# **SASHCROFT**®

ISO 9001

### Ashcroft® Stainless Steel Case Pressure Gauges

For demanding applications where corrosion resistance and reliable operation are critical, look to Ashcroft® stainless steel case pressure gauges to fulfill your requirements. These designs perform well in many applications where vibration, pulsation and mechanical shock are present. Offered in stainless steel, including a stainless steel case, bourdon tube, socket and movement, these gauges meet the needs of many corrosive environments.

Stainless steel gauges ensure long service life in the harshest, most demanding environments. Applications where Ashcroft stainless steel case gauges are typically used for their lasting performance include process and chemical plants, petrochemical refineries, pharmaceutical, food and beverage processing, and pulp and paper mills. Ashcroft stainless steel case gauges will perform well:

- In applications where vibration, pulsation and mechanical shock are major factors.
- In corrosive environments when a stainless steel case and ring are required.

We offer our stainless steel case pressure gauges in a selection of accuracies, materials and sizes to meet the wide-ranging requirements of the industrial marketplace. When selecting an Ashcroft stainless steel case gauge, consider the following:

Process media — Ashcroft stainless steel case gauges are available in a broad range of bourdon tube and socket materials to suit your product needs. Pressure gauge range — A wide

selection of ranges from vacuum through 15,000 psi (up to 30,000 psi on 4½" and 6" 1009) including compound and metric ranges are available.

Operating environment — All Ashcroft stainless steel case gauges have a 304 series stainless steel case and ring and are available hermetically sealed or weatherproof. They are also available liquid filled with a built-in throttle plug to help protect the gauge against pressure surges or spikes.

**Accuracy requirements** — Ashcroft Type 1009 gauges come standard with 1% full scale ASME Grade 1A accuracy. Ashcroft Type 1008 gauges come

standard with a 3/2/3% ASME Grade B accuracy.

Dial size — Available in 2½" through 6" and 40mm through 100mm dial sizes, Ashcroft selection of stainless steel gauge case sizes is unsurpassed. Connections — 1/8 NPT, 1/4 NPT, 1/2 NPT, JIS, BSP, and automotive connections available.

Mounting requirements — Ashcroft stainless steel case gauges are available for stem, surface or flush mounting.

Dresser Instrument offers two series of Ashcroft gauges — Type 1008 and 1009 to meet your stainless steel case requirements.



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### **Features & Benefits**

### Ashcroft® Stainless Steel Case 1008 Pressure Gauges

### **Type 1008 Stainless Steel Case** Gauge — 63mm and 100mm **Case Sizes**

These stainless steel case gauges offer reliable performance under the most demanding applications where vibration and pulsation dominate the operating conditions. They are offered in a selection of metric case sizes in stem, surface or panel mounting to meet a variety of requirements.

63mm and 100mm Type 1008 pressure gauge ranges, with the patented PowerFlex<sup>™</sup> movement, are designed for maximum life under pulsating service conditions.

The 63mm and 100mm sizes of our Type 1008 gauges share some unique features that offer benefits not available elsewhere.

- Because the socket of the 1008S is welded to the case, the gauge is stronger and more durable, with less risk of liquid-filled gauges leaking. And because there are no screws needed to hold the system in place, we eliminate leak paths when the gauge is liquid filled.
- The patented PowerFlex<sup>™</sup> movement offers superior shock, vibration and pulsation performance.
- True Zero<sup>™</sup> indication with no stop pin - a unique safety benefit.

- · Because weld nuts are standard on all back-connect gauges, you will enjoy the flexibility to panel mount any backconnect gauge.
- The date of manufacture is coded on the socket of each gauge for quality assurance.\*
- · We ship all gauges in a unique carton-within-carton package, so your gauges arrive in good condition.
- These Ashcroft gauges are made in the USA — for the best availability and quality! Need it now? Ashcroft Gold Service offers 2-5 day shipment.

### 40mm and 50mm Case Sizes

The 40mm and 50mm sizes of our Type 1008 gauges share some of their own unique features. These gauges bring all stainless steel construction (case, ring, bourdon tube and socket) to the requirement for smaller dial diameters.

Features of the 40mm and 50mm 1008 gauges include:

- · Stainless steel case and ring for maximum resistance to corrosion.
- 316 stainless steel bourdon tube and socket for maximum resistance to corrosion.
- Available with front flange or U-clamp for panel mounting.
- Available with PLUS!<sup>™</sup> or liquid fill in lower or back connections for better performance and longer gauge life in pulsating and vibrating applications.
- Ranges from vacuum through 15,000 psi, including compound.

### **Type 1009 Stainless Steel Case** Gauge —2½" and 3½" Case Sizes

The Type 1009 Duralife® gauge in 21/2" and 31/2" case sizes represents another technological breakthrough in gauge manufacture. Duralife® 1009 gauges provide significant features and benefits for many applications and are offered in stem, surface or panel mount configurations.

The combination of features in the 1009 Ashcroft Duralife® gauge reflects the finest in gauge technology for



Type 1008 shown

### **Features & Benefits**

### Ashcroft® Stainless Steel-Case 1009 Pressure Gauges

vibration, shock and pulsation applications. Pressure ranges from vacuum through 15,000 psi, including compound, are available. Metric ranges are also offered. All 21/2" and 31/2" Duralife® gauges are manufactured to ASME Grade 1A accuracy of 1% over the entire dial arc. They offer zero and span adjustments and can be recalibrated in the field.

The 21/2" and 31/2" Type 1009 Duralife® gauges share some unique features that offer benefits not available elsewhere.

 Because the socket is welded to the case, the gauge is stronger and more durable, with less risk of liquid-filled leaking since there are no screws needed to hold the system in place. Potential leak paths are eliminated.

- The patented *PowerFlex*<sup>™</sup> movement offers superior shock, vibration and pulsation performance, resulting in outstanding durability.
- The True Zero<sup>™</sup> indication with no stop pin is a unique safety benefit.
- With weld nuts standard on all backconnect gauges, you have the flexibility to panel mount any backconnect gauge.
- An optional external adjust or Easy Zero<sup>™</sup> feature on the 3½″ 1009 is offered on both dry and liquid filled versions. Adjustment tolerances are ±5% of full scale range.
- Each gauge is date coded on the socket for quality assurance.
- We ship all gauges in a unique carton-within-carton package, so your gauges arrive in good condition - far fewer gauges are received out of calibration with our "leading-edge" pack-

- Type 1009S Duralife® gauges are allstainless steel construction for maximum resistance to corrosion.
- · Because these gauges are fully recalibratable, there is no need to purchase a new gauge if recalibration is needed — this benefit includes zero and span adjustments. (Consult ASME B40.1 for gauge life and recalibration.)
- Five-Year Warranty gives you the best total value.
- Ashcroft Duralife® gauges are made in the USA — for the best availability and quality!

### 41/2" & 6" Case Sizes

The 41/2" and 6" sizes of our Type 1009 gauges share some of their own unique features. Built for long life and sustained accuracy under the most adverse operating conditions, these tures that offer benefits you won't find

- recalibration.
- · Variety of bourdon tube materials to meet many different application
- Available liquid filled in lower or back connections for better performance and longer gauge life in pulsating and



Ashcroft® Stainless Steel Case Pressure Gauges

### **PLUS!**™ Performance

An exclusive, new, optional feature provides virtually liquid-filled performance in a dry gauge.

The Ashcroft *PLUS!*™ feature is a patent-pending design incorporated into the industry-standard Ashcroft pressure gauge.

Historically, pulsation and vibration have reduced gauge life and made gauges difficult to read.

Customers have had no alternative to liquid-filled gauges to solve vibration and pulsation problems, until now! Advantages Versus

### Liquid-Filled Gauges

- Saves money
- Lower purchase price versus liquid-filled gauges
- Eliminates costly specialty fills
- Allows easy standardization to reduce misapplications
- Reduces possibility of leaks
- Lighter weight…easier to handle
- Eliminates liquid-fill lines... easier to read
- Easy recalibration
- Wider ambient temperature range than glycerin
- Eliminates disposal and environmental issues

## Advantages Versus Dry Gauges

- Steady pointer...same as liquid-filled gauges
- 100% longer life gauges... reduces gauge usage 50%!



### **Hydraulic Gauges**

These gauges are especially suitable for applications on hydraulic presses, pumps and systems using highpressure hydraulic fluids. 41/2" and 6" Type 1009 gauges for this application are offered with a throttle plug and slotted link to protect the movement and system of the gauge from severe pressure spikes and surges. A liquid-filled gauge is also available to help protect internal moving parts of the gauge.

The 63mm and 100mm Type 1008 gauges and 2½" and 3½" Type 1009 gauges employing the unique Power Flex™ movement and a throttle plug are ideally suited for hydraulic applications where severe service is a consideration. Available in dry *PLUS!*™ or liquid-filled versions, these gauges will meet your severe application needs.

### **Refrigeration Gauges**

Available with 63mm and 100mm Type 1008 gauges and 2½"through 6"Type 1009 gauges, these Ashcroft gauges have corresponding temperature scales for refrigerants 11, 12, 22, 114, 123, 134A, 500, 502 and ammonia. To meet the stringent requirements of an ammonia refrigeration system, a gauge with a stainless steel tube and socket is recommended. Both 41/2" and 6" Type 1009 gauges can be furnished with a stainless steel tube and a steel or stainless steel socket.

Ashcroft stainless steel case refrigeration gauges come equipped with all the features made available on the standard product.

### **Receiver Gauges**

Used in conjunction with pneumatic transmitters, Ashcroft® receiver gauges indicate pressure, temperature, flow or any information that can be transmitted by proportional variations in air pressure.

For information concerning other receiver gauges offered, consult Customer Service, Stratford, CT.

### **Liquid-Filled Gauges**

Constant lubrication of the movement minimizes wear on all moving gauge parts. The liquid fill, usually glycerin or silicone, acts as a dampening agent for the bourdon tube and movement, thus reducing gauge pointer flutter. Under adverse environmental conditions, corrosive elements may attack internal parts and shorten gauge service life. Liquid filling a gauge helps prevent corrosive effects caused by adverse environments. All liquid-filled gauges 30 psi and above are fitted with throttle plugs to provide additional dampening.

Ashcroft stainless steel case gauges with dial sizes from 40mm through 100mm and 2½" through 6" are available liquid filled or field liquid fillable. Simply specify XLJ to order a stainless steel-case gauge that can be filled in the field. Gauge accuracy on liquid filled Type 1009 gauges with 2½", 3½" or 100mm dial size is up to 1.5% full scale.







### **Panel Gauges**

Ashcroft stainless steel case panel mounted gauges with back connections are available with a three hole front flange or a U-clamp. Generally, a front flange is used when there is limited access to the back of the panel. A U-clamp is the most common method of panel mounting when there is access to the back of the panel. Ashcroft back connect stainless steel gauges are available for panel mounting with dial sizes from 40mm through 100mm and 21/2" thru 6". The back connect 21/2" and 31/2" Duralife 1009 gauges and the 63mm and 100mm 1008 gauges come standard with weld nuts on the back of the case. This feature allows for easy conversion to panel mounting with either a U-clamp or front flange. The 21/2" and 31/2" 1009 lower connect gauges are also available for wall mounting with an available back flange.





# Warranty & Movement

Duralife® 2½," 3½," 100mm Type 1009 gauges

The patented pressure system consists of a *PowerFlex*<sup>™</sup> movement and unitized bourdon tube assembly that provides increased gauge life and stability. This truly unique design has a stainless steel movement suspended between the bourdon tube and socket with a link wire. This spring suspension significantly reduces the level of forces transmitted to the precision moving parts, greatly extending the wear life in applications where vibration and pulsation are constant factors. Since the system is welded to the case, there are no screws to loosen under conditions of pulsation and vibration.



