



Bourdon Tube Pressure Gauges

Solid-Front Turret Style Thermoplastic Case

4½" & 6" Process Industry Series
316SS Wetted Parts • Type 23X.34

Pressure Gauges

Application

Industrial type suitable for corrosive environments where the fluid medium does not clog connection or corrode wetted part material. Field convertible to a liquid filled gauge for severe vibration conditions. Solid front, blow-out back case design meets safety requirements of ASME B40.1.

Size

4½"(115mm) & 6" (152 mm) dial size

Accuracy

± 0.5% of span (ASME B40.1 Grade 2A)

Ranges

Vacuum / Compound to 30"HG / 0 / 400 PSI
Pressure from 15 PSI to 30,000 PSI
or other equivalent units of pressure or vacuum
Receiver scale: 3...15psi

Working Range

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

Operating Temperature

Ambient: -40°F to 150°F (-40°C to 65.6°C) ^{Note 1}

Media:

212°F- max.
**500°F - dry gauge (intermittent) Optional
**250°F - Liquid filled (intermittent) Optional
**300°F - Dampened Movement (4½" only)

Temperature Error

Additional error when temperature changes from reference temperature of 68°F (20°C), approximately ±1.5% per 100°F (55.5°CΔ T) rising or falling. Percentage of span.

Standard Features

Connection

Material: 316 stainless steel
Lower mount (LM) + Lower back mount (LBM)
1/4" NPT and 1/2" NPT have M4 internal tap - STD.

Bourdon Tube

Material: 316 stainless steel
30" Hg (Vac) to 1000 PSI C-type
1500 PSI to 10,000 PSI helical type

Movement

Stainless steel
Internal stop pin at 1.3 times full scale value
Overload and underload stops- standard
Optional: dampened movement

Shock & Vibration

Shock resistance up to 100G
Optional: up to 400G
Optional: vibration resistance up to 10G

Cycle Testing

400,000-2,000,000*cycles, depending upon pressure range (4½" only)

*liquid filled

Dial

White aluminum with black lettering. Stop pin at 6 o'clock



Pointer

Adjustable black all

Case

Black glass reinforced thermoplastic (PBTP)
Solid front, blow-out back
Turret style case with built in rear flange lugs

Weather Protection

Weather resistant (NEMA 3 / IP 54) - dry case
Weather tight (NEMA 4X / IP 65) - liquid-filled case

Standard Scale

PSI
Receiver scales 0/100% linear, 0/10 sq.rt.

Window Gasket

Buna-N

Window

Acrylic

Case Filling

None - 232.34
Glycerine - 233.34
Dampened movement - 239.34

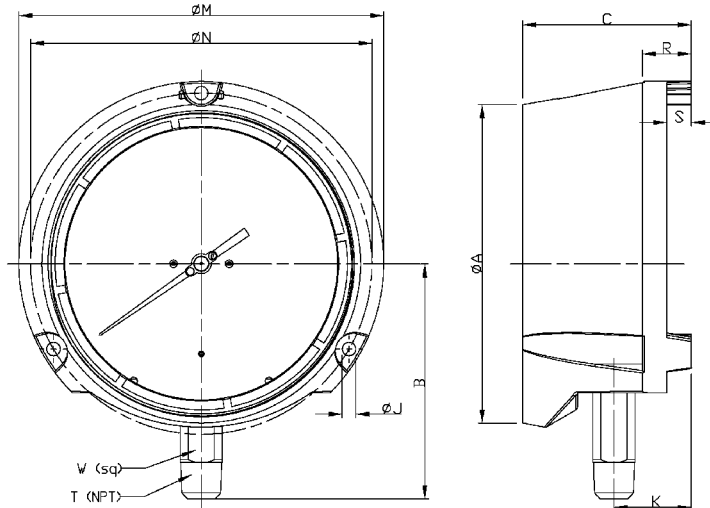
Order Options (min. order may apply)

