



**Low Pressure Bellows Gauge  
Type 1187, 1188 & 1189  
ASME B 40.1 Grade A  
(±2-1-2% of span)**

- Available in 4½" and 6" dial sizes
- Bellows-actuated mechanism
- Three bellows materials
- Easily adjustable micrometer pointer
- Phenolic (1188) or aluminum (1187, 1189) cases
- All-stainless steel movements

Ashcroft® bellows gauges are used for measuring low pressures from 10" H<sub>2</sub>O to 10 psi pressure as well as vacuum and compound ranges. Coupled with their sensitivity, these gauges have a rugged design for process and industrial applications.



**PRESSURE RANGES<sup>(4)</sup>**

STANDARD			METRIC	
Single Scale Dial Compound	Dual Scale Dial Pressure		Single Scale Dial Pressure	Dual Scale Dial Pressure
(Vac/Press) in. H <sub>2</sub> O	Inner in. H <sub>2</sub> O	Outer oz/in <sup>2</sup>	mmH <sub>2</sub> O	Outer Scale in. H <sub>2</sub> O
-5/5	0/10	0/6	0/250	0/10
-10/10	0/15	0/9	0/400	0/16
-30/10	0/20	0/12	0/600	0/24
-20/20	0/30	0/18	0/1000	0/40
-40/20	0/40	0/24	0/1600	0/60
-10/30	0/60	0/35	0/2500	0/100
-30/30	0/80	0/45	0/4000	0/160
-70/30	0/100	0/57	0/6000	0/240
-20/40	0/150	0/90		
-50/50				
in. Hg/psi			Vacuum	Vacuum
	psi	in. Hg	-250/0	-10/0
-5/3	0/5	0/10	-400/0	-16/0
-2/5	0/8	0/16	-600/0	-24/0
-5/5	0/10	0/20	-1000/0	-40/0
-10/5			-1600/0	-60/0
Vacuum			-2500/0	-100/0
	in. H <sub>2</sub> O	mmHg	-4000/0	-160/0
	10/0	18/0	-6000/0	-240/0
	15/0	28/0		
	20/0	37/0	Compound	Compound
	30/0	56/0	-125/125	-5/5
	40/0	75/0	-200/200	-8/8
	60/0	110/0	-300/300	-12/12
	80/0	150/0	-500/500	-20/20
	100/0	180/0	-800/800	-30/30
	150/0	270/0	-1250/1250	-50/50
	in. Hg	ftH <sub>2</sub> O	-2000/2000	-80/80
	10/0	11/0	-3000/3000	-120/120
	15/0	17/0		
	20/0	23/0		

**CASE SELECTION**

Dial Size <sup>(1)</sup>	Case Type	Case Material	Ring Style	Mounting
4½"	1187	Aluminum, black epoxy coated	Hinged steel, black crinkle enamel	Flush — back only
4½"	1188	Phenolic, black	Threaded polypropylene ring	Stem — lower or back Surface — lower or back Flush — back, order 1278M mounting ring, specify X56
4½", 6"	1189	Aluminum, black epoxy coated	Threaded polypropylene ring	Stem — lower Surface — lower

**BELLOWS SYSTEM/RANGE SELECTION<sup>(3)</sup>**

Order Code	Bellows & Socket Material	Pressure Range	Vacuum Range	Compound Range	NPT Conn.	Available Case Size and Type
A	Brass	10 in. H <sub>2</sub> O to 10 psi	10 in. H <sub>2</sub> O to 20 in. Hg	5 in. H <sub>2</sub> O vac. & 5 in. 5 in. H <sub>2</sub> O vac. & 10 in. Hg vac. & 5 psi	¼, ½	4½"-1187 4½"-1188 4½", 6"-1189 <sup>(5)</sup>
S	316 SS	10 in. H <sub>2</sub> O to 10 psi	10" H <sub>2</sub> O to 20 in. Hg	5 in. H <sub>2</sub> O vac. & 5 in. 5 in. H <sub>2</sub> O vac. & 10 in. Hg vac. & 5 psi	¼, ½	4½"-1187 4½"-1188 4½", 6"-1189 <sup>(5)</sup>
P	Monel Meets NACE MR01-75	10 in. H <sub>2</sub> O to 10 psi	10" H <sub>2</sub> O to 20 in. Hg	5 in. H <sub>2</sub> O vac. & 5 in. 5 in. H <sub>2</sub> O vac. & 10 in. Hg vac. & 5 psi	¼, ½	4½"-1187 4½"-1188 4½", 6"-1189 <sup>(5)</sup>

(3) For selection of the correct bellows system material, see the media application table on page 253 or the Corrosion Guide.

(4) Others ranges available: Consult factory.

(5) Lower connect only.

**TO ORDER THIS 1188, 1187 OR 1189 PRESSURE GAUGE:**

Select: 45 1188 AS\* 02L XXX 10 IW

- Dial size—4½" & 6" \_\_\_\_\_
- Case type—1188, 1187, 1189 \_\_\_\_\_
- Bellows and socket material \_\_\_\_\_
- Connection size — ¼" (02), ½" (04) \_\_\_\_\_
- Connection location — Lower (L), Back (B) \_\_\_\_\_
- Optional features — see page 249 \_\_\_\_\_
- Standard pressure range — 10 in. H<sub>2</sub>O \_\_\_\_\_  
Accessories — see pages 243-248 \_\_\_\_\_

(\*) Denotes solid-front case design.

**Consult factory for guidance in product selection  
Phone (203) 385-0217, Fax (203) 385-0602 or  
visit our web site at [www.ashcroft.com](http://www.ashcroft.com)**