All 2½", 3½" and 100mm Type 1009 Duralife gauges come standard with a limited five year warranty. For a copy of our warranty call or write:

Dresser Instrument Dresser, Inc. 250 East Main Street Stratford, CT 06614-5145 203-378-8281

Ask for Customer Service

# **Specification Matrix**Ashcroft® Stainless Steel Case Pressure Gauges

(PD)

(SG)

Polycarbonate Window

Shatterproof Glass







Standard

N/A

Star Ν



	I	MARCHET			ĺ
Specifications		Type 1008, 40mm	Type 1008, 50mm	Type 1008A, 63-100mm	Type 1008S
Accuracy		3-2-3% ASME Grade B 3-2-3% ASME Grade B		3-2-3% ASME Grade B	3-2-3% AS
Case Style		Open Fi	ront	Open Front	Open
Case Material		304 Stainle	ss Steel	304 Stainless Steel	304 Stair
Dial Size	(Code)	40mm (40)	50mm (50)	63mm (63), 100mm (10)	63mm (63),
Dial Material & Color			Aluminum, white backg	ground w/black markings	
Ring Type		304 Stainless S	teel Push-In	304 Stainless Steel Crimped	304 Stainless
Bourdon Tube	(Code)	316 Stainless	s Steel (S)	Bronze (A)	316 Stainle
Socket Material		316 Stainle		Brass (socket O ring standard)	316 SS, Socke
Range Limits		Vac/15,000 psi-(40mm)	Vac/15,000 psi-(50mm)	Vac/6000 psi	Vac/15
Connection Size	(Code)	½ NPT (01)	% NPT (01) ¼ NPT (02)	¼ NPT (02)	¼ NPT (02),
Connection Location		Lower (L), Back (B)		Lower (L), Back (B)	Lower (L)
Mounting		Stem, F		Stem, Flush Brass ( <i>PowerFlex</i> ™)	Stem 300 Series SS
Movement		300 Series SS (c		with polyester segment	with polyes
Pointer		Nonadjustable (Aluminum)		Nonadjustable (Aluminum)	Nonadjustabl
Window		Glas		Polycarbonate	Polyca
Warranty		One Ye	ear	One Year	One
Options	Code				
<i>PLUS!</i> ™ Performance	(LL)	N/A		N/A	Avai
Glycerin Fill	(L)	Standa		Standard	Star
Silicone Fill	(GV)	N/A		Available	Avai
Halocarbon Fill	(GX)	N/A		N/A	Avai
Weatherproof, hermetic :		Availal		Available	Avai
U-Clamp	(UC)	Available		Available	Avai
Front Flange Ring	(FF)	Available		Available	Avai
Retrofit Flange	(RF)	N/A		Available	Avai
Back Flange	(FW)	N/A		N/A	N
Wall Mounting Bracket	(BF)	N/A		N/A	N
Acrylic Window	(PD)	N/A		N/A	N

Standard on liquid filled gauge

Available









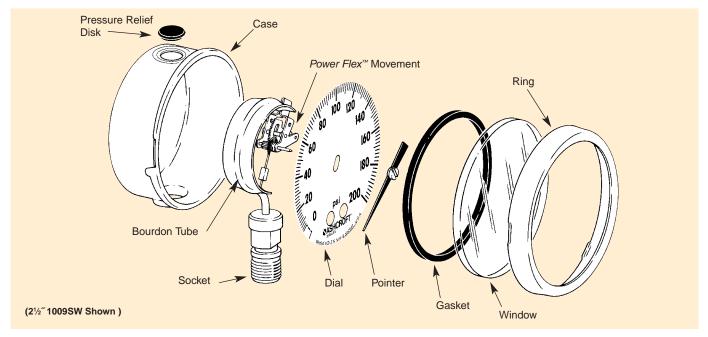




63-100mm	Type 1009, 2½"-3½"	Type 1009, 100mm (XMG)	Type 1009, 4½"	Type 1009, 6"	
ME Grade B	1% ASME Grade A	1% ASME Grade A	1% ASME Grade A	1% ASME Grade A	
Front	Open Front	Open Front	Open Front	Open Front	
less Steel	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel	
100mm (10)	2½"(25), 3½"(35)	100mm (10)	4½"(45)	6"(60)	
	Brushed Aluminum, w/black markings	Aluminum, white background w/black markings	Brushed Aluminum	n, w/black markings	
Steel Crimped	304 Stainless Steel Bayonet	304 Stainless Steel Bayonet	304 Stainless Steel Bayonet	304 Stainless Steel Bayonet	
ss Steel (S)	316 Stainless Steel	316 Stainless Steel (SW)	Bronze Tube, Brass Socket (A)	4130 Alloy Steel Tube & Socket (B	
			316 SS Tube, Steel Socket (R)	316 SS Tube & Socket (S)	
			Monel Tube	& Socket (P)	
t Weld to Case	Bronze, Socket Weld to Case (AW) 316 SS, Socket Weld to Case (SW)	316 SS, Socket Welded to Case			
000 psi	Vac/15,000 psi	Vac/15,000 psi	Vac/30,000 psi	Vac/30,000 psi	
½ NPT (04)*	¼ NPT (02), ½ NPT (04)*	½ NPT (04)	¼ NPT (02), ½ NPT (04)	¼ NPT (02), ½ NPT (04)	
, Back (B)	Lower (L), Back (B)	Lower (L)	Lower (L), Back (B)	Lower (L), Back (B)	
Flush	Stem, Surface, Flush	Stem, Surface	Stem, Surface, Flush	Stem, Surface, Flush	
( <i>PowerFlex</i> ™) er segment	300 Series SS ( <i>PowerFlex</i> ™)	300 Series SS ( <i>PowerFlex</i> <sup>™</sup> )	400 Series SS (Conventional)	400 Series SS (Conventional)	
e (Aluminum)	Adjustable (Aluminum)	Micrometer Adjustable (Aluminum)	Micrometer Adjustable (Aluminum)	Micrometer Adjustable (Aluminun	
bonate	Polycarbonate	Shatterproof Glass	Glass	Glass	
Year	Five Years	Five Years	One Year	One Year	
able	Available	Available	Available	Available	
dard	Standard	Standard	Standard	Standard	
able	Available	Available	Available	Available	
able	Available	Available	Available	Available	
able	Available	Available	Available	Available	
able	Available	Available	Available	Available	
able	Available	Available	Available	Available	
able	Available (3 <sup>1</sup> / <sub>2</sub> ")	N/A	Available	N/A	
Ά	Available	Available	N/A	N/A	
'A	N/A	N/A	Available	Available	
'A	N/A	N/A	Available	Available	
dard	Standard	Available	N/A	N/A	
'A	Available	Standard	Available	Available	

### **Product Selection Information**

### Ashcroft® Stainless Steel Case Pressure Gauges



# Consult ASME B40.1 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 Dresser Instrument Division or www.ashcroft.com. Pressure Ranges:

As recommended by ASME B40.1, 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 fatique 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 will be necessary to obtain normal product life.

Other than discoloration of the dial and hardening of the gasketing that may occur as ambient temperatures exceed 150°F, stainless steel gauges (that are not liquid filled) can withstand continuous ambient temperatures as high as 250°F. Liquid-filled gauges can withstand ambient temperatures up to 200°F. Accuracy will be affected by approximately 1.5% per 100°F.

Gauges with welded joints will withstand 750°F (450°F with silver brazed joints) for short times without rupture, although other parts of the gauge will be destroyed and calibration will be lost.

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, including: phosphor bronze, alloy steel, 316 stainless steel and K Monel.

### Cases:

Ashcroft stainless steel case gauges have 304 stainless steel cases. The 2½″, 3½″, 100mm 1009 and the 63mm and 100mm 1008 are field convertible. These gauges can be converted to hermetically sealed, weatherproof or liquid filled by changing the fill plug and adding a throttle plug. The 40mm and 50mm 1008 gauges can be furnished from the factory hermetically sealed,

weatherproof or liquid fillable. Specify the XLJ variation. With the exception of 40mm and 50mm 1008 gauges, all **dry** stainless steel gauges come standard with a vented pressure relief disc. These gauges with the vented plug **are not** weatherproof or hermetically sealed. If a weatherproof or hermetically sealed gauge is required, specify the XLJ variation and your gauge will be shipped with a solid nonventing plug.

### Rings:

The ring, which retains the window, is push-in, crimped or bayonet (cam) depending on the type number.

### **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 1009 gauges, with the exception of 1009 XMG, have a brushed aluminum dial with black markings. Type 1008 gauges have a white 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. Pointers:

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

## **Media Application Table**

### Ashcroft® Stainless Steel Case Pressure Gauges

The media being measured must be compatible with the wetted parts of the pressure instrument. To use the chart below, locate the media whose pressure is to be measured and select a suitable material from those available. Diaphragm seal information is contained in Bulletin DS-1. This is a simplified chart and

assumes the media temperature is below 200°F. *PLUS!* option, throttling devices and/or a liquid-filled instrument are recommended in applications with pulsation or vibration. These recommendations are only a guide, as service life is dependent on temperature, concentrations, catalysts that may be added, or

other conditions beyond our control. Consult Stratford, CT Customer Service for specific applications and for any media not listed. More complete corrosion guide available on our website at **www.ashcroft.com** in the Application Data Section.

Media	Pre		e Ins ater	trun ial	nent
Application	Brass or bronze	Steel	Stainless steel	Monel	Diaphragm seals*
Acetone	•		٠	•	
Acetic Acid <40%			•		
Acetic Anhydride					•
Acetylene (Dry)		٠	•		
Acrolein 100%					•
Air	•	•	٠	•	
Alcohol, Ethyl	•		•	•	
Alum. Chloride >10%					•
Alum. Sulfate 10-50%					•
Ammonia Gas (Dry)		•	•		
Ammonium Chloride <40%					•
Ammonium Nitrate <50%			•		
Ammonium Sulfate <60%					•
Aniline>99%			•		
Argon	•	•	•	•	
Beer			•		
Benzidine >99%					•
Benzene <50%			•	•	
Benzoic Acid <70%					•
Boric Acid <25%			•		
Bromine (Dry)					•
Butane	•	•	•	•	
Butyric Acid <10%					•
Calcium Chloride <80%					•
Calcium Hydroxide <50%					•
Carbon Dioxide	•	٠	•	•	
Carbon Monoxide >99%	•	•	•	•	
Chlorine (Dry)					•
Chlorine (Moist)					•
Chloroform (Dry)			•	•	
Chromic Acid					•
Citric Acid 10-50%			•		
Corn Oil					

Media		Pressure Instrument Material					
Application	Brass or bronze	Steel	Stainless steel	Monel	Diaphragm seals*		
Crude Oil (Sour)				٠			
Crude Oil (Sweet)			•	•			
Ethyl Acetate					•		
Ethylene Oxide >99%	•		•	•			
Ferric Chloride <40%					•		
Ferric Sulfate <10%			•				
Ferrous Chloride <30%					•		
Ferrous Sulfate <50%					•		
Fluorine Gas (Dry)				•			
Formaldehyde <95%				•			
Formic Acid					•		
Freons		•	•				
Furfural <10%					•		
Gasoline			•				
Glycerin >99%	•	•	•	•			
Hydrobromic Acid					•		
Hydrochloric Acid					•		
Hydrofluoric Acid					•		
Hydrofluosilic Acid					•		
Hydrogen <b>①</b>			•				
Hydrogen Peroxide <50%							
Kerosene	•	•	•				
Lactic Acid <70%			•				
Magnesium Chloride <40%					•		
Mercuric Chloride <60%					•		
Mercury >99%			•				
Milk			•				
Naphtha >99%	•	•	•	•			
Naphthalene >99%			•	•			
Nickel Chloride >99%					•		
Nitric Acid <95%			•				
Nitrogen	•	•	•	•			
Oleic Acid							

88.00	Pres	ent			
Media Application	Brass or bronze	Steel	Stainless steel	Monel	Diaphragm seals*
Oxalic Acid					•
Oxygen (Gas)2			•	•	
Palmitic Acid >99%			•		
Phosphoric Acid <80%			•		
Picric Acid <10%			•		
Propane (Dry)		•	•	•	
Sea Water (Flowing)				•	
Silver Nitrate < 70%					•
Sodium Bicarbonate < 20%			•	•	
Sodium Bisulfate <30%					•
Sodium Carbonate <40%			•	•	
Sodium Chromate <60%	•	•	•	•	
Sodium Cyanide		•	•		
Sodium Hydroxide < 40%				•	
Sodium Hypochlorite <25%					•
Sodium Phosphate, Tri <60%		•	•	•	
Sodium Silicate <50%		•	•	•	
Sodium Sulfide <50%					•
Stannous Chloride <10%					•
Steam (Use siphon)	•	•	•	•	
Stearic Acid			•		
Sulfur Dioxide (Dry) >99%					•
Sulfur Trioxide (Dry) >99%					•
Sulfuric Acid					•
Tannic Acid <80%		•	•	•	
Tartaric Acid <50%			•	•	
Tin Chloride (ous) <10%					•
Toluene >99%	•	•	•	•	
Turpentine >98%	•	•	•	•	
Water (Tap)	•		•	•	
Whiskey			•		
Zinc Chloride <25%					•
Zinc Sulphate <40%					•

- Over 1000 psi entire system must be 316 stainless steel. Applicable only to hydrogen.
- Monel and 316 stainless steel are acceptable for oxygen service, provided the instrument has been cleaned for oxygen service and is free from oil.
- \* Any standard Bourdon tube material may be used in conjunction with a diaphragm seal, but the gauge selection should take into consideration the corrosive environment in which it is to operate. For diaphragm seals see Bulletin DS-1.

**Range Tables**Ashcroft® 1008 Stainless Steel Case, Dual and Single Scale 40mm, and 50mm Pressure Gauges

### Standard Single Scale Ranges

Pressure – Single Scale psi								
Range	Figure interval	Minor graduation						
0/15	3	0.5						
0/30	5	0.5						
0/60	10	1						
0/100	20	2						
0/160	20	2						
0/200	40	5						
0/300	50	5						
0/400	50	5						
0/600	100	10						
0/800	200	20						
0/1000	200	20						
0/1500	300	50						
0/2000	400	50						
0/3000	500	50						
0/5000	1000	100						
0/6000	1000	100						
0/7500	1000	100						
0/10,000	2000	200						
0/15,000	3000	500						

Compound – Single Scale									
Donne	Figure i	nterval	Minor graduation						
Range	in. Hg	psi	in. Hg	psi					
30" Hg/15 psi	5	3	1	0.5					
30" Hg/30 psi	10	5	1	0.5					
30" Hg/60 psi	10	10	2	1					
30" Hg/100 psi	30	20	5	2					
30" Hg/150 psi	30	30	15	5					
30" Ha/300 psi	30	50	30	5					

Vacuum – Single Scale							
Range	Figure interval	Minor graduation					
30/0 in Hg	5 in.	0.5 in.					

