

# STAINLESS STEEL CASE GAUGES & INDUSTRIAL GAUGES

*ASME B40.100 Grade 1A ( $\pm 1.0\%$  of span)*

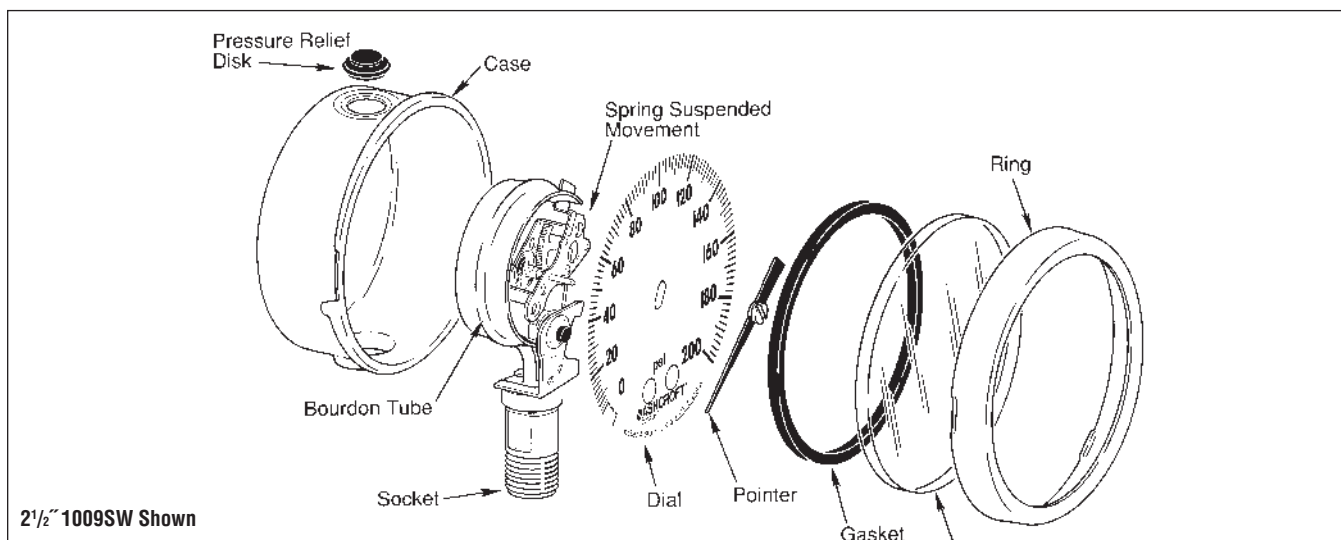
*ASME B40.100 Grade 2A ( $\pm 0.5\%$  of span)*

*ASME B40.100 Grade A ( $\pm 2-1-2\%$  of span)*

*ASME B40.100 Grade B ( $\pm 3-2-3\%$  of span)*

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**Consult ASME B40.100 for guidance in gauge selection**

**WARNING:** To prevent misapplication, pressure gauges should be selected considering media and ambient operating conditions. Improper application can be detrimental to the gauge, causing failure and possible personal injury or property damage. The information contained in this catalog is offered as a guide to assist in making the proper selection of a pressure gauge. Additional information is available from Ashcroft Inc. or [www.ashcroft.com](http://www.ashcroft.com).

**Pressure Ranges:**

As recommended by ASME B40.100, select a gauge with a full scale pressure range of approximately twice the normal operating pressure. The maximum operating pressure should not exceed approximately 75% of the full scale range. Failure to select a gauge range within these criteria may ultimately result in fatigue failure of the Bourdon tube.

**Operating Conditions:**

The operating conditions to which a gauge will be subjected must be considered. If the gauge will be subjected to severe vibration or pressure pulsation, liquid filling the gauge or selecting the patented Ashcroft Performance **PLUS!**<sup>TM</sup> as well as various throttling and pulsation devices will be necessary to obtain normal product life.

Other than discoloration of the window and dial and hardening of the gasketing that may occur as process temperatures exceed 150°F, non liquid-filled gauges

with polycarbonate windows, can withstand continuous operating temperatures up to 200°F (93°C). Liquid-filled gauges can withstand 150°F (65°C) but glycerin fill or polycarbonate 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 .4% per 25°F (4°C). Gauges with welded joints will withstand 750°F (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 and or capillary or siphon is recommended.

Proper selection of the Bourdon system material is dependent on the process fluid to which the system will be subjected. If the correct material is not available, the use of a diaphragm seal may be necessary to protect the system from the process fluid. Liquid filled gauges with throttle plugs are recommended for the discharge side of positive displacement pumps.

**Pressure Elements:**

Available in a wide variety of materials, depending on dial size, including: brass, Phosphor bronze, alloy steel, 316 stainless steel, Monel. Proper selection of the Bourdon system material depends upon the process fluid to which the system will be subjected. If the correct material is not available, the use of a diaphragm seal is recommended to protect the system from the process fluid. If the gauge is subject to severe vibration or pressure

pulsation, a liquid-filled gauge or **PLUS!**<sup>TM</sup> is recommended.

**Cases:**

Ashcroft® stainless steel case gauges have 304 stainless steel cases. The 2½", 3½", 1009 and the 63mm and 100mm 1008 are field liquid fillable. The plug used on these gauges allows the user to vent a gauge should it be necessary.

**Rings:**

The ring, (bezel) is either a crimped design (1008) or bayonet (cam) design (1009).

**Movements:**

Movements are designed and materials of construction selected to reduce friction and extend wear life.

**Dials:**

Dials are uniformly graduated and have highly legible black markings. All gauges have a white epoxy coated background dial with black markings.

**Windows:**

Depending on the size and type, Ashcroft® stainless steel case gauges are available with polycarbonate, acrylic, shatterproof glass or glass windows. In the 2½" and 3½" 63 and 100mm 1009/1008 gauge the windows have a design that uses an O-ring in a groove in the window to seal the gauge. This prevents leaks for liquid filled gauges.

**Pointers:**

Depending on the type, Ashcroft® stainless steel gauges are available with adjustable or fixed pointers.

## Stainless Steel-Case Gauges Type T5500 & T6500 EN 837-1 Class 1

- Meets EN 837-1
- Open or solid front design
- Dry, liquid filled or PLUS!™ Performance option.
- 100mm or 160mm case size
- Protection IP65.
- Optional ATEX approval  
CE II 2 GDC.
- Monel wetted system optional
- Overload protection 130%
- Optional electrical contacts

The Ashcroft® T5500 and T6500 product line offers either open or solid front design depending on your safety requirements.

Available are 100 or 160mm case sizes, stainless steel or Monel wetted systems, psi or metric pressure ranges. Industries served include chemical, petrochemical, power, machine, pulp, paper, food and beverage applications.



### SPECIFICATIONS

<b>Model No.:</b>	T5500/T6500
<b>Accuracy:</b>	Standard: Class 1, EN B37-1 1% full scale Optional: 1/2% full scale
<b>Ranges:</b>	Vacuum, compound, pressure psi: -30in. Hg-0, 0-36,000 bar: -1-0, 0-2500
<b>Dial Size:</b>	100mm or 160mm diameter
<b>Case Material:</b>	304 stainless steel, 316 stainless steel optional
<b>Case Style:</b>	T5500: open front, cylindrical case, rear blowout disk T6500: solid front, cylindrical case, rear blowout back
<b>Ring:</b>	304 stainless steel 316 stainless steel optional
<b>Window:</b>	T5500: Standard: glass, Optional: laminated-safety glass or acrylic T6500: Standard: laminated safety glass Optional: acrylic

<b>Dial:</b>	Aluminum, white background, black figures and intervals.
<b>Pointer:</b>	Standard: aluminum black Optional: adjustable micrometer, red set hand, maximum pointer
<b>Movement:</b>	304/303 stainless steel
<b>Bourdon Tube and Socket:</b>	Standard: 316L stainless steel Optional: Monel
<b>Connection Size:</b>	1/4 NPT male, 1/2 NPT male G 1/4 B male, G 1/2 B male
<b>Connection Location:</b>	T5500: Lower or back T6500: Lower only
<b>Weather Protection:</b>	IP54: Dry case IP65: Liquid filled or hermetically sealed case
<b>Temperature:</b>	Ambient: -40-200°F Process: Max. 200°F dry Max. 100°C liquid filled Storage: -40-60°C

<b>Weight (dry/filled) kg:</b>	T5500: 100mm 2 lbs 160mm 4 lbs T6500: 100mm 2 lbs 160mm 4 lbs
<b>Mounting:</b>	Standard: stem Optional: flush or surface

### OPTIONAL FEATURES

<b>Fill:</b>	L-Glycerin-Standard XGV-Silicone-Optional XGX-Halocarbon-Optional
<b>PLUS! Performance:</b>	XLL
<b>Shatter Proof Glass Window:</b>	XSG
<b>Acrylic Window:</b>	XPD
<b>Set Hand:</b>	XSH
<b>Maximum Pointer:</b>	XEP

### TO ORDER THIS T5500/T6500 PRESSURE GAUGE:

Dial Size	Type	System Material	Case Type	Process Connection	Connection Location	Range psi	Engineering Unit <sup>(1)</sup>	Fill <sup>(2)</sup>	Options
10	T5500	(S) 316L SS	(D) Dry	(02) 1/4 NPT male	(L) Lower	0/15	psi	(GV) Silicone	(YW) Case Material 316L
100mm	T6500	(P) Monel 400	(L) Liquid	(04) 1/2 NPT male	(B) Back	0/30	BAR	(GX) Halocarbon	(NH) Wire Tag
16				(13) G 1/4 NPT B male		0/60			(TU) Throttle Plug SS
160mm				(15) G 1/2 NPT B male		0/100			(6B) Oxygen Cleaned
						0/160			(MP) Micrometer Pointer
						0/200			(PD) Acrylic Glass
						0/300			(SG) Safety Glass
						0/400			(FX) Front Flange
						0/600			(FW) Back Flange
						0/800			(UF) U-Clamp
						0/1000			(LJ) Field Fillable
						0/1500			(AJ) Calibration 0.5% F.S.
						0/2000			(LL) PLUS! Performance Silicone Free
						0/3000			
						0/5000			(AT4) Atex Listed, T4
						0/6000			(AT5) Atex Listed, T5
						0/10,000			(AT6) Atex Listed, T6
						0/20,000			

(1) Others on application

(2) Glycerin fill standard when liquid filled gauge is specified.

Consult factory for guidance in product selection  
Phone (203) 378-8281 or visit our  
web site at [www.ashcroft.com](http://www.ashcroft.com)



- **Patented PowerFlex™ movement isolates movement from shock and vibration for longer life**
- **All stainless, all-welded construction for long life**
- **PLUS!™ Performance Option:**
  - **Liquid-filled performance in a dry gauge (option XLL)**
  - **Reduces wear from vibration and pulsations without liquid-fill headaches**
- **True Zero™ pointer indication – no stop pin to mask false zero reading – ensures safety and process control**
- **RoHS compliant**

Available in 63mm and 100mm dial sizes, 1008S pressure gauges are field liquid fillable and field convertible for panel mounting. The gauge is available dry, liquid-filled weatherproof or hermetically sealed with PLUS!™ performance option. 63mm can be supplied to EN 837 standard with “XER” variation.



**STANDARD RANGES**

Single-Scale Dial	Dual-Scale Dial	
psi	psi Inner Arc	kPa Outer Arc
0/15	0/15	0/100
0/30	0/30	0/200
0/60	0/60	0/400
0/100	0/100	0/700
0/160	0/160	0/1100
0/200	0/200	0/1400
0/300	0/300	0/2000
0/400	0/400	0/2800
0/600	0/600	0/4000
0/1000	0/1000	0/7000
0/1500	0/1500	0/10,000
0/2000	0/2000	0/14,000
0/3000	0/3000	0/20,000
0/5000	0/5000	0/34,000
0/6000	0/6000	0/40,000
0/7500	0/7500	0/50,000
0/10,000	0/10,000	0/70,000
0/15,000	0/15,000	0/100,000
<b>Vacuum in. Hg</b>	<b>in. Hg</b>	<b>Vacuum</b>
30/0	30/0	-100/0
<b>Comp. in. Hg/psi</b>	<b>in. Hg/psi</b>	<b>kPa</b>
30/15	30/15	-100/100
30/30	30/30	-100/200
30/60	30/60	-100/400
30/100	30/100	-100/700
30/150	30/150	-100/1000
30/300	30/300	-100/2000

Other ranges available. Contact factory direct or through Ashcroft.com.

**DUAL-SCALE AMMONIA RANGES**

Compound in Hg/psi	°F Outer Arc
Vac/150	-40/84°F
Vac/300	-40/125°F

**BOURDON SYSTEM SELECTION<sup>(1)</sup>**

Ordering Code	Bourdon Tube & Tip Material <sup>(1)</sup>	Socket Material	Tube Type	Range Selection Limits (psi)	NPT Conn. <sup>(3)</sup>
S	316L stainless steel	316L stainless steel	C-Tube	Vac/800	1/8, 1/4 & 1/2 <sup>(2)</sup>
S	316L stainless steel	316L stainless steel	Helical	1000/15,000	1/8, 1/4 & 1/2 <sup>(2)</sup>

- (1) For selection of the correct Bourdon system material, see the media application table on page 271.
- (2) 1/2 NPT available 100mm lower only.
- (3) 1/4" JIS, BSP or DIN threads available on application.

