

## Data Sheet

# 1259 Process Gauge

### FEATURES

- **PLUS!**™ Performance (option) dampens vibration, shock and pulsation effects; provides liquid-fill performance in a dry gauge
- Accuracy complies with ASME B40.100 Grade 2A ( $\pm 0.5\%$  of span)
- Solid front safety case with pressure relief back
- 4½" dial size

### TYPICAL USES

- Refineries
- Chemical, petrochemical plants and offshore oil rigs
- Water and wastewater pressure control
- Pulp and paper
- Mining and metals
- Equipment skids
- Specialized OEM equipment



### SPECIFICATIONS

Accuracy:	$\pm 0.5\%$ of span (ASME B40.100, Grade 2A)
Dial Size:	4½"
Process Connection:	¼ NPT Male, ½ NPT Male
Ranges:	Vacuum to 20,000 psi
Case Style:	Solid front with pressure relief back
Movement:	Adjustable
Pointer:	Micrometer adjustable, aluminum
Weather Protection:	Dry Case: Case is not sealed and recommended for weather protected environment only Liquid filled or field fillable and Weatherproof: IP66 Hermetically Sealed: IP66
Mounting:	Stem, surface, remote
Dampening Options:	Liquid fill, throttle screw and pulsation dampener <b>PLUS!</b> ™ Performance

### WETTED COMPONENTS

Bourdon Tube	Process Connection	Joints
316L SS	316L SS	Welded
K-Monel® 500	Monel® 400	Welded

### NON-WETTED COMPONENTS

Case	Ring	Window	Pressure Relief Back
PBT Polybutylene terephthalate (Meets UL 94-V-0)	PBT Polybutylene terephthalate (Meets UL 94-V-0)	Glass, Safety glass, Acrylic (OPT.)	PBT Polybutylene terephthalate (Meets UL 94-V-0)

### KEY BENEFITS

- Available with a wide range of diaphragm seals
- Available with a large variety of instrument assemblies

### 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)
<b>PLUS!</b> ™	-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)

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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ORDERING CODE	Example:	451259	S	D	02	L	XC4	15#
<b>Dial Size/Model Code</b>								
451259 - 4½" Polybutylene terephthalate case, solid front (Meets UL 94-V-0)		451259						
<b>System (tube and process connection)</b>								
S - 316L Stainless steel tube and process connection			S					
P - K-Monel® 500 tube, Monel® 400 process connection								
<b>Case Design</b>								
D - Dry				D				
L - Glycerin liquid filled (IP65)								
<b>Process Connection Sizes</b>								
02 - ¼ NPT Male					02			
04 - ½ NPT Male								
<b>Process Connection Location</b>								
L - Lower						L		
<b>Options (If choosing an option(s) must include an "X")</b>							X _ _	
SG - Safety glass								
LJ - Hermetically sealed								
LL - <b>PLUS!</b> ™ Performance								
NZ - <b>PLUS!</b> ™ Performance, silicone free								
GV - Silicone filled case								
NH - Stainless steel tag wired to case								
6B - Cleaned for gaseous, oxygen service								
D3 - DuraVis™ Retroreflective Dial (4½" and dry case only)								
C4 - Individual calibration chart in accordance with ASME B40.100:2013. Accuracy traceable to N.I.S.T							C4	
<b>Range (coding examples only, see range table on page 3 for all standard ranges)</b>								
<b>Single Scales</b>								
15# - 15 psi								15#
1BR - 1 bar								
1KG - 1 kg/cm²								
100KP - 100 kPa								
<b>Dual Scales</b>								
2KG/# - 2 kg inner scale, 30 psi outer scale								

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### STANDARD PRESSURE RANGES

	psi	bar	kPa	mPa	kg/cm <sup>2</sup>
Vacuum	30IMV	N1BR	N100KP	N1MP	N1KG
	-	N1/0.6BR	N100/60KP	0.1/0.06MP	N1/0.6KG
	V/15#	-	-	-	-
Compound	-	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	N0.1/0.5MP	N1/5KG
	V/100#	-	-	-	-
Positive Pressure	-	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#	-	-	-	-
	-	25BR	2500KP	2.5MP	25KG
	400#	-	-	-	-
	500#	-	-	-	-
	600#	40BR	4000KP	4MP	40KG
	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#	-	-	-	-	

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## DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings

