

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 - ⅝"-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#

1490 Low Pressure Diaphragm Gauges/1495 Receiver

FEATURES

- Glass-filled polysulfone case material
- Re-zero screw allows for minor pointer adjustment
- Polycarbonate removeable window allows for minor zero adjustments



SPECIFICATIONS

Accuracy:	±2-1-2% of span (ASME B40.100 Grade A)
Pointer:	Black, aluminum, fixed
Mounting Options:	Stem, flush (U-clamp for panel mounting)

WETTED COMPONENTS

Model	Diaphragm	Process Connection Material
1490, 1495	Beryllium copper diaphragm	Brass

NON-WETTED COMPONENTS

Model	Case	Ring/Window (one piece)
1490, 1495	Black, glass filled polysulfone	Threaded polycarbonate, ¼ turn

MIN/MAX TEMPERATURE LIMITS

Model	Process
1490, 1495	-20°F to 200°F (-29°C to 93°C)



1490
2½", 3½" dial size



1495
2½", 3½" dial size receiver gauge

ORDERING CODE	Example:	35	1490	A	02	B	XUC	10IWC
Dial Size								
25 - 2½"								
35 - 3½"		35						
Model Code								
1490 - Glass filled polysulfone case			1490					
1495 - Glass filled polysulfone case								
Wetted Material								
A - Beryllium copper, brass, polysulfone, RTV silicone				A				
Process Connection Size								
01 - ⅛ NPT Male								
02 - ¼ NPT Male					02			
Process Connection Location								
L - Lower						B		
B - Center Back								
Options (if choosing an option(s) must include an "X")							X	
AN - 1% Accuracy								
NH - SS tag								
NN - Paper tag								
TU - Thottle plug (throttle plug must be installed for intermittent or continuous use on natural gas service)								
UC - U-clamp							UC	
ZY - FlutterGuard™								
Range (see range table on page 37 for all standard ranges)								
10IW - 0/10 IWC								10IWC

1005, 1005P, 1005S Pressure Gauges

TABLE 1 - OPTIONS (minimums may apply)

13	Glass window/chrome friction ring (not available on 1005P gauges)
14	Lexan window/chrome friction ring (available on 1005P gauges)
7F	FlutterGuard™ logo (can only be used in conjunction with XSF (FlutterGuard option)
AP	Adjustable Pointer
EP	Min/max pointer
M1	Dial marking "Supply"
M2	Dial Marking "Output"
M3	Dial marking "Instrument"
NP	Nickel plated process connection
PR	Receiver gauge (3/15 psi; 0/10 sq. root; 0/100%)
RG	Glass window/black friction ring (not available on 1005P gauges)
RL	Lexan window/black friction ring (not available on 1005P gauges)
RS	RoHS compliant
RU	UL252A listed (only available in 2" dial Type 1005, 1005P; ranges 30-300 psi)

SF	FlutterGuard™ (includes 0.013" orifice throttle plug)
T4	0.007" orifice throttle plug
T5	0.013" orifice throttle plug (0.013" orifice throttle plug standard in ranges 1000-6000 psi)
T6	Dial Marking "Transmit"
T7	0.020" orifice throttle plug
T9	0.063" orifice throttle plug
TC	Telfon® tape on process connection
UC	Panel mounting sleeve (1005P gauges only)
UL	UL404 listed (2" dial Type 1005, 1005P; ranges 1000-6000 psi)
VH	Vent hole in case
YZ	Chrome Plated case (Not available for 1005P; 1005S)
ZO	Bulk pack
ZP	Customer part number on carton/plain white label
ZQ	Customer part number printed directly on carton