**TO ORDER THIS 1008 PRESSURE GAUGE:**

Select: \_\_\_\_\_ 63 \_\_\_\_\_ 1008 \_\_\_\_\_ S \_\_\_\_\_ (L) \_\_\_\_\_ 02L \_\_\_\_\_ XXX \_\_\_\_\_ 1000#

- Dial size—63mm or 100mm \_\_\_\_\_
- Case type—1008 \_\_\_\_\_
- Tube and socket material \_\_\_\_\_
- Liquid filled (glycerin), leave blank if dry \_\_\_\_\_
- Connection size—1/8 (01), 1/4 (02), 1/2 (04) \_\_\_\_\_
- Connection location—Lower (L), Lower Back (B) \_\_\_\_\_
- Optional Features—see page 267-268 \_\_\_\_\_
- Standard pressure range—1000 psi \_\_\_\_\_

**Consult factory for guidance in product selection  
Phone (203) 378-8281 or visit our  
web site at www.ashcroft.com**

**Stainless Steel-Case Gauge  
Type 1008S/SL, ASME B40.100  
Grade B ( $\pm 3-2-3\%$  of span)  
Center Back Design**

- ASME 3-2-3% grade B accuracy
- True Zero™ pointer indication – no stop pin to mask false zero reading – ensures safety and process control
- RoHS compliant

Available in 63mm and 100mm dial sizes, 1008S/SL are center back connection pressure gauges, field liquid fillable and field convertible for panel mounting. ASME Grade B, 3-2-3% accuracy is standard. The gauge is available dry, liquid-filled weatherproof or hermetically sealed.

**PRODUCT SPECIFICATIONS**

**Ashcroft Type No.:** 1008S  
**Sizes:** 63mm, 100mm  
**Case:** 304SS  
**Ring:** 304SS crimped  
**Window:** Polycarbonate  
**Dial:** Black figures on white background, aluminum  
**Pointer:** Black, aluminum  
**Bourdon Tube:** 316 SS Bourdon tube and socket TIG welded.  
 Throttle plug standard for all liquid filled gauges. Also on dry gauges above 1000 psi.  
**Socket:** 316 SS, Buna-N O-ring seal  
**Movement:** Stainless steel, gear type.  
**Mounting:** Stem mounting or panel mounting with U-Clamp or Front Flange.  
 All gauges have rear weld nuts for U-clamp mounting.  
**Connections:** ¼ NPT center back  
**Ranges:** From Vac-10,000 psi and compound  
**Accuracy:** ASME 3-2-3% grade B  
**Fill Plug:** Buna-N ventable design  
**Protection:** Nema 4X / IP65 plug sealed  
 Nema 3 / IP54 plug vented  
**Ambient Temperature:** -20°F to 200°F dry  
 +20°F to 150°F glycerin filled (based on standard polycarbonate window)

**OPTIONAL FEATURES**

**Liquid fill:** Glycerin  
**Mounting:** - Flush panel mounting 3 hole flange  
 - Panel mounting clamps  
 - Retrofit kit for oversized panel holes. Includes U-clamp and spacer flange.

**STANDARD RANGES**

psi  
 0/30  
 0/60  
 0/100  
 0/200  
 0/300  
 0/400  
 0/600  
 0/1000  
 0/2000  
 0/3000  
 0/5000

**These ranges are in stock.**  
 Other ranges available on application up to 20,000 psi



**TO ORDER THIS 1008 PRESSURE GAUGE:**

Select: 63 1008 S (L) 02C 100#

1. Dial size—63mm (63) or 100mm (10) \_\_\_\_\_

2. Case type—1008 \_\_\_\_\_

3. Tube and socket material—316 SS \_\_\_\_\_

4. Liquid filled (glycerin), leave blank if dry \_\_\_\_\_

5. Connection size—¼ (02) \_\_\_\_\_

6. Connection location—Center Back (C) \_\_\_\_\_

7. Pressure Range—0/100 psi \_\_\_\_\_

- **EN837-1 1.6% accuracy**
- **True Zero™ pointer indication – no stop pin to mask false zero reading – ensures safety and process control**
- **RoHS compliant**
- **Welded Flange**
- **PowerFlex™ movement isolates movement from shock and vibration for longer life**
- **MSL helium leak tested to 1X10<sup>-6</sup> ATM<sup>-cc/sec</sup>**
- **PLUS!™ Performance (XLL)**

Ashcroft offers the 2008S stainless steel panel gauge to panel builders in the oil and gas industry, as well as food and pharmaceutical, where performance, longevity, and appearance are critical requirements.

#### PRODUCT SPECIFICATIONS

<b>Ashcroft Type No.:</b>	2008S
<b>Sizes:</b>	63mm
<b>Case:</b>	304SS
<b>Ring:</b>	304SS crimped
<b>Window:</b>	Polycarbonate
<b>Dial:</b>	Black figures on white background, aluminum
<b>Pointer:</b>	Friction adjust, black, aluminum
<b>Bourdon Tube:</b>	316L stainless steel C-shaped (vacuum-600 psi and compound). Helical (1000 psi-15,000 psi)
<b>Socket:</b>	316L stainless steel
<b>Movement:</b>	300 series stainless steel, PowerFlex, polyester segment, overload/underload stops
<b>Connections:</b>	¼ NPT lower back with four 7/16" wrench flats
<b>Ranges:</b>	Vac-15,000 psi and compound
<b>Accuracy:</b>	1.6% full scale
<b>Fill Plug:</b>	Ventable and offset for ease of installation
<b>Protection:</b>	Nema 4X / IP65 plug sealed Nema 3 / IP54 plug vented
<b>Ambient Temperature:</b>	-40°F to 200°F dry +20°F to 150°F glycerin filled
<b>Limitations:</b>	-40°F to 150°F silicone filled

The 2008S utilizes many of the features of the Ashcroft Duralife® 1009 and 1008S pressure gauges including the patented PowerFlex™ spring suspended movement design to prevent wear from vibration and pulsation; True Zero™ to indicate actual zero pressure without the use of a dial pin installed at "0"; and special laser welding procedures that ensure system leak integrity.

You can also request our **PLUS!™** Performance option on the 2008S panel gauges for liquid-filled gauge performance without the concerns of temperature error and possible leaks sometimes associated with liquid filled gauges. Just ask for "XLL."

The welded 63mm panel mount flange makes for easy panel installation for new installations or on any retrofit of an Ashcroft or other brand panel gauge.

#### OPTIONAL FEATURES

<b>Liquid fill:</b>	Glycerin, silicone, halocarbon (includes throttle plug)
<b>Dampening:</b>	<b>PLUS! Performance (LL)</b> (includes throttle plug)
<b>Accuracy:</b>	1% full scale (XAN) ASME



#### STANDARD RANGES

psi
0/15
0/30
0/60
0/100
0/200
0/300
0/400
0/600
0/1000
0/2000
0/3000
0/5000
0/10,000
0/15,000
30" Hg vac
Compound ranges

Also supplied in single and dual scale ranges including bar, kPa, and kg/cm<sup>2</sup>.

#### TO ORDER THIS 2008 PRESSURE GAUGE:

<b>Select:</b>	<b>63</b>	<b>2008</b>	<b>S</b>	<b>(L)</b>	<b>02B</b>	<b>100#</b>
1. Dial size—63mm (63)	_____	_____	_____	_____	_____	_____
2. Case type—2008	_____	_____	_____	_____	_____	_____
3. Tube and socket material—316 SS	_____	_____	_____	_____	_____	_____
4. Liquid filled (glycerin), leave blank if dry	_____	_____	_____	_____	_____	_____
5. Connection size—¼ (02)	_____	_____	_____	_____	_____	_____
6. Connection location—Lower Back (B)	_____	_____	_____	_____	_____	_____
7. Pressure Range—0/100 psi	_____	_____	_____	_____	_____	_____



**DESIGNED FOR SAFETY AND LONGER LIFE**

- 5-year limited warranty of pressure system
- Patented PowerFlex™ movement isolates movement from shock and vibration for longer life
- All stainless, all-welded construction for long life
- ASME Grade 1A, 1% accuracy full scale

- True Zero™ pointer indication – no stop pin to mask false zero reading – ensures safety and process control
- PLUS!™ Performance Option:
  - Liquid-filled performance in a dry gauge
  - Fights vibration and pulsations without liquid-fill headaches
  - Order as option XLL
  - ¼" & 63mm tubing connection



The following Table is *not* for conversion purposes.

**STANDARD RANGES (3)(4)(5)**

Pressure psi	kg/cm² - bar	kPa
0/15	0/1	0/100
0/30	0/1.6	0/160
0/60	0/2.5	0/250
0/100	0/4	0/400
0/160	0/6	0/600
0/200	0/6	0/600
0/300	0/10	0/1000
0/400	0/16	0/1600
0/600	0/25	0/2500
0/800	0/40	0/4000
0/1000	0/40	0/4000
0/1500	0/60	0/6000
0/2000	0/60	0/6000
0/3000	0/100	0/10,000
0/4000	0/160	0/16,000
0/5000	0/250	0/25,000
0/6000	0/400	0/40,000
0/7500	0/400	0/40,000
0/10,000	0/600	0/60,000
0/15,000	0/1000	0/100,000
<b>Vacuum</b>		
30 in./0 in.Hg	-1/0	-100/0
<b>Compound</b>		
30 in.Hg/15 psi	-1/0/1.5	-100/0/150
30 in.Hg /30 psi	-1/0/3	-100/0/300
30 in.Hg /60 psi	-1/0/5	-100/0/500
30 in.Hg /100 psi	-1/0/9	-100/0/900
30 in.Hg /150 psi	-1/0/15	-100/0/1500
30 in.Hg /300 psi	-1/0/24	-100/0/2400

**OTHER FEATURES:**

Available in 2½" and 3½" dial sizes, Duralife® pressure gauges are liquid fillable and field convertible for panel mounting. Both zero and span adjustments are standard.

The gauge is available dry, liquid-filled weatherproof or hermetically

sealed with PLUS!™ Performance option. A five year limited warranty is standard with the Type 1009 Duralife® gauge (on the pressure system).

**BOURDON SYSTEM SELECTION (1)**

Ordering Code	Bourdon Tube & Tip Material(1)	Socket Material	Tube Type	Range Selection Limits (psi)	NPT Conn.(6)
AW	316L stainless steel	Bronze	C-Tube	Vac/600	¼
AW	316L stainless steel	Bronze	Helical	1000	¼
SW	316L stainless steel	316L stainless steel	C-Tube	Vac/600	¼ & ½(2)
SW	316L stainless steel	316L stainless steel	Helical	800/15,000	¼ & ½(2)

- (1) For selection of the correct Bourdon system material, see the media application table on page 271.
- (2) ½ NPT available 3½" lower SW system only.
- (3) Type 1009 gauges may be ordered with metric single-scale dial: kPa, bar or kg/cm².

- (4) Dual-scale dials will be supplied with standard metric inner scale and equivalent psi outer scale or with standard psi inner scale and equivalent metric outer scale—please specify.
- (5) Special logos and scales available upon request.
- (6) ¼" JIS, BSP or DIN threads available on SW systems. ¼" tubing connection also available.

**TO ORDER THIS 1009 DURALIFE PRESSURE GAUGE:**

**Select:** \_\_\_\_\_ **35** \_\_\_\_\_ **1009** \_\_\_\_\_ **SW** \_\_\_\_\_ **(L)** \_\_\_\_\_ **02L** \_\_\_\_\_ **XXX** \_\_\_\_\_ **1000#**

- Dial size—2½", 3½" \_\_\_\_\_
- Case type—1009 \_\_\_\_\_
- Tube and socket material \_\_\_\_\_
- Liquid filled (glycerin), leave blank if dry \_\_\_\_\_
- Connection size—½ (01), ¼ (02) ½ (04) JP ¼" tubing connection \_\_\_\_\_
- Connection location—Lower (L), Lower Back (B) \_\_\_\_\_
- Optional Features—see page 267-268 \_\_\_\_\_
- Standard pressure range—1000 psi \_\_\_\_\_

Accessories: see pages 261-266

**Consult factory for guidance in product selection  
Phone (203) 378-8281 or visit our  
web site at www.ashcroft.com**



**Stainless Steel Case Gauge  
Type 1109, ASME B40.100  
Grade 1A (±1% of span)  
Solid Front**

- Solid front case design with full blowout back
- Temperature compensated case
- 4½" dial size
- ASME B40.100 Grade 1A, (±1% of span) accuracy
- 300 Series SS case and ring
- Ranges from vacuum through 100,000 psi
- New PLUS!™ Performance Option:
  - Liquid-filled performance in a dry gauge
  - Fights vibration and pulsations without liquid-fill headaches
  - Order as option XLL

The Type 1109 Ashcroft® solid front stainless steel case offers many features not available elsewhere. With a true 4½" dial size, a fully temperature compensated case and blowout back for safety, the Type 1109 offers superior readability compared to the competitive 100mm case gauges. The Type 1109 has been designed to meet the needs of both the offshore platform market and also the waterblaster or waterjet markets.

For offshore platforms the Type 1109 is available dry, liquid-filled<sup>(3)</sup> or with the revolutionary PLUS!™ Performance option. The rugged design of the Type 1109 with ranges to 100,000 psi, is well suited to meet the needs of the waterblaster or waterjet market. With the PLUS!™ Performance standard on ranges above 30,000 psi this gauge offers superior readability and eliminates the headaches often associated with liquid-filled gauges.



STANDARD RANGES	
Pressure psi	Compound psi
0/15	30 in.Hg/15 psi
0/30	30 in.Hg /30 psi
0/60	30 in.Hg /60 psi
0/100	30 in.Hg /100 psi
0/160	30 in.Hg /150 psi
0/200	30 in.Hg /300 psi
0/300	
0/400	
0/600	
0/800	
0/1000	
0/1500	
0/2000	
0/3000	
0/5000	
0/10,000	
0/20,000	
0/30,000	
0/50,000	
0/80,000	
0/100,000	

**NOTE:**  
Equivalent standard bar, kg/cm<sup>2</sup>, and kPa metric ranges are available.

BOURDON SYSTEM SELECTION <sup>(1)</sup>					
Ordering Code	Bourdon Tube & Tip Material <sup>(1)</sup>	Socket Material	Tube Type	Range Selection Limits (psi)	NPT Conn. Lower Only
SD	316 stainless steel	316 stainless steel	C-Tube	Vac/1500	½ <sup>(2)</sup>
	316 stainless steel	316 stainless steel	Helical	2000-20,000	½ <sup>(2)</sup>
WD	Inconel 718	316 stainless steel	Helical	50,000-100,000	¼ high pressure

(1) For selection of the correct Bourdon system material, see the media application table on page 271.  
 (2) ¼ NPT optional, lower connection only.  
 (3) Liquid fill available on ranges 20,000 psi and below.

