

1109 Process Pressure Gauge

FEATURES

- **PLUS!**[™] Performance dampens vibration, shock and pulsation effects
- Solid front design with full blowout back
- Epoxy coated system offers superior corrosion resistance
- Rugged design

TYPICAL USES

- Oil and Gas
- Offshore Oil Rigs

304 SS

- Chemical and Petrochemical Plants
- Refineries
- Waterblasting / Water Jetting Equipment
- Specialized OEM Equipment

SPECIFICATIONS					
Accuracy:	$\pm 0.5\%$ of span (ASME B40.100, Grade 2A)				
Size:	41/2"				
Ranges:	Vacuum, Compound 15 to 100,000 psi				
Process Connection Location:	Lower				
Process Connection Size:	¼NPT Male, ½ NPT Male ¼High pressure tubbing				
Case Style:	Solid front with pressure relief back				
Movement:	Adjustable				
Window Material:	Glass (STD.), Safety glass (STD.), Shatter proof glass (OPT.)				
Dial:	White aluminum with black markings				
Pointer:	Aluminum				
Weather Protection:	IP64, IP65 Hermetically sealed				
Dampening Options:	PLUS! ™ Performance, throttle screw, dampeners, capillary, diaphragm seals and snubbers				
Mounting:	Stem				
Approvals:	CRN, CE/UKCA				
WETTED COMPONENTS					
Bourdon Tube	Process Connection	Joints			
316L SS, Inconel® for ranges greater than 40,000 psi	nconel® for ranges 316 SS V				
NON-WETTED CO	MPONENTS				
Case	Ring	Back Cover			





KEY BENEFITS

- Corrosion Resistance
- Superior readability compared to 100mm case gauges

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)		

Cam Lock 300 SS

304 SS



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tial Size/Model Code 51109 - 4½" 300 Stainless steel, solid front case ystem (tube and process connection) D - 316 Stainless steel tube, (Vac-30,000 psi)	451109	SD				
ystem (tube and process connection)	451109	SD				
,		SD	_			
D - 316 Stainless steel tube, (Vac-30,000 psi)		SD				
/D - Inconel® 700 tube, 316 Stainless steel process connection (40,000-100,000 psi)						
rocess Connection Sizes			-			
2 - ¼ NPT Male, (up to 20,000 psi)						
4 - ½ NPT Male, (up to 30,000 psi)			04			
9 - ¼ " high pressure tubing connection, (40,000-100,000 psi)						
rocess Connection Location						
- Lower connection only				L		
ptions (If choosing an option(s) must include an "X")					X	
L - <i>PLUS!</i> ™ Performance					LL	
S - Throttle screw						
W - 316 Stainless steel case						
B - Cleaned for gasses, oxygen service						
D - Acrylic window						
G - Safety glass						
W - Back flange (welded to case)						
4 - <u>Traceable calibration certificate</u>						
ange (coding examples only, see range table on page 3 for all standard ranges)						
ingle Scales						
5# - 15 psi						15#
KG - 1 kg/cm ²						
00KP - 100 kilopascal						



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110	0				
- 10		bar	kPa	mPa	kg/cm²
Vacuum	psi 30IMV	N1BR	N100KP	N1MP	N1KG
Vac	SUIIVIV	N1/0.6BR	N100/60KP	0.1/0.06MP	N1/0.6KG
-	- V/15#	N1/0.00H	N 100/60KP	0.1/0.06IVIP	N1/0.6KG
	V/ 15# -	– N1/1.5BR	N100/150KP	N0.1/0.15MP	N1/1.5KG
	V/30#	NI/I.SBN	N100/150KF	NO. 1/0. 151VIF	N1/1.5KG
	V/30#	_ N1/3BR	N100/300KP	N0.1/0.3MP	- N1/3KG
Compound	-	NI/SDN	N100/300KP	NU. 1/U.SIVIP	N1/3NG
3	V/60#	- N1/5BR	- N100/500KP	N0.1/0.5MP	- N1/5KG
	- \//100#	N1/JBN	N100/300KF	NO. 1/0.51VIF	N1/SNG
	V/100# -	N1 /ODD	- N1100/000KD	- NO 1/O OMP	- N1 /0// C
		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#	-	- 0501/D	-	-
	-	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#	-	-	-	-
	-	25BR	2500KP	2.5MP	25KG
_	400#	-	-	-	-
9	500#	_	-	_	-
ess	600#	40BR	4000KP	4MP	40KG
Б Р	800#	-	-	-	-
Positive Pressure	-	60BR	6000KP	6MP	60KG
2	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
	30000#	-	-	-	-
		2500BR	-	250MP	2500KG
	50000#	-	-	-	
È	-	4000BR	-	400MP	4000KG
2	80000#	4000DI1			4000KG
	-	6000BR	-	- 600MP	6000KG
Ē,	100000#				
	100000#	-	-	-	-



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DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