### Metric Single Scale Ranges

Pressure – Single Scale kg/cm², bar, kPa								
Rai	nge	Figure	Minor	Range	Figure	Minor		
kg/cm <sup>2</sup>	bar	interval	grads.	kPa	interval	grads.		
0-1	0-1	0.2	0.02	0-100	20	2		
0-2	0-2	0.2	0.02	0-160	20	2		
0-2.5	0-2.5	0.5	0.05	0-250	50	5		
0-4	0-4	0.5	0.05	0-400	50	5		
0-6	0-6	1	0.1	0-600	100	10		
0-10	0-10	2	0.2	0-1000	200	20		
0-16	0-16	2	0.2	0-1600	200	20		
0-25	0-25	5	0.5	0-2500	500	50		
0-40	0-40	5	0.5	0-4000	500	50		
0-60	0-60	10	1	0-6000	1000	100		
0-100	0-100	20	2	0-10,000	2000	200		
0-160	0-160	20	2	0-16,000	2000	200		
0-250	0-250	50	5	0-25,000	5000	500		
0-400	0-400	50	5	0-40,000	5000	500		
0-600	0-600	100	10	0-60,000	10,000	1000		
0-1000	0-1000	200	20	0-100,000	20,000	2000		
0-1600	0-1600	200	20	0-160,000	20,000	2000		

	Compound – Single Scale kg/cm², bar, kPa								
Range		Figure	Minor	Range	Figure	Minor			
	kg/cm <sup>2</sup>	bar	interval	grads.	kPa	interval	grads.		
	-1/0/1	-1/0/1	0.2	0.02	-100/100	20	2		
	-1/0/1.5	-1/0/3	0.5	0.05	-100/150	50	5		
	-1/0/3	-1/0/3	0.5	0.05	-100/300	50	5		
	-1/0/5	-1/0/5	1	0.1	-100/500	100	10		
	-1/0/9	-1/0/9	2	0.2	-100/900	200	20		
	-1/0/15	-1/0/15	3	0.5	-100/1500	300	50		
	-1/0/24	-1/0/24	5	0.5	-100/2400	500	50		

Vacuum	Vacuum – Single Scale kg/cm², bar, kPa								
	nge	Figure interval	Minor grads.	Range kPa	Figure interval	Minor			
kg/cm <sup>2</sup>	bar	intervai	graus.	кра	mervai	grads.			
-1/0	-1/0	0.2	0.02	-100/0	20	2			

Pressure - Dual Scal					
Range	Figure i			aduation	
(outer scale is psi)	kg/cm <sup>2</sup>	psi	kg/cm <sup>2</sup>	psi	
0/1 kg/cm <sup>2</sup> -15 psi	0.2	3	0.02	0.5	
0/2 kg/cm <sup>2</sup> -30 psi	0.5	5	0.05	0.5	
0/4 kg/cm <sup>2</sup> -60 psi	1	10	0.1	1	
0/7 kg/cm <sup>2</sup> -100 psi	1	20	0.2	2	
0/11 kg/cm <sup>2</sup> -160 psi	2	20	0.2	2	
0/14 kg/cm <sup>2</sup> -200 psi	2	40	0.5	5	
0/21 kg/cm <sup>2</sup> -300 psi	5	50	0.5	5	
0/28 kg/cm <sup>2</sup> -400 psi	5	50	0.5	5	
0/42 kg/cm <sup>2</sup> -600 psi	10	100	1	10	
0/50 kg/cm <sup>2</sup> -800 psi	10	200	1	20	
0/70 kg/cm <sup>2</sup> -1000 psi	10	200	2	20	
0/105 kg/cm <sup>2</sup> -1500 psi	20	300	2	50	
0/140 kg/cm <sup>2</sup> -2000 psi	20	400	2	50	
0/210 kg/cm <sup>2</sup> -3000 psi	50	500	5	50	
0/350 kg/cm <sup>2</sup> -5000 psi	50	1000	10	100	
0/420 kg/cm <sup>2</sup> -6000 psi	100	1000	10	100	
0/500 kg/cm <sup>2</sup> -7500 psi	100	1000	10	100	
0/700 kg/cm <sup>2</sup> -10,000 psi	100	2000	20	200	
0/1050 kg/cm <sup>2</sup> -15,000 psi	200	3000	20	500	
Pango	Figure i	nterval	Minor gr	aduation	
Range	bar	psi	bar	psi	
0/1 bar-15 psi	0.2	3	0.02	0.5	
0/2 bar-30 psi	0.5	5	0.05	0.5	
0/4 bar-60 psi	1	10	0.1	1	
0/7 bar-100 psi	1	20	0.2	2	
0/10 bar-160 psi	2	20	0.2	2	
0/14 bar-200 psi	2	40	0.5	5	
0/20 bar-300 psi	5	50	0.5	5	
0/27 bar-400 psi	5	50	0.5	5	
			0.0		
•		100	1	10	
0/40 bar-600 psi	10	100 200	1 1	10 20	
0/40 bar-600 psi 0/55 bar-800 psi	10 10	200	1	20	
0/40 bar-600 psi 0/55 bar-800 psi 0/70 bar-1000 psi	10 10 10	200 200	1 2	20 20	
0/40 bar-600 psi 0/55 bar-800 psi 0/70 bar-1000 psi 0/100 bar-1500 psi	10 10 10 20	200 200 300	1 2 2	20 20 50	
0/40 bar-600 psi 0/55 bar-800 psi 0/70 bar-1000 psi 0/100 bar-1500 psi 0/140 bar-2000 psi	10 10 10 20 20	200 200 300 400	1 2 2 2	20 20 50 50	
0/40 bar-600 psi 0/55 bar-800 psi 0/70 bar-1000 psi 0/100 bar-1500 psi 0/140 bar-2000 psi 0/200 bar-3000 psi	10 10 10 20 20 50	200 200 300 400 500	1 2 2 2 5	20 20 50 50 50	
0/40 bar-600 psi 0/55 bar-800 psi 0/70 bar-1000 psi 0/100 bar-1500 psi 0/140 bar-2000 psi 0/200 bar-3000 psi 0/340 bar-5000 psi	10 10 10 20 20 50 50	200 200 300 400 500 1000	1 2 2 2 5 10	20 20 50 50 50 100	
0/40 bar-600 psi 0/55 bar-800 psi 0/70 bar-1000 psi 0/100 bar-1500 psi 0/140 bar-2000 psi 0/200 bar-3000 psi 0/340 bar-5000 psi 0/400 bar-6000 psi	10 10 10 20 20 50 50	200 200 300 400 500 1000	1 2 2 2 5 10	20 20 50 50 50 100	
0/40 bar-600 psi 0/55 bar-800 psi 0/70 bar-1000 psi 0/100 bar-1500 psi 0/140 bar-2000 psi 0/200 bar-3000 psi 0/340 bar-5000 psi 0/400 bar-6000 psi 0/500 bar-7500 psi	10 10 10 20 20 50 50 100	200 200 300 400 500 1000 1000	1 2 2 2 5 10 10	20 20 50 50 50 100 100	
0/40 bar-600 psi 0/55 bar-800 psi 0/70 bar-1000 psi 0/100 bar-1500 psi 0/140 bar-2000 psi 0/200 bar-3000 psi 0/340 bar-5000 psi 0/400 bar-6000 psi 0/500 bar-7500 psi 0/700 bar-10,000 psi	10 10 10 20 20 50 50 100 100	200 200 300 400 500 1000 1000 1000 2000	1 2 2 2 5 10 10 10 20	20 20 50 50 50 100 100 100 200	
0/40 bar-600 psi 0/55 bar-800 psi 0/70 bar-1000 psi 0/100 bar-1500 psi 0/140 bar-2000 psi 0/200 bar-3000 psi 0/340 bar-5000 psi 0/400 bar-6000 psi 0/500 bar-7500 psi 0/700 bar-10,000 psi	10 10 10 20 20 50 50 100 100 100 200	200 200 300 400 500 1000 1000 2000 3000	1 2 2 2 5 10 10 10 20 20	20 20 50 50 50 100 100 200 500	
0/40 bar-600 psi 0/55 bar-800 psi 0/70 bar-1000 psi 0/100 bar-1500 psi 0/140 bar-2000 psi 0/200 bar-3000 psi 0/340 bar-5000 psi 0/400 bar-6000 psi 0/500 bar-7500 psi 0/700 bar-10,000 psi	10 10 10 20 20 50 50 100 100 200  Figure i	200 200 300 400 500 1000 1000 2000 3000 <b>nterval</b>	1 2 2 2 5 10 10 10 20 20 <b>Minor gr</b>	20 20 50 50 50 100 100 100 200 500	
0/40 bar-600 psi 0/55 bar-800 psi 0/70 bar-1000 psi 0/100 bar-1500 psi 0/140 bar-2000 psi 0/200 bar-3000 psi 0/340 bar-5000 psi 0/400 bar-6000 psi 0/500 bar-7500 psi 0/1000 bar-15,000 psi 0/1000 bar-15,000 psi	10 10 10 20 20 50 50 100 100 200 Figure i	200 200 300 400 500 1000 1000 2000 3000 <b>nterval</b> <b>psi</b>	1 2 2 2 5 10 10 10 20 20 Minor gr	20 20 50 50 50 100 100 200 500 raduation psi	
0/40 bar-600 psi 0/55 bar-800 psi 0/70 bar-1000 psi 0/100 bar-1500 psi 0/140 bar-2000 psi 0/200 bar-3000 psi 0/340 bar-5000 psi 0/400 bar-6000 psi 0/500 bar-7500 psi 0/1000 bar-15,000 psi 0/1000 bar-15,000 psi	10 10 10 20 20 50 50 100 100 200  Figure i kPa	200 200 300 400 500 1000 1000 2000 3000 <b>nterval</b> <b>psi</b>	1 2 2 2 5 10 10 10 20 20 Minor gr kPa 2	20 20 50 50 50 100 100 200 500 raduation psi 0.5	
0/40 bar-600 psi 0/55 bar-800 psi 0/70 bar-1000 psi 0/100 bar-1500 psi 0/140 bar-2000 psi 0/200 bar-3000 psi 0/340 bar-5000 psi 0/400 bar-6000 psi 0/500 bar-7500 psi 0/1000 bar-15,000 psi 0/1000 bar-15 psi 0/1000 kPa-15 psi	10 10 10 20 20 50 50 100 100 200  Figure i kPa 20 50	200 200 300 400 500 1000 1000 2000 3000  **rerval **psi 3 5	1 2 2 2 5 10 10 10 20 20 Minor gr kPa 2 5	20 20 50 50 50 100 100 200 500 <b>raduation</b> <b>psi</b> 0.5	
0/40 bar-600 psi 0/55 bar-800 psi 0/70 bar-1000 psi 0/100 bar-1500 psi 0/140 bar-2000 psi 0/200 bar-3000 psi 0/340 bar-5000 psi 0/400 bar-6000 psi 0/500 bar-7500 psi 0/1000 bar-15,000 psi 0/1000 bar-15,000 psi 0/1000 bar-15,000 psi	10 10 10 20 20 50 50 100 100 200  Figure i kPa 20 50 100	200 200 300 400 500 1000 1000 2000 3000  **reval**  **psi** 3 5 10	1 2 2 2 5 10 10 10 20 20 <b>Minor gr kPa</b> 2 5 10	20 20 50 50 50 100 100 200 500 <b>raduation</b> <b>psi</b> 0.5 0.5	
0/40 bar-600 psi 0/55 bar-800 psi 0/70 bar-1000 psi 0/100 bar-1500 psi 0/140 bar-2000 psi 0/200 bar-3000 psi 0/340 bar-5000 psi 0/400 bar-6000 psi 0/500 bar-7500 psi 0/700 bar-10,000 psi 0/1000 bar-15,000 psi 0/1000 bar-15 psi 0/200 kPa-15 psi 0/200 kPa-30 psi 0/400 kPa-60 psi 0/700 kPa-10 psi	10 10 10 10 20 20 50 50 100 100 200  Figure i kPa 20 50 100 100	200 200 300 400 500 1000 1000 2000 3000  **rerval**  **psi** 3 5 10 20	1 2 2 2 5 10 10 20 <b>Minor gr kPa</b> 2 5 10 20	20 20 50 50 50 100 100 200 500 <b>raduation</b> <b>psi</b> 0.5 0.5	
0/40 bar-600 psi 0/55 bar-800 psi 0/55 bar-800 psi 0/70 bar-1000 psi 0/100 bar-1500 psi 0/100 bar-3000 psi 0/200 bar-3000 psi 0/340 bar-5000 psi 0/400 bar-6000 psi 0/500 bar-7500 psi 0/700 bar-15,000 psi 0/1000 bar-15,000 psi 0/1000 kPa-15 psi 0/200 kPa-30 psi 0/400 kPa-60 psi 0/700 kPa-100 psi	10 10 10 10 20 20 50 50 100 100 200  Figure i kPa 20 50 100 100 200	200 200 300 400 500 1000 1000 2000 3000  nterval psi 3 5 10 20 20	1 2 2 2 5 10 10 20 20 Minor gr kPa 2 5 10 20 20 20	20 20 50 50 50 100 100 200 500 <b>raduation</b> <b>psi</b> 0.5 0.5 1 2	
0/40 bar-600 psi 0/55 bar-800 psi 0/70 bar-1000 psi 0/100 bar-1500 psi 0/140 bar-2000 psi 0/200 bar-3000 psi 0/340 bar-5000 psi 0/400 bar-6000 psi 0/500 bar-7500 psi 0/700 bar-10,000 psi 0/1000 bar-15,000 psi	10 10 10 10 20 20 50 50 100 100 200  Figure i kPa 20 50 100 100	200 200 300 400 500 1000 1000 2000 3000  **rerval**  **psi** 3 5 10 20	1 2 2 2 5 10 10 20 <b>Minor gr kPa</b> 2 5 10 20	20 20 50 50 50 100 100 200 500 <b>raduation</b> <b>psi</b> 0.5 0.5	