**TO ORDER THIS 1109 PRESSURE GAUGE:**

**Select:** \_\_\_\_\_ **45**      **1109**      **SD**      **04L**      **XXX**      **0/100#**

1. Dial size—4½" \_\_\_\_\_
2. Case type—1109 \_\_\_\_\_
3. Bourdon system selection ordering code \_\_\_\_\_
4. Connection—¼ (02), ½ (04), ¾ high pressure (09), Lower Only(L) \_\_\_\_\_
5. Optional features—see page 267-268 \_\_\_\_\_
6. Standard pressure range—100 psi \_\_\_\_\_
7. Accessories—see pages 261-266 \_\_\_\_\_

- 4½" through 12" dials available
- Stainless steel, aluminum and phenolic case materials
- Wide range of types to combine specifics and price
- Slotted link and throttle screw standard

The Ashcroft® line of pressure gauges offers a product that is uniquely designed for rigorous hydraulic services. Hydraulic gauges are supplied with a slotted link movement to avoid gear wear. All models are supplied with throttle devices as standard.



Type 1009

SPECIFICATIONS					
Gauge Type Number	Dial Size (Inches)	Case Material	Connection Location	Mounting	Method
1009-XS4TS	4½", 6"	Stainless Steel	Lower/Back	Stem, Surface, Flush	-
1010-XS4TS	4½"-12"	Aluminum	Lower/Back	Stem, Surface	-
1017-XS4TS	4½", 6"	Aluminum	Lower/Back	Flush	Back Flange, Flush Mounting Ring
1220-XS4TS	4½"-8½"	Phenolic	Lower/Back	Stem	

BOURDON SYSTEM SELECTION						
Dial Size (Inches)	Order Code	Bourdon Tube & Tip Material <sup>(1)</sup> (all joints TIG welded except "A") <sup>(1)</sup>	Socket Material	Tube Type	Range Selection Limits (psi)	NPT Conn. <sup>(2)</sup>
4½", 6", 8½"	A	Phosphor Bronze Tube-Brass Tip, Silver Brazed	Brass	C-Tube	12/1000	¼
4½", 6", 8½", 12"	S	316 stainless steel	316 stainless steel	C-Tube	12/1500	¼
				Helical	2000/20,000	½
4½", 12"	P	K Monel	Monel 400	C-Tube	15/1500	¼
				Helical	2000/30,000	½

(1) For selection of the correct Bourdon system material, see the media application table on page 271.  
 (2) Optional connections available: ½ NPT where ¼ NPT is standard, ¼ NPT where ½ NPT is standard.  
 (3) Single-scale and dual-scale ranges available.

STANDARD psi RANGES <sup>(3)</sup>		
Range psi	Figure Interval	Minor Graduation
0/1000	100	10
0/1500	200	20
0/2000	200	20
0/3000	500	50
0/5000	1000	50
0/6000	1000	100
0/7500	1000	100
0/10,000	1000	100
0/15,000	2000	200
0/20,000	2000	200

Note: Dual-scale dials showing psi and tons on ram are available on application

STANDARD METRIC RANGES <sup>(3)</sup>			
Range		Dial Graduations	
kg/cm <sup>2</sup> kilograms per sq. cm.	bar	Figure Interval	Minor Graduation
0/60	0/60	5	1
0/100	0/100	10	1
0/160	0/160	20	2
0/250	0/250	50	5
0/400	0/400	50	5
0/600	0/600	50	10
0/1000	0/1000	100	10
0/1600	0/1600	200	20

Range	Dial Graduation		Outer scale when dual range specified psi
kPa (kilopascal)	Figure Interval	Minor Graduation	
0/6000	500	100	0/850
0/10,000	1000	100	0/1400
0/16,000	2000	200	0/2200
0/25,000	5000	500	0/3500
0/40,000	5000	500	0/5500
0/60,000	5000	1000	0/8500
0/100,000	10,000	1000	0/14,000
0/160,000	20,000	2000	0/22,000

**HOW TO ORDER THESE HYDRAULIC GAUGES:**

Select: \_\_\_\_\_ 45 \_\_\_\_\_ 1009 \_\_\_\_\_ S \_\_\_\_\_ 02L \_\_\_\_\_ XS4TS \_\_\_\_\_ 1000#

1. Dial size— 4½", 6" \_\_\_\_\_

2. Case code: 1010 \_\_\_\_\_

3. Tube and socket material, (see chart above) \_\_\_\_\_

4. Connection size—¼ (02), ½ (04) \_\_\_\_\_

5. Connection location—Lower (L), Lower Back (B) \_\_\_\_\_

6. Options—see page 267-268 \_\_\_\_\_

7. Standard pressure range—1000 psi \_\_\_\_\_



- 4½" through 12" dials
- Stainless steel, phenolic and aluminum case materials
- Dual-scale dials with pressure and temperature indication
- Wide range of refrigerant scales, including refrigerant 134A and ammonia

Ashcroft® refrigeration and ammonia gauges are used to display pressure and temperature when measuring various sealed refrigeration systems. This dual-scale dial gauge has an inner pressure scale with black numerals and an outer temperature scale with red numerals. A selection of models exists to meet specification and price parameters.



Type 1010

**MATERIALS OF CONSTRUCTION**

CASE STYLE	BOURDON TUBE & TIP MATERIAL	SOCKET MATERIAL	POINTER	MOVEMENT	NPT CONNECTION
Refrigerants	Phosphor Bronze/Brass (all joints silver brazed)	Brass	Black Adjustable	Stainless Steel with Teflon Coated Pinion	1/4 NPT Standard 1/2 NPT Optional
Ammonia	316 Stainless Steel (all welded joints)	316 SS	Black Adjustable	Stainless Steel with Teflon Coated Pinion	1/4 NPT Standard 1/2 NPT Optional

**REFRIGERANTS**

CODE	REFRIGERANT
XR1	R-11
XR2	R-12
XR3	R-22
XR4	R-502
XR6	R-114
XR7	R-500
XR8	R-134A
XR9	R-123
AMMONIA	
XR5	Ammonia

**CASE STYLES**

MODEL	MATERIAL	DIAL SIZE	CONN. LOCATION	MOUNTING
1009	Stainless Steel	4½" & 6"	Lower & Back	Stem, Surface, Panel
1010	Aluminum	4½", 6", 8½", 12"	Lower & Back	Stem, Surface, Panel
1017	Aluminum	4½" & 6"	Back Only	Panel Only
1220	(1)	4½", 6", 8½", 12"	Lower & Back	Stem, Surface, Panel

(1) 4½" Phenolic; 6" Polypropylene; 8½" Aluminum

**STANDARD PRESSURE RANGES**

RANGE	DIAL GRADUATIONS FIGURE INTERVAL	MINOR GRADUATIONS
30" Hg Vac/150 psi 30" Hg Vac/300 psi	10" Hg & 25 psi 30" Hg & 25 psi	2" Hg & 5 psi 5" Hg & 5 psi
-1/10 KgCm <sup>2</sup> -1/24 KgCm <sup>2</sup>	1 2	0.1 0.2
-1/10 Bar -1/24 Bar	1	0.1
-100/1000 kPa -100/2400 kPa	100 500	10 20

Dual scale pressure ranges available upon request with equivalent dual scale temperature scales.

**TO ORDER THESE REFRIGERATION GAUGES:**

Select: 45 1010 A 02L XR5 30 in. Hg Vac/150#

- Dial size—4½" thru 12" \_\_\_\_\_
- Case Type—1010 \_\_\_\_\_
- Tube and socket material—A, S \_\_\_\_\_
- Connection size—¼ (02), ½ (04) \_\_\_\_\_
- Connection location—Lower (L), Lower Back (B) \_\_\_\_\_
- Optional features including refrigerant (see page 267-268) \_\_\_\_\_
- Standard pressure range—30" Hg Vac/150 psi \_\_\_\_\_  
Accessories—see pages 267-268

Consult factory for guidance in product selection  
Phone (203) 378-8281 or visit our  
web site at [www.ashcroft.com](http://www.ashcroft.com)

- **A Multi-Functional Digital Gauge with Optional:**
  - 4/20mA Output
  - (1) or (2) SPDT Switches
- **±.25% of Span Terminal Point Accuracy**
- **IP 65 Weatherproof Case**
- **Three Case Options: Stainless Steel, Fiberglass Reinforced Thermoplastic or Aluminum**
- **Extra Large Display**

- **Intrinsically Safe, Class I, Div. 1 (optional)**
- **Easy-to-Use Menu Options: (all)**
  - Five Backlite Display Options
  - Twelve Engineering Units
  - Menu Configure Feature
  - Update Rate
  - Dampen Rate
  - Auto-Off

LOOK FOR THESE AGENCY MARKS ON OUR PRODUCTS



**PRODUCT SPECIFICATIONS**

<b>Type:</b>	2074 (battery) 2174 (loop) 4-20mA (12-36Vdc) 2274 (line) (12-36Vdc)
<b>Accuracy:</b>	±.25% of span, terminal point
<b>Case Size:</b>	3", 4½"
<b>Case Material:</b>	3" stainless steel, 4½" fiberglass reinforced thermoplastic or black epoxy coated aluminum
<b>Case Encl. Rating:</b>	Weatherproof, IP65
<b>Wetted Materials:</b>	17-4 stainless steel (sensor), 316 stainless steel (socket)
<b>Socket Size:</b>	¼ or ½ NPT, JIS, DIN, SAE, (½ NPT only with 4½" case, others on application)
<b>Socket Location:</b>	Lower (6 o'clock), top, side
<b>Ranges:</b>	15 psi/Vac. thru 20,000 psi (see engineering units below for other units)
<b>Operating Temp.:</b>	14/140°F (10/60°C)
<b>Temp. Error:</b>	(Zero & Span) .04%/°F Reference temp. 70°F
<b>Storage Temp.:</b>	-4/158° (-20°/70°C)

**DISPLAY**

<b>Type:</b>	LCD
<b>Display Digits:</b>	Five (5)
<b>Character Height:</b>	3" case: .60", 4½" case: .88"
<b>Backlite:</b>	Optional
<b>Bar Graph:</b>	Yes
<b>Battery Life:</b>	3" <500 hrs., 4½" <2500 hrs.
<b>Agency Approvals:</b>	CE, FM (Intrinsically Safe Class I, Div 1) (optional)

**KEYPAD FUNCTIONS**

<b>On/Off:</b>	Manually turns unit on and off
<b>Zero/Clear:</b>	Zeros display or clears min. and max. values when displayed
<b>Min/Max ▼ (down) Arrow Key:</b>	Stores min & max values, arrow key allows for scrolling thru menu items
<b>Menu Key:</b>	Provides access to menu options
<b>Backlite ▲ (up) Arrow Key:</b>	Manually turns backlite on and off, arrow key allows for five menu options. ▲ (up) arrow key allows for scrolling thru menu options
<b>Enter:</b>	Selects items in the menu

**MENU MODE**

<b>Engineering Units:</b>	10 units of measurement are available; psi, In. H <sub>2</sub> O (with three temp. options: 20°C, 60°F, 4°C*), Ft. H <sub>2</sub> O, mPa, mBar, kPa, kg/cm <sup>2</sup> , Bar, inHg and mmHg
<b>Configuration Mode (Config):</b>	Allows for changes to default settings of gauge including zero disable feature

<b>Bar Graph (Graph):</b>	Allows for adjustment of bargraph and 4-20
<b>Auto Off (Off):</b>	Allows for changes to auto off of gauge, five options: Never, 2 min., 5 min., 15 min., 30 min.
<b>Update Rate:</b>	Four options: 100 ms, 200 ms, 500 ms, 1 sec
<b>Dampening:</b>	Six options: None, average, 2, 4, 6, 8 times per 100ms
<b>Backlite:</b>	Five options: Never, 10 sec., 30 sec., 1 min., 5 min.
<b>Field Recalibration:</b>	Allows for recalibration of zero, mid-scale and span (password protected)

**OPTIONS**

Description	Code	Case Size
<b>Case Options</b>		
Aluminum Case (black epoxy coated) (Glass reinforced thermoplastic case standard)	AY	4½" only
<b>Switch Options</b>		
(1) SPDT Switch (12-36Vdc)	U1	3", 4½"
(2) SPDT Switch (12-36Vdc)	U2	3", 4½"

Line Power with 4-20mA output (Line power (Type 2274) required for switching options) (Terminal blocks standard with 4½" case) (3' shielded cable standard)	AO	3", 4½"
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<b>Wiring Options</b> (3' shielded cable standard) (Terminal blocks standard with 4½" case.)	EN	4½"
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<b>Keypad Options</b> Backlite	BL	3", 4½"
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<b>Miscellaneous Options</b> Battery Backup (Battery standard with Type 2074) (Available with Types 2174 & 2274)	BK	3", 4½"
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Weatherproof ABS Gauge Carrying Case	S7	3" only
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Protective Rubber Boot (black)	B1	3" only
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Protective Rubber Boot (orange)	B2	3" only
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Protective Front Cover	PP	3" only
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Individual Certified Calibration Chart	C4	
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Cleaned for Gaseous Oxygen Service	6B	
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**DIGITAL INDUSTRIAL GAUGE RANGES (Units in horizontal rows not equivalent ranges):**

psi	in. Hg (vacuum)	Comp. (psi)	mmHg (pressure)	in. Hg (pressure)	in. H <sub>2</sub> O	mBar	ft. H <sub>2</sub> O	mPa	kPa	Bar/KSC
15	30	15#&Vac	800	30	400	1000	60	1	100	1
30		30#&Vac	1000	60	800	1500	160	1.6	160	1.6
60		60#&Vac	2000	100	1000	2000	200	2.5	250	2.5
100		100#&Vac	3000	160		2500	300	4	400	4
160			5000	200		4000	400	6	600	6
200			10,000	300		5000	600	10	1000	10
300				400		6000	1000	16	1600	16
600				600		10,000		25	2500	25
800				800		15,000		40	4000	40
1000						20,000		60	6000	60
1500								100	10,000	100
2000								140	16,000	160
3000									25,000	250
5000									40,000	400
8000									60,000	600
10,000									100,000	1000
15,000									140,000	1400
20,000										

**TO ORDER THIS DIGITAL INDUSTRIAL GAUGE:**

**Select:** 30 2074 SD 02 L 100# XXX

- Dial Size: 3"
- Type: 2074
- Wetted parts: 316 SS
- Connections: ¼ NPT
- Lower:
- Range: 100 psi
- Optional Characters:

**Consult factory for guidance in product selection**  
**Phone (203) 378-8281 or visit our**  
**web site at [www.ashcroft.com](http://www.ashcroft.com)**





- Available in 4½" and 6" dial sizes
- Solid-front case style, black epoxy-painted aluminum case
- Hinged-steel black enamel texture finish panel ring

The Ashcroft® Type 1017 gauge is the most economical of the general service gauges when flush panel-mounting is required.



