

Type 1009 4½" & 6" Stainless Steel Gauge



- 4½" and 6" SS gauges
- Dry and liquid-filled versions
- Micrometer adjustable pointer
- Variety of Bourdon tube materials
- ASME Grade 1A, ±1% of span accuracy
- New PLUS!™ Performance Option:
 - Liquid-filled performance in a dry gauge
 - Fights vibration and pulsations with out liquid-fill headaches
 - Order as option XLL

The 4½" and 6" Ashcroft® Type 1009 gauges are suitable where ambient corrosion is a major concern. Its attractive stainless steel case and ring provides excellent resistance to chemical, weather and corrosion attack. This 1009 has many optional features that allow a user to develop a basic or special product specification. The 1009 is part of the extensive line of Ashcroft stainless steel pressure gauges.

The gauge is available dry, liquid-filled weatherproof or hermetically sealed and now with **PLUS!™** Performance option.

TEMPERATURE LIMITS			
	Ambient	Process	Storage
Dry	-20°F/200°F ⁽¹⁾ (-29°C/93°C)	-20°F/250°F ⁽¹⁾ (-29°C/121°C)	-40°F/250°F (-40°C/121°C)
PLUS!™	-40°F/150°F (-40°C/66°C)	-40°F/200°F (-40°C/93°C)	-40°F/150°F (-40°C/66°C)
LF (glycerin)	20°F/150°F (7°C/66°C)	20°F/150°F (7°C/93°C)	0°F/150°F (-18°C/66°C)
(silicone)	-40°F/150°F (-40°C/66°C)	-40°F/200°F (-40°C/93°C)	-40°F/150°F (-40°C/66°C)
(Halocarbon®)	-40°F/150°F (-40°C/66°C)	-40°F/200°F (-40°C/93°C)	-40°F/150°F (-40°C/66°C)

Note: Other than discoloration of the dial and hardening of the gasketing that may occur as ambient or process temperatures exceeds 150°F, non-liquid-filled gauges with standard glass windows, can withstand continuous operating temperatures up to 250°F (121°C). Liquid-filled gauges can withstand 200°F (93°C) but glycerin fill and acrylic window will tend to yellow. Accuracy at temperatures above or below the reference ambient temperature of 68°F will be affected by approximately .4% per 25°F. Gauges with welded joints will withstand 750°F (450°F (232°C) with silver brazed joints) for short times without rupture, although other parts of the gauge will be destroyed and calibration will be lost. For continuous use and for process or ambient temperatures above 250°F (121°C), a diaphragm seal or capillary or siphon is recommended.

PRODUCT SPECIFICATIONS

Model Number:	1009
Accuracy:	1% full scale (Grade A, ASME B40.100)
Ranges:	Vacuum – 30,000 psi
Dial Size:	4½" and 6" diameter
Case:	Open front
Case Material:	304 SS
Weather Protection:	Dry Case: IP54 Liquid filled or hermetically sealed case: IP 65
Ring Type:	304 SS, bayonet
Window:	Glass
Dial:	Aluminum, white background, black figures and graduations.
Pointer:	Micrometer adjustable
Movement:	400 SS (conventional)
Bourdon Tube and Socket:	Bronze/Brass (A) ⁽¹⁾ 316L SS/316L SS (S) ⁽²⁾ Monel®/Monel® (P) ⁽²⁾

Connection Size:	¼, ½ NPT
Connection Location:	Lower and back

PRODUCT OPTIONS

PLUS! Performance:	XLL
Fill:	L-Glycerin-Standard XGV-Silicone-Optional XGX-Halocarbon®-Optional

Weatherproof	
Hermetic Seal:	XLJ
Panel Mount	
Front Flange:	XFF
Panel Mount	
U-Clamp:	XUC
Surface Mount:	XBF
Oxygen Clean:	X6B
Window	
Acrylic:	XPD
Shatterproof	
Glass:	XSG

