

4½", 6" - 1009 Pressure Gauge

FEATURES

- **PLUS!**[™] Performance (optional) dampens vibration, shock and pulsation effects
- Dry and liquid filled versions



SPECIFICATIONS

Accuracy:	±1% of span (ASME B40.100 Grade 1A)
Process Connection Location:	Lower or lower back
Ranges:	A - Bronze: Vacuum, compound to 1,000 psi S - SS: Vacuum, compound to 20,000 psi P - Monel [®] : Vacuum, compound to 30,000 psi
Window Material:	Glass
Pointer:	Micrometer, adjustable
Weather Protection:	Dry Case: IP54 Liquid filled or hermetically sealed case: IP 65
Mounting Option:	U-clamp, front flange and back flange
Dampening:	PLUS! [™] Performance and liquid fill

WETTED COMPONENTS

Model	Bourdon Tube	Process Connection Material
1009A	Bronze	Brass
1009S	316L SS	316L SS
1009P	Monel [®]	Monel [®]

NON-WETTED COMPONENTS

Model	Case	Ring
1009	304 SS	304 SS, bayonet

MIN/MAX TEMPERATURE LIMITS

Version	Ambient	Process	Storage
Dry	-20°F to 200°F (-29°C to 93°C)	-20°F to 250°F (-29°C to 121°C)	-40°F to 250°F (-40°C to 121°C)
PLUS! [™]	-40°F to 150°F (-40°C to 66°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 150°F (-40°C to 66°C)
Glycerin Fill	20°F to 150°F (-7°C to 66°C)	20°F to 150°F (-7°C to 66°C)	0°F to 150°F (-18°C to 66°C)
Silicone Fill	-40°F to 150°F (-40°C to 66°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 150°F (-40°C to 66°C)
Halocarbon [®] Fill	-40°F to 150°F (-40°C to 66°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 150°F (-40°C to 66°C)



1009
4½" dial size



1009
6" dial size



ORDERING CODE:	Example:	45	1009	A	L	02	L	XC4	100#
Dial Size									
45 - 4½" SS gauge		45							
60 - 6" SS gauge									
Model Code									
1009 - 304 SS case, open front			1009						
System									
A - Phosphor bronze tube/brass process connection, (1,000 psi max.)				A					
S - 316L SS tube/316L SS process connection, (20,000 psi max.)									
P - K-Monel [®] 500 tube, Monel [®] 400 process connection, (30,000 psi max.)									
Case Fill									
Blank - dry gauge									
L - Liquid filled case (glycerin standard)					L				
Process Connection Size									
02 - ¼ NPT Male, max pressure 20,000 psi						02			
04 - ½ NPT Male, max pressure 20,000 psi									
09 - 9/16"-18 UNF-2B Aminco [®] high pressure fitting, (standard for pressures over 20,000 psi)									
Process Connection Location									
L - Lower							L		
B - Lower back									
Options (if choosing an option(s) must include an "X")									
C4 - Individual calibration chart (in accordance with ASME B 40.100 Accuracy of unit traceable to NIST)								X	C4
LL - PLUS! [™] Performance									
GV - Silicone case fill									
GX - Halocarbon [®] case fill									
LJ - Hermetically sealed									
TS - Throttle screw (standard with hermetically sealed or liquid filled gauge)									
6B - Cleaned for oxygen service (SW system only)									
PD - Plastic window (standard with hermetically sealed or liquid filled gauge)									
SG - Safety glass									
EP - Maximum pointer, adjustable (not available with liquid fill)									
EO - Adjustable red set hand, (N/A with liquid fill)									
SH - Red set hand, stationary									
NH - SS tag wired to case									
FF - Front flange									
BF - Back flange									
UC - U-clamp									
SM - All SS movement									
Range (see range table on page 34 for all standard ranges)									
100# - 100 psi									100#