The following Table is *not* for conversion purposes.

**STANDARD RANGES<sup>(3)</sup>**

Pressure psi	kg/cm <sup>2</sup> - bar	kPa
0/15	0/1	0/100
0/30	0/1.6	0/160
0/60	0/2.5	0/250
0/100	0/4	0/400
0/160	0/6	0/600
0/200	0/10	0/1000
0/300	0/16	0/1600
0/400	0/25	0/2500
0/600	0/40	0/4000
0/800	0/60	0/6000
0/1000	0/100	0/10,000
0/1500	0/160	0/16,000
0/2000	0/250	0/25,000
0/3000	0/400	0/40,000
0/4000	0/600	0/60,000
0/5000	0/1000	0/100,000
0/6000		
0/7500		
0/10,000		
0/15,000		
0/20,000		
<b>Vacuum</b>		
30 in./0 in.Hg	-1/0	-100/0
<b>Compound</b>		
30 in.Hg/15 psi	-1/0/1.5	-100/0/150
30 in.Hg/30 psi	-1/0/3	-100/0/300
30 in.Hg/60 psi	-1/0/5	-100/0/500
30 in.Hg/100 psi	-1/0/9	-100/0/900
30 in.Hg/150 psi	-1/0/15	-100/0/1500
30 in.Hg/300 psi	-1/0/24	-100/0/2400

**BOURDON SYSTEM SELECTION**

Ordering Code Conn. <sup>(1)</sup>	Bourdon Tube & Tip Material <sup>(1)</sup> (all joints TIG welded except "A")	Socket Material	Tube	Range Selection Type	NPT Conn. <sup>(2)</sup>
A	Phosphor Bronze Brass Tip, Silver Brazed	Brass	C-Tube	12/1000	¼
S	316 stainless steel	316 stainless steel	C-Tube	12/1500	¼
			Helical	2000/20,000	½
P <sup>(4)</sup>	K Monel	Monel 400	C-Tube	15/1500	¼
			Helical	2000/30,000	½

(1) For selection of the correct Bourdon system material, see the media application table on page 271.

(2) Optional connections available: ½ NPT where ¼ NPT is standard, ¼ NPT where ½ NPT is standard.

(3) Single-scale and dual-scale ranges available.

(4) 6" dial not available with monel system.

**TO ORDER THIS 1017 PRESSURE GAUGE:**

Select: 45 1017 A 02B XXX 1000#

- Dial size—4½", 6" \_\_\_\_\_
- Case type—1017 \_\_\_\_\_
- Tube and socket material \_\_\_\_\_
- Connection size—¼ (02), ½ (04) \_\_\_\_\_
- Connection location—Lower Back (B) only \_\_\_\_\_
- Optional features—see page 267-268 \_\_\_\_\_
- Standard pressure range—1000 psi \_\_\_\_\_  
Accessories—see pages 261-266

- Available in 4½", 6" and 8½" dial sizes
- Solid-front style
- Lower or back connect

The Ashcroft® Type 1220 is a versatile general service gauge. Lower and back connections allow the gauge to be used for many installations.



The following Table is *not* for conversion purposes.

STANDARD RANGES <sup>(3)</sup>		
Pressure psi	kg/cm <sup>2</sup> - bar	kPa
0/15	0/1	0/100
0/30	0/1.6	0/160
0/60	0/2.5	0/250
0/100	0/4	0/400
0/160	0/6	0/600
0/200	0/10	0/1000
0/300	0/16	0/1600
0/400	0/25	0/2500
0/600	0/40	0/4000
0/800	0/60	0/6000
0/1000	0/100	0/10,000
0/1500	0/160	0/16,000
0/2000	0/250	0/25,000
0/3000	0/400	0/40,000
0/4000	0/600	0/60,000
0/5000	0/1000	0/100,000
0/6000		
0/7500		
0/10,000		
0/15,000		
0/20,000		
<b>Vacuum</b>		
30 in./0 in.Hg	-1/0	-100/0
<b>Compound</b>		
30 in.Hg/15 psi	-1/0/1.5	-100/0/150
30 in.Hg /30 psi	-1/0/3	-100/0/300
30 in.Hg /60 psi	-1/0/5	-100/0/500
30 in.Hg/100 psi	-1/0/9	-100/0/900
30 in.Hg /150 psi	-1/0/15	-100/0/1500
30 in.Hg/300 psi	-1/0/24	-100/0/2400

BOURDON SYSTEM SELECTION					
Ordering Code Conn. <sup>(1)</sup>	Bourdon Tube & Tip Material <sup>(1)</sup> (all joints TIG welded except "A")	Socket Material	Tube	Range Selection Type	NPT Conn. <sup>(2)</sup>
A	Phosphor Bronze Brass Tip, Silver Brazed	Brass	C-Tube	12/1000	¼
S	316 stainless steel	316 stainless steel	C-Tube	12/1500	¼
			Helical	2000/20,000	½
P <sup>(4)</sup>	K Monel	Monel 400	C-Tube	15/1500	¼
			Helical	2000/30,000	½

(1) For selection of the correct Bourdon system material, see the media application table on page 2715.  
 (2) Optional connections available: ½ NPT where ¼ NPT is standard, ¼ NPT where ½ NPT is standard.

(3) Single-scale and dual-scale ranges available.  
 (4) 6" and 8½" dial not available with Monel system.

CASE MATERIAL	
Dial Size	Case Material
4½"	Phenol
6"	Polypropylene
8½"	Aluminum

**TO ORDER THIS 1220 PRESSURE GAUGE:**

Select: \_\_\_\_\_ 45 \_\_\_\_\_ 1220 \_\_\_\_\_ A \_\_\_\_\_ 02L \_\_\_\_\_ XXX \_\_\_\_\_ 1000#

1. Dial size—4½", 6" and 8½" \_\_\_\_\_

2. Case type—1220 \_\_\_\_\_

3. Tube and socket material \_\_\_\_\_

4. Connection size—¼ (02), ½ (04) \_\_\_\_\_

5. Connection location—Lower (L), Lower Back (B) \_\_\_\_\_

6. Optional features—see page 267-268 \_\_\_\_\_

7. Standard pressure range—1000 psi \_\_\_\_\_

- Available in 4½" dial size only
- All-stainless steel case and ring
- 316 stainless steel Bourdon tube and socket
- Micrometer-adjustable pointer

Ashcroft® Type 1020S Christmas Tree gauges are designed to the specific needs of oil fields where rugged construction and minimal maintenance is important.



STANDARD RANGES		
Type 1020S		
Pressure (psi)		
Range	Figure Interval	Minor Graduation
0/1000	100	10
0/2000	200	20
0/3000	300	50
0/5000	500	50
0/10,000	1000	100
0/20,000	2000	200

CASE TYPE								
Gauge Type Number	Dial Size (inches)	Case & Ring Material Finish	Bourdon Tube & Tip Material	Socket Material	Pressure Range (psi)	Pointer	Movement	NPT Connection
XMAS TREE 1020S	4½	Case: Stainless Steel Ring: Bayonet Lock Stainless Steel Both polished	316 Stainless Steel (all joints TIG welded)	316 Stainless Steel	1000/20,000	Micrometer Adjustable	Stainless Steel Teflon coated pinion and sector shaft, rotary geared	½ ¼ optional

**TO ORDER THIS TYPE 1020R CHRISTMAS TREE GAUGE:**

Select: \_\_\_\_\_ 45      1020      S      04L      XXX      1000#

- Dial size—4½" \_\_\_\_\_
- Case type—1020 \_\_\_\_\_
- Tube and socket material—see charts above \_\_\_\_\_
- Connection size—¼ (02), ½ (04) \_\_\_\_\_
- Connection location—Lower (L) only \_\_\_\_\_
- Optional features \_\_\_\_\_
- Standard pressure range—1000 psi \_\_\_\_\_



**Differential Pressure Gauges  
Types 1125, 1125A  
ASME B40.100  
Grade A ( $\pm 2-1-2\%$  of span)**

- Available in 4½" and 6" dial sizes
- Aluminum cases
- Bronze Bourdon tube and socket
- Ranges through 1000 psi
- Micrometer-adjustable pointer
- Available with electric contacts
- Static pressures from 30-1500 psi depending on the range of gauge
- Pointer indicator with zero at seven o'clock (1125) or twelve o'clock position (1125A)
- Built-in back case flange for easy wall mounting

The Ashcroft® differential pressure gauge is an economical way to display the difference of two separate inputs on one dial indicator. The case style is similar to other Ashcroft gauges, making panel gauge consistency possible. This product is supplied with bronze Bourdon tube and socket.



**STANDARD RANGES**

Type 1125 (210° dial arc) Pressure (psi)			
Range	Figure Interval	Minor Graduation	Static Pressure Limits*
0/20	5	0.2	30
0/30	5	0.5	60
0/60	10	1	120
0/100	10	1	200
0/160	20	2	300
0/200	20	2	300
0/300	50	5	450
0/400	50	5	600
0/600	100	10	900
0/800	100	10	1200
0/1000	100	10	1500

\*Maximum pressure that can be admitted into Bourdon tubes.

**Type 1125A (210° dial arc) Zero centered dial  
Pressure (psi)**

Range	Figure Interval	Minor Graduation	Static Pressure Limits*
10/10	2	0.2	30
15/15	5	0.5	60
30/30	10	1	120
50/50	10	1	200
80/80	20	2	300
100/100	20	2	300
150/150	50	5	450
200/200	50	5	600
300/300	100	10	900
400/400	100	10	1200
500/500	100	10	1500

\*Maximum pressure that can be admitted into Bourdon tubes.

**CASE TYPE**

Gauge Type Number	Dial Size (inches)	Case & Ring Material Finish	Bourdon Tube & Tip Material	Socket Material	Pressure Range (psi)	Pointer	Movement	NPT Connection
DIFFERENTIAL 1125 1125A	4½, 6 <sup>(1)</sup>	Case: Aluminum Ring: Threaded aluminum All black epoxy coated	Phosphor Bronze Tip: Brass (all joints silver brazed)	Bronze	1125: 20/1000 1125A 10/0/10 500/0/500	Micrometer Adjustable	Bronze-bushed Overload & Vacuum Stops-Std.	¼

1125A dial indicates zero at 12:00 (1) 6" lower connect only.

**METRIC RANGES**

	PRESSURE RANGE		DIAL GRADUATIONS		RANGE	DIAL GRADUATIONS		Outer Range When Dual Range Specified psi
	kg/cm <sup>2</sup>	bar	Figure Interval	Minor Graduation		kPa (kilopascal)	Figure Interval	
Type 1125	0/1.4	0/1.4	0.2	0.02	0/140	20	2	0/20
	0/2	0/2	0.5	0.05	0/200	50	5	0/28
	0/4	0/4	0.5	0.05	0/400	50	5	0/55
	0/7	0/7	0.5	0.1	0/400	50	10	0/100
	0/11	0/11	2	0.2	0/1100	200	20	0/160
	0/14	0/14	2	0.2	0/1400	200	20	0/200
	0/20	0/20	5	0.5	0/2000	250	50	0/300
	0/28	0/28	5	0.5	0/2800	500	50	0/400
	0/40	0/40	5	0.5	0/4000	500	50	0/600
	0/56	0/56	10	1	0/5600	1000	100	0/800
	0/70	0/70	10	1	0/7000	1000	100	0/1000
	Type 1125A	0.7/0.7	0.7/0.7	0.2	0.02	70/70	20	2
1/1		1/1	0.5	0.05	100/100	50	5	14/14
2/2		2/2	0.5	0.05	200/200	50	5	28/28
3.5/3.5		3.5/3.5	0.5	0.1	350/350	50	10	50/50
5.5/5.5		5.5/5.5	2	0.2	550/550	200	20	80/80
7/7		7/7	2	0.2	700/700	200	20	100/100
10/10		10/10	5	0.5	1000/1000	250	50	150/150
14/14		14/14	5	0.5	1400/1400	500	50	200/200
20/20		20/20	5	0.5	2000/2000	500	50	400/400
28/28		28/28	10	1	2800/2800	1000	100	400/400
35/35		35/35	10	1	3500/3500	1000	100	500/500

**TO ORDER THESE 1125, 1125A DIFFERENTIAL GAUGES:**

Select: \_\_\_\_\_ 45      1125      02L      XXX      1000#

- Dial size—4½", 6" \_\_\_\_\_
- Case type—1125, 1125A \_\_\_\_\_
- Connection size—¼ (02) \_\_\_\_\_
- Connection location—Lower (L), Back (B) \_\_\_\_\_
- Optional features \_\_\_\_\_
- Standard pressure range—1000 psi \_\_\_\_\_

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**Differential Pressure Gauges  
Types 1127, 1128  
ASME B40.100  
Grade A ( $\pm 2-1-2\%$  of span)**

- 316 stainless steel wetted parts
- Available in 4½" or 6" dial sizes
- Ranges from 10 psi-1000 psi
- Static pressures from 45 psi-1200 psi depending on the range of the gauge
- Pointer indicator with zero at seven (1127) or twelve o'clock position (1128)
- Built-in back case flange for easy wall mounting
- Lower connect only

When the process is corrosive to gauges with bronze/brass wetted parts an alternative was to isolate the gauge from the process with capillary and isolators or diaphragm seals. Now, when the process is compatible with 316 stainless steel, the user can select Types 1127 or 1128 differential pressure gauges with 4½" or 6" dials.



