

1188 Low Pressure Bellows Gauge

FEATURES

- Inches of water ranges
- Bellows-actuated mechanism
- Easy adjustable micrometer pointer
- Available with diaphragm seals

TYPICAL USES

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

SPECIFICATIONS	
Accuracy:	+/-2%-1%-2% (ASME B40.100 Grade A)
Dial Size:	4½″
Range:	10IW Vacuum to 10 psi
Process Connection Location:	Lower, Back
Process Connection Size:	1/4 NPT Male, 1/2 NPT Male
Case Style:	Solid Front (STD.)
Movement:	416 Stainless steel
Window Material:	Glass (STD.), Shatter Proof Glass (OPT.)
Pointer:	Micrometer Adjustable
Dampening Options:	Throttle screw, dampeners, capillary, diaphragm seals and snubbers
Mounting:	Stem, Surface, Flush

WETTED COMPONENTS									
Bellows	Process Connection	Joints							
Brass 316 SS Monel®	Brass 316 SS Monel®	Soldered: Brass Welded: 316 SS Monel®							
NON-WETTED COMPONENTS									

NON-WETTED COMPONENTS									
Case	Ring	Back Cover							
Phenolic	Polycarbonate	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	-20°F to 150°F (-29°C to 66°C)	-20°F to 150°F (-29°C to 66°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).

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:	451188	S	S	02	В	XC4	10IW	
Dial Size/Model Code									
451188 - 41/2" phenolic case, solid front		451188							
System (tube and process connection)									
A - Brass bellows, brass process connection									
S - 316 Stainless steel bellows, stainless steel pro	316 Stainless steel bellows, stainless steel process connection S								
P - K-Monel® 500 bellows, Monel® 400 process co	- K-Monel® 500 bellows, Monel® 400 process connection								
Case Design									
S - Solid front, Dry				S					
Process Connection Sizes									
02 - 1/4 NPT Male					02				
04 - ½ NPT Male									
Process Connection Location									
L - Lower									
B - Back						В			
Options (If choosing an option(s) must include	an "X")						X		
C4 - Individual calibration chart (in accordance wi	th ASME B40.100:2013. Accuracy	traceable to N.I.S	.T)				C4		
D3 - DuraVis™ Retroreflective Dial									
6B - Cleaned for gaseous oxygen service									
F8 - Gauge, flexible line assembly and diaphragm	seal								
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									
56 - Flush mounting ring									
Range (coding examples only, see range table	on page 3 for all standard range	s)							
Single Scales									
10IW - 10" H ₂ O								10IW	
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STA	STANDARD PRESSURE RANGE										
JIA	in. H ₂ 0			mmH₂0	noi	mbar	l/Do				
	-	mmHg	in. Hg	mmn ₂ U	psi	mpar	kPa				
	N10IW	N18MM	-	-	-	-	-				
	N15IW	N28MM	-	-	-	-	-				
	N20IW	N37MM	-	-	-	-	-				
	N30IW	N56MM	-	-	-	-	-				
를	N40IW	N75MM	-	-	-	-	-				
Vacuum	N60IW	N110MM	-	-	-	-	-				
_	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				
Compound	N30/10IW	-	-	-	-	-	-				
릁	N20/20IW	-	-	-	-	-	-				
చ	N10/30IW	-	-	-	-	-	-				
	N30/30IW	-	-	-	-	-	- NO (01 (D				
	N40/20IW	-	-	N800/800MW	-	N80/80MB	N8/8KP				
	- NIZO (001)A/	-	-	N1250/1250MW	-	N125/125MB	N12.5/12.5KP				
	N70/30IW -	-	-	- NOOOO (OOOONA)A/	-	- NI000/000MD	- NOO/00KD				
	-	-	-	N2000/2000MW		N200/200MB	N20/20KP				
	5IW	-	-	N3000/3000MW -	-	N300/300MB	N30/30KP				
	10IW	-	-	250MW	-	- 25MB	- 2.5KP				
	15IW		-	-	_	23IVID					
	-	_	-	400MW	_	-	-				
	-			-		40MB	4KP				
	20IW	-	-	-	-	40IVID	4KF				
	20144		_	600MW	_	-	_				
	_	_	_	-	_	60MB	6KP				
	30IW	_	_	_	_	-	-				
	-	_	_	1000MW	_	_	-				
	40IW	-	-	-	-	100MB	10KP				
e n	10111	_	_	-	_	1001112	1014				
Positive Pressure	60IW	_	_	-	_	-	-				
e P	-	_	-	1600MW	-	-	-				
siti	-	-	-	-	_	160MB	16KP				
2	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	Α	В	С	D	Е	F	G	н	1	J	L	Weight (lbs)
41/2	5 ¹³ / ₁₆	3 ⁷ / ₁₆	5½	1 ¹¹ / ₁₆	5¾	15/8	13 ¹⁵ / ₁₆	1½	⁵‰	11/⁄8	⁷ / ₃₂	2.5
	[148]	[87]	[129]	[43]	[137]	[41]	[100]	[38]	[16]	[29]	[5.5]	1.1 kg

