### **Data Sheet**

## 1209 41/2" Stainless Steel Case Process Gauge

#### **FEATURES**

- Solid front case design with full pressure relief back
- 4½ Dial size
- Accuracy: ±0.50% of span (ASME B40.100 Grade 2A)
- 316L stainless steel case and ring
- Patented **PLUS!**<sup>™</sup> Performance, dampens vibration, shock and pulsation effects

#### **TYPICAL USES**

- Oil & Gas Industry Upstream: Onshore/offshore production Midstream: Transport, storage and natural gas compression Downstream: Refineries and petrochemical industries
- Chemical Industry
- Injection Molding Equipment
- Power Plants
  Conventional power plants
  Flue gas desulfurization plants
- Other Industries Waste incineration plants Seawater desalination plants Steel mills Cement plants

# 1209 V/2 Dial size

#### **KEY BENEFITS**

- Full pressure relief back for safety
- Socket welded to case for superior leak integrity

#### **SPECIFICATIONS**

Accuracy:	$\pm 0.5\%$ of span (ASME B40.100 Grade 2A)
Dial Size:	41⁄2″
Range:	Vacuum, compound to 20,000 psi
Process Connection:	1/4 NPT Male, 1/2 NPT Male
Case Style:	Solid front with full pressure relief back
Movement:	304 stainless steel, adjustable
Window Material:	Acrylic (STD.), safety glass (OPT.)
Pointer:	Micrometer adjustable, aluminum
Weather Protection:	IP65
Mounting:	Stem, surface (STD.), flush, pipe, remote (OPT.)
Dampening:	Liquid fill, <i>PLUS!</i> <sup>TM</sup> Performance, throttle screw, dampeners, capillary, diaphragm seals and snubbers

WETTED COMPONENTS							
Model	Bourdon Tube	Process Connection	Joints				
1209	316L SS or K-Monel 500	316L SS or Monel 400	Welded				
NON-WETTED COMPONENTS							
Model	Case	Ring	Back Cover				
1209	316L SS	316L SS	316L SS				

MIN./MAX. TEMPERATURE LIMITS							
	Ambient	Process	Storage				
Dry	-40 °F to 200 °F	-40 °F to 200 °F	-40 °F to 200 °F				
	(-40 °C to 93 °C)	(-40 °C to 93 °C)	(-40 °C to 93 °C)				
PLUS™	-40 °F to 200 °F	-40 °F to 200 °F	-40 °F to 200 °F				
	(-40 °C to 93 °C)	(-40 °C to 93 °C)	(-40 °C to 93 °C)				
Glycerin	20 °F to 150 °F	20 °F to 150 °F	20 °F to 150 °F				
	(-7 °C to 66 °C)	(-7 °C to 66 °C)	(-7 °C to 66 °C)				
Silicone	-40 °F to 150 °F	-40 °F to 150 °F	-40 °F to 150 °F				
	(-40 °C to 66 °C)	(-40 °C to 66 °C)	(-40 °C to 66 °C)				
Halocarbon®	-40 °F to 150 °F	-40 °F to 150 °F	-40 °F to150 °F				
	(-40 °C to 66 °C)	(-40 °C to 66 °C)	(-40 °C to 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 (20 °C) will be affected by approximately 0.4% per 25 °F. Gauges with welded joints will withstand 750 °F (400°C), 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.

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# 1209 41/2" Stainless Steel Case Process Gauge

ORDERING CODE	Example:	451209	S	D	04	L	15#	-XLL
Dial Size/Model Code								
451209 - 41/2" SS, solid front process gauge per ASME	E B40.100	451209						
System (tube and process connection)								
S - SS system			S					
P-Monel System								
Case Fill								
D - Dry Case				D				
L - Liquid filled case, glycerin (STD.)								
Process Connection Sizes								
02 - ¼ NPT Male (up to 20,000 psi)								
04 - ½ NPT Male (up to 20,000 psi)					04			
Process Connection Location								
L - Lower connection only						L		
Range (coding examples only, see range table on	next page for all stand	dard ranges)						
Single Scales								
15# - 15 psi							15#	
1KSC - 1 kg/cm <sup>2</sup>								
100KP - 100 kPa								
Options (if choosing an option(s) must include an	"X")							-X
EP - Maximum pointer, adjustable								
GV - Silicone case fill								
GX - Halocarbon case fill								
LL - <i>PLUS!</i> <sup>™</sup> Performance								LL
NH - SS tag wired to case								
OS - Overload stop								
SG - Safety glass								
VS - Underload stop								
C3 - Material test report to EN 10204.3.1								
C4 - Individual calibration chart (in accordance with AS	SME B40.100:2013. Accu	uracy traceable to	NIST)					
D3 - DuraVis <sup>™</sup> Retroreflective Dial (4½" and dry case or	nly)							
6B - Cleaned for oxygen service								
5G - Attach one accessory to gauge. Applicable to PL 098, 1100, 1198, 2198 siphons, 7001, 7004 needl 1112, PD02 pressure snubbers, MDV swivel adap	le valves, 1115 capillary,	1106 pulsation d	ampner					

When selecting a diaphragm seal or isolation ring, refer to the Min/Max Guide for compatibility with this gauge or scan the QR code to the right.



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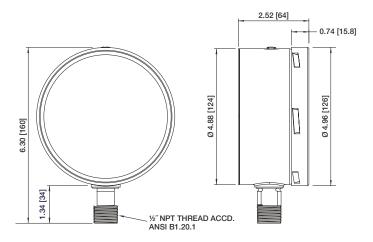


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	1209 STANDARD RANGES						
ε	psi	bar	kPa	mPa	kg/cm²		
cuu	30IMV	N1BR	N100KP	N1MP	N1KG		
Va	-	N1/0.6BR	N100/60KP	0.1/.06MP	N1/0.6KG		
Compound	V/15#	-	-	-	-		
	-	N1/1.5BR	N100/150KP	N0.1/0.15MP	N1/1.5KG		
	V/30#	-	-	-	-		
	-	N1/3BR	N100/300KP	N0.1/0.3MP	N1/3KG		
	V/60#	-	-	-	-		
	-	N1/5BR	N100/500KP	N0.1/.5MP	N1/5KG		
	V/100#	-	-	-	-		
	-	N1/9BR	N100/900KP	N0.1/0.9MP	N1/9KG		
	15#	1BR	100KP	0.1MP	1KG		
	20#	-	-	-	-		
	-	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#	-	-	-	-		
	120#	-	-	-	-		
	-	10BR	1000KP	1MP	10KG		
	160#	-	-	-	-		
	200#	-	-	-	-		
	-	16BR	1600KP	1.6MP	16KG		
	300#	-	-	-	-		
e	-	25BR	2500KP	2.5MP	25KG		
nss	400#	-	-	-	-		
ositive Pressure	500#	-	-	-	-		
tive	600#	40BR	4000KP	4MP	40KG		
Pos	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		
	8000#	-	-	-	-		
	-	600BR	60000KP	60MP	600KG		
	10000#	-	-	-	-		
	15000#	1000BR	100000KP	100MP	1000KG		
	20000#	1600BR	-	160MP	1600KG		

#### DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings



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