Range	Figure i	nterval	Minor gr	aduation
range	kPa	psi	kPa	psi
0/100 kPa-15 psi	20	3	2	0.5
0/200 kPa-30 psi	50	5	5	0.5
0/400 kPa-60 psi	100	10	10	1
0/700 kPa-100 psi	100	20	20	2
0/1000 kPa-160 psi	200	20	20	2
0/1400 kPa-200 psi	200	40	50	5
0/2000 kPa-300 psi	500	50	50	5
0/2700 kPa-400 psi	500	50	50	5
0/4000 kPa-600 psi	1000	100	100	10
0/5500 kPa-800 psi	1000	200	100	20
0/7000 kPa-1000 psi	1000	200	200	20
0/10,000 kPa-1500 psi	2000	300	200	50
0/14,000 kPa-2000 psi	2000	400	200	50
0/20,000 kPa-3000 psi	5000	500	500	50
0/34,000 kPa-5000 psi	5000	1000	1000	100
0/40,000 kPa-6000 psi	10,000	1000	1000	100
0/50,000 kPa-7500 psi	10,000	1000	1000	100
0/70,000 kPa-10,000 psi	10,000	2000	2000	200
0/100,000 kPa-15,000 psi	20,000	3000	2000	500

<sup>\*</sup>Inner scale is dominant

# **Range Tables**

# Ashcroft® 1008 Stainless Steel Case, Dual and Single Scale 63mm and 100mm Pressure Gauges

### Metric & psi Dual Scale Ranges\*

Pressure					
	Units of Me	easurement		Figure	Minor
inner psi	outer kg/cm <sup>2</sup>	outer bar	outer kPa	interval	graduation
0/15	1	1	100	1	0.2
0/30	2	2	200	5	0.5
0/60	4	4	400	5	1
0/100	7	7	700	20	2
0/160	11	10	1100	20	2
0/200	14	14	1400	20	2
0/300	21	20	20 2000		5
0/400	28	27	2800	50	10
0/600	42	42	4000	100	10
0/800	50	50	5500	100	20
0/1000	70	70	7000	100	10
0/1500	105	100	10,000	200	20
0/2000	140	140	14,000	200	20
0/3000	210	200	20,000	300	50
0/5000	350	320	34.000	500	50
0/6000	420	400	40,000	1000	100
0/7500	520	520	50,000	1000	100
0/10,000	700	700	70,000	1000	100
0/15,000	1050	1050	100,000	2000	200

<sup>\*</sup>Inner scale is dominant

### **Standard Single Scale Ranges**

Pressure		
Units	Figure	Minor
psi	intterval	graduation
0/15	3	0.5
0/30	5	0.5
0/60	10	1
0/100	20	2
0/160	20	2
0/200	40	5
0/300	50	5
0/400	50	5
0/600	100	10
0/800	100	10
0/1000	200	10
0/1500	200	20
0/2000	400	20
0/3000	500	50
0/5000	1000	100
0/6000	1000	100
0/7500	1000	100
0/10,000	2000	100
0/15,000	2000	200
Vacuum		
Units	Figure	Minor
in. Hg	int.	grad.
30/0	5 in.	0.5 in.

Compound										
Huita	Figure interval									
Units	in. Hg	psi								
30" Hg/15 psi	5	3								
30" Hg/30 psi	10	5								
30" Hg/60 psi	10	10								
30" Hg/100 psi	30	10								
30" Hg/150 psi	30	20								
30" Hg/300 psi	30	50								

### **Metric Single Scale Ranges**

Pressure						
Units of Me	asurement	Figure	Minor	Unit of measure	Figure	Minor
kg/cm²	bar	interval	graduation	kPa	interval	graduation
0/1	0/1	0.1	0.01	0/100	10	1
0/1.6	0/1.6	0.2	0.02	0/160	20	2
0/2.5	0/2.5	0.5	0.05	0/250	50	5
0/4	0/4	0.5	0.05	0/400	50	10
0/6	0/6	0.5	0.1	0/600	50	10
0/10	0/10	1	0.1	0/1000	100	10
0/16	0/16	2	0.2	0/1600	200	20
0/25	0/25	5	1	0/2500	500	50
0/40	0/40	5	1	0/4000	500	100
0/60	0/60	5	1	0/6000	500	100
0/100	0/100	20	2	0/10,000	1000	100
0/160	0/160	20	2	0/16,000	2000	200
0/250	0/250	50	5	0/25,000	5000	500
0/400	0/400	50	10	0/40,000	5000	1000
0/600	0/600	50	10	0/60,000	5000	500
0/1000	0/1000	100	10	0/100,000	10,000	1000
0/1600	0/1600	200	20	0/160,000	20,000	2000
Vacuum						
-1/0	-1/0	0.1	0.01	-100/0	10	1
Compound						
-1/0/1.5	-1/0/1.5	0.2	0.02	-100/0/150	50	5
-1/0/3	-1/0/3	0.5	0.05	-100/0/300	50	5
-1/0/5	-1/0/5	0.5	0.1	-100/0/500	50	10
-1/0/9	-1/0/9	1	0.1	-100/0/900	100	10
-1/0/15	-1/0/15	2	0.2	-100/0/1500	200	20
-1/0/24	-1/0/24	5	0.5	-100/0/2400	500	50

Range Tables
Ashcroft® 1009 Stainless Steel Case 21/2", 31/2", 41/2", 6" and 100mm Pressure Gauges

### **Standard Ranges**

Pressure		
psi	Figure interval	Minor graduation
0/15	1	0.2
0/30	5	0.5
0/60	5	1
0/100	10	1
0/160	20	2
0/200	20	2
0/300	30	5
0/400	50	5
0/600	50	10
0/800	100	10
0/1000	100	10
0/1500	200	20
0/2000	200	20
0/3000	300	50
0/5000	500	50
0/6000	1000	100
0/7500	1000	100
0/10,000	1000	100
0/15,000	2000	200
0/20,000	2000	200
0/30,000	3000	500

Compound					
Panga	Figure i	nterval	Minor graduation		
Range	in. Hg	psi	in. Hg	psi	
30" Hg/15 psi	5	3	1	0.5	
30" Hg/30 psi	10	5	1	1	
30" Hg/60 psi	10	10	2	1	
30" Hg/100 psi	10	10	2	1	
30" Hg/150 psi	10	20	5	2	
30" Hg/300 psi	30	25	5	5	
Vacuum					
Range	Figure i	nterval	Minor gr	aduation	
30/0 in. Hg	5 i	n.	0.5 in.		

### **Metric Ranges**

Pressure kg/cm² (kilograms per sq. centimeter)	Figure bar interval		Minor graduation	kPa (kilopascal)	Figure interval	Minor graduation	psi outer scale of dual range*
0/1	0/1	0.1	0.01	0/100	10	1	0/14
0/1.6	0/1.6	0.2	0.02	0/160	20	2	0/22
0/2.5	0/2.5	0.5	0.05	0/250	50	5	0/35
0/4	0/4	0.5	0.05	0/400	50	5	0/55
0/6	0/6	0.5	0.1	0/600	50	10	0/85
0/10	0/10	1	0.1	0/1000	100	10	0/140
0/16	0/16	2	0.2	0/1600	200	20	0/220
0/25	0/25	5	0.5	0/2500	500	50	0/350
0/40	0/40	5	0.5	0/4000	500	50	0/550
0/60	0/60	5	1	0/6000	500	100	0/850
0/100	0/100	10	1	0/10,000	1000	100	0/1400
0/160	0/160	20	2	0/16,000	2000	200	0/2200
0/250	0/250	50	5	0/25,000	5000	200	0/3500
0/400	0/400	50	5	0/40,000	5000	500	0/5500
0/600	0/600	50	10	0/60,000	5,000	500	0/8500
0/1000	0/1000	100	10	0/100,000	10,000	1000	0/14,000
0/1600	0/1600	200	20	0/160,000	20,000	2000	0/22,000
Vacuum							
-1/0	-1/0	0.1	0.01	-100/0	10	1	30″ Hg
Compound							
-1/0/1.5	-1/0/1.5	0.05	0.05	-100/0/150	50	5	30" Hg/0/20
-1/0/3	-1/0/3	0.05	0.05	-100/0/300	50	5	30" Hg/0/40
-1/0/5	-1/0/5	0.5	0.1	-100/0/500	50	10	30" Hg/0/70
-1/0/9	-1/0/9	1	0.1	-100/0/900	100	10	30" Hg/0/125
-1/0/15	-1/0/15	2	0.2	-100/0/1500	200	20	30" Hg/0/215
-1/0/24	-1/0/24	5	0.2	-100/0/2400	500	20	30" Hg/0/340

