Data Sheet



1009 21/2", 31/2" Stainless Steel Pressure Gauges

FEATURES

- Meets ASME B40.100 specifications
- All welded stainless steel construction
- PLUS[™] Performance option dampens vibration, shock and pulsation effects
- MSL helium leak tested to 1X10⁻⁶ scc/s
- Ventable fill plug
- Wide selection of connections
- NSF-61 Compliant

TYPICAL USES

- Pumps and compressors
- Boilers

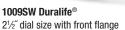
Approval:

- Equipment skids
- Specialized OEM equipment
- Hydraulics and pneumatics
- Severe ambient conditions
- Ammonia and refrigeration











1009AW Duralife® 3½" dial size















Accuracy:	$\pm 1\%$ of span (Dry) (ASME B40.100 Grade 1A) $\pm 1.5\%$ of span (Liquid filled)
Size:	2½", 3½"
Ranges:	AW: Vacuum, compound, to 1,000 psi SW: Vacuum, compound to 15,000 psi
Process Connection Location:	Lower, lower back, top, 3 o'clock, 9 o'clock
Process Connection Size:	$1\!\!/4$ NPT Male, $1\!\!/2$ NPT Male , and others listed on page 2
Movement:	304 SS with glass filled polyester segment
Dial:	Black figures on white background
Pointer:	Black, aluminum
Weather Protection:	IP65 (Plug closed), IP54 (Plug vented) NEMA 4X (Plug closed)
Mounting Option:	U-clamp, front or back flange
Dampening:	Liquid fill or <i>PLUS!</i> ™ Performance

Trib	, - ,	,
WETTED CO	MPONENTS	
Model	Bourdon Tube	Process Connection Material
SW	316 Stainless steel	316L Stainless steel
AW	316 Stainless steel	Aluminum, bronze

RoHS, CRN, CE/UKCA, NSF-61

NON-WETTED COMPONENTS							
Case	Window	Ring (bayonet removable)					
304 Stainless steel	Polycarbonate	304 Stainless steel					
316L Stainless steel (OPT.)	Polycarbonate	316L Stainless steel (OPT.)					

KEY BENEFITS

- PowerFlex™ movement provides superior resistance to shock, vibration and pulsation
- True Zero™ reduces reading errors by using "zero box" instead of conventional dial pins
- Field fillable

MIN/MAX TEMPERATURE LIMITS								
Version	Ambient	Process	Storage					
Dry	-40 to 200 °F	-40 to 250 °F	-40 to 250 °F					
	(-40 to 93 °C)	(-40 to 121 °C)	(-40 to 121 °C)					
PLUS!™	-40 to 150 °F	-40 to 200 °F	-40 to 150 °F					
	(-40 to 66 °C)	(-40 to 93 °C)	(-40 to 66 °C)					
Glycerin Fill	20 to 150 °F	20 to 200 °F	0 to 150 °F					
	(-7 to 66 °C)	(-7 to 93 °C)	(-18 to 66 °C)					
Silicone Fill	-40/150 °F	-40 to 200 °F	-40 to 150 °F					
	(-40 to 66 °C)	(-40 to 93 °C)	(-40 to 66 °C)					
Halocarbon Fill	-40/150 °F	-40 to 200 °F	-40 to 150 °F					
	(-40 to 66 °C)	(-40 to 93°C)	(-40 to 66 °C)					

Data Sheet



1009 21/2", 31/2" Stainless Steel Pressure Gauges

ORDERING CODE:	Example:	251009	SW	L	02	L	XC4	100#
Dial Size/Model Code								
25 - 251009		251009						
35 - 351009								
System								
AW - 316 SS tube/aluminum, bronze connection	n (max. pressure 1,000 ps	si)						
SW - 316 SS tube /316L SS process connection (NSF-61 Compliant)	<u> </u>		SW					
Case Fill								
(blank) Dry gauge								
L - Liquid filled case (glycerin standard)				L				
Process Connection Size								
01 - 1/8 NPT Male								
02 - 1/4 NPT Male					02			
04 - ½ NPT Male (SW models only)								
RW - SAE-4, 7/16" - 20 Straight thread								
EJ - ⁷ / ₁₆ " X 20 UNF-3A 37° flare								
KJ - 1/4" Straight JIS, BSP - 1009SW								
KA - 1/4" Tapered JIS, BSP - 1009SW								
13 - G ¼″ DIN								
JP - 1/4" Tubing, (SW models only) N/A with throt	tle plug N/A ranges abov	/e 6 000 nsi						
JQ - 6 mm Tubing, (SW models only) N/A with the		·	nsi					
JL - ⁹ /16" 18 UNF-2A, (SW models only) N/A on 2								
JR - 3/8" Tubing, (SW models only) N/A with throi		hove 6 000 r	nsi					
Process Connection Location	the plag, 14/7 t off falliges a	10000 0,000	P31					
L - Lower								
B - Lower back								
D - Side (3 o'clock)								
E - Side (9 o'clock)								
T - Top								
	do on "V")						X	
Options (If choosing an option(s) must include Demoning	de all X j							-
Dampening CV Silicons filling (add to glyppring filled ages)								-
GV - Silicone filling (add to glycerine filled case)								-
GX - Halocarbon® filling (add to glycerine filled o	ase)							-
LL - PLUS! TM Performance								-
NZ - PLUS! [™] Performance silicone free								-
T4 - Push in throttle plug brass (orifice 0.007")	I:	450	0" 1					-
TS - Stainless helical throttle plug (standard with				above				-
TU - Throttle plug (orifice 0.013) (standard with li	iquid fill and XLL gauges	30# to 1000#	‡)					-
WP - No throttle plug								-
ZF - Food grade silicone (add to glycerine filled	gauge)							
Mounting								-
FF - Front flange								-
FW - Back flange								
UC - U-clamp								
Case/Movement								
LC - Weld nuts (when required on lower connect	t)							
LJ - Liquid fillable dry case (throttle plug is stand	dard)							
LJ - Liquid fillable dry case (throttle plug is stand VY - Krytox™ lubricated movement YW - 316L Stainless steel case/ring (only availab	·							