Overpressure protection up to 5x scale (limited ranges only)
Threaded restrictor
Silicone dampened movement
Panel mounting adaptor kit (field assembled) (4½" only)
Movement with PTFE coated gears
Glycerine, silicone, or fluorolube case filling ^{Note 1}
Field conversion kit for glycerine, silicone, or fluorolube fill
Cleaned for oxygen service
Glass window
Safety glass window
Externally adjustable red drag pointer (max. hand) (4½" only)
Externally adjustable red mark pointer (4½" only)
Special connections limited to socket square size
DIN standards
Custom dial layout
Other pressure scales available:
Bar, kPa, MPa, Kg/cm², and dual scales
Alarm contact switches (4½" only)
Shock resistant up to 400G
Vibration resistant up to 10G
Luminescent dial (4½" only)
Alloy steel socket connection (4½" only)
Chemical seals available

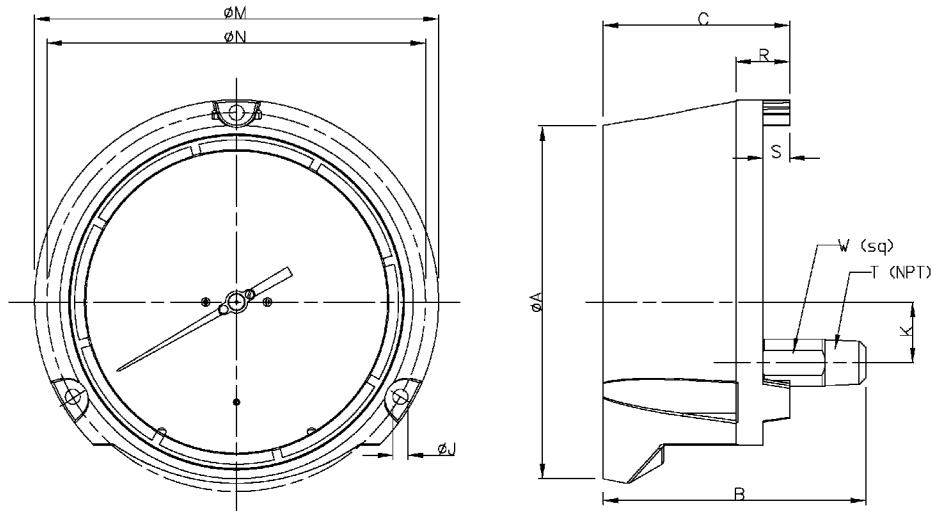
Note 1 Temperature Ranges (Liquid filled gauges)
Glycerine: -4°F to 150°F (-20°C to 65.6°C)
Silicone: -40°F to 150°F (-40°C to 65.6°C)

APM 23X.34
(Apm 02.10)

Dimensions:



TYPE	SIZE	WEIGHT	KEY	A	B	C	J	K	M	N	R	S	T	W	
2XX.34 LM	4.5"	2lbs.* (dry)	mm	128	103	84	6.3	40	148	136.5	25	12.5	--	22	* liquid filled 3lbs.
			inch	5	4.06	3.31	0.248	1.57	5.83	5.37	0.99	0.49	1/2"	0.87	
	6"	3lbs.* (dry)	mm	164	122.5	88	7.1	40.2	190	177.8	25.4	12.7	--	22	* liquid filled 4lbs.
			inch	6.46	4.82	3.46	0.28	1.58	7.5	7	1	0.5	1/2"	0.87	



TYPE	SIZE	WEIGHT	KEY	A	B	C	J	K	M	N	R	S	T	W	
2XX.34 LBM	4.5"	2lbs.* (dry)	mm	128	120.3	84	6.3	28.5	148	136.5	25.1	12.5	--	22	* liquid filled 3lbs
			inch	5	4.736	3.31	0.248	1.122	5.83	5.37	0.99	0.49	1/2"	0.87	
	6"	3lbs.* (dry)	mm	164	0.191	88	7.1	28.5	190	177.8	25.4	12.7	--	22	* liquid filled 4lbs
			inch	6.46	4.86	3.46	0.28	1.122	7.5	7	1	0.5	1/2"	0.87	

**Technical Note: Maximum continuous media temperatures of 212°F is recommended. Maximum temperatures shown are for intermittent, short term exposure. User should consider temperature error and gauge component degradation when exposing gauge to any media or ambient temperature above 140 °F. For continuous use in either ambient or media temperatures above 140 °F, a diaphragm seal or other heat dissipating means is recommended. Consult factory for technical inquiries and application assistance.

Ordering Information:

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

Specifications given in this price list represent the state of engineering at the time of printing. Modifications may take place and the specified materials may change without prior notice



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