<sup>\*</sup>Inner scale is dominant

# **Options**Ashcroft® Stainless Steel Case Pressure Gauges

Hermetically Sealed or Weatherproof Liquid-Fillable Case  LU-Clamp  UC  Used for panel mounting back-connect gauges.  Front Flange  FF  Includes 3 holes for panel mounting gauges (back-connect only).  Wall Mounting Bracket  Back Flange for Wall Mounting  RF  Available on 4½" 1009 lower or back-connect."  Retrofit Flange  MF  Available on 63mm and 100mm 1008 back-connect gauges for panel mounting. (Includes U-clamp white dial and safety glass.  Bourdon tube and system assembly options  SS Throttle Plug – (restrictor) Push-in Design  SS Throttle Plug (restrictor) Helical Design  TU  SS push-in type with a 0.013" orifice for 2½", 3½", 100mm 1009, 40mm, thru 100mm 1008 liquid filled gauges 30 psi-1000 ps  Standard on all 2½", 3½", 100mm 1009s, 40mm, thru 100mm 1008 liquid filled gauges 30 psi-1000 ps  Standard on all 2½", 3½", 100mm 1009s, 40mm, thru 100mm 1008 liquid filled gauges with rang of 1500 psi and above. 4½", 6" 1009 furnished with thread-in design with a .031" orifice.  Liquid Filled Gauge Without Throttle Plug  Required when the process may clog a throttle plug on the gauge.  Cleaning for Gaseous Oxygen  Back Flange mounting back-connect gauges (back-connect only).  Available on 4½", 3½", 1009 lower or back-connect.  Available on 63mm and 100mm 1008 back-connect gauges for panel mounting. (Includes U-clamp white dial and safety glass.  SS physh-in type with 3½", 1009 with ½ NPT lower connection. Gauge supplied with micrometer pointer, white dial and safety glass.  SS push-in type with a 0.013" orifice for 2½", 3½", 100mm 1009, 63mm, 100mm 1008. Throttle plug standard on all 2½", 3½", 100mm 1009, 40mm, thru 100mm 1008 liquid filled gauges 30 psi-1000 psi on 1500 psi and above. 4½", 6" 1009 furnished with thread-in design with a .031" orifice.  Liquid Filled Gauge Without Throttle Plug  Back Flange for Wall Mounting  Bavailable on 4½", 3½", 1009 horror back-connect.  Back Flange for	Case and ring entions	Codo	Comments
Used for panel mounting back-connect gauges   From Elange   From Elang	Case and ring options  Hermetically Sealed or Weatherproof Liquid-Fillable Case	Code LJ	
Front Blagge   Front Blagge   Front Blagge   Front Blagge   Production   Proceedings   Proceedings   Proceedings   Procedings   Proce			
Mail Mounting Bracket   Bek   Available on 4½: 1009 lower or back-connect."	U-Clamp	UC	Used for panel mounting back-connect gauges.
Back Tange for Wall Mounting	Front Flange	FF	Includes 3 holes for panel mounting gauges (back-connect only).
Retroil Flange	Wall Mounting Bracket	BF	Available on 41/2" 1009 lower or back-connect."
Metric Gauge  MoS Available on 36° 1009 with ½ NPT lower connection. Gauge supplied with micrometer pointer, white dial and safety glass.  Bourdon tube and system assembly options  SS Throttle Plug - (restrictor) Push-in Design   TU   SS push-in type with a 0.013° orifice for 2½°, 3½°, 100mm 1009, 40mm, 100mm 1008 flowed plug standard on all 2½°, 3½°, 1009 min throw 100mm 1008 liquid filled gauges 30 psh-1000 ps SS Throttle Plug (restrictor) Helical Design   TS   Standard on all 2½°, 3½°, 100mm 1009, 40mm, thro 100mm 1008 liquid filled gauges with rang of 1500 psh and above. 4½°, 6 1009 from through with threat an level a 0.011° orifice for 2½°, 3½°, 100mm 1009, 40mm, through 100mm 1008 liquid filled gauges with rang of 1500 psh and above. 4½°, 6 1009 from through with threat an level a 0.011° orifice. Cleaning for Gaseous Oxygen   Bs If gauge is liquid filled specify Halocatbon as the fill or utilize PLUSY Performance (LL). Publication for the process may clog a throttle plug on the gauge.  Cleaning for Gaseous Oxygen   Bs If gauge is liquid filled specify Halocatbon as the fill or utilize PLUSY Performance (LL). Publication for the process may clog a throttle plug on the gauge.  Silicone Hill   GV   Not available on 40mm and 50mm 1008 gauges.  Rad sel-Hand (Single)   SH   Available on 40mm and 50mm 1008, For oxidizing media. Examples: chlorine, oxygen, nitri acid and sulfuric acid.  Rad sel-Hand (Single)   SH   Available on 1009 only. Single stationary sel-hand used to indicate a specific pressures.  Rad sel-Hand (Clouble)   SJ   Available on 1009 only. Double stationary sel-hand used to indicate 2 specific pressures.  Rad sel-Hand (Single)   SH   Available on 1009 only. Double stationary sel-hand used to indicate 2 specific pressures.  Rad sel-Hand (Single)   SH   Available on 1009 only. Double stationary sel-hand used to indicate 2 specific pressures.  Rad sel-Hand (Single)   Available on 1009 only. Double stationary sel-hand used to indicate 2 specific pressures.  Rad sel-Hand (Single)   Available on 1009	Back Flange for Wall Mounting	FW	Available on 21/2" and 31/2" 1009 lower or back-connect.
Burdon tube and system assembly options  SS Trrottle Plug - (restrictor) Push-in Design  TU SS push-in type with a 0 013* orifice for 2½*, 3½*, 100mm 1009, 63mm, 100mm 1008. Throttle Plug (restrictor) Helical Design  TS Standard on all 2½*, 3½*, 1009, 40mm thru 100mm 1008 liquid filled gauges alb psi-1000 psi and above. 4½*, 6* 1009 furnished with thread-in-design with a 031* orifice. Cleaning for Gaseous Oxygen  Liquid Filled Gauge Without Throttle Plug  WP Required when the process may clog a brottle plug on the pauges with rang of 1500 psi and above. 4½*, 6* 1009 furnished with thread-in-design with a 031* orifice. Cleaning for Gaseous Oxygen  Be if gauge is liquid filled specify Halocarbon as the fill or utilize PLUSF Performance (LL). Liquid filling options  Silicone Fill  GV Not available on 40mm and 50mm 1008 gauges.  Not available on 40mm and 50mm 1008 gauges.  Pointer-options  Red Set-Hand (Single)  Available on 1009 only. Single stationary set-hand used to indicate a specific pressures. Red Set-Hand (Quistable)  GU Available on 1009 only. Double stationary set-hand used to indicate a specific pressure. Red Set-Hand (Quistable)  FU Available on 1009 only. Double stationary set-hand used to indicate a specific pressure. Red Set-Hand (Quistable)  FU Available on 4½* and 6* 1009 only. Externally reset by a knob on outside of an acrylic window. Minimum Pointer  EQ Available on 4½* and 6* 1009 only. Externally reset by a knob on outside of an acrylic window. Window options  Full Vindow  PD Ambient temperature limits -50/270°F. 40mm, 50mm 1008 and 100mm 1009 only. XPD standard on 2½*, 3½* 1009 and 63mm and 100mm 1009 only. XPD standard on 2½*, 3½* 1009 and 63mm and 100mm 1009 only. XPD standard on 2½*, 3½* 1009 and 63mm and 100mm 1009 only. XPD standard on 2½*, 3½* 1009 and 63mm and 100mm 1008. Available on 4½* and 6* 1009 only. Statemathy reset by a knob on outside of an acrylic window. Available on 4½* and 6* 1009 only. Statemathy reset by a knob on outside of an acrylic window. Available on 3½*, 3½* 1009	Retrofit Flange	RF	Available on 63mm and 100mm 1008 back-connect gauges for panel mounting. (Includes U-clamp.)
SS Throttle Plug – (restrictor) Push-in Design   1U   SS push-in type with a 0.013* crifice for 2½°, 3½°, 100mm 1009, 63mm, 100mm 1008 Input plug standard on all 2½°, 3½° 100mm 1009, 40mm throt 100mm 1008 lequid filled gauges 30 ps-1000 ps Standard on all 2½°, 3½° 100mm 1009, 40mm, throt 100mm 1008 lequid filled gauges 30 ps-1000 ps of 1500 ps and above. 4½°, 6° 1009 furnished with thread-in design with a 0.31° crifice. Liquid filled Gauge Without Throttle Plug   WP   Required when the process may clog a functive layed per laque. Cleaning for Gaseous Oxygen   68   If gauge is liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL). Liquid filled specify H	Metric Gauge	MG	3 11
plug standard on all 2½, 3½, 1009, 40mm thru 100mm 1008 liquid filled gauges 30 psi-1000 psi S Throttle Plug (restrictor) Helical Design 75 Standard on all 2½, 3½, 100mm 1009s. 40mm, thru 100mm 1008 liquid filled gauges with a 031 orifice.  Liquid Filled Gauge Without Throttle Plug WP Required when the process may clog a throttle plug on the gauge.  Cleaning for Gaseous Oxygen 68 If gauge is liquid filled specify Halocarbon as the fill or utilize PLUS/ Performance (LL).  Liquid filling options  Silicone Fill GV Not available on 40mm and 50mm 1008 gauges.  Halocarbon Fill GV Not available on 40mm and 50mm 1008 gauges.  Halocarbon Fill SV Not available on 40mm and 50mm 1008. For oxidizing media. Examples: chlorine, oxygen, nitri acid and sulfuric acid.  Pointer options  Red Set-Hand (Single) SH Available on 1009 only. Single stationary set-hand used to indicate a specific pressure.  Red Set-Hand (Qouble) SJ Available on 1009 only. Double stationary set-hand used to indicate a specific pressure.  Red Set-Hand (Adjustable) LU Available on 1009 only. Double stationary set-hand used to indicate a specific pressure.  Maximum Pointer EP Available on 1009 only. Externally reset by a knob on outside of an acrylic window.  Minimum Pointer EP Available on 1009 only. Externally reset by a knob on outside of an acrylic window.  Window options  Poly carbonale Window PD Ambient temperature limits -50/270°F. 40mm, 50mm 1008 and 100mm 1009 only. XPD standard on 2½°, 3½° 1009 and 63mm and 100mm 1008 and 100mm 1009 only. XPD standard on 2½°, 3½° 1009 and 63mm and 100mm 1008.  Acrylic Window PD Available in 3½° 1009 with ½ NPT only, thy or liquid filled.  Maximum Pointer Si Available on 63mm, 100mm 1008. Ambient temperature limits -50/200°F.  External Zero Adjustable Pointer (Easy Zero'') EA Available in 3½° 1009 with ½ NPT only, thy or liquid filled.  Maximum Pointer Si Available on 2½°, 3½° 1009 with ½ NPT only, thy or liquid filled.  Maximum Pointer Si Available on 2½°, 3½° 1009 with ½ NPT only, thy or liquid filled.  Maximum Po	Bourdon tube and system assembly options		
of 1500 psi and above. 4%; 6' 1009 furnished with thread-in design with a .031 orifice. It legaler for the content of the case of the content of the conte	SS Throttle Plug – (restrictor) Push-in Design	TU	SS push-in type with a 0.013" orifice for $2^{1}/2^{\circ}$ , $3^{1}/2^{\circ}$ , 100mm 1009, 63mm, 100mm 1008. Throttle plug standard on all $2^{1}/2^{\circ}$ , $3^{1}/2^{\circ}$ 1009, 40mm thru 100mm 1008 liquid filled gauges 30 psi-1000 psi
Ceaning for Gascous Oxygen   68    If gauge is liquid filled specify Halocarbon as the fill or utilize PLUSI Performance (L.1)   Liquid filling options	SS Throttle Plug (restrictor) Helical Design	TS	Standard on all 2½", 3½", 100mm 1009s, 40mm, thru 100mm 1008 liquid filled gauges with ranges of 1500 psi and above. 4½", 6" 1009 furnished with thread-in design with a .031" orifice.
Ceaning for Gascous Oxygen   68    If gauge is liquid filled specify Halocarbon as the fill or utilize PLUSI Performance (L.1)   Liquid filling options	Liquid Filled Gauge Without Throttle Plug	WP	·
Silicone Fill   GV   Not available on 40mm and 50mm 1008 gauges.		6B	
Silicone Fill   GV   Not available on 40mm and 50mm 1008 gauges.	9 79		
Halocarbon Fill		GV	Not available on 40mm and 50mm 1008 gauges.
Red Set-Hand (Single)         SH         Available on 1009 only. Single stationary set-hand used to indicate a specific pressure.           Red Set-Hand (Qouble)         SJ         Available on 1009 only. Double stationary set-hand used to indicate 2 specific pressures.           Red Set-Hand (Adjustable)         EU         Available on 1009 only. Externally reset by a knob on outside of an acrylic window.           Minimum Pointer         EP         Available on 4½ and 6*1009 only. Externally reset by a knob on outside of an acrylic window.           Window options         V         Ambient temperature limits -50/270°F. 40mm, 50mm 1008 and 100mm 1009 only.           Polycarbonate Window         PD         Africand 6*1009 only. Ambient temperature limits -50/270°F. 40mm, 50mm 1008 and 100mm 1009 only.           Acrylic Window         PD         4½* and 6*1009 only. Ambient temperature limits -50/180°F.           Shatterproof Glass         SG         Not available on 63mm, 100mm 1008. Ambient temperature limits -50/200°F.           External Zero Adjustable Pointer (Easy Zero**)         EA         Available in 3½*1009 with ½ NPT only. Dry or liquid filled.           Marking and tagging oftions         EA         Available in 3½*1009 with ½ NPT only. Dry or liquid filled.           Stainless Steel Tagging of Caron and Gauge         NH         300 series stainless steel tag is wired to gauge case.           Califoration options         V         4½* and 6*1009 only. <t< td=""><td>Halocarbon Fill</td><td>GX</td><td>Not available on 40mm and 50mm 1008. For oxidizing media. Examples; chlorine, oxygen, nitric acid and sulfuric acid.</td></t<>	Halocarbon Fill	GX	Not available on 40mm and 50mm 1008. For oxidizing media. Examples; chlorine, oxygen, nitric acid and sulfuric acid.
Red Set-Hand (Double)         SJ         Available on 1009 only. Double stationary set-hand used to indicate 2 specific pressures.           Red Set-Hand (Adjustable)         EU         Available on 1009 only.           Maximum Pointer         EP         Available on 4½" and 6" 1009 only. Externally reset by a knob on outside of an acrylic window.           Window options         Variable on 4½" and 6" 1009 only. Externally reset by a knob on outside of an acrylic window.           PD         Ambient temperature limits –50/270"F. 40mm, 50mm 1008 and 100mm 1009 only. XPD standard on 2½", 3½" 1009 and 63mm and 100mm 1008 and 100mm 1009 only. XPD standard on 2½", 3½" 1009 and 63mm and 100mm 1008.           Acrylic Window         PD         4½" and 6" 1009 only. Ambient temperature limits –50/270"F.           Shatterproof Glass         SG         Not available on 63mm, 100mm 1008. Ambient temperature limits –50/200"F.           External Zero Adjustable Pointer (Easy Zero**)         EA         Available in 3½" 1009 with ½ NPT only. Dry or liquid filled.           Marking and tagging options         EXTERNAL STANDARD WINDOWN STANDARD STA	Pointer options		