STANDARD RANGES			
Type 1127 (270° dial arc)			
Pressure Range (psi)	Figure Interval	Minor Graduation	Static Pressure Limits*
0/10	5	0.2	45
0/20	5	0.2	45
0/30	5	0.5	45
0/60	10	1	90
0/100	10	1	130
0/160	20	2	208
0/200	20	2	260
0/300	50	5	390
0/400	50	5	520
0/600	100	10	780
0/800	100	10	1040
0/1000	100	10	1200

\*Maximum pressure that can be admitted into Bourdon tubes.

Type 1128 (270° dial arc) Zero centered dial			
Pressure Range (psi)	Figure Interval	Minor Graduation	Static Pressure Limits*
10/0/10	2	0.5	45
15/0/15	3	0.2	45
30/0/30	5	1	90
50/0/50	10	1	130
100/0/100	20	2	260
200/0/200	50	5	520
300/0/300	100	10	780
400/0/400	100	10	1040

\*Maximum pressure that can be admitted into Bourdon tubes.

METRIC RANGES			
Type 1127 (270° dial arc)			
PRESSURE RANGE		DIAL GRADUATIONS	
kg/cm <sup>2</sup>	bar	Figure Interval	Minor Graduation
0/1	0/1	0.2	0.02
0/2	0/2	0.5	0.05
0/4	0/4	0.5	0.05
0/7	0/7	0.5	0.05
0/11	0/11	2	0.2
0/14	0/14	2	0.2
0/21	0/21	5	0.5
0/28	0/28	5	0.5
0/42	0/42	5	0.5
0/56	0/56	10	1
0/70	0/70	10	1

Type 1128 (210° dial arc) Zero centered dial			
PRESSURE RANGE		DIAL GRADUATIONS	
kg/cm <sup>2</sup>	bar	Figure Interval	Minor Graduation
1/0/1	1/0/1	0.5	0.05
2/0/2	2/0/2	0.1	0.01
3.5/0/3.5	3.5/0/3.5	0.5	0.1
5.5/0/5.5	5.5/0/5.5	2	0.2
7/0/7	7/0/7	2	0.2
10.5/0/10.5	10.5/0/10.5	5	0.5
14/0/14	14/0/14	5	0.5
21/0/21	21/0/21	5	0.5
28/0/28	28/0/28	10	1
35/0/35	35/0/35	10	1

CASE TYPE – Differential 1127, 1128			
Dial Size (inches)	Case & Ring Material Finish	Bourdon Tube & Tip Material	Socket Material
4½, 6	Case: Aluminum Ring: Threaded aluminum All black epoxy coated	316 stainless steel	316 stainless steel
Pressure Range (psi)	Pointer	Movement	NPT Connection
10/1000	Adjustable	Bronze-brushed Overload & Vacuum Stops-Std.	¼ or ½ lower connect only

**TO ORDER THESE 1127, 1128 DIFFERENTIAL PRESSURE GAUGES:**

Select: \_\_\_\_\_ 45      1127      SD      02L      XXX      100#

1. Dial size—4½", 6" \_\_\_\_\_
2. Case type—1127, 1128 \_\_\_\_\_
3. Tube and socket material—(SD) Stainless \_\_\_\_\_
4. Connection size—¼ (02) \_\_\_\_\_
5. Connection location—Lower (L) \_\_\_\_\_
6. Optional features \_\_\_\_\_
7. Standard pressure range—1000 psi \_\_\_\_\_

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- **Piston actuator**
- **Stainless steel case**
- **Ranges from 5 psid-150 psid**
- **Static pressures up to 6000 psi<sup>(5)</sup>**
- **Aluminum<sup>(4)</sup>, brass or stainless steel bodies<sup>(1)</sup>**
- **Buna-N O-rings (others available)**
- **Superior magnets for smoother pointer motion**
- **Standard or explosion-proof reed switches available**
- **5-year warranty**
- **NEMA 4 / IP65**

The Type 1130 uses a piston design where small migration of the process media is permissible.<sup>(2)</sup> It is recommended for high differential and high static pressures, up to 6000 psi. Body materials are available in Aluminum, Brass and Stainless Steel, with Buna, Viton or EPDM seals.<sup>(3)</sup>

- (1), (2) Not for use with incompatible media.
- (3) Other wetted parts include stainless steel, Teflon and ceramic.
- (4) Aluminum bodies not to be used with water or corrosive applications.
- (5) Static pressure over 3000 psi in SS only.



SPECIFICATIONS	Type 1130
Accuracy (Ascending)	±2%
Migration	Minor
Range Limits	0-5 psid to 150 psid
Maximum Static Pressure	3000 psi (6000 psi for SS)
Actuator	Piston
Case Material	Stainless Steel
Dial Size	2" (20), 2½" (25), 3½" (35), 4" (40), 4½" (45), 6" (60)
Maximum Process Temperature	175°F / 80°C
Body Materials	Aluminum (F), Brass (A), Stainless Steel (S)
O-Rings	Buna-N
Connection Size (Female)	¼ NPT (25)
Connection Location	In-Line (S), Lower (L), Back (B)
Window	Glass
Warranty	Five Years

OPTIONS	
¼ NPT Female Adapter (XGE)	Available
Switches <sup>(1,2)</sup> NEMA-4	Available
Front Flange (XFF)	Available
Viton Diaphragm/O-Rings (XVD)	Available
EPDM Diaphragm/O-Rings (XEM)	Available
Glycerin Fill (L)*	Standard Fill Option
Silicone Fill (XGV)	Available
Plastic Window (XPD)	Available
Explosion Proof (XEK)	Available <sup>(3)</sup>
Safety Glass (XSG) 3½"-6" only	Available

\*Liquid fill has an effect on accuracy that varies with range and temperature. Liquid filling may be required only in some very severe applications.

- (1) Applicable to Switches  
 (XV1) 1 SPST with DIN Plug (XV5) 1 SPDT with DIN Plug  
 (XV2) 1 SPST with Terminal Strip (XV6) 1 SPDT with Terminal Strip  
 (XV3) 2 SPST with DIN Plug (XV7) 2 SPDT with DIN Plug  
 (XV4) 2 SPST with Terminal Strip (XV8) 2 SPDT with Terminal Strip
- (2) Adjustable from 40-100% of range
- (3) Specify lower or back connection for gauge (not available in-line or with 2"-2½" dials) and switch type (terminal strip) XV2, XV4, XV6, XV8.

**TO ORDER THIS 1130 DIFFERENTIAL PRESSURE GAUGES:**

**Select:**

1. Dial size—2", 2½", 3½", 4", 4½", 6" \_\_\_\_\_ **25** \_\_\_\_\_ **1130** \_\_\_\_\_ **F** \_\_\_\_\_ **D** \_\_\_\_\_ **25S** \_\_\_\_\_ **XXX** \_\_\_\_\_ **30#**

2. Case type—1130 \_\_\_\_\_

3. Body material \_\_\_\_\_

4. Dry (D) or Liquid Filled (L) \_\_\_\_\_

5. Connection size—¼ NPTF (25) \_\_\_\_\_

6. Connection location—In-line (S), Lower (L), Back (B) \_\_\_\_\_

7. Optional features—see above \_\_\_\_\_

8. Standard pressure range \_\_\_\_\_

**RATINGS FOR BOTH STANDARD & EXPLOSION PROOF SWITCHES:**

**SPST SWITCH**

**Specifications:**

- Contact Rating  
10 VA ac (rms) or dc (max)
- Switching Current  
0.5 Amp ac (rms) or dc (max)
- Switch Voltage  
100 Vac/Vdc (max)

**SPDT SWITCH**

**Specifications:**

- Contact Rating  
3 VA ac (rms) or dc (max)
- Switching Current  
.3 Amp ac (rms) or dc (max)
- Switch Voltage  
30 Vac/Vdc (max)

**EXPLOSION-PROOF SWITCH INFORMATION:**

Switches and electrical connections are mounted in an explosion-proof enclosure with UL, CSA, Cenelec and FM approval. The enclosure meets Class 1, Groups B, C, D, Class 2 Groups E, F, G, Class 3, NEMA 7 & 9 and IP 66. Two ¾" electrical conduit connections.

**STANDARD RANGES – Type 1130**

psi		0-5	0-8	0-10	0-15	0-20	0-25	0-30	
kPa	0-25		0-50	0-75	0-100		0-160	0-200	0-250
kg/cm <sup>2</sup> -bar	0-0.25		0-0.5	0-0.75	0-1		0-1.6	0-2	0-2.5
psi	0-40	0-50	0-60		0-80		0-100		150
kPa	0-300		0-400	0-500		0-600	0-700	0-900	0-1000
kg/cm <sup>2</sup> -bar	0-3		0-4	0-5		0-6	0-7	0-9	0-10

- **Rolling diaphragm actuator**
- **Stainless steel case**
- **Ranges from 5 psid-100 psid**
- **Static pressures up to 3000 psi**
- **Aluminum<sup>(3)</sup>, brass or stainless steel bodies<sup>(1)</sup>**
- **Buna-N O-rings (others available)**
- **Superior magnets for smoother power motion**
- **Standard or explosion-proof reed switches available**
- **5-year warranty**
- **NEMA 4 / IP65**

The Type 1131 is utilized for applications where migration of the process media is not permissible. The Type 1131 uses a rolling diaphragm design to separate the high and low-pressure ports to isolate the media and can see up to 3000 psi static pressures. Rolling diaphragm not designed to see reverse pressure. Body materials are available in Aluminum, Brass and Stainless Steel, with Buna, Viton or EPDM seals.<sup>(2)</sup>

- (1) Not for use with incompatible media.  
 (2) Other wetted parts include stainless steel, Teflon and ceramic.  
 (3) Aluminum bodies not to be used with water or corrosive applications.



SPECIFICATIONS	Type 1131
Accuracy (Ascending)	±2%
Migration	Zero
Range Limits	0-5 psid to 100 psid
Maximum Static Pressure	3000 psi (all)
Actuator	Rolling Diaphragm
Case Material	Stainless Steel
Dial Size	2½" (25), 3½" (35), 4" (40), 4½" (45), 6" (60)
Maximum Process Temperature	175°F / 80°C
Body Materials	Aluminum (F), Brass (A), Stainless Steel (S)
Diaphragm/O-Rings	Buna-N
Connection Size (Female)	¼ NPT (25)
Connection Location	In-Line (S), Lower (L) Back (B)
Window	Glass
Warranty	Five Years

OPTIONS	
¼ NPT Female Adapter (XGE)	Available
Switches <sup>(1,2)</sup> NEMA-4	Available
Front Flange (XFF)	Available
Viton Diaphragm/O-Rings (XVD)	Available
EPDM Diaphragm/O-Rings (XEM)	Available
Glycerin Fill (L)*	Standard Fill Option
Silicone Fill (XGV)	Available
Plastic Window (XPD)	Available
Explosion Proof (XEK)	Available <sup>(3)</sup>
Safety Glass (XSG) 3½"-6" only	Available

\*Liquid fill has an effect on accuracy that varies with range and temperature. Liquid filling may be required only in some very severe applications.

- (1) Applicable to Switches  
 (XV1) 1 SPST with DIN Plug (XV5) 1 SPDT with DIN Plug  
 (XV2) 1 SPST with Terminal Strip (XV6) 1 SPDT with Terminal Strip  
 (XV3) 2 SPST with DIN Plug (XV7) 2 SPDT with DIN Plug  
 (XV4) 2 SPST with Terminal Strip (XV8) 2 SPDT with Terminal Strip

(2) Adjustable from 40-100% of range

(3) Specify lower or back connection for gauge (not available in-line or with 2"-2½" dials) and switch type (terminal strip) XV2, XV4, XV6, XV8.

#### TO ORDER THIS 1131 DIFFERENTIAL PRESSURE GAUGES:

Select: \_\_\_\_\_ 25 1131 F D 25S XXX 30#

- Dial size—2½", 3½", 4", 4½", 6" \_\_\_\_\_
- Case type—1131 \_\_\_\_\_
- Body material \_\_\_\_\_
- Dry (D) or Liquid Filled (L) \_\_\_\_\_
- Connection size—¼ NPTF (25) \_\_\_\_\_
- Connection location—In-line (S), Lower (L), Back (B) \_\_\_\_\_
- Optional features—see above \_\_\_\_\_
- Standard pressure range \_\_\_\_\_

#### RATINGS FOR BOTH STANDARD & EXPLOSION PROOF SWITCHES:

##### SPST SWITCH

##### Specifications:

Contact Rating  
10 VA ac (rms) or dc (max)  
Switching Current  
0.5 Amp ac (rms) or dc (max)  
Switch Voltage  
100 Vac/Vdc (max)

##### SPDT SWITCH

##### Specifications:

Contact Rating  
3 VA ac (rms) or dc (max)  
Switching Current  
.3 Amp ac (rms) or dc (max)  
Switch Voltage  
30 Vac/Vdc (max)

#### EXPLOSION-PROOF SWITCH INFORMATION:

Switches and electrical connections are mounted in an explosion-proof enclosure with UL, CSA, Cenelec and FM approval. The enclosure meets Class 1, Groups B, C, D, Class 2 Groups E, F, G, Class 3, NEMA 7 & 9 and IP 66. Two ¾" electrical conduit connections.