⁽¹⁾ Joints silver brazed
⁽²⁾ Joints welded

45/60 1009 GAUGE PRODUCT CODING

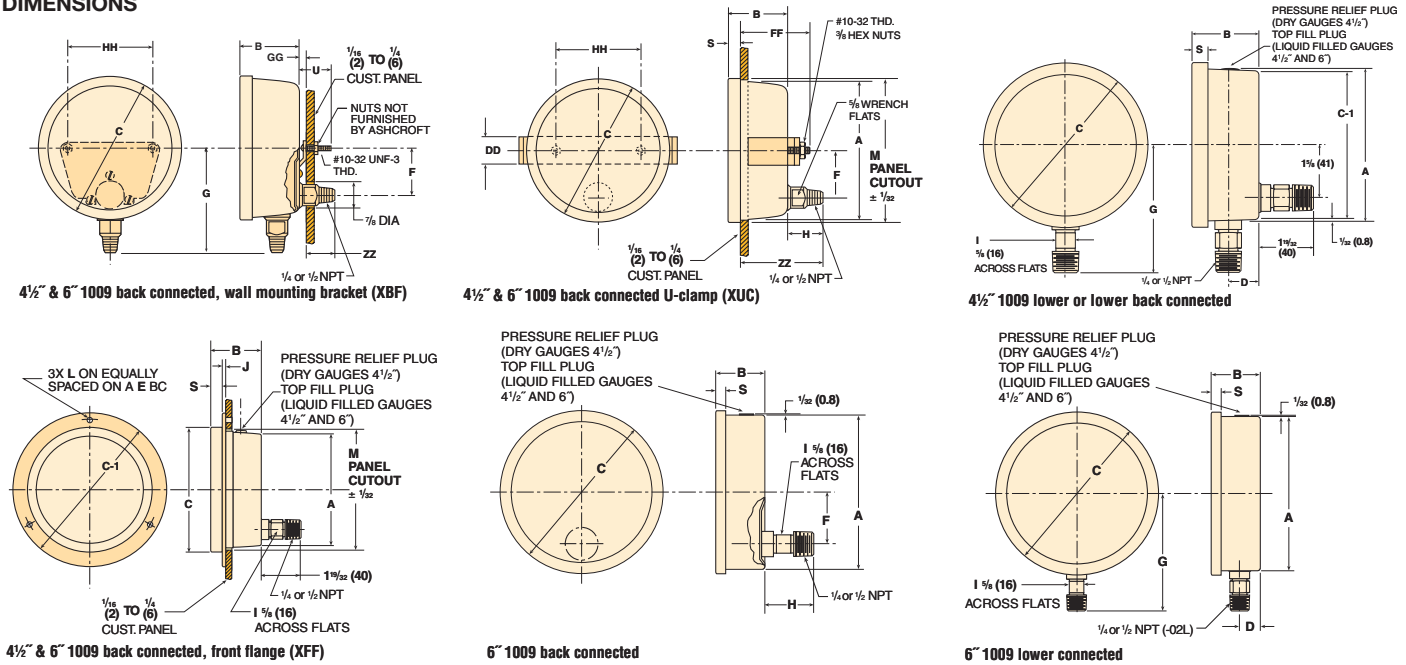
Typical Code:

45	1009	S		L	04	L	XSG		100#
SIZE	TYPE NUMBER	SYSTEM (Tube & Socket)		CASE DESIGN	PROCESS CONN. SIZE	CONNECTION LOCATION	VARIATIONS	RANGE	ENGINEERING UNITS ⁽¹⁾
(45) 4½"	1009	Code	Bourdon Tube	Socket	Code	Description	(GV) Silicone Case Fill	15	(#) PSI
(60) 6"		(A)	Phos Brz ⁽¹⁾	Brass	(02)	¼ Male ⁽¹⁾	(GX) Halocarbon Case Fill	30	(BR) Bar
		(S)	AISI 316SS ⁽²⁾	AISI 316SS	(04)	½ Male ⁽¹⁾	(NH) SS Wired Tag	60	(KG) Kilograms
		(P)	K Monel ⁽²⁾	Monel 400	(09)	¾-18 UNF-2B Aminco (standard for high pressure >20,000 psi (1) Max Pressure 20,000 psi	(TS) Throttle Screw ⁽¹⁾	100	CMF
			(1) To 1000 psi				(BB) Oxygen Sensor	160	(KP) Kilopascal
			(2) To 30,000 psi				(PD) Acrylic Window ⁽¹⁾	200	(IMV) Inches of Mercury
							(SG) Safety Glass	300	Vacuum
							(LJ) Hermetically Sealed	400	
							(EP) Liquid Fillable (IP65)	600	(1) See website for more units of measure
							(EP) Maximum Pointer, Adjustable	1000	
							(SH) Red Set Hand, Stationary	1500	
							(LL) PLUS!™ Performance	2000	
							(FF) Flush Mounting Ring	3000	
							(C4) Individual Calibration Chart	5000	
							(1) Standard with hermetically sealed or liquid filled gauge.	6000	
								10,000	
								20,000	
								30,000	

All specifications are subject to change without notice.
All sales subject to standard terms and conditions.

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DIMENSIONS



Gauge Size	A	B	C	C-1	D	DD	E	F	FF	G	GG	H	HH	I	J	L	M	S	U	ZZ	Weight	
																					Dry	LF
4½ (100)	4 ²³ / ₃₂ (120)	2 ¹ / ₁₆ (52)	5 ³ / ₃₂ (129)	6 ¹ / ₄ (159)	1 ⁵ / ₁₆ (24)	1 (25)	5 ¹¹ / ₁₆ (144)	1 ⁵ / ₈ (41)	2 ⁵ / ₁₆ (59)	3 ¹⁵ / ₁₆ (100)	3 ³ / ₁₆ (5)	1 ⁵ / ₈ (41)	3 (76)	5 ⁵ / ₁₆ (16)	5 ⁵ / ₃₂ (4)	7 ⁷ / ₃₂ (6)	4 ¹³ / ₁₆ (122)	1 ⁵ / ₃₂ (12)	1 ⁷ / ₁₆ (37)	3 ⁹ / ₃₂ (83)	1.75#	2.40#
6 (160)	6 ⁵ / ₁₆ (160)	2 (51)	6 ²¹ / ₃₂ (169)	7 ⁴¹ / ₆₄ (194)	2 ⁷ / ₃₂ (22)	1 (25)	7 ¹ / ₃₂ (179)	1 ⁵ / ₈ (41)	2 ⁵ / ₈ (67)	4 ¹³ / ₁₆ (122)	3 ³ / ₁₆ (5)	1 ⁵ / ₈ (41)	4 ¹ / ₂ (114)	5 ⁵ / ₁₆ (16)	1 ¹ / ₁₆ (2)	1 ¹ / ₄ (7)	6 ⁷ / ₁₆ (163)	1 ¹³ / ₃₂ (10)	1 ⁷ / ₁₆ (37)	3 ³ / ₁₆ (81)	2.25#	4.12#
																					1kg	1.85k

Note: Dimensions in brackets () are millimeters.

Standard Ranges (Metric equivalents available)

Pressure – psi				
Range	Figure interval		Minor Graduation	
0/15	1		0.2	
0/30	5		0.5	
0/60	5		0.5	
0/100	10		1	
0/160	20		2	
0/200	20		2	
0/300	50		5	
0/400	50		5	
0/600	50		10	
0/800	100		10	
0/1000	100		10	
0/1500	200		20	
0/2000	200		20	
0/3000	500		20	
0/5000	500		50	
0/6000	500		50	
0/10,000	1000		100	
0/20,000	2000		250	
0/30,000	5000		200	
Compound				
Range	Figure Interval		Minor Grads	
	in Hg	psi	in Hg	psi
30" Hg/15 psi	5	3	0.5	0.2
30" Hg/30 psi	10	5	1	0.5
30" Hg/60 psi	10	10	1	1
30" Hg/100 psi	10	10	2	1
30" Hg/150 psi	10	20	5	2
30" Hg/200 psi	30	20	5	2
30" Hg/300 psi	30	50	5	2
Vacuum				
Range	Figure Interval		Minor Grads	
30/0 in. Hg	5 in		0.2 in	
34/0 ft H ₂ O	5 ft		0.5 ft	

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