Red Set-Hand (Adjustable)  Maximum Pointer  ED  Available on 1009 only.  Available on 1009 only.  ED  Available on 1009 only.  Externally reset by a knob on outside of an acrylic window.  Minimum Pointer  ED  Available on 4½ and 6* 1009 only. Externally reset by a knob on outside of an acrylic window.  Window options  Polycarbonate Window  PD  Ambient temperature limits -50/270°F. 40mm, 50mm 1008 and 100mm 1009 only.  XPD standard on 2½*, 3½* 1009 and 63mm and 100mm 1009 only.  XPD standard on 2½*, 3½* 1009 and 63mm and 100mm 1009 only.  Acrylic Window  PD  Arbient temperature limits -50/270°F. 40mm, 50mm 1008 and 100mm 1009 only.  XPD standard on 2½*, 3½* 1009 and 63mm and 100mm 1009 only.  Acrylic Window  PD  Arbient temperature limits -50/280°F.  Acrylic Window  Acrylic Window  PD  Arbient temperature limits -50/280°F.  So  Not available on 63mm, 100mm 1008. Ambient temperature limits -50/200°F.  External Zero Adjustable Pointer (Easy Zero**)  EA  Available in 3½* 1009 with ½ NPT only. Dry or liquid filled.  Marking and tagging options  Paper Tagging of Carton and Gauge  Stallness Steel Tagging of Gauge Case  Not as so series stainless steel tag is wired to gauge case.  Callbration options  Callbration options  For and certificate of Conformance  CD-4  Special connection options  You available on 2½*, 3½* 1009SW.  SAE ½** and 20 straight thread  Not available on 40mm, 50mm 1008  Not available on 40mm, 50mm 1008  You available on 40mm, 50mm 1008  You straight JIS, BSP  KA  Not available on 40mm, 50mm 1008  We straight JIS, BSP  KR  Available on 40mm, 50mm 1009SW lower connection only  ** straight JIS, BSP  KR  3½**, 100mm 1009SW lower connection only  ** straight JIS, BSP  KR  3½**, 100mm 1009SW lower connection only  ** straight JIS, BSP  KR  3½**, 100mm 1009SW lower connection only	Red Set-Hand (Single)	SH	Available on 1009 only. Single stationary set-hand used to indicate a specific pressure.
Maximum Pointer         EP         Available on 4½" and 6" 1009 only. Externally reset by a knob on outside of an acrylic window.           Minimum Pointer         EQ         Available on 4½" and 6" 1009 only. Externally reset by a knob on outside of an acrylic window.           Window options         PD         Ambient temperature limits −50/270"F. 40mm, 50mm 1008 and 100mm 1009 only.           Acrylic Window         PD         4½" and 6" 1009 only. Ambient temperature limits −50/270"F.           Shatterproof Glass         SG         Not available on 63mm, 100mm 1008. Ambient temperature limits −50/200"F.           External Zero Adjustable Pointer (Easy Zero™)         EA         Available in 3½" 1009 with ½ NPT only. Dry or liquid filled.           Marking and tagging options         EA         Available in 3½" 1009 with ½ NPT only. Dry or liquid filled.           External Zero Adjustable Pointer (Easy Zero™)         EA         Available in 3½" 1009 with ½ NPT only. Dry or liquid filled.           Marking and tagging options         EA         Available in 3½" 1009 with ½ NPT only. Dry or liquid filled.           Stainless Steel Tagging of Gauge Case         Nh         Tag is bonded to gauge case and carton.           Stainless Steel Tagging of Gauge Case         Nh         4½" and 6" 1009 only.           Calibration ptions         Carticoptions         Carticoptions           Test and certificate options         CD-1         Conformance to specificat	Red Set-Hand (Double)	SJ	Available on 1009 only. Double stationary set-hand used to indicate 2 specific pressures.
Maximum Pointer         EP         Available on 4½" and 6" 1009 only. Externally reset by a knob on outside of an acrylic window.           Minimum Pointer         EO         Available on 4½" and 6" 1009 only. Externally reset by a knob on outside of an acrylic window.           Window options         PD         Ambient temperature limits –50/270"F. 40mm, 50mm 1008 and 100mm 1009 only. XPD standard on 2½", 3½" 1009 and 63mm and 100mm 1008.           Acrylic Window         PD         4½" and 6" 1009 only. Ambient temperature limits –50/180"F.           Shatterproof Glass         SG         Not available on 63mm, 100mm 1008. Ambient temperature limits –50/200"F.           External Zero Adjustable Pointer (Easy Zero™)         EA         Available in 3½" 1009 with ½ NPT only. Dry or liquid filled.           Marking and tagging options         EA         Available in 3½" 1009 with ½ NPT only. Dry or liquid filled.           Paper Tagging of Carton and Gauge         NN         30 service marking printed on dial.           Paper Tagging of Gauge Case         NN         30 service marking printed on dial.           Paper Tagging of Gauge Case         NN         30 service marking printed on dial.           Paper Tagging of Gauge Case         NN         30 service marking printed on dial.           Paper Tagging of Gauge Case         NN         30 service marking printed on dial.           Cauracy 0.5% full scale         AN         4½" and 6" 1009 only.	Red Set-Hand (Adjustable)	EU	Available on 1009 only.
Minimum Pointer         EQ         Available on 4½" and 6" 1009 only. Externally reset by a knob on outside of an acrylic window.           Window options           Polycarbonate Window         PD         Ambient temperature limits -50/270°F. 40mm, 50mm 1008 and 100mm 1009 only. XPD standard on 2½", 3½" 1009 and 63mm and 100mm 1008.           Acrylic Window         PD         4½" and 6" 1009 only. Ambient temperature limits -50/180°F.           Shatterproof Glass         SG         Not available on 63mm, 100mm 1008. Ambient temperature limits -50/200°F.           External Zero Adjustable Pointer (Easy Zero**)         EA         Available in 3½" 1009 with ½ NPT only. Dry or liquid filled.           Marking and tagging options         EA         Available in 3½" 1009 with ½ NPT only. Dry or liquid filled.           Paper Tagging of Carton and Gauge         NN         Tag is bonded to gauge case and carton.           Stainless Steel Tagging of Gauge Case         NH         300 series stainless steel tag is wired to gauge case.           Califoration options         Cartificate options           Certificate of Conformance         CD-1         Conformance to specifications and/or drawings.           Individual Certified Calibration Chart         CD-4         Special connection options           Seconda connection options         Village Cartificate options         NPT         On Available on 2½", 3½" 1009SW.           Sac 7½" and 20 straight thread </td <td>Maximum Pointer</td> <td>EP</td> <td></td>	Maximum Pointer	EP	
Window options         PD         Ambient temperature limits –50/270°F. 40mm, 50mm 1008 and 100mm 1009 only, XPD standard on 2½°, 3½° 1009 and 63mm and 100mm 1008.           Acrylic Window         PD         4½° and 6° 1009 only, Ambient temperature limits –50/180°F.           Shatterproof Glass         SG         Not available on 63mm, 100mm 1008. Ambient temperature limits –50/200°F.           External Zero Adjustable Pointer (Easy Zero™)         EA         Available in 3½° 1009 with ½ NPT only. Dry or liquid filled.           Marking and tagging options         Service marking printed on dial.           Paper Tagging of Carton and Gauge         NN         Tag is bonded to gauge case and carton.           Stainless Steel Tagging of Gauge Case         NH         300 series stainless steel tag is wired to gauge case.           Calibration options         Accuracy 0.5% (this cale         AN         4½° and 6° 1009 only.           Test and certificate options         CD-1         Conformance to specifications and/or drawings.           Certificate options         CD-2         CD-1           Secala connection options         Value of the call bration Chart         CD-4           Special connection options           ½ NPT         01         Available on 2½°, 3½° 1009SW.           As 7½° and 20 straight thread         RW         Not available on 40mm, 50mm 1008           ½ straight JIS, BSP <td>Minimum Pointer</td> <td>EQ</td> <td></td>	Minimum Pointer	EQ	
PDLycarbonate Window PD Ambient temperature limits –50/270°F. 40mm, 50mm 1008 and 100mm 1009 only. XPD standard on 2½°, 3½°, 1009 and 63mm and 100mm 1008.  Acrylic Window PD 4½° and 6° 1009 only. Ambient temperature limits –50/180°F.  Shatterproof Glass SG Not available on 63mm, 100mm 1008. Ambient temperature limits –50/200°F.  External Zero Adjustable Pointer (Easy Zero™) EA Available in 3½° 1009 with ½ NPT only. Dry or liquid filled.  Marking and tagging options  DA Service marking printed on dial.  Paper Tagging of Carton and Gauge NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Gauge Case NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Gauge Case NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Gauge Case NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Gauge Case NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Gauge Case NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Gauge Case NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Gauge Case NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Gauge Case NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Gauge Case NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Gauge Case NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Gauge Case NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Gauge Case NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Carton and Gauge Case NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Carton and Gauge Case NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging Of Carton and Gauge Case NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging Of Carton and Gauge Case Not Tag is bonded to gauge case and carton.  Stainless Steel Tagging Of Carton and Gauge Case Case Natical Stainless Steel Tagging Of Carton and Gau	Window options		
Shatterproof Glass SG Not available on 63mm, 100mm 1008. Ambient temperature limits −50/200°F.  External Zero Adjustable Pointer (Easy Zero™) EA Available in 3½* 1009 with ⅓ NPT only. Dry or liquid filled.  Marking and tagging options  Dial Marking DA Service marking printed on dial.  Paper Tagging of Carton and Gauge NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Gauge Case NH 300 series stainless steel tag is wired to gauge case.  Calibration options  Accuracy 0.5% full scale AN 4½* and 6* 1009 only.  Test and certificate options  Certificate of Conformance CD-1 Conformance to specifications and/or drawings.  Individual Certified Calibration Chart CD-4  Special connection options  ½ NPT 01 Available on 2½*, 3½* 1009SW.  SAE ¾6* and 20 straight thread RW Not available on 40mm, 50mm 1008  ¾6* and 20 UNF-3A 37* Flare EJ Not available on 40mm, 50mm 1008  ¾* "straight JIS, BSP KA Not available on 40mm, 50mm 1008  ¾* straight JIS, BSP KA Not available on 40mm, 50mm 1008  ¾* straight JIS, BSP KN 3½*, 100mm 1009SW lower connection only  ½* straight JIS, BSP KN 3½*, 100mm 1009SW lower connection only  ½* straight JIS, BSP KR 3½*, 100mm 1009SW lower connection only  ½* straight JIS, BSP KR 3½*, 100mm 1009SW lower connection only  ½* straight JIS, BSP KR 3½*, 100mm 1009SW lower connection only	Polycarbonate Window	PD	· · · · · · · · · · · · · · · · · · ·
Shatterproof Glass SG Not available on 63mm, 100mm 1008. Ambient temperature limits −50/200°F.  External Zero Adjustable Pointer (Easy Zero™) EA Available in 3½* 1009 with ⅓ NPT only. Dry or liquid filled.  Marking and tagging options  Dial Marking DA Service marking printed on dial.  Paper Tagging of Carton and Gauge NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Gauge Case NH 300 series stainless steel tag is wired to gauge case.  Calibration options  Accuracy 0.5% full scale AN 4½* and 6* 1009 only.  Test and certificate options  Certificate of Conformance CD-1 Conformance to specifications and/or drawings.  Individual Certified Calibration Chart CD-4  Special connection options  ½ NPT 01 Available on 2½*, 3½* 1009SW.  SAE ¾6* and 20 straight thread RW Not available on 40mm, 50mm 1008  ¾6* and 20 UNF-3A 37* Flare EJ Not available on 40mm, 50mm 1008  ¾* "straight JIS, BSP KA Not available on 40mm, 50mm 1008  ¾* straight JIS, BSP KA Not available on 40mm, 50mm 1008  ¾* straight JIS, BSP KN 3½*, 100mm 1009SW lower connection only  ½* straight JIS, BSP KN 3½*, 100mm 1009SW lower connection only  ½* straight JIS, BSP KR 3½*, 100mm 1009SW lower connection only  ½* straight JIS, BSP KR 3½*, 100mm 1009SW lower connection only  ½* straight JIS, BSP KR 3½*, 100mm 1009SW lower connection only	Acrylic Window	PD	4½" and 6" 1009 only. Ambient temperature limits –50/180°F.
Marking and tagging optionsDial MarkingDAService marking printed on dial.Paper Tagging of Carton and GaugeNNTag is bonded to gauge case and carton.Stainless Steel Tagging of Gauge CaseNH300 series stainless steel tag is wired to gauge case.Calibration optionsAccuracy 0.5% full scaleAN4½" and 6" 1009 only.Test and certificate optionsCertificate of ConformanceCD-1Conformance to specifications and/or drawings.Individual Certified Calibration ChartCD-4Special connection optionsSpecial connection optionsSAE ½no* and 20 straight threadRWNot available on 40mm, 50mm 1008½no* and 20 UNF-3A 37° FlareEJNot available on 40mm, 50mm 1008½no* straight JIS, BSPKJNot available on 40mm, 50mm 1008½no* tagered JIS, BSPKANot available on 40mm, 50mm 1008½no* straight JIS, BSPKN3½nomm 1009SW lower connection only½no* tagered JIS, BSPKN3½nomm 1009SW lower connection only½no* tagered JIS, BSPKR3½nomm 1009SW lower connection only½nomm 1009SW lower connection only	Shatterproof Glass	SG	Not available on 63mm, 100mm 1008. Ambient temperature limits –50/200°F.