Standard Pressure Ranges

Single Scale Models: 1008S, 1009, 1010, 1017, 1020 & 2008						Notes
	psi	bar	kPa	MPa	kg/cm ²	
Vacuum	30IMV	N1BR	N100KP	N0.1MP	N1KG	
	-	N1/0.6BR	N100/60KP	N0.1/0.06MP	N1/0.6KG	
Compound	30IMV&15#	-	-	-	-	
	-	N1/1.5BR	N100/150KP	N0.1/0.15MP	N1/1.5KG	
	30IMV&30#	-	-	-	-	
	-	N1/3BR	N100/300KP	N0.1/0.3MP	N1/3KG	
	30IMV&60#	-	-	-	-	
	-	N1/5BR	N100/500KP	N0.1/0.5MP	N1/5KG	
	-	-	-	-	-	
	30IMV&100#	-	-	-	-	
	-	N1/9BR	N100/900KP	N0.1/9MP	N1/9KG	
	15#	1BR	100KP	0.1MP	1KG	
-	1.6BR	160KP	0.16MP	1.6KG		
30#	-	-	-	-		
-	2.5BR	250KP	0.25MP	2.5KG		
60#	4BR	400KP	0.4MP	4KG		
-	6BR	600KP	0.6MP	6KG		
100#	-	-	-	-		
-	10BR	1000KP	1MP	10KG		
160#	-	-	-	-		
200#	-	-	-	-		
-	16BR	1600KP	1.6MP	16KG		
300#	-	-	-	-		
-	25BR	2500KP	2.5MP	25KG		
400#	-	-	-	-		
600#	40BR	4000KP	4MP	40KG		
800#	-	-	-	-		
-	60BR	6000KP	6MP	60KG		
1000#	-	-	-	-		
1500#	100BR	10000KP	10MP	100KG		
2000#	-	-	-	-		
-	160BR	16000KP	16MP	160KG		
3000#	-	-	-	-		
-	250BR	25000KP	25MP	250KG		
4000#	-	-	-	-		
5000#	-	-	-	-		
6000#	400BR	40000KP	40MP	400KG		
-	600BR	60000KP	60MP	600KG		
8000#	-	-	-	-		
10000#	-	-	-	-		
15000#	1000BR	100000KP	100MP	1,000KG		
20000#					4½", 6" 1009, 1010, 1017 SS systems only	
30000#					4½", 6" 1009, 1010, 1017 Monel [®] systems only	

ORDERING CODE	Example:	30	2032	S	D	20	L	XBL	1000#
Dial Size									
30 - 3.0"		30							
Model (Accuracy)									
2032 - Battery power			2032						
2132 - 4-20mA loop									
2232 - 12-36 Vdc									
2036 - Battery power (1½" inline Tri-Clamp® conn. only)									
2136 - 4-20mA Loop (1½" inline Tri-Clamp® conn. only)									
2236 - 12-36 Vdc (1½" inline Tri-Clamp® conn. only)									
Standard									
S - 316 SS				S					
Case									
D - Dry					D				
Seal Size Process Connection									
Seal Size (2-32)									
75 - ¾" Tri-Clamp®									
15 - 1½" Tri-Clamp®									
20 - 2.0" Tri-Clamp®						20			
Seal Size (2-36)									
15 - 1½" Inline									
Process Connection Location									
L - Lower							L		
E - 9 o'clock									
D - 3 o'clock									
T - Top									
Options (if choosing an option(s) must include an "X")									
AO - 4-20mA output for line power gauges								X	
U1 - (1)SPDT Switch (line power gauges only, shielded cable standard with 3" case)									
U2 - (2)SPDT Switch (line power gauges only, shielded cable standard with 3" case)									
BL - Backlight								BL	
BK - Battery back-up									
JZ - Custom cable length									
PP - Protective front cover									
RE - Remote mount seal & sensor (3" shielded cable standard)									
CK - Silicone fill fluid									
CZ - Food grade silicone									
MY - Food grade mineral oil (required for compound and vacuum ranges)									
6B - Cleaned for oxygen service									
CD-1 - Certificate of conformance to specs and/or drawings									
C4 - Individual certified calibration chart									
FF - Flange for panel mounting									
NH - Metal tag wired to case									
NN - Paper tag bonded to case									
MF - Free from mercury certificate									
HN - Mini Hirschmann® connector									
MN - Mylar® tag bonded to case									
Pressure Range									
Compound									
15#&V - Vac. to 15 psi									
30#&V - Vac. to 30 psi									
Gauge									
5# - 0-5 psi									
10# - 0-10 psi									
15# - 0-15 psi									
30# - 0-30 psi									
60# - 0-60 psi									
100# - 0-100 psi									
160# - 0-160 psi									
200# - 0-200 psi									
300# - 0-300 psi									
500# - 0-500 psi									
600# - 0-600 psi									
800# - 0-800 psi									
1000# - 0-1,000 psi									1000#
2000# - 0-2,000 psi									
2500# - 0-2,500 psi									
3000# - 0-3,000 psi									
5000# - 0-5,000 psi									
7000# - 0-7,000 psi									