#### STANDARD RANGES – Type 1131

psi		0-5	0-7	0-10	0-15	0-25	0-30		0-40	0-60	0-100
kPa	0-25		0-50	0-75	0-100		0-200	0-250		0-400	0-700
kg/cm <sup>2</sup> -bar	0-0.25		0-0.5	0-0.75	0-1		0-2	0-2.5		0-4	0-7



- **Small convoluted diaphragm actuator**
- **Stainless steel case**
- **Ranges from 1 psid-60 psid**
- **Static pressures up to 1500 psi**
- **Aluminum<sup>(3)</sup>, brass or stainless steel bodies<sup>(1)</sup>**
- **Buna-N seals (others available)**
- **Superior magnets for smoother power motion**
- **Standard or explosion-proof reed switches available**
- **5-year warranty**
- **NEMA 4 / IP65**

The Type 1132 uses a convoluted-diaphragm design with no migration of the process media. It is recommended for lower differential and high static pressures, up to 1500 psi. Body materials are available in Aluminum, Brass and Stainless Steel, with Buna, Viton or EPDM seals.<sup>(2)</sup>

- (1) Not for use with incompatible media.  
 (2) Other wetted parts include stainless steel, Teflon and ceramic.  
 (3) Aluminum bodies not to be used with water or corrosive applications.



SPECIFICATIONS	Type 1132
Accuracy (Ascending)	±2%
Migration	Zero
Range Limits	0-1 psid to 60 psid
Maximum Static Pressure	1500 psi (all)
Actuator	Convoluted Diaphragm
Case Material	Stainless Steel
Dial Size	2½" (25), 3½" (35), 4" (40), 4½" (45), 6" (60)
Maximum Process Temperature	175°F / 80°C
Body Materials	Aluminum (F), Brass (A), Stainless Steel (S)
Diaphragm/O-Rings	Buna-N
Connection Size (Female)	¼ NPT (25)
Connection Location	In-Line (S), Lower (L) Back (B)
Window	Glass
Warranty	Five Years

OPTIONS	
¼ NPT Female Adapter (XGE)	Available
Switches <sup>(1,2)</sup> NEMA-4	Available
Front Flange (XFF)	Available
Viton Diaphragm/O-Rings (XVD)	Available
EPDM Diaphragm/O-Rings (XEM)	Available
Glycerin Fill (L)*	Standard Fill Option
Silicone Fill (XGV)	Available
Plastic Window (XPD)	Available
Explosion Proof (XEK)	Available <sup>(3)</sup>
Safety Glass (XSG) 3½"-6" only	Available

\*Liquid fill has an effect on accuracy that varies with range and temperature. Liquid filling may be required only in some very severe applications.

- (1) Applicable to Switches  
 (XV1) 1 SPST with DIN Plug (XV5) 1 SPDT with DIN Plug  
 (XV2) 1 SPST with Terminal Strip (XV6) 1 SPDT with Terminal Strip  
 (XV3) 2 SPST with DIN Plug (XV7) 2 SPDT with DIN Plug  
 (XV4) 2 SPST with Terminal Strip (XV8) 2 SPDT with Terminal Strip

- (2) Adjustable from 40-100% of range  
 (3) Specify lower or back connection for gauge (not available in-line or with 2"-2½" dials) and switch type (terminal strip) XV2, XV4, XV6, XV8.

**TO ORDER THIS 1132 DIFFERENTIAL PRESSURE GAUGES:**

Select: \_\_\_\_\_ 25      1132      F      D      25S      XXX      30#

1. Dial size—2½", 3½", 4", 4½", 6" \_\_\_\_\_

2. Case type—1132 \_\_\_\_\_

3. Body material \_\_\_\_\_

4. Dry (D) or Liquid Filled (L) \_\_\_\_\_

5. Connection size—¼ NPTF (25) \_\_\_\_\_

6. Connection location—In-line (S), Lower (L), Back (B) \_\_\_\_\_

7. Optional features—see above \_\_\_\_\_

8. Standard pressure range \_\_\_\_\_

**RATINGS FOR BOTH STANDARD & EXPLOSION PROOF SWITCHES:**

**SPST SWITCH**

**Specifications:**  
 Contact Rating  
 10 VA ac (rms) or dc (max)  
 Switching Current  
 0.5 Amp ac (rms) or dc (max)  
 Switch Voltage  
 100 Vac/Vdc (max)

**SPDT SWITCH**

**Specifications:**  
 Contact Rating  
 3 VA ac (rms) or dc (max)  
 Switching Current  
 .3 Amp ac (rms) or dc (max)  
 Switch Voltage  
 30 Vac/Vdc (max)

**EXPLOSION-PROOF SWITCH INFORMATION:**

Switches and electrical connections are mounted in an explosion-proof enclosure with UL, CSA, Cenelec and FM approval. The enclosure meets Class 1, Groups B, C, D, Class 2 Groups E, F, G, Class 3, NEMA 7 & 9 and IP 66. Two ¾" electrical conduit connections.

**STANDARD RANGES – Type 1132**

psi	0-1	0-5	0-8	0-15	0-20	0-25	0-30	0-40	0-50	0-60
in. H <sub>2</sub> O	0-25	0-100	0-200	0-400	0-500					
kPa		0-25	0-50	0-75	0-100	0-160	0-200	0-250	0-300	0-400
kg/cm <sup>2</sup> -bar	0-0.075	0-0.25	0-0.5	0-0.75	0-1	0-1.6	0-2	0-2.5	0-3	0-4
mbar	0-75	0-250								

- **Large convoluted diaphragm actuator**
- **Stainless steel case**
- **Ranges from 1 IWD-25 IWD**
- **Static pressures up to 500 psi**
- **Aluminum<sup>(3)</sup>, stainless steel bodies<sup>(1)</sup>**
- **Buna-N seals (others available)**
- **Superior magnets for smoother power motion**
- **Standard switches available**
- **5-year warranty**
- **NEMA 4 / IP65**

The Type 1133 uses a convoluted-diaphragm to sense low inches of water differentials while ensuring no migration of the process media. Maximum static pressures for ranges of 5 IWD and below is 45 psi and 500 psi for all other ranges. Body materials are available in Aluminum or Stainless Steel with Buna, Viton or EPDM seals.<sup>(2)</sup>

- (1) Not for use with incompatible media.  
 (2) Other wetted parts include stainless steel, Teflon and ceramic.  
 (3) Aluminum bodies not to be used with water or corrosive applications.



SPECIFICATIONS	Type 1133
Accuracy (Ascending)	±2%
Migration	Zero
Range Limits	0-1 IWD to 25 IWD
Maximum Static Pressure	500 psi (all)
Actuator	Convoluted Diaphragm
Case Material	Stainless Steel
Dial Size	3½" (35), 4" (40), 4½" (45), 6" (60)
Maximum Process Temperature	175°F / 80°C
Body Materials	Aluminum (F), Stainless Steel (S)
Diaphragm	Buna-N
Connection Size (Female)	¼ NPT (25)
Connection Location	In-Line (S), Lower (L), Back (B)
Window	Glass
Warranty	Five Years

**OPTIONS**

¼ NPT Female Adapter (XGE)	Available
Switches <sup>(1,2)</sup> NEMA-4	Available
Front Flange (XFF)	Available
Viton/Diaphragm (XVD)	Available
EPDM/Diaphragm (XEM)	Available
Glycerin Fill (L)	N/A
Silicone Fill (XGV)	N/A
Plastic Window (XPD)	Available
Explosion Proof (XEK)	N/A
Safety Glass (XSG) 3½"-6" only	Available

(1) Applicable to Switches

- (XV1) 1 SPST with DIN Plug      (XV5) 1 SPDT with DIN Plug  
 (XV3) 2 SPST with DIN Plug      (XV7) 2 SPDT with DIN Plug

(2) Adjustable from 40-100% of range

**RATINGS FOR STANDARD SWITCHES:**
**SPST SWITCH**
**Specifications:**

Contact Rating  
 10 VA ac (rms) or dc (max)  
 Switching Current  
 0.5 Amp ac (rms) or dc (max)  
 Switch Voltage  
 100 Vac/Vdc (max)

**SPDT SWITCH**
**Specifications:**

Contact Rating  
 3 VA ac (rms) or dc (max)  
 Switching Current  
 .3 Amp ac (rms) or dc (max)  
 Switch Voltage  
 30 Vac/Vdc (max)

**STANDARD RANGES – Type 1133**

in. H <sub>2</sub> O	0-1	0-2	0-5	0-10	0-25
mmH <sub>2</sub> O	0-25	0-50	0-125	0-250	0-600

**TO ORDER THIS 1133 DIFFERENTIAL PRESSURE GAUGES:**

Select: \_\_\_\_\_ 35      1133      FD      25S      XXX      10IWD

- Dial size—3½", 4", 4½", 6" \_\_\_\_\_
- Case type—1133 \_\_\_\_\_
- Body material \_\_\_\_\_
- Connection size—¼ NPTF (25) \_\_\_\_\_
- Connection location—In-line (S), Lower (L), Back (B) \_\_\_\_\_
- Optional features—see above \_\_\_\_\_
- Standard pressure range \_\_\_\_\_

Consult factory for guidance in product selection  
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 web site at [www.ashcroft.com](http://www.ashcroft.com)

## Differential Pressure Gauges Type 1134 ±3% Ascending Accuracy

- **Convolutd diaphragm actuator**
- **Stainless steel case**
- **Ranges from 0.6 IWD-60 IWD**
- **Static pressures up to 35 psi**
- **Glass filled nylon body<sup>(1)</sup>**
- **Buna-N seals (others available)**
- **Superior magnets for smoother power motion**
- **Low cost reed switches available**
- **5-year warranty**
- **Flush mounting accessories standard**
- **NEMA 4 / IP65**

The Type 1134 uses a convolutd-diaphragm design with no migration of the process media. It is recommended for low differential inches of water ranges. Body material is glass filled nylon with Buna or silicone.<sup>(2)</sup>

(1) Not for use with incompatible media.

(2) Other wetted parts include stainless steel, aluminum, Teflon and ceramic.



SPECIFICATIONS	Type 1134
Dial Size	4½" (114mm)
Accuracy (Ascending)	3%
Range Limits	0-0.6 IWD to 60 IWD
Maximum Static Pressure	35 psi
Case Material	Stainless Steel
Body Material	Glass Filled Nylon
Diaphragm Actuator Material	Buna-N
O-Ring Material	Buna-N
Connection Size (Female)	½ NPT
Connection Location	Dual In-Line and Back (User chooses)
Window	Glass
Max. Process Temperature	140°F/60°C
Warranty	Five Years
OPTIONS	
Switches <sup>(1)(2)</sup> (NEMA-4)	Available
(XPD) Plastic Window	Available
(XBF) Surface Mount	Available
(XTM) Pipe Mounting Bracket	Available
(XEM) EPDM Seals/O-Rings	Available <sup>(3)</sup>

<sup>(1)</sup> Applicable to switches (NEMA-4)

(XV1) 1 SPST with DIN plug

(XV3) 2 SPST with DIN plug

(XV5) 1 SPDT with DIN plug

<sup>(2)</sup> Adjustable from 40-80% of range

<sup>(3)</sup> Only with ranges up to 4IW

STANDARD RANGES		
Pressure - Single Scale (in. H <sub>2</sub> O)		
Range*	Minor Grad.	First Grad.
0/0.6	.02	0.10
0/1	.02	.12
0/2	.04	.20
0/3	.10	.30
0/4	.10	.40
0/5	.10	.50
0/6	.20	.60
0/8	.20	.80
0/10	.25	1.0
0/15	.30	1.5
0/20	.50	2.0
0/25	.50	2.5
0/30	.60	3.0
0/40	.80	4.0
0/50	1.0	5.0
0/60	1.0	5.0

\*Metric, dual or special ranges on application.

STANDARD ACCESSORIES
Two nylon ⅜" hose barb tube adapters
Flush mounting kit
Two plugs for sealing connections not in use

RATINGS FOR STANDARD SWITCHES
SPST SWITCH SPECIFICATIONS
Contact Rating: 10 VA ac (rms) or dc (max)
Switch Current: 0.5 Amp ac (rms) or dc (max)
Switch Voltage: 100 Vac/Vdc (max)
SPDT SWITCH SPECIFICATIONS
Contact Rating: 3 VA ac (rms) or dc (max)
Switch Current: .3 Amp ac (rms) or dc (max)
Switch Voltage: 30 Vac/Vdc (max)

### TO ORDER THIS 1134 DIFFERENTIAL PRESSURE GAUGES:

Select: \_\_\_\_\_ 45      1134      ED      RQM      XXX      1 IWD

1. Dial size— 4½" \_\_\_\_\_

2. Case type—1134 \_\_\_\_\_

3. Body material (Glass filled Nylon) \_\_\_\_\_

4. Connection size—½ NPTF (RQ) \_\_\_\_\_

5. Connection location—Dual In-line and Back (M) \_\_\_\_\_

6. Optional features—see above \_\_\_\_\_

7. Standard pressure range \_\_\_\_\_

Consult factory for guidance in product selection  
Phone (203) 378-8281 or visit our  
web site at [www.ashcroft.com](http://www.ashcroft.com)

- ±1.6% full scale accuracy
- Stainless steel case
- Stainless steel wetted parts
- 1450 psi static pressure standard with optional static pressure to 3625 psi
- External zero adjust
- Optional liquid-filled case
- 4" (100mm) or 6" (160mm) dial sizes
- One sided load permitted

- **Optional ATEX approval**
- **Meets NACE with Hastelloy C wetted parts**

The Ashcroft® Type 5503 differential pressure gauge is available with ranges from 16 I.W.D. to 400 psi with optional static pressure to 3625 psi. Optional wetted parts includes Hastelloy C & Monel. Typical applications include use with liquified gas for nitrogen, helium, argon and carbon dioxide.