Marking and tagging optionsDial MarkingDAService marking printed on dial.Paper Tagging of Carton and GaugeNNTag is bonded to gauge case and carton.Stainless Steel Tagging of Gauge CaseNH300 series stainless steel tag is wired to gauge case.Calibration optionsAccuracy 0.5% full scaleAN4½" and 6" 1009 only.Test and certificate optionsCertificate of ConformanceCD-1Conformance to specifications and/or drawings.Individual Certified Calibration ChartCD-4Special connection optionsSpecial connection optionsSAE ½no* and 20 straight threadRWNot available on 40mm, 50mm 1008½no* and 20 UNF-3A 37° FlareEJNot available on 40mm, 50mm 1008½no* straight JIS, BSPKJNot available on 40mm, 50mm 1008½no* tagered JIS, BSPKANot available on 40mm, 50mm 1008½no* straight JIS, BSPKN3½nomm 1009SW lower connection only½no* tagered JIS, BSPKN3½nomm 1009SW lower connection only½no* tagered JIS, BSPKR3½nomm 1009SW lower connection only½nomm 1009SW lower connection only	External Zero Adjustable Pointer (Easy Zero™)	EA	Available in 3½ " 1009 with ¼ NPT only. Dry or liquid filled.
Dial Marking DA Service marking printed on dial.  Paper Tagging of Carton and Gauge NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Gauge Case NH 300 series stainless steel tag is wired to gauge case.  Calibration options  Accuracy 0.5% full scale AN 4½ and 6 1009 only.  Test and certificate options  Certificate of Conformance CD-1 Conformance to specifications and/or drawings.  Individual Certified Calibration Chart CD-4  Special connection options  KNPT 01 Available on 2½ 3½ 1009SW.  SAE 3½ 337 Flare EJ Not available on 40mm, 50mm 1008  ½ straight JIS, BSP KA Not available on 40mm, 50mm 1008  ½ straight JIS, BSP KA Not available on 40mm, 50mm 1008  ½ straight JIS, BSP KA Not available on 40mm, 50mm 1008  ½ straight JIS, BSP KA Not available on 40mm, 50mm 1008  ½ straight JIS, BSP KA Not available on 40mm, 50mm 1008  ½ straight JIS, BSP KA Not available on 40mm, 50mm 1008  ½ straight JIS, BSP KA Not available on 40mm, 50mm 1008  ½ straight JIS, BSP KR 3½ 100mm 1009SW lower connection only  ½ straight JIS, BSP KR 3½ 100mm 1009SW lower connection only  ½ straight JIS, BSP KR 3½ 100mm 1009SW lower connection only  ½ tapered JIS, BSP KR 3½ 100mm 1009SW lower connection only  ½ tapered JIS, BSP KR 3½ 100mm 1009SW lower connection only			
Paper Tagging of Carton and Gauge  NN Tag is bonded to gauge case and carton.  Stainless Steel Tagging of Gauge Case  NH 300 series stainless steel tag is wired to gauge case.  Calibration options  Accuracy 0.5% full scale  AN 4½" and 6" 1009 only.  Test and certificate options  Certificate of Conformance  CD-1 Conformance to specifications and/or drawings.  Individual Certified Calibration Chart  CD-4  Special connection options  KNPT  01 Available on 2½", 3½" 1009SW.  SAE ¾6" and 20 straight thread  RW Not available on 40mm, 50mm 1008  ¾" straight JIS, BSP  KJ Not available on 40mm, 50mm 1008  ¾" tapered JIS, BSP  KA Not available on 40mm, 50mm 1008  ¾" straight JIS, BSP  KA Not available on 40mm, 50mm 1008  ¾" straight JIS, BSP  KA Not available on 40mm, 50mm 1008  ¾" straight JIS, BSP  KA Not available on 40mm, 50mm 1008  ¾" straight JIS, BSP  KA Not available on 40mm, 50mm 1008  ¾" straight JIS, BSP  KA Not available on 40mm, 50mm 1008  ¾" straight JIS, BSP  KR 3½", 100mm 1009SW lower connection only  ½" straight JIS, BSP  KR 3½", 100mm 1009SW lower connection only  ½" straight JIS, BSP  KR 3½", 100mm 1009SW lower connection only  ½" tapered JIS, BSP  KR 3½", 100mm 1009SW lower connection only  ½" tapered JIS, BSP  KR 3½", 100mm 1009SW lower connection only		DA	Service marking printed on dial.
Stainless Steel Tagging of Gauge Case  NH 300 series stainless steel tag is wired to gauge case.  Calibration options  Accuracy 0.5% full scale  AN 4½ and 6″ 1009 only.  Test and certificate options  Certificate of Conformance  CD-1 Conformance to specifications and/or drawings.  Individual Certified Calibration Chart  Special connection options  % NPT  01 Available on 2½ 3½ 1009SW.  SAE ½ and 20 straight thread  RW Not available on 40mm, 50mm 1008  ¼ straight JIS, BSP  KJ Not available on 40mm, 50mm 1008  ¼ tapered JIS, BSP  KA Not available on 40mm, 50mm 1008  % Straight JIS, BSP  KA Not available on 40mm, 50mm 1008  KA NOT availa			- · · · · · · · · · · · · · · · · · · ·
Calibration options  Accuracy 0.5% full scale  AN 4½" and 6" 1009 only.  Test and certificate options  Certificate of Conformance  CD-1 Conformance to specifications and/or drawings.  Individual Certified Calibration Chart  CD-4  Special connection options  Wa NPT  O1 Available on 2½", 3½" 1009SW.  SAE ¼" and 20 straight thread  RW Not available on 40mm, 50mm 1008  ¼" straight JIS, BSP  KJ Not available on 40mm, 50mm 1008  ¼" straight JIS, BSP  KA Not available on 40mm, 50mm 1008  ½" straight JIS, BSP  KA Not available on 40mm, 50mm 1008  ½" straight JIS, BSP  KA Not available on 40mm, 50mm 1008  ½" straight JIS, BSP  KA Not available on 40mm, 50mm 1008  ½" straight JIS, BSP  KA Not available on 40mm, 50mm 1008  ½" straight JIS, BSP  KA Not available on 40mm, 50mm 1008  ½" straight JIS, BSP  KA Not available on 40mm, 50mm 1008  ½" straight JIS, BSP  KA Not available on 40mm 1009SW lower connection only  ½" straight JIS, BSP  KR 3½", 100mm 1009SW lower connection only  ½" tapered JIS, BSP  KR 3½", 100mm 1009SW lower connection only  ½" tapered JIS, BSP  KR 3½", 100mm 1009SW lower connection only  ½" tapered JIS, BSP  KR 3½", 100mm 1009SW lower connection only	<u> </u>		
AN 4½" and 6" 1009 only.  Test and certificate options  Certificate of Conformance CD-1 Conformance to specifications and/or drawings.  Individual Certified Calibration Chart CD-4  Special connection options  Va NPT 01 Available on 2½", 3½" 1009SW.  SAE ¼\(\beta\) and 20 straight thread RW Not available on 40mm, 50mm 1008  ¼\(\beta\) straight JIS, BSP KJ Not available on 40mm, 50mm 1008  ¼\(\beta\) tapered JIS, BSP KN 3½", 100mm 1009SW lower connection only  ½\(\beta\) straight JIS, BSP KN 3½", 100mm 1009SW lower connection only  ½\(\beta\) tapered JIS, BSP KR 3½", 100mm 1009SW lower connection only  ½\(\beta\) tapered JIS, BSP KR 3½", 100mm 1009SW lower connection only  ½\(\beta\) tapered JIS, BSP KR 3½", 100mm 1009SW lower connection only  ½\(\beta\) tapered JIS, BSP KR 3½", 100mm 1009SW lower connection only  ½\(\beta\) tapered JIS, BSP KR 3½", 100mm 1009SW lower connection only			
Test and certificate options  Certificate of Conformance  CD-1 Conformance to specifications and/or drawings.  Individual Certified Calibration Chart  CD-4  Special connection options  V <sub>B</sub> NPT  O1 Available on 2½″, 3½″ 1009SW.  SAE ¾/16″ and 20 straight thread  RW Not available on 40mm, 50mm 1008  ¼″ straight JIS, BSP  KJ Not available on 40mm, 50mm 1008  ¼″ straight JIS, BSP  KJ Not available on 40mm, 50mm 1008  ¼″ tapered JIS, BSP  KA Not available on 40mm, 50mm 1008  ¼″ tapered JIS, BSP  KA Not available on 40mm, 50mm 1008  ½″ straight JIS, BSP  KA Not available on 40mm, 50mm 1008  ½″ straight JIS, BSP  KA Not available on 40mm, 50mm 1008  ½″ tapered JIS, BSP  KR 3½″, 100mm 1009SW lower connection only  ½″ tapered JIS, BSP  KR 3½″, 100mm 1009SW lower connection only  ½″ tapered JIS, BSP  KQ 3½″, 100mm 1009SW lower connection only	·	AN	4½" and 6" 1009 only
Certificate of Conformance CD-1 Conformance to specifications and/or drawings.  Individual Certified Calibration Chart CD-4  Special connection options  V <sub>8</sub> NPT O1 Available on 2½″, 3½″ 1009SW.  SAE ¼/6″ and 20 straight thread RW Not available on 40mm, 50mm 1008  ¼/6″ and 20 UNF-3A 37° Flare EJ Not available on 40mm, 50mm 1008  ¼/″ straight JIS, BSP KJ Not available on 40mm, 50mm 1008  ¼/6″ straight JIS, BSP KA Not available on 40mm, 50mm 1008  ¼/6″ straight JIS, BSP KA Not available on 40mm, 50mm 1008  ½/6″ straight JIS, BSP KA Not available on 40mm, 50mm 1008  ½/6″ straight JIS, BSP KR 3½″, 100mm 1009SW lower connection only  ½/6″ tapered JIS, BSP KR 3½″, 100mm 1009SW lower connection only  ½/6″ tapered JIS, BSP KR 3½″, 100mm 1009SW lower connection only  ½/6″ tapered JIS, BSP KQ 3½″, 100mm 1009SW lower connection only	-	7 0	772 did 6 7667 dinji
Individual Certified Calibration Chart  Special connection options  V <sub>8</sub> NPT  01 Available on 2 <sup>1</sup> / <sub>2</sub> ", 3 <sup>1</sup> / <sub>2</sub> " 1009SW.  SAE <sup>7</sup> / <sub>16</sub> " and 20 straight thread  RW Not available on 40mm, 50mm 1008  V <sub>6</sub> " straight JIS, BSP  KJ Not available on 40mm, 50mm 1008  V <sub>6</sub> " straight JIS, BSP  KA Not available on 40mm, 50mm 1008  V <sub>6</sub> " straight JIS, BSP  KA Not available on 40mm, 50mm 1008  V <sub>6</sub> " straight JIS, BSP  KA Not available on 40mm, 50mm 1008  V <sub>6</sub> " straight JIS, BSP  KA Not available on 40mm, 50mm 1008  V <sub>6</sub> " straight JIS, BSP  KR 3 <sup>1</sup> / <sub>2</sub> ", 100mm 1009SW lower connection only  V <sub>6</sub> " straight JIS, BSP  KR 3 <sup>1</sup> / <sub>2</sub> ", 100mm 1009SW lower connection only  V <sub>6</sub> " tapered JIS, BSP  KQ 3 <sup>1</sup> / <sub>2</sub> ", 100mm 1009SW lower connection only		CD-1	Conformance to specifications and/or drawings
Special connection options½ NPT01Available on 2½", 3½" 1009SW.SAE ¾6" and 20 straight threadRWNot available on 40mm, 50mm 1008¾6" and 20 UNF-3A 37° FlareEJNot available on 40mm, 50mm 1008¾6" straight JIS, BSPKJNot available on 40mm, 50mm 1008¾6" straight JIS, BSPKANot available on 40mm, 50mm 1008¾6" straight JIS, BSPKANot available on 40mm, 50mm 1008¾6" straight JIS, BSPKP3½", 100mm 1009SW lower connection only½6" straight JIS, BSPKN3½", 100mm 1009SW lower connection only¾6" tapered JIS, BSPKR3½", 100mm 1009SW lower connection only½6" tapered JIS, BSPKQ3½", 100mm 1009SW lower connection only			
V <sub>6</sub> NPT         01         Available on 2½", 3½" 1009SW.           SAE ¼ <sub>16</sub> " and 20 straight thread         RW         Not available on 40mm, 50mm 1008           ¼ <sub>16</sub> " and 20 UNF-3A 37° Flare         E.J         Not available on 40mm, 50mm 1008           ¼ <sub>4</sub> " straight JIS, BSP         KJ         Not available on 40mm, 50mm 1008           ¼ <sub>4</sub> " tapered JIS, BSP         KA         Not available on 40mm, 50mm 1008           ¾ <sub>6</sub> " straight JIS, BSP         KP         3½", 100mm 1009SW lower connection only           ½ <sub>6</sub> " straight JIS, BSP         KN         3½", 100mm 1009SW lower connection only           ¾ <sub>6</sub> " tapered JIS, BSP         KR         3½", 100mm 1009SW lower connection only           ½ <sub>6</sub> " tapered JIS, BSP         KQ         3½", 100mm 1009SW lower connection only		5D T	
RW Not available on 40mm, 50mm 1008  7/16" and 20 UNF-3A 37° Flare EJ Not available on 40mm, 50mm 1008  1/4" straight JIS, BSP KJ Not available on 40mm, 50mm 1008  1/4" tapered JIS, BSP KA Not available on 40mm, 50mm 1008  1/4" straight JIS, BSP KA Not available on 40mm, 50mm 1008  1/4" straight JIS, BSP KP 31/2," 100mm 1009SW lower connection only  1/2" straight JIS, BSP KR 31/2," 100mm 1009SW lower connection only  1/2" tapered JIS, BSP KR 31/2," 100mm 1009SW lower connection only  1/2" tapered JIS, BSP KQ 31/2," 100mm 1009SW lower connection only		01	Available on 21/5". 31/5" 1009SW
7/16" and 20 UNF-3A 37° FlareEJNot available on 40mm, 50mm 10081/4" straight JIS, BSPKJNot available on 40mm, 50mm 10081/4" tapered JIS, BSPKANot available on 40mm, 50mm 10083/8" straight JIS, BSPKP3/½", 100mm 1009SW lower connection only1/2" straight JIS, BSPKN3½", 100mm 1009SW lower connection only3/8" tapered JIS, BSPKR3½", 100mm 1009SW lower connection only1/2" tapered JIS, BSPKQ3½", 100mm 1009SW lower connection only			
"\"" straight JIS, BSPKJNot available on 40mm, 50mm 1008"\"" tapered JIS, BSPKANot available on 40mm, 50mm 1008"\"" straight JIS, BSPKP $3\frac{1}{2}$ ," 100mm 1009SW lower connection only"\"" straight JIS, BSPKN $3\frac{1}{2}$ ," 100mm 1009SW lower connection only"\"" tapered JIS, BSPKR $3\frac{1}{2}$ ," 100mm 1009SW lower connection only"\"" tapered JIS, BSPKQ $3\frac{1}{2}$ ," 100mm 1009SW lower connection only			
¼" tapered JIS, BSPKANot available on 40mm, 50mm 1008¾s" straight JIS, BSPKP3½", 100mm 1009SW lower connection only½" straight JIS, BSPKN3½", 100mm 1009SW lower connection only¾s" tapered JIS, BSPKR3½", 100mm 1009SW lower connection only½" tapered JIS, BSPKQ3½", 100mm 1009SW lower connection only			
% "straight JIS, BSP     KP     3½", 100mm 1009SW lower connection only       ½" straight JIS, BSP     KN     3½", 100mm 1009SW lower connection only       % "tapered JIS, BSP     KR     3½", 100mm 1009SW lower connection only       ½" tapered JIS, BSP     KQ     3½", 100mm 1009SW lower connection only			
½" straight JIS, BSP     KN     3½", 100mm 1009SW lower connection only       ¾" tapered JIS, BSP     KR     3½", 100mm 1009SW lower connection only       ½" tapered JIS, BSP     KQ     3½", 100mm 1009SW lower connection only	•		
3/4" tapered JIS, BSP     KR     3/4;" 100mm 1009SW lower connection only       1/2" tapered JIS, BSP     KQ     3/4;" 100mm 1009SW lower connection only			· · · · · · · · · · · · · · · · · · ·
½" tapered JIS, BSP KQ 3½", 100mm 1009SW lower connection only			· · · · · · · · · · · · · · · · · · ·
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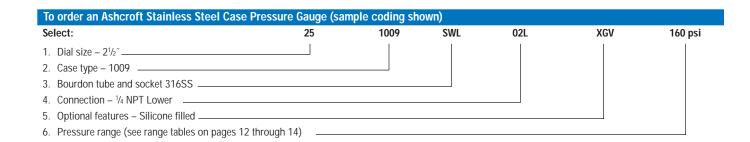
## **How to Order**

