

#### 1187 Low Pressure Bellows Gauge

#### **FEATURES**

- Inches of water ranges
- Available with diaphragm seals
- Bellows-actuated mechanism
- Easy adjustable micrometer pointer
- Solid front safety case with pressure relief back
- Brass, 316 stainless steel or Monel® wetted parts

#### **TYPICAL USES**

- Oil & gas
- Chemical and petrochemical plants
- Water and wastewater pressure control
- Equipment skids
- Process and industrial applications



41/2" dial size

**KEY BENEFITS** 

Rugged design

C€ KK

### **SPECIFICATIONS**

Accuracy:	±2%-1%-2% (ASME B40.100 Grade A)
Dial Size:	4½″

Range: 10IW Vacuum to 10 psi

Back

**Process Connection** Location:

**Process Connection** 

1/4 NPT Male, 1/2 NPT Male Size:

Case Style: Solid front (dry only)

Movement: 416 Stainless steel

Window Material: Glass (STD.), Shatter proof glass (OPT.)

Dial: White aluminum with black markings

Pointer: Micrometer adjustable

Weather Protection:

**Dampening Options:** Throttle screw, dampeners, capillary, diaphragm

seals and snubbers

MIN	/MAX TEMI	PERATURE	LIMITS

• Highly sensitive system providing a safe means

• Ideal product solution for many installations

for measuring process media

Version	Ambient	Process	Storage
Dry		-20 °F to 150 °F (-29 °C to 66 °C)	

Mounting:	Flush	
WETTED COMP	PONENTS	
Bellows	Process Connection	Joints
Brass, 316 SS, Monel®	Brass, 316 SS, Monel®	Soldered: Brass Welded: 316 SS, Monel®
NON WETTER	COMPONENTS	

NON-WETTED COM		
Case	Ring	Back Cover
Aluminum, Black Epoxy Coated	Hinged Steel, Black Epoxy Coated	Polypropylene



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ORDERING CODE	Example:	451187	s	S	02	В	XC4	10IW
Dial Size/Model Code								
451187 - 4½" aluminum case, solid front		451187						
System (tube and process connection)								
A - Brass bellows, brass process connection								
S - 316 Stainless steel bellows, stainless steel proces	ss connection		S					
P - K-Monel® 500 bellows, Monel® 400 process conn	ection							
Case Design								
S - Solid front, dry				S				
Process Connection Sizes								
02 - 1/4 NPT Male					02			
04 - ½ NPT Male								
Process Connection Location								
B - Back mount connection						В		
Options (If choosing an option(s) must include an	"X")						X	
C4 - Traceable calibration certificate							C4	
D3 - DuraVis™ Retroreflective Dial								
6B - Cleaned for gaseous, oxygen service								
F8 - Gauge, flexible line assembly and diaphragm sea	al							
PD - Acrylic window								
SG - Safety glass								
NG - Non-glare glass								
DA - Marking on dial								
NH - Stainless steel tag wired to case								
NN - Paper tag bonded to case								
Range (coding examples only, see range table on	page 3 for all standard rang	es)						
Single Scales								
10IW - 10" H <sub>2</sub> O								10IW

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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STA	NDARD PRE	SSURE R	ANGE				
	in. H₂O	mmHg	in. Hg	mmH₂0	psi	mbar	kPa
	N10IW	N18MM	-	-	-	-	-
	N15IW	N28MM	-	-	-	-	_
	N20IW	N37MM	-	-	-	-	-
	N30IW	N56MM	-	-	-	-	_
=	N40IW	N75MM	-	-	-	-	-
Vacuum	N60IW	N110MM	-	-	-	-	_
Va	N80IW	N150MM	-	-	-	-	-
	N100IW	N180MM	-	-	-	-	-
	N150IW	N270MM	-	-	-	-	-
	-	-	N10IM	-	-	-	-
	-	-	N15IM	-	-	-	-
	-	-	N20IM	-	-	-	-
	-	-	-	N125/125MW	-	N12.5/12.5MB	N1.25/1.25KP
	N5/5IW	-	-	-	-	-	-
	-	-	-	N200/200MW	-	N20/20MB	N2/2KP
	N10/10IW	-	-	-	-	-	-
	-	-	-	N300/300MW	-	N30/30MB	N3/3KP
	-	-	-	N500/500MW	-	N50/50MB	N5/5KP
pur	N30/10IW	-	-	-	-	-	-
Compound	N20/20IW	-	-	-	-	-	-
Con	N10/30IW	-	-	-	-	-	-
	N30/30IW	-	-	-	-	-	-
	N40/20IW	-	-	N800/800MW	-	N80/80MB	N8/8KP
	-	-	-	N1250/1250MW	-	N125/125MB	N12.5/12.5KP
	N70/30IW	-	-	-	-	-	-
	-	-	-	N2000/2000MW	-	N200/200MB	N20/20KP
	-	-	-	N3000/3000MW	-	N300/300MB	N30/30KP
	5IW	-	-	-	-	-	-
	10IW		-	250MW		25MB	2.5KP
	15IW	-	-	-	-	-	-
	-	-	-	400MW	-	-	-
	-	-	-	-	-	40MB	4KP
	20IW	-	-	-	-	-	-
			-	600MW	-	-	-
	-	-	-	-	-	60MB	6KP
	30IW	-	-	-	-	-	-
	-	-	-	1000MW	-	-	-
ē	40IW	-	-	-	-	100MB	10KP
Positive Pressure		-	-	-	-		
Pre	60IW	-	-	-	-	-	-
itive	-	-	-	1600MW	-	-	-
Pos	-	-	-	-	-	160MB	16KP
	80IW	-	-	-	-	-	-
	-	-	-	2500MW	-	-	-
	100IW	-	-	-	-	250MB	25KP
	-	-	-	-	5#	-	-
	150IW	-	-	-	-	-	-
	-	-	-	4000MW	-	-	-
	-	-	-	-	-	400MB	40KP
	-	-	-	-	8#	-	-
	-	-	-	6000MW	-	-	-
	-	-	-	-	-	600MB	60KP
	-	-	-	-	10#	-	-



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#### **DIMENSIONS** in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

Dial Size Inches	A	В	Е	F	н	1	K	M	s	U	СС	LL	Weight (lbs)
<b>4</b> ½		37/16	5%	15/8	19/16	5/8	13/32	47/8	11/16	3/4	#10-	1/16 - 1/4	