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

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Data Sheet



1009 21/2", 31/2" Stainless Steel Pressure Gauges

ORDERING CODE: (continued)	Example:	251009	SW	L	02	L	XC4	100#
Options (If choosing an option(s) must include	an "X")						X	
Windows								_
SG - Safety glass								-
Pointers								_
EO - Red set hand - adjustable (not available with	liquid filled units)							-
SH - Red set hand - stationary single								-
SJ - Red set hand - stationary single								
MP - Adjustable pointer - micrometer								_
Tags								_
DA - Dial marking								_
NH - Stainless steel tag								
NN - Paper tag								
Test and Calibration Report								-
6B - Cleaned for gaseous oxygen service (for liquid than 10,000 psi)	d filled Halocarbon® (G	X) required,	N/A on i	anges gi	reater			
6W - Cleaned for gases other than oxygen								_
C3 - Material certification (consult factory for available)	ability)							
C4 - <u>Traceable calibration certificate</u>							C4	
HY - Hydrostatic test - when attached to a diaphra code (if attached to seal charge will be on gain		to gauge and	d seal pi	roduct				
KH - Any calibration other than standard								
MF - Mercury free								
MQ - Positive material identification (PMI) (only ava	ailable with stainless s	eel systems,	tube, tip	, and so	cket)			
Refrigerants - (consult factory for available dia	ls)							_
R1 - Refrigerant 11								_
R2 - Refrigerant 12								_
R3 - Refrigerant 22								_
R4 - Refrigerant 502								_
R5 - Ammonia - (must have stainless steel wetted	parts)							_
R6 - Refrigerant 114								_
R7 - Refrigerant 500								_
R8 - Refrigerant 134A								_
R9 - Refrigerant 123								
Other								
AB - Absolute pressure (gauge is offset by 14.7 ps	i, contact inside sales	or more info	rmation)				
PR - Receiver gauge (N/A on liquid filled gauges -	consult factory for ava	lable dials)						
Range (see range table for all standard ranges)								
100# - 100 psi								100#



1009 21/2", 31/2" Stainless Steel Pressure Gauges

STANDARD RANGES							
Vaccuum	psi	bar	kPa	MPa	kg/cm²		
Vac	30IMV	N1BR	N100KP	N0.1MP	N1KG		
	-	N1/0.6BR	N1/0.6BR	N0.1/0.6MP	N1/0.6KG		
	30IMV&15#	-	-	-	-		
	-	N1/1.5BR	N100/150KP	N0.1/15MP	N1/1.5KG		
	30IMV&30#	-	-	-	-		
-	-	N1/3BR	N100/300KP	N0.1/3MP	N1/3KG		
Compound	30IMV&60#	_	_	_	-		
Com	-	N1/5BR	N100/500KP	N0.1/5MP	N1/5KG		
	30IMV&100#	_	-	-	-		
	30IMV&150#	-	-	-	-		
	30IMV&300#	-	-	-	_		
	_	N1/9BR	N100/900KP	N0.1/9MP	N1/9KG		
	15#	1BR	100KP	.1MP	1KSC		
	20#	-	_	-	-		
	-	1.6BR	160KP	.16MP	1.6KSC		
	30#	-	-	-	-		
	-	2.5BR	250KP	.25MP	2.5KSC		
	60#	4BR	400KP	.4MP	4KSC		
	-	6BR	600KP	.6MP	6KSC		
	100#	-	-	-	-		
	120#	-	-	-	-		
	-	10BR	1,000KP	1MP	10KSC		
	160#	-	-	-	-		
	200#	-	- 1 0001/D	-	-		
	-	16BR	1,600KP	1.6MP	16KSC		
	300#	25BR	2,500KP	2.5MP	25KSC		
sure	400#	23BN -	2,500KF	2.5IVIF	-		
Positive Pressure	500#	_	_	_	_		
sitive	600#	40BR	4,000KP	4MP	40KSC		
Pos	800#	-	-	_	-		
	-	60BR	6,000KP	6MP	60KSC		
	1,000#	-	_	-	-		
	1,500#	100BR	10,000KP	10MP	100KSC		
	2,000#	_	-	-	-		
	-	160BR	16,000KP	16MP	160KSC		
	3,000#	_	_	_	-		
	-	250BR	25,000KP	25MP	250KSC		
	4,000#	-	-	-	-		
	5,000#	-	-	-	-		
	6,000#	400BR	40,000KP	40MP	400KSC		
	8,000#	_	-	-	-		
	-	600BR	60,000KP	60MP	600KSC		
	10,000#	-	-	-	-		
	15,000#	1,000BR	100,000KP	100MP	1,000KSC		