TABLE 2

				1005																							
Model																											
Dial Size				1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"		
Case				ABS or Steel	SS	ABS	ABS	ABS	SS	SS	SS	SS	SS	SS	Steel	Steel	ABS	ABS	Steel	ABS or Steel	ABS	ABS	ABS	ABS	Steel	Steel	Steel
Conn. Size				1/8	1/8	1/8	1/4	1/4	1/8	1/8	1/4	1/4	1/4	1/4	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/8	1/8	1/8	1/8
Conn. Type				Lower/Back	Back	Lower/Back	Lower	Back	Lower	Back	Lower	Back	Lower	Back	Lower/Back	Lower/Back	Lower	Back	Lower/Back	Lower/Back	Lower	Back	Lower	Back	Lower	Back	Lower/Back
				AVAILABILITY																							
psi	CODE	bar	CODE																								
30IWCHgVac/0	VAC	-1/0	VAC-ABE	•																							
30IWCHgVac/0/15	15#&VAC	-1/0/1.5	15/V-AAA																								
30IWCHgVac/0/30	30#&VAC																										
30IWCHgVac/0/60	60#&VAC	-1/0/3	60/V-AAU																								
30IWCHgVac/0/100	100#&VAC	-1/0/5	100/V-AAW																								
30IWCHgVac/0/160	160#&VAC		160/V-AYY																								
30IWCHgVac/0/300	300#&VAC		300/V-ABB																								
	0/15	15#	15#-AAA	•																							
		0/1.6	20#-AAB	•																							
	0/30	30#	30#-AAD	•																							
	0/60	60#	60#-AAF	•																							
	0/100	100#	100#-AAG	•																							
		0/7	100#-AAH	•																							
	0/160	160#	160#-AAI	•																							
	0/200	200#	200#-AAL	•																							
	0/300	300#		•																							
	0/400	400#	300#-AAN	•																							
	0/600	600#	600#-AAP	•																							
	0/1000	1000#	1000#-AMK	•																							
	0/1500	1500#	1500#-AMM	•																							
	0/2000	2000#	2000#-AMO	•																							
	0/3000	3000#		•																							
	0/4000	4000#	4000#-AMQ	•																							
	0/5000	5000#		•																							
	0/6000	6000#	6000#-AUE	•																							
kPa	CODE	kg/cm²	CODE																								
-100/0	VAC-AGF	76cmHG/0	VAC-ADP	•																							
		76cmHG/0/1	15/V-ADB																								
-100/0/150	30/V-AFT	76cmHG/0/2	30/V-ADD																								
-100/0/300	60/V-AFV	76cmHG/0/3	60/V-BEI																								
		76cmHG/0/4	60/V-ALQ																								
-100/0/500	100/V-AFX	76cmHG/0/6	100/V-BEJ																								
-100/0/900	160/V-AFZ	76cmHG/0/6	160/V-ADI																								
		76cmHG/0/20	300/V-BEL																								
	0/100	15#-AFB	15#-ACK	•																							
	0/160	20#-AFC		•																							
	0/200	30#-AFD	30#-ACM	•																							
	0/250	30#-AFE	45#-ACO	•																							
	0/400	60#-AFG	60#-ACP	•																							
	0/600	100#-AFH	100#-ACQ	•																							
	0/800	120#-BAT		•																							
	0/1000	160#-AFJ	160#-ACS	•																							
	0/1600	200#-AFM	200#-BEA	•																							
		0/20	300#-BEB	•																							
	0/2500	400#-AFO	400#-ACX	•																							
	0/4000	600#-AFQ	600#-BEC	•																							
		0/35	600#-ACZ	•																							
		0/40	600#-BED	•																							
		0/50	600#-BED	•																							
	0/6000	1000#-BAU	1000#-ANB	•																							
	0/8000	1000#-BAV		•																							
	0/10000	1500#-ATK	1500#-ANC	•																							
	0/16000	2000#-BAW	2000#-BEE	•																							
	0/25000	4000#-BAX	4000#-ANG	•																							
		0/350	5000#-BEF	•																							
	0/40000	6000#-ATU	6000#-BEG	•																							

FOR DUAL SCALE RANGES CONSULT FACTORY

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