### Ashcroft® Stainless Steel Case Pressure

Dial Size	Ordering Code	Case Type	Case: Finish & Material			Mounting/Connection					
21/2", 31/2"	(25) (35)	1009	Polished 304 SS	Bayonet, Lock ring	Ste	em – Lower or back					
100mm	(10)	1009	Polished 304 SS	Polished 304 SS	Polished 304 SS Surface – Lower or back: specify (XFW) b. Flush – Back: specify front flange (FF) or						
41/2", 6"	(45) (60)	1009	Polished 304 SS	Bayonet, Lock ring Polished 304 SS	Su	ırface –Lower or back	Lower or back  -Lower or back, wall mount bracket (BF)  Back: specify front flange (FF) or U-clamp (U				
40mm, 50mm	(40) (50)	1008	Polished 304 SS	Push-In, Polished 304 SS	Ste Flu	FF) or U-clamp (UC)					
63mm 100mm	(63) (10)	1008	304 SS	Crimped 304 SS	Stem – Lower or back Flush – Back: specify front flange (FF), U-clamp (UC) o retrofit flange (RF)						
able B – Syst	em, conne	ection and loc	ation								
Dial Size (	Case Type	Tube and Socket Code	Tube and So	ocket Material		NPT Conn. and Code	Conn. Location and Code	Range Selectio Limits (psi)			
(2 <sup>1</sup> / <sub>2</sub> ", 3 <sup>1</sup> / <sub>2</sub> "		(AW)	Welded 316 SS t	ube, bronze socket		(02) 1/4 std.		Vac/1000			
100mm)		(SW)	Welded 316 SS	S tube and socket		(04) ½ opt.(1)		Vac/15,000			
	1009	(A)	Grade A phosphor bronze tube, brass tip silver brazed brass socket					Vac/1000			
(4 <sup>1</sup> / <sub>2</sub> ", 6")		(B)	4130 alloy steel tul	be, 1019 steel socket		(02) 1/4 std. (04) 1/2 opt.	(L) lower (B) back	Vac/5000			
		(R)	316 SS tube, 1	1019 steel socket		(04) 72 Opt.	(b) back	Vac/20,000			
		(S)	316 SS tub	e and socket				Vac/20,000			
40/50mm)		(S)	316 SS tub	oe and socket		(01) ½ std., 40mm <sup>(2)</sup> (02) ¼ std., 50mm		Vac/15,000			
40/3011111)				, brass socket, soldered		, brass socket, soldered					
(40/3011111)	1008	(A)	Phosphor bronze tube	e, brass socket, soldered		(02) 1/4 std.		Vac/6000			

### NOTES:

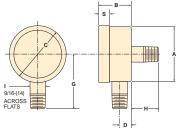
- (1) 31/2"/100mm 1009SW, 100mm 1008S lower connect only
- (2) Not available with  $^{1\!/_{\!\!4}}$  NPT



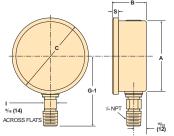
### **Dimensions**

### Ashcroft® Stainless Steel Case Pressure Gauges

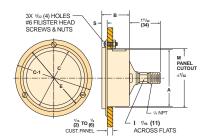
### Case Type 1008 - 40mm & 50mm



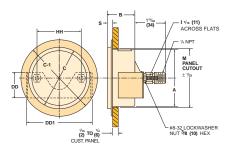
40/50mm lower and back connection



63/100mm 1008S/SL lower connection

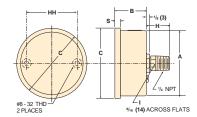


63/100mm 1008S/SL back connection (XFF) Front Flange

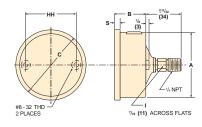


63/100mm 1008S/SL back connection (XRF) Retrofit Front Flange

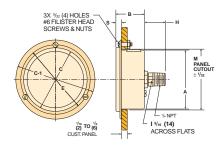
### Case Type 1008 - 63mm & 100mm



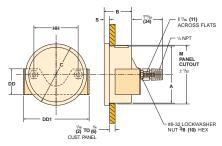
63/100mm 1008A/AL back connection



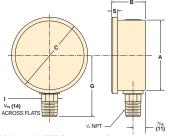
63/100mm 1008S/SL back connection



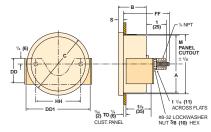
63/100mm 1008A/AL back connection (XFF) Front Flange



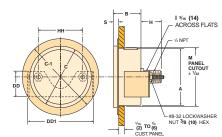
63/100mm 1008S back connection (XUC) U-clamp



63/100mm1008A/AL lower connection

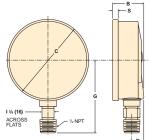


63/100mm 1008A/AL back connection (XUC) U-clamp



63/100mm 1008A/AL back connection (XRF) Retrofit Front Flange

### Case Type 1008S - 100mm with ½ NPT



100mm 1008S/SL lower connection

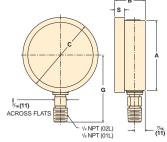
Gauge																				We	eight
Size	Α	A-1	В	С	C-1	D	DD	DD1	E	FF	G	G-1	Н	HH	1	J	L	M	S	Dry	LF
(40) 1 <sup>1</sup> / <sub>2</sub>	(41) 1½		(25) <sup>31</sup> / <sub>32</sub>	(42) 1 <sup>21</sup> / <sub>32</sub>		(10) 3/8					(43) 1 <sup>11</sup> / <sub>16</sub>		(20) <sup>25</sup> / <sub>32</sub>		(14) % <sub>16</sub>				(8) <sup>5</sup> / <sub>16</sub>	.08kg .17#	.10kg .22#
(50) 2	(52) 2 <sup>1</sup> / <sub>16</sub>		(29) 1½	(53) 2 <sup>3</sup> / <sub>32</sub>		(10) 3/8					(48) 1 <sup>7</sup> // <sub>8</sub>		(24) 15/ <sub>16</sub>		(14) % <sub>16</sub>				(10) <sup>3</sup> / <sub>8</sub>	.12kg .26#	.17kg .37#
(63) 2 <sup>1</sup> / <sub>2</sub>	(63) 2 <sup>1</sup> / <sub>2</sub>		(31) 1 <sup>7</sup> / <sub>32</sub>	(69) 2 <sup>23</sup> / <sub>32</sub>	(86) 3¾	(19) <sup>3</sup> / <sub>4</sub>	(29) 1½	(73) 2 <sup>7</sup> / <sub>8</sub>	(79) 3½	(46) 1 <sup>13</sup> / <sub>16</sub>	(55) 2 <sup>5</sup> / <sub>32</sub>	(64) 2 <sup>1</sup> / <sub>2</sub>	(23) <sup>29</sup> / <sub>32</sub>	(49) 1 <sup>15</sup> / <sub>16</sub>	(11) <sup>7</sup> / <sub>16</sub>	(4) <sup>5</sup> / <sub>32</sub>	(71) 2 <sup>3</sup> / <sub>16</sub>	(64) 2 <sup>17</sup> / <sub>32</sub>	(6) <sup>1</sup> / <sub>4</sub>	.11kg .25#	.21kg .47#
(100) 3 <sup>1</sup> / <sub>2</sub>	(100) 3 <sup>15</sup> / <sub>16</sub>	(94) 3 <sup>23</sup> / <sub>32</sub>	(31) 1 <sup>7</sup> / <sub>32</sub>	(106) 4 <sup>5</sup> / <sub>32</sub>	(133) 5 <sup>7</sup> / <sub>32</sub>	(22) <sup>7</sup> / <sub>8</sub>	(29) 1½	(106) 4 <sup>3</sup> / <sub>16</sub>	(116) 4 <sup>9</sup> / <sub>16</sub>	(46) 1 <sup>13</sup> / <sub>16</sub>	(86) 3¾	(81) 3 <sup>3</sup> / <sub>16</sub>	(86) 3 <sup>3</sup> / <sub>8</sub>	(76) 3	(11) <sup>7</sup> / <sub>16</sub>	(6) <sup>1</sup> / <sub>4</sub>	(97) 3³/ <sub>16</sub>	(101) 3 <sup>31</sup> / <sub>32</sub>	(6) 1/ <sub>4</sub>	.18kg .40#	.42kg .94#
(100) <sup>1</sup> / <sub>2</sub> NPT	(100) 3 <sup>15</sup> / <sub>16</sub>		(39) 1 <sup>17</sup> / <sub>32</sub>	(106) 4 <sup>5</sup> / <sub>32</sub>							(94) 3 <sup>11</sup> / <sub>16</sub>	(92) 3 <sup>5</sup> / <sub>8</sub>			(16) <sup>5</sup> / <sub>8</sub>				(6) <sup>1</sup> / <sub>4</sub>	.23kg .50#	.45kg .97#

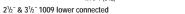
Note: Dimensions in brackets () are millimeters.

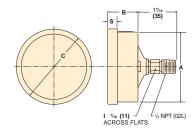
## **Dimensions**

### Ashcroft® Stainless Steel Case Pressure Gauges

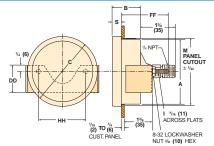
### Case Type 1009 – 2½ & 3½,



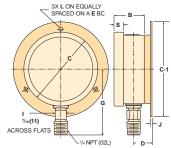




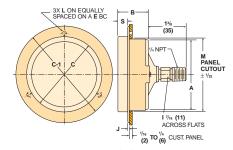
21/2" & 31/2" 1009 back connected



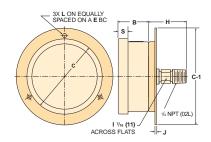
21/2" & 31/2" 1009 back connected (XUC)



21/2" & 31/2" 1009 lower connected (XFW)

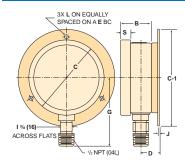


 $2^{1\!/}\!\!/_{\!2}$  " &  $3^{1\!/}\!\!/_{\!2}$  " 1009 back connected (XFF)

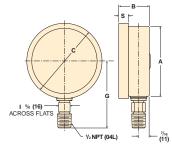


21/2" & 31/2" back connected (XFW)

### Case Type 1009 - 100mm



100mm 1009 lower connected (XFW)



100mm 1009 lower connection

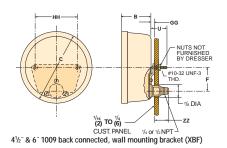
Gauge Size	А	В	С	C-1	D	DD	E	FF	G	Н	НН	1	J	L	M	S	Wei Dry	ght   LF
2 <sup>1</sup> / <sub>2</sub> (63)	2 <sup>21</sup> / <sub>32</sub> (67)	1 <sup>3</sup> / <sub>16</sub> (30)	2 <sup>7</sup> / <sub>8</sub> (73)	3 <sup>11</sup> / <sub>16</sub> (94)	<sup>3</sup> / <sub>4</sub> (19)	1½ (29)	3½ (79)	1 <sup>11</sup> / <sub>16</sub> (43)	2 <sup>%</sup> 16 (65)	1 <sup>3</sup> / <sub>32</sub> (28)	2 <sup>1</sup> / <sub>16</sub> (52)	<sup>7</sup> /16 (11)	1/1 <sub>6</sub> (2)	<sup>5</sup> / <sub>32</sub> (4)	2 <sup>11</sup> / <sub>16</sub> (68)	<sup>3</sup> / <sub>8</sub> (10)	.26# .12kg	.50# .32kg
3 <sup>1</sup> / <sub>2</sub> (100)	3 <sup>19</sup> / <sub>32</sub