



Process Gauges

Portable 3" Test Gauges

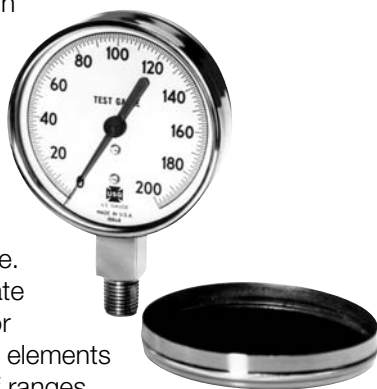
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35 Vantage Point Drive // Rochester, NY 14624 // Call 1.800.800.5001

DESCRIPTION

U.S. Gauge 3" test gauges combine high accuracy, rugged construction and portability for a wide range of field and production testing applications.

Instruments are available in chrome plated brass Series 508/1408, as well as in economical, lightweight ABS chrome plated Series 1409 case designs. Optional felt-lined cover protects window against scratching or breakage. Test gauges incorporate diaphragm capsules or bourdon tube sensing elements for a wide selection of ranges from 30" Hg vacuum up to 5000 psi. A knife-edged, adjustable pointer improves viewing and simplifies front zero calibration.



SPECIFICATIONS

DIAL SIZE: 3"

CASE: 508, 1408: Brass, polished chrome finish; 1409: ABS, chrome plated

RING: 508, 1408: Brass, polished chrome, threaded; 1409: ABS, chrome plated

COVER (Optional): 508, 1408: Brass, polished chrome finish; 1409: ABS, chrome plated

WINDOW: 508, 1408: Polycarbonate; 1409: Polycarbonate

POINTER: Knife-edged, black, adjustable

DIAL: Steel, white background with black markings. Arc of calibration is 270° on 508. Arc of calibration on 1408 and 1409 is 300° except 0 to 5000 psi range arc is 270°

MOVEMENT: Geared with moving parts of dissimilar metals to minimize friction and wear

PRESSURE ELEMENT:

508: Diaphragm, Ni-Span-C

Bourdon Tube: 1408, 1409

Phosphor bronze: 30 through 1000 psi

Beryllium copper: 1500 through 5000 psi

CONNECTION: 1/4-18 ANPT low mount, brass

ACCURACY:

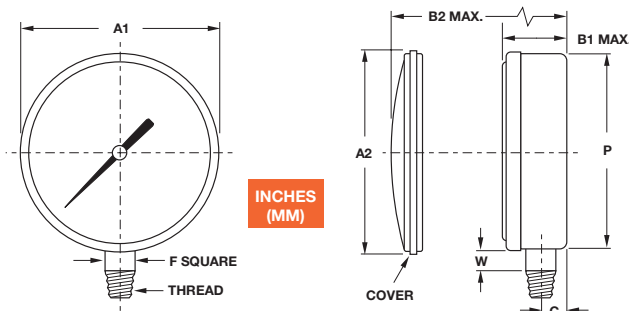
±0.5% of span in 0 to 30" Hg VAC through 0 to 1000 psi (Grade 2A)

±1% of span in 0 to 1500 psi through 0 to 5000 psi (Grade 1A)

STANDARD RANGES

MAXIMUM INDICATION	FIGURE INTERVALS	SMALLEST INTERVALS
Model 508		
30" Hg VAC	5" Hg VAC	0.2" Hg VAC
5	1	0.05
10	1	0.1
15	3	0.1
Models 1408 and 1409		
30	2	0.1
60	5	0.2
100	10	0.5
160	10	1
200	20	1
300	20	1
600	50	2
1000	100	5
1500	150	10
2000	200	10
3000	500	20
5000	500	25

Pressure ranges in psi unless otherwise indicated



MODEL	UNIT	A1	A2	B1	B2	C	F	P	W
508 (3")	inches	3.22	3.33	1.64	1.96	.63	.555	3.12	.36
	mm	81.79	85.34	41.66	49.53	16.00	14.10	79.25	7.37
1408 (3")	inches	3.22	3.33	1.26	1.58	.42	.625	3.13	.77
	mm	81.79	85.34	32.00	40.39	11.18	15.85	79.50	17.78
1409 (3")	inches	3.40	3.55	1.38	1.69	.54	.625	3.23	.67
	mm	86.36	90.17	35.81	40.64	13.72	16.00	82.04	17.02

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SPEC NUMBER SELECTION CHART

3" Portable Test Gauges	Model No. 508 1/4-18 ANPT, Low Mount	Model No. 1408 1/4-18 ANPT, Low Mount	Model No. 1409 1/4-18 ANPT, Low Mount
Bourdon Tube	Diaphragm, Ni-Span C	Phosphor Bronze (30 psi through 1000 psi) Beryllium Copper (1,500 psi through 5,000 psi)	Phosphor Bronze (30 psi through 1000 psi) Beryllium Copper (1,500 psi through 5,000 psi)
Connection	Brass	Brass	Brass
Range	Spec No.	Spec No.	Spec No.
0-30"Hg	13257	—	—
0-5 psi	47864	—	—
0-10 psi	47865	—	—
0-15 psi	12309	—	—
0-30 psi	—	44578	161947
0-60 psi	—	44579	161948
0-100 psi	—	44580	161949
0-160 psi	—	44581	161950
0-200 psi	—	44582	161951
0-300 psi	—	44583	161952
0-600 psi	—	44584	161953
0-1000 psi	—	44585	161954
0-1500 psi	—	78875	161955
0-2000 psi	—	52513	161956
0-3000 psi	—	149690	161957
0-5000 psi	—	50315	161958
Optional Protective Cap	152459	152459	161959

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