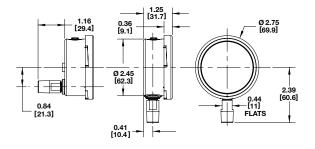


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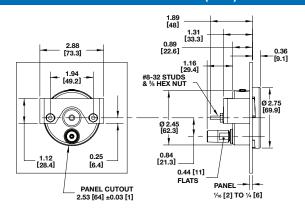
DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

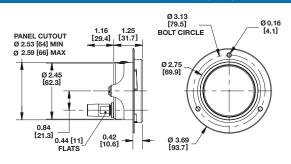
21/2" 1009 Lower and Back Connect



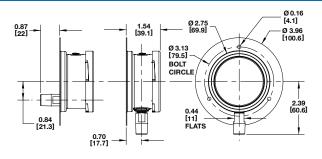
21/2" 1009 Back Connect (XUC)



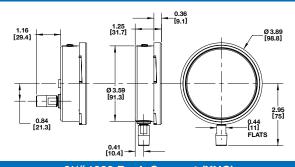
21/2" 1009 Back Connect (XFF)



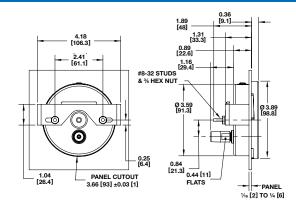
21/2" 1009 Lower and Back Connect (XFW)



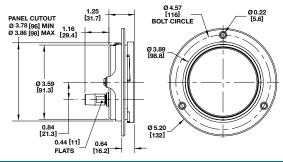
31/2" 1009 Lower and Back Connect



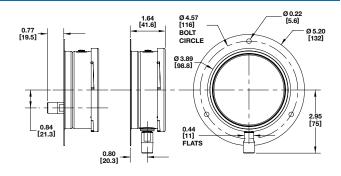
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31/2" 1009 Back Connect (XFF)



31/2" 1009 Lower and Back Connect (XFW)



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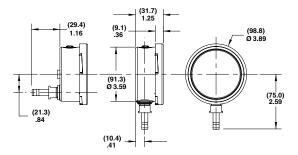


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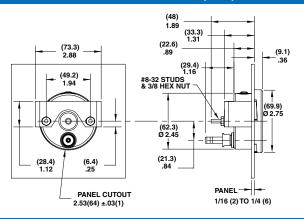
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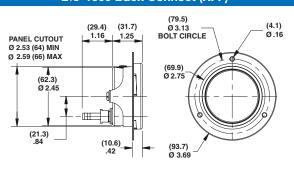
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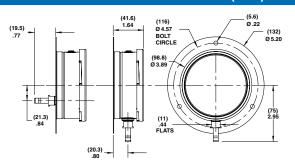
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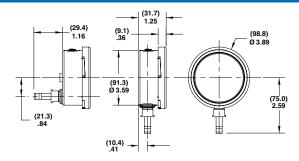
21/2" 1009 Back Connect (XFF)



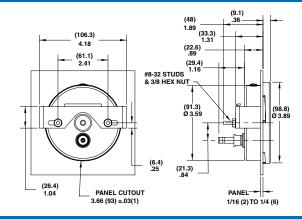
21/2" 1009 Lower and Back Connect (XFW)



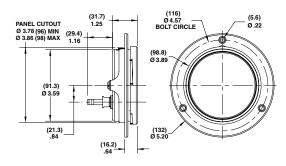
31/2" 1009 Lower and Back Connect



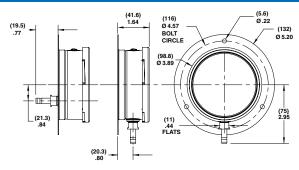
31/2" 1009 Back Connect (XUC)



31/2" 1009 Back Connect (XFF)



31/2" 1009 Lower and Back Connect (XFW)



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