

2½", 3½" - 1009 Pressure Gauge

FEATURES

- **PLUS!**™ Performance (optional) dampens vibration, shock and pulsation effects
- PowerFlex™ movement provides superior resistance to vibration, shock, and pulsation
- True Zero™ reduces reading errors by using a “zero box” instead of conventional dial pins
- Wide selection of connections



SPECIFICATIONS

Accuracy:	±1% of span (Dry) (ASME B40.100 Grade 1A) ±1.5% of span (Liquid filled)
Process Connection Location:	Lower, lower back, top, 3 o'clock, 9 o'clock
Ranges:	AW: Vacuum, compound to 1,000 psi SW: Vacuum, compound to 15,000 psi
Movement:	304 SS with glass filled polyester segment
Window Material:	Polycarbonate
Pointer:	Black, aluminum
Weather Protection:	IP65 (Plug closed), IP54 (Plug vented) NEMA 4 (Plug closed)
Mounting Option:	U-clamp, front or back flange
Dampening:	Liquid fill or PLUS! ™ Performance

WETTED COMPONENTS

Model	Bourdon Tube	Process Connection Material
SW	316L SS	316L SS
AW	316L SS	Aluminum bronze

NON-WETTED COMPONENTS

Case	Ring (bayonet removable)
304 SS	304 SS
316L SS (optional)	316L SS (optional)

MIN/MAX TEMPERATURE LIMITS

Version	Ambient	Process	Storage
Dry	-40°F to 200°F (-40°C to 93°C)	-40°F to 250°F (-40°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 200°F (-7°C to 93°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)



1009SW Duralife®
2½" dial size



1009AW Duralife®
2½" dial size



1009SW Duralife®
3½" dial size



1009AW Duralife®
3½" dial size



2½", 3½" - 1009 Pressure Gauge

ORDERING CODE:	Example:	251009	SW	L	02	L	XC4	100#
Dial Size/Model Code								
251009 - 2½" SS case		251009						
351009 - 3½" SS case								
System								
AW - 316L SS tube/Aluminum, bronze connection (max. pressure 1,000 psi)								
SW - 316L SS tube/316L SS process connection (max. pressure 15,000 psi)			SW					
Case Fill								
Blank - Dry gauge								
L - Liquid filled case (glycerin standard)				L				
Process Connection Size								
02 - ¼ NPT Male					02			
04 - ½ NPT Male								
RW - SAE - 47/16" - 20 Straight thread with washer, O-ring and nut								
EJ - 7/16" X 20 UNF-3A 37° flare								
KJ - ¼" Straight JIS, BSP - 1009SW								
KA - ¼" Tapered JIS, BSP - 1009SW								
13 - G ¼" DIN								
JP - ¼" Tubing, N/A with throttle plug, N/A ranges above 6,000 psi								
JQ - 6mm Tubing, N/A with throttle plug, N/A ranges above 6,000 psi								
JL - 9/16" 18 UNF-2A, N/A on 25 1009 lower								
Process Connection Location								
L - Lower						L		
B - Lower back								
D - Side (3 o'clock)								
E - Side (9 o'clock)								
T - Top								
Options (if choosing an option(s) must include an "X")							X	
C4 - Individual calibration chart (in accordance with ASME B 40.100 Accuracy of unit traceable to NIST)								C4
LL - PLUS! ™ Performance								
GV - Silicone case fill								
GX - Halocarbon® case fill								
TU - Throttle plug, (1,000 psi max pressure)								
TS - Throttle screw, (15,000 psi max pressure)								
6B - Cleaned for oxygen service (SW system only)								
SG - Safety glass								
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								
YW - 316L SS case and ring								
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	

Standard Differential Pressure Gauge Ranges

1125 & 1127 (210° dial arc) - Single Scale						
psid	kg/cm ²	bar	kPa	Duals Scale Outer Scale psi	1125 Static Pressure Limits	1127 Static Pressure Limits
10# (130° dial arc)	-	-	-	-	30 psi	45 psi
15# (130° dial arc)	-	-	-	-	30 psi	45 psi
-	-	-	-	-	-	45 psi
20#	1.4KSC	1.4BR	140KP	20#	30 psi	45 psi
-	2KSC	2BR	200KP	28#	-	-
30#	-	-	-	-	60 psi	45 psi
-	4KSC	4BR	400KP	55#	-	-
60#	-	-	-	-	120 psi	90 psi
100#	7KSC	7BR	700KP	100#	200 psi	130 psi
160#	11KSC	11BR	1100KP	160#	300 psi	208 psi
200#	14KSC	14BR	1400KP	200#	300 psi	260 psi
300#	20KSC	20BR	2000KP	300#	450 psi	390 psi
400#	28KSC	28BR	2800KP	400#	600 psi	520 psi
600#	40KSC	40BR	4000KP	600#	900 psi	780 psi
800#	56KSC	56KSC	5600KP	800#	1200 psi	1040 psi
1000#	70KSC	70BR	7000KP	1000#	1500 psi	1200 psi
1125A & 1128 (210° dial arc) Zero Center Dial- Single Scale						
psid	kg/cm ²	bar	kPa	Duals Scale Outer Scale psi	1125A Static Pressure Limits	1128 Static Pressure Limits
5/5#	-	-	-	5/5#	30 psi	45 psi
10/10#	0.7/0.7KSC	0.7/0.7BR	70/70KP	10/10#	30 psi	45 psi
15/15#	-	-	-	-	60 psi	45 psi
-	1/1KSC	1/1BR	100/100KP	14/14#	-	-
-	2/2KSC	2/2BR	200/200KP	28/28#	-	-
30/30#	-	-	-	-	120 psi	90 psi
50/50#	3.5/3.5KSC	3.5/3.5BR	350/350KP	50/50#	200 psi	130 psi
80/80#	5.5/5.5KSC	5.5/5.5BR	550/550KP	80/80#	300 psi	208 psi
100/100#	7/7KSC	7/7BR	700/700KP	100/100#	300 psi	260 psi
150/150#	10/10KSC	10/10BR	1000/1000KP	150/150#	450 psi	390 psi
200/200#	14/14KSC	14/14BR	1,400/1400KP	200/200#	600 psi	520 psi
300/300#	20/20KSC	20/20BR	2000/2000KP	300/300#	900 psi	780 psi
400/400#	28/28KSC	28/28BR	2800/2800KP	400/400#	1200 psi	1040 psi
500/500#	35/35KSC	35/35BR	3500/3500KP	500/500#	1500 psi	1200 psi