**PRODUCT SPECIFICATIONS**

**GENERAL DIFFERENTIAL PRESSURE MEASUREMENT SPECIFICATIONS**

<b>Accuracy</b> ±1.6% full scale	and below. High strength cobalt alloy (Duratherm 600) for ranges of 5 psi and above.
<b>Dial Size</b> 4" (100mm) or 6" (160mm)	<b>Housing Material</b> 316 stainless steel with a Viton O-ring
<b>Case and Ring</b> 304 SS safety design case with bayonet ring (316 stainless steel case and ring optional)	<b>Socket Material</b> 316 stainless steel
<b>Dial</b> White painted aluminum	<b>Socket Connection</b> 1/4 NPT or 1/2 NPT lower Flange for direct mounted valves
<b>Pointer</b> Black painted aluminum with external adjust feature standard (to 25% of range)	<b>Range</b> 0-16 IWD (inches of water differential) to 400 psid
<b>Window</b> Shatterproof glass	<b>Static Pressure</b> 1450 psi standard with optional static pressure to 3625 psid
<b>Diaphragm Material</b> 316 stainless steel for ranges 5 psi	<b>Mounting</b> Stem, wall or pipe

**Options**

	<b>Code</b>
Glycerin fill .....	(L)
Silicone fill .....	(XGV)
Weatherproof/Hermetically sealed case .....	(XLJ)
Wall mounting bracket .....	(XFW)
Pipe mounting bracket .....	(XTM)
3-way manifold .....	(X43)
Hastelloy C diaphragm w/316 stainless steel housing <sup>(1,2)</sup> .....	(HS)
Monel diaphragm w/316 stainless steel housing <sup>(2)</sup> .....	(PS)
Hastelloy C diaphragm and housing <sup>(1,2)</sup> .....	(HH)
See page 247 for selection and ordering code	
Electric warning contacts	
1/2% full scale accuracy (unidirectional upscale) .....	(XAJ)
Static pressure to 3625 psi .....	(XSP)
Polycarbonate window .....	(XPD)

(1) For ranges 5 psid and above.  
(2) Goes in 3 and 4 spot below for coding.  
Viton® is a registered trademark of DuPont Co.

**STANDARD RANGES\***

psid	mbar	bar	I.W.D.
3	40	0.6	16
5	60	1.0	30
10	100	1.6	60
15	160	2.5	100
30	250	4	200
60	400	6	
100		10	
160		16	
200		25	
300			
400			

\*Other ranges on application

**TO ORDER THIS MODEL 5503 DIFFERENTIAL PRESSURE GAUGE:**

Select: \_\_\_\_\_ 10 \_\_\_\_\_ 5503 \_\_\_\_\_ S \_\_\_\_\_ S (L) \_\_\_\_\_ 02L \_\_\_\_\_ XXX \_\_\_\_\_ 0/100 psid

- Dial size – 100mm, 160mm \_\_\_\_\_
- Type \_\_\_\_\_
- 316 SS diaphragm \_\_\_\_\_
- 316 SS housing and socket (L) liquid filled \_\_\_\_\_
- Connection size and location \_\_\_\_\_
- Optional features \_\_\_\_\_
- Pressure range \_\_\_\_\_

- **±2.5% full scale accuracy**
- **Stainless steel case**
- **316 stainless steel wetted parts**
- **Inches of water differential ranges**
- **Static pressure for ranges**  
160IW & lower – 145 psi  
above 160IW – 360 psi
- **External zero adjust**
- **Available with open or solid front case styles**
- **Optional liquid-filled case**
- **4" (100mm) or 6" (160mm) dial sizes**

The Ashcroft® Type 5509 differential pressure gauge comes standard with 316SS wetted parts. This rugged gauge features an external zero adjust feature standard. Static pressure up to 360 psi.



**PRODUCT SPECIFICATIONS**

**GENERAL DIFFERENTIAL PRESSURE MEASUREMENT SPECIFICATIONS**

**Accuracy**  
±2.5% full scale

**Dial Size**  
4" (100mm) or 6" (160mm)  
Zero adjust at top of case

**Case and Ring**  
304 stainless steel open front case with a bayonet ring (solid front optional)

**Dial**  
White painted aluminum with black markings

**Pointer**  
Black painted aluminum with external adjust feature standard (to 25% of range)

**Window**  
Shatterproof glass

**Wetted Parts**  
Bellows 316 SS  
Diaphragm Material  
316 stainless steel for ranges 15 psi and below. High strength cobalt alloy (Duratherm 600) for ranges above 15 psi.

**Housing Material**  
316 stainless steel with a Viton O-ring

**Socket Connection**  
¼ NPT or ½ NPT lower

**Range**  
0-10 IWD (inches of water differential) to 400 psid

**Static Pressure**  
From 10 IWD to 3 psi – static pressure 145 psi  
5 psi and above – static pressure 360 psi

**Mounting**  
Stem, wall or pipe

**Ingress Protection**  
IP54 (digital), IP65 (liquid filled), optional IP65 (dry case)

**Options**

**Code**  
Glycerin fill ..... (L)  
Silicone fill ..... (XGV)  
Weatherproof/Hermetically sealed case (IP65) ..... (XLJ)  
Wall mounting bracket ..... (XFW)  
Pipe mounting bracket ..... (XTM)  
3-way manifold<sup>(1)</sup> ..... (X43)  
Electric warning contacts  
See page 267 for selection and ordering code  
Polycarbonate window ..... (XPD)  
Solid front ..... (S)

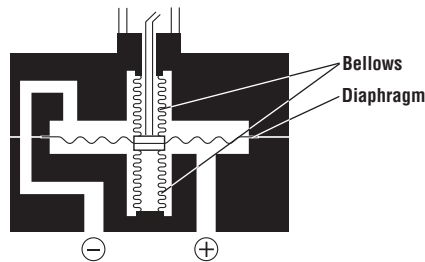
<sup>(1)</sup> Requires additional piping (not supplied). Viton® is a registered trademark of DuPont Co.

**STANDARD RANGES\***

psid	mBar	bar	I.W.D.
3	25	0.6	10
5	40	1.0	30
10	60	1.6	60
15	100	2.5	100
30	160	4	200
60	250	6	
100	400	10	
160		16	
200		25	
300			
400			

\*Other ranges on application

**MEASURING PRINCIPLE**



**TO ORDER THIS MODEL 5509 DIFFERENTIAL PRESSURE GAUGE:**

Select: \_\_\_\_\_

1. Dial size – 100mm, 160mm \_\_\_\_\_

2. Type \_\_\_\_\_

3. 316 SS diaphragm, housing and socket \_\_\_\_\_

4. For solid front option add (S), otherwise leave blank \_\_\_\_\_

5. Connection size and location \_\_\_\_\_

6. Optional features \_\_\_\_\_

7. Pressure range \_\_\_\_\_

10      5509      S      02L      XXX      0/100 psid



**Special Application Gauges**  
**Type 1150H, ASME B40.100 Grade 2A ( $\pm 0.5\%$  of span)**  
**Type 1122, ASME B40.100 Grade A ( $\pm 2-1-2\%$  of span)**

**1150H Reid Vapor Test Gauge**

- Accuracy ASME B40.100 Grade 2A ( $\pm 0.5\%$  of span)
- Dial size 4½" only
- White dial and black pointer

The Ashcroft® Type 1150H is a specialized pressure gauge used by the petroleum industry to measure vapor pressures of various petroleum products.

**1122KE/KF**

- Accuracy ASME B40.100 Grade 1A (1% FS)
- Dial size 2½" only

The Ashcroft® Type 1122 is a specialized product used for some pump, turbine and compressor applications.



**SPECIFICATIONS**

Gauge Type Number	Dial Size (Inches)	Case & Ring Material Finish	Bourdon Tube & Tip Material (all joints welded)	Socket Material	Pressure Range (psi)	Pointer	Movement	NPT Conn.
Reid Vapor Test 1150H	4½"	Case: Aluminum Ring: Threaded Aluminum black epoxy coated	Phosphor Bronze Tip: Brass  (All joints silver brazed)	Brass	15/600	Micrometer Adjustable	Stainless steel Teflon coated, pinion and sector shaft, rotary geared	¼"
1122KE(1) 1122KF	2½"	Case: Stainless steel Ring: Bayonet Lock, St.St. Both polished	316L SS	Bronze	15/1000	Non adjustable	Stainless steel	¼"

TYPE 1150H			
Range		Dial Graduations	
kg/cm <sup>2</sup> kilograms per sq. cm.	bar	Major Interval	Minor Graduation
0/1	0/1	0.1	0.01
0/1.6	1.6	0.2	0.02
0/2.5	2.5	0.5	0.05
0/4	0/4	0.5	0.05
0/6	0/6	0.5	0.1
0/10	0/10	1	0.1
0/16	0/16	2	0.2
0/25	0/25	5	0.5
0/40	0/40	5	0.5

TYPE 1122			
Range		Dial Graduations	
kg/cm <sup>2</sup> kilograms per sq. cm.	bar	Major Interval	Minor Graduation
0/1	0/1	0.1	0.01
0/1.6	0/1.6	0.2	0.02
0/2.5	0/2.5	0.5	0.05
0/4	0/4	0.5	0.05
0/6	0/6	0.5	0.1
0/10	0/10	1	0.1
0/16	0/16	2	0.2
0/25	0/25	5	0.5
0/40	0/40	5	0.5
0/60	0/60	5	1

STANDARD RANGES			
Range psi		Major Interval	Minor Graduation
<b>Type 1150H</b>			
0/15		1	0.1
0/30		2	0.2
0/45		3	0.2
0/60		4	0.25
0/100		5	0.5
0/200		10	1
0/250		10	1
0/300		10	2
0/600		20	2
<b>Type 1122</b>			
0/15		5	1
0/30		10	2
0/60		15	5
0/100		20	10
0/160		40	10
0/200		50	10
0/300		100	25
0/400		100	25
0/600		150	50
0/1000		250	50

(1) The 1122KE is stem mounted.  
 The 1122KF is surface mounted with a back flange.

**TO ORDER THESE 1150H & 1122 GAUGES:**

Select: \_\_\_\_\_ 45 \_\_\_\_\_ 1150 \_\_\_\_\_ H \_\_\_\_\_ 02L \_\_\_\_\_ XXX \_\_\_\_\_ 600#

- Dial size—2½", 4½" \_\_\_\_\_
- Type \_\_\_\_\_
- Tube and socket material—see chart above \_\_\_\_\_
- Connection size—¼ (02) \_\_\_\_\_
- Connection location—Lower (L) only \_\_\_\_\_
- Optional features \_\_\_\_\_
- Standard pressure range 600 psi \_\_\_\_\_  
 Accessories—see pages 267-268

Consult factory for guidance in product selection  
 Phone (203) 378-8281 or visit our  
 web site at [www.ashcroft.com](http://www.ashcroft.com)



- 2½" and 3½" dial size
- Glass-filled polysulfone case material, won't rust or dent
- Beryllium copper diaphragm
- Brass socket
- Wetted materials of beryllium copper, brass, polysulfone and RTV silicone
- IP 54

The Ashcroft® Type 1490 low pressure diaphragm gauge is designed to measure pressure from 10 in.H<sub>2</sub>O to 15 psi, both positive and negative pressures. This gauge uses a very sensitive

diaphragm capsule to measure low pressure and vacuum. The gauge is specifically designed for use whenever the pressure medium is a gas that is not corrosive to beryllium copper, brass, polysulfone and RTV silicone. The polysulfone case is suitable for intermittent or continuous service on natural gas provided a .013" throttle plug is installed in the socket. Typical applications are, but not limited to, vacuum pumps, gas leak detectors, air compressors, air filters, gas burners, gas measurement, vacuum ovens, suction regulators and respirators.



**SELECTION TABLE**

DIAL SIZE		TYPE		WETTED MATERIAL		CONN. SIZE & TYPE		CONNECTION LOCATION		RANGES		OPTIONAL FEATURES	
Code	Desc.	Code	Description	Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
25	2½"	1490	Low Pressure Diaphragm Gauge	A	Beryllium Copper Brass Polysulfone RTV silicone	01	1/8" NPT	L	Lower	10 IW	0 to 10 in.H <sub>2</sub> O	XAN XDA XNH XNN XTU <sup>(1,3)</sup> XTS <sup>(4)</sup> XUC <sup>(2)</sup> XZY	1% Opt. Accuracy Dial Marking Stain. Steel Tag Paper Tag Throttle Plug Throttle Screw U-clamp FlutterGuard™
35	3½"					02	1/4" NPT	B	Center Back				
						HD	1/8" I.D. Tubing Hose Barb <sup>(2,3)</sup>	T	Top				
						HE	3/16" I.D. Tubing Hose Barb <sup>(2,3)</sup>	D	3 O'Clock				
						HF	1/4" I.D. Tubing Hose Barb <sup>(2,3)</sup>	E	9 O'Clock				
						HG	1/4" O.D. Polytube Hose Barb <sup>(2,3)</sup>						
						HH	10-32-2B Female Thread <sup>(2,3,4)</sup>						

(1) A throttle plug must be installed in the socket whenever the gauge is used for intermittent or continuous service on natural gas.  
 (2) U-clamp furnished when hose barb or female thread is specified. **EXAMPLES: 25 1490A 02L 10 IW XNH**  
 (3) Throttle plug not available with hose barb or female thread connections.  
 (4) .020 throttle screw available with HH connection only.

