

Bourdon Tube Pressure Gauges

ABS Plastic or Painted Steel Case
Copper Alloy Wetted Parts

Center Back Mount Standard Series Type 111.12

Pressure Gauges

Application

Fluid medium which does not clog connection port or corrode copper alloy. Example: hydraulic and pneumatic systems, pumps, compressors, water systems, regulators.

Sizes (All sizes not stocked)

 $1\frac{1}{2}$ ", 2", $2\frac{1}{2}$ " and 4" (40, 50, 63 and 100 mm) $3\frac{1}{2}$ " (94mm) with u-clamp only

Accuracy

± 3/2/3% of span (ASME B40.1 Grade B)

Ranges (All ranges not stocked)

Vacuum/Compound to 30" HG/0/200 psi Pressure from 15 psi to 6000 psi

(max. 600 psi for $3\frac{1}{2}$ " size) or other equivalent

of pressure or vacuum Receiver scales 3...15psi

Working Range

Steady: 3/4 of full scale value Fluctuating: 2/3 of full scale value Short time: full scale value

Operating Temperature

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

Media: max. 140°F (+60°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: copper alloy Center back mount (CBM) 1/8" or 1/4" NPT

Bourdon Tube

Material: copper alloy 30" Hg (Vac) to 600 psi C-type 800 psi to 6000 psi helical type

Movement

Copperalloy

Dia

White plastic with stop pin (1½", 2"& 2½") White aluminum with stop pin (3½", 4") Black or black and red lettering

Pointer

Black ABS plastic (3½" black aluminum) non-adjustable

Case

Black ABS plastic (1½", 2"& 2½") Black painted steel (3½" & 4")

Standard Scales

1½" psi, psi/kg/cm²

2" psi, psi/kpa, psi/kg/cm²

2½" psi/kpa, psi/kg/cm², 0/100% of linear, 0/10 sq. rt.

3½" psi, 0/100% of linear, 0/10 sq. rt.

4" psi/kpa, psi/kg/cm², 0/100% of linear, 0/10 sq. rt.



Bezel

None (1½", 2", 2½", & 4") Black-painted steel (3½" & 4")

Window

Snap-in acrylic (2½", & 4") Threaded polycarbonate (3½")

U-clamp Option

1½": steel zinc plated u-clamp brackets with two threaded studs and ss polished profile ring

2" & 2½": steel zinc plated u-clamp brackets with two threaded studs and steel chrome plated profile ring

3½": steel zinc plated j-clamps, without ring

Order Options (min. order may apply)

Front flange (except for size 3½")

Accuracy ± 2/1/2% of span (ASME B40.1 Grade A)

Brass threaded or press fit restrictor

Plastic adaptor ring for non-metric panel cutout (2", 21/2")

Slip-fit or friction ring (not 3½") Case with blow-out plug (3½")

Glass window (not 31/2")

Black painted steel case

Stainless steel case (not 31/2")

Special case colors

Special connections limited to wrench flat area

Cleaned for oxygen service

Nickel plated connection

Medical specification

Rubber cover (2, 21/2")

Custom dial layout

Other pressure scales available:

Bar, kPa, Mpa, Kg/cm² and dual scales

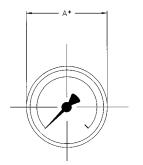
DIN standards

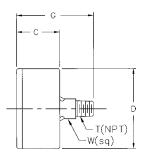
Red set pointer on aluminum dial or snap-on acrylic window (not 3½") Red drag pointer (2½" only) (max. hand)

APM111.12

(APM 01.01)

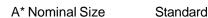
Dimensions:

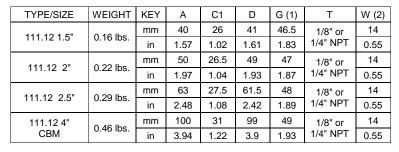


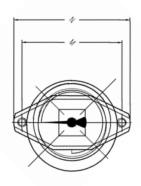


111.12 CBM - standard 1½", 2", 2½", 4"

111.12 CBM - with U-clamp option

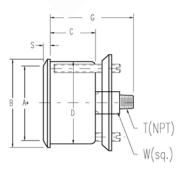






With front flange

	-	-												
	Weight	Key	A*	C1	D	G(1)	J	L	М	N	S	T	W	ı
111.12 2"	0.20 lb	mm	50	26.5	55	48	3.6	2	71	60	3.8	1/8" or	14	
CBM/FF	0.30 lbs.	in	1.97	1.04	2.17	1.89	0.14	0.08	2.8	2.36	0.15	1/4" NPT	.55	ı
111.12 2.5" CBM/FF	0.40 lbs.	mm	63	27.5	68	52.1	3.6	2	85	75	3.8	1/8" or	14	ì
		in	2.48	1.08	2.68	2.05	0.14	0.08	3.35	2.95	0.15	1/4" NPT	.55	ı

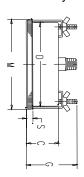


With U-clamp

A* NOMINAL SIZE

7. 11011111712 0122											
111.12	WEIGHT	KEY	Α*	В	C1	D	G	M	N	Т	W
1.5"	0.27 lbs.	mm	40	44	24	40	45	47	59	1/8" or 1/4" NPT	14
CBM/UC		in	1.5	1.73	0.95	1.57	1.77	1.85	2.32		.55
111.12 2"	0.33 lbs.	mm	50	54	24	49	47	57	70	1/8" or 1/4" NPT	14
CBM/UC		in	2.0	2.13	0.95	1.93	1.85	2.24	2.76		.55
111.12 2½"	0.35 lbs.	mm	63	67	26	62	53	78	91	1/8" or	14
CBM/UC		in	2.5	2.64	1.02	2.44	2.09	3.07	3.58	1/4" NPT	.55
111.12 3½"	0.55 lbs.	mm	80	100	36	93	57	100	1		14
CBM/UC		in	3.5	3.93	1.42	3.66	2.24	3.93		1/4" NPT	.55

111.12-31/2" only CBM- U-clamp



NOTE: (1) For gauges with 1/8" NPT connections, subtract 0.08 inches (2mm) from G dimension.

Recommened panel cut-out D+ 1MM

Total Performance™

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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