

1187 Low Pressure Bellows Gauge

FEATURES

- Millibar and 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



1187
4 ½" dial size

SPECIFICATIONS

Accuracy: 2%-1%-2% (ASME B40.100 Grade A)

Dial Size: 4 ½" (115 mm)

Range: 25 ... 600 mbar / 10IW Vacuum to 10 psi

Process Connection Location: Back

Process Connection Size: ¼ NPT Male, ½ NPT Male

Case Style: Solid Front (standard)

Movement: Stainless steel 416 (1.4005)

Window Material: Glass (standard), Shatter Proof Glass (optional)

Dial: White Aluminum with Black Markings

Pointer: Micrometer Adjustable

Weather Protection: IP54

Dampening Options: Throttle screw, dampeners, capillary, diaphragm seals and snubbers

Mounting: Flush

Approval: EAC

WETTED COMPONENTS

Bellows	Process Connection	Joints
Brass, St.st 316 Monel®	Brass, St.st 316 Monel®	Soldered: Brass Welded: St.st. 316, Monel®

NON-WETTED COMPONENTS

Case	Ring	Back Cover
Aluminum, Black Epoxy Coated	Hinged Steel, Black Epoxy Coated	Polypropylene

KEY BENEFITS

- Highly sensitive system providing a safe means for measuring process media
- Ideal product solution for many installations
- Rugged design

MIN./MAX. TEMPERATURE LIMITS

VERSION	AMBIENT	PROCESS	STORAGE
Dry	-29 °C to 66 °C (-20 °F to 150 °F)	-29 °C to 66 °C (-20 °F to 150 °F)	-40 °C to 66 °C (-40 °F to 150 °F)

Hinweis: Die Genauigkeit bei Temperaturen über oder unter der Referenzumgebungstemperatur von 20 °C (68 °F) wird durch einen Temperaturfehler von ca. 0,3 % pro 10 K beeinflusst.

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ORDERING CODE		EXAMPLE:	45	1187	A	S	04	B	60MB	XC4
Dial Size										
45	4-½" Aluminum case		45							
Model Code										
1187	Low pressure bellow gauge			1187						
System (bellow capsule and process connection)										
A	Brass				A					
S	Stainless steel 316 (1.4401)									
P	K-Monel® 500 bellow and Monel® 400 process connection									
Case Design										
S	Solid front, Dry					S				
Process Connection										
02	¼ NPT Male									
04	½ NPT Male						04			
Process Connection Location										
B	Back							B		
Range (coding example only, see range table on page 3 for all standard ranges)										
Single Scales										
60MB	60 millibar								60MB	
Options (If choosing an option(s) must include a "X")										X__
Case/Ring/Dial										
D3	DuraVis™ Retroreflective Dial									
Windows/Pointers										
PD	Acrylic window									
SG	Safety glass									
NG	Non-glare glass									
T1	Test gauge dial and pointer (adjusted friction and twisted end of pointer)									
Dampening										
TS	Throttle screw									
Marking/Tagging										
NH	Stainless steel tag, wired to case									
NN	Paper tag bonded to case									
DA	Dial marking (Text marking on the dial)									
Cleaning										
6B	Cleaned for oxygen service									
6W	Cleaned for oxidizing processes									
Testing/Certificates										
CD2	Material test report according to EN 10204 / 2.2									
C3	Material report according to EN 10204 / 3.1									
CD5	Certificate according to NACE for Oilfields MR0175 / ISO 15156 and Refineries MR0103 / ISO17945									
MQ	Positive Material Identification (PMI)									
C4	Individual calibration chart (in accordance with ASME B40.100:2013. Accuracy traceable to NIST)									C4



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STANDARD PRESSURE RANGE								
	in. H2O	mm Hg	in.Hg	mm H2O	psi	mbar	kPa	
Vacuum	N10IW	N18MM	-	-	-	-	-	
	N15IW	N28MM	-	-	-	-	-	
	N20IW	N37MM	-	-	-	-	-	
	N30IW	N56MM	-	-	-	-	-	
	N40IW	N75MM	-	-	-	-	-	
	N60IW	N110MM	-	-	-	-	-	
	N80IW	N150MM	-	-	-	-	-	
	N100IW	N180MM	-	-	-	-	-	
	N150IW	N270MM	-	-	-	-	-	
	-	-	N10IM	-	-	-	-	
	-	-	N15IM	-	-	-	-	
	-	-	N20IM	-	-	-	-	
	Compound	-	-	-	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	
N30/10IW		-	-	-	-	-	-	
N20/20IW		-	-	-	-	-	-	
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	
Positive pressure	5IW	-	-	-	-	-	-	
	10IW	-	250MW	25MB	2.5KP	-	-	
	15IW	-	-	-	-	-	-	
	-	-	-	400MW	-	-	-	
	-	-	-	-	-	40MB	4KP	
	20IW	-	-	-	-	-	-	
	-	600MW	-	-	-	-	-	
	-	-	-	-	-	60MB	6KP	
	30IW	-	-	-	-	-	-	
	-	-	-	1000MW	-	-	-	
	40IW	-	-	-	-	100MB	10KP	
	-	-	-	-	-	-	-	
	60IW	-	-	-	-	-	-	
	-	-	-	1600MW	-	-	-	
	-	-	-	-	-	160MB	16KP	
	80IW	-	-	-	-	-	-	
	-	-	-	2500MW	-	-	-	
	100IW	-	-	-	-	250MB	25KP	
	-	-	-	-	5#	-	-	
	150IW	-	-	-	-	-	-	
-	-	-	4000MW	-	-	-		
-	-	-	-	-	400MB	40KP		
-	-	-	-	8#	-	-		
-	-	-	6000MW	-	-	-		
-	-	-	-	-	600MB	60KP		
-	-	-	-	10#	-	-		



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DIMENSIONS IN MM [INCH]

For reference only, consult Ashcroft for specific dimensional drawings

DIAL SIZE INCHES	A	B	E	F	H	I	K	M	S	U	CC	LL	WEIGHT (KG)
4 1/2	154,8 [6,09]	87,3 [3,44]	136,5 [5,38]	41,3 [1,63]	39,7 [1,56]	15,9 [0,63]	27,8 [1,09]	123,8 [4,88]	17,5 [0,69]	19,1 [0,75]	#10-24	2...6 [1/16...0,5]	1,2 (Dry)

4 1/2" back connection