**STANDARD RANGES**

Pressure	Figure Intervals	Minor Graduation
0/10 in.H <sub>2</sub> O	1	0.1
0/15 in.H <sub>2</sub> O	5	0.2
0/30 in.H <sub>2</sub> O	5	0.5
0/60 in.H <sub>2</sub> O	10	1
0/100 in.H <sub>2</sub> O	10	1
0/160 in.H <sub>2</sub> O	20	2
0/200 in.H <sub>2</sub> O	20	2
0/300 in.H <sub>2</sub> O	50	5
0/10 oz./in. <sup>2</sup>	1	0.1
0/15 oz./in. <sup>2</sup>	5	0.2
0/30 oz./in. <sup>2</sup>	5	0.5
0/60 oz./in. <sup>2</sup>	10	1
0/100 oz./in. <sup>2</sup>	10	1
0/160 oz./in. <sup>2</sup>	20	2
0/250 oz./in. <sup>2</sup>	50	5
0/3 psi	0.5	0.05
0/5 psi	1	0.1
0/10 psi	1	0.1
0/15 psi	5	0.2

**STANDARD RANGES (Cont.)**

Vacuum	Figure Intervals	Minor Graduation			
15/0 in.H <sub>2</sub> O	5	0.2			
30/0 in.H <sub>2</sub> O	5	0.5			
60/0 in.H <sub>2</sub> O	10	1			
100/0 in.H <sub>2</sub> O	10	1			
200/0 in.H <sub>2</sub> O	20	2			
15/0 oz./in. <sup>2</sup>	5	0.2			
30/0 oz./in. <sup>2</sup>	5	0.5			
60/0 oz./in. <sup>2</sup>	10	1			
100/0 oz./in. <sup>2</sup>	10	1			
<b>Compound</b>					
-30/30 in.H <sub>2</sub> O	10	1			
-30/30 in.oz./in. <sup>2</sup>	10	1			
-10/10 in.H <sub>2</sub> O	2	0.2			
<b>Dual Scale</b>					
Range	Graduations				
	Inner Scale		Outer Scale		
Inner Scale	Outer Scale	Figure Intervals	Minor Grad.	Figure Intervals	Minor Grad.
0/9 oz./in. <sup>2</sup>	0/15 in.H <sub>2</sub> O	1	0.2	5	0.2
0/20 oz./in. <sup>2</sup>	0/35 in.H <sub>2</sub> O	5	0.5	5	0.5
0/35 oz./in. <sup>2</sup>	0/60 in.H <sub>2</sub> O	5	0.5	10	1
0/60 oz./in. <sup>2</sup>	0/100 in.H <sub>2</sub> O	10	1	10	1

Other ranges available on request. Consult factory.

**STANDARD METRIC RANGES**

Pressure	Figure Intervals	Minor Graduation
0/60 cm. H <sub>2</sub> O	10	1
0/2.5 kPa	0.5	0.05
0/4 kPa	1	0.1
0/10 kPa	1	0.1
0/16 kPa	2	0.2
0/25 kPa	5	0.5
0/40 kPa	10	1
0/100 kPa	10	1
<b>Vacuum</b>		
2.5/0 kPa	0.5	0.05
4/0 kPa	1	0.1
10/0 kPa	1	0.1
16/0 kPa	2	0.2
25/0 kPa	5	0.5
40/0 kPa	10	1
100/0 kPa	10	1
<b>Compound</b>		
-10/60 cm H <sub>2</sub> O	10	1
-10/80 cm H <sub>2</sub> O	10	1
-20/40 cm H <sub>2</sub> O	10	1
-10/100 cm H <sub>2</sub> O	10	1
-10/120 cm H <sub>2</sub> O	20	2

**TO ORDER THESE LOW PRESSURE DIAPHRAGM GAUGES:**

Select: 25 1490 A 02L XXX 10 IW

- Dial size – 2½ (25), 3½ (35) \_\_\_\_\_
- Case type \_\_\_\_\_
- Wetted material \_\_\_\_\_
- Connection size – 1/4 (02), 1/8 (01) \_\_\_\_\_
- Connection location – Lower (L), Back (B) \_\_\_\_\_
- Optional features – see page 267-268 \_\_\_\_\_
- Standard pressure range – 10 in.H<sub>2</sub>O \_\_\_\_\_



- Sensitive diaphragm element results in smooth pointer motion
- One-piece polycarbonate window is easy to remove
- Re-zero screw allows easy pointer adjustment
- Slotted U-clamp for panel mounting makes installation easy

The Ashcroft® Type 1495 receiver gauge uses a diaphragm capsule as its sensing element rather than a Bourdon tube. The sensitivity of the diaphragm promotes smooth pointer motion that makes minor pressure changes easy to read.

The Type 1495 receiver gauge is the ideal product where the standard ASME B40.100 Grade A ( $\pm 2-1-2\%$  of span) accuracy or the optional ASME B40.100 Grade 1A ( $\pm 1\%$  of span) accuracy and smaller dial sizes are specified. The long pointer, smooth-operating sensing element, easily removable window and re-zero adjustment screw make specification and installation of this receiver gauge quick and easy. The polysulfone case is suitable for intermittent or continuous service on natural gas provided a .013" throttle plug is installed in the socket.



**SPECIFICATIONS**

Dial Size		Gauge Type		Wetted Material		Connection Size & Type		Connection Location	
Code	Desc.	Code	Description	Code	Description	Code	Description	Code	Description
25	2 1/2"	1495	Diaphragm Receiver Gauge	A	Beryllium Copper	01	1/8" NPT	L	Lower
35	3 1/2"				Brass	02	1/4" NPT	B	Center Back
					Polysulfone	HD	3/16" I.D. Tubing Hose Barb <sup>(2,3)</sup>	T	Top
					RTV Silicone	HE	3/16" I.D. Tubing Hose Barb <sup>(2,3)</sup>	D	3 O'Clock
						HF	1/4" I.D. Tubing Hose Barb <sup>(2,3)</sup>	E	9 O'Clock
						HG	1/4" O.D. Polytube Hose Barb <sup>(2,3)</sup>		
						HH	10-32-2B Female Thread <sup>(2,3,4)</sup>		

**RANGES**

Pressure	Figure Intervals	Minor Graduations
0-100%	10	1
0-10 sq rt	1	0.1
0-10 sq rt/0-100 Linear <sup>(5)</sup>		

(5) This dial is standard and will be supplied unless otherwise ordered. Figure/minor intervals same as single case.

- (1) A throttle plug must be installed in the socket whenever the gauge is used for intermittent or continuous service on natural gas.
- (2) U-clamp furnished when hose barb or female thread is specified.
- (3) Throttle plug not available with hose barb or female thread connections.
- (4) .020 throttle screw available on HH connection only.

**SPECIFICATIONS**

**Dial Size:** 2 1/2" and 3 1/2"  
**Case Material:** Glass-filled polysulfone  
**Sensing Element:** Beryllium copper diaphragm  
**Wetted Materials:** Beryllium copper, brass, polysulfone and RTV silicone

**OPTIONS**

Code	Description
XAN	1% optional accuracy
XDA	Dial marking
XNH	Stainless steel tag
XNN	Paper tag
XTU <sup>(1,3)</sup>	Throttle plug
XTS <sup>(4)</sup>	Throttle screw
XUC <sup>(2)</sup>	U-clamp
XZY	FlutterGuard™

**TO ORDER THIS TYPE 1495 RECEIVER GAUGE:**

**Select:** \_\_\_\_\_ **35**    **1495A**    **02**    **B**    **XUC**    **3-15 psi**    **Range**

1. Dial size – 3 1/2" \_\_\_\_\_

2. Case type – 1495 and wetted material \_\_\_\_\_

3. Connection size – 1/4" (02), 1/8" (01) \_\_\_\_\_

4. Connection location – Lower (L), Back (B) \_\_\_\_\_

5. Variation for U-clamp \_\_\_\_\_

6. Basic model code for 3-15# signal \_\_\_\_\_

7. Actual dial range required; i.e. 0-100%, 0-10 sq rt, etc. \_\_\_\_\_

## General Purpose Digital Gauge Type DG25, $\pm 1/2\%$ of Span Terminal Point Accuracy

- 0.5% terminal point accuracy (0.25% optional)
- Five-digit LCD display with large .48" character size
- Bar graph display (20 segment)
- Nine engineering units of measure plus one user programmable unit
- Capable of measuring gauge, vacuum and compound ranges from -14.7 psi through 25,000 psi
- IP67 weatherproof enclosure
- CE compliant, RoHs compliant, UL and cUL 61010-1
- The versatile and economical choice for a wide variety of applications

### PRODUCT SPECIFICATIONS

<b>Accuracy:</b>	0.5% F.S. standard, 0.25% optional includes effects of linearity, hysteresis and repeatability
<b>LCD Display:</b>	Five-digit numeric top line, five-character alphanumeric lower line, 20 segment vertical bar graph, four-segment battery life indicator, dedicated icons for gauge timer, back light timer, tare, min and max
<b>Character Height:</b>	Upper line 0.48" (12.19mm.) Lower line 0.24" (6.10mm)
<b>View Angle:</b>	12 o'clock
<b>Backlight:</b>	Optional
<b>Engineering Units:</b>	psi, bar, inHg, cmHg, mmHg, kPa, mPa, kg/cm <sup>2</sup> , ftH <sub>2</sub> O, and customer defined unit
<b>Ranges:</b>	45 standard psi and bar ranges from -14.7 to 25000 psi, gauge, vacuum and compound ranges available.
<b>Enclosure Matl.:</b>	Case & Back: Polycarbonate/ABS Window: Polycarbonate
<b>Enclosure Rating:</b>	IP67
<b>Protective Boot:</b>	Optional (Black or Orange)
<b>Serial No.:</b>	Yes
<b>Nominal Size:</b>	2.73" (70mm) dia.; 1.61" (40.9mm) deep; 2.64" (67mm) centerline to end of 1/4 NPT thread height

The Ashcroft® DG25 series offers 0.5% of span accuracy. Laser-welded stainless steel sensor and socket make this product suitable for use with a wide variety of pressure media in demanding industrial applications. This series is also available with enhanced accuracy of 0.25% of span making it suitable for many test and measurement uses.

IP67 ingress protection rating means the DG25 is suitable for demanding applications such as equipment wash down.

The DG25 comes standard with many features such as: tare, min and max memory, programmable custom



\*Shown with Optional Protective Boot & Back Light

engineering units, and pressure ranges from vacuum to 25,000 psi.

<b>Wetted Matl.:</b>	17-4 ph sensor & 316L socket, laser welded
<b>Connection:</b>	1/4 NPT lower standard, Options 1/8 NPT, G 1/4 B, others consult factory; 6 o'clock (lower) position standard
<b>Battery:</b>	Two AA alkaline batteries
<b>Battery Life:</b>	2000 hours minimum
<b>Battery Indicator:</b>	4 levels
<b>Cycle Life:</b>	10 million cycles
<b>Vibration:</b>	MIL-STD-202G, Method 201A
<b>Shock:</b>	MIL-STD-202G, Method 213B, Test Condition K
<b>Operating Temp:</b>	-4°F to 140°F, (-20°C to 60°C) ambient temp.; -4°F to 176°F, (-20°C to 80°C) process media temp
<b>Storage Temp:</b>	Batteries Installed: -4°F to 140°F, (-20°C to 60°C) Batteries Removed: -4°F to 176°F, (-20°C to 80°C)
<b>Temp. Coef.:</b>	0.04%/°F (-20°F to 180°F) zero and span. Reference Temp. 70°F
<b>Leak Integrity:</b>	10-7 std. cc/sec.
<b>Update Rate:</b>	1Hz, 2Hz, 4Hz,
<b>Keypad Functions:</b>	Three key; available with multi press functionality

<b>Hard Keys:</b>	on/off; Power Symbol and Enter zero; Zero, Tare, and Up Arrow menu Access, Backlight, Down Arrow
<b>Agency Approvals:</b>	CE (heavy industrial), ASME B40.7, RoHs, UL 61010/ cUL
<b>Proof Pressure: % of Span</b>	Vac - 2000: 200% 3000 - 5000: 150% 7500 - 25,000: 120%
<b>Burst Pressure: % of Span</b>	Vac - 2000: 800% 3000 - 5000: 500% 7500 - 25,000: 300%
<b>Options:</b>	<b>XB3</b> Pouch with Logo <b>X6B</b> Cleaned with Oxygen Service <b>XC4</b> Individual Calibration Chart <b>XNH</b> Wired SS Tag

### TO ORDER THIS TYPE DG25 GAUGE:

<b>Select:</b>	25	DG25	5	1	L	1	N/AM02	L	3000#	-	XB3
1. Dial Size: 2 1/2"											
2. Case Type Number: DG25											
3. Accuracy: (3) 0.25%, (5) 0.50%											
4. Type: (1) Battery											
5. Backlight: (L), (N) Not Applicable											
4. Protective Boot: (0) None, (1) Black, (2) Orange											
5. Electrical Connection: (N/A)											
6. Connection Size: (M01), (M02), (MG2), (MGA), (F09),											
7. Connection Location: (L)											
8. Range: 15 psi-25,000 psi											
9. Options: (XB3), (X6B), (XC4), (XNH)											

Consult factory for guidance in product selection  
Phone (203) 378-8281 or visit our  
web site at [www.ashcroft.com](http://www.ashcroft.com)