | 178 | 5 | 1/2" | 22 |
| | | in | 6.00 | 4.57 | 1.95 | 1.95 | 6.26 | 0.61 | 3.19 | 1.97 | 0.23 | 0.12 | 7.72 | 7.00 | 0.2 | | .86 |

(1) For 1/4" NPT connections, B dimension changes to 80mm / 3.15 in. (4") or 111mm / 4.37 in (6").
(2) For LM, range 20,000PSI and LBM ranges above 1,000PSI , C dimension changes to 65.5 mm / 2.58"

Recommended panel cut-out: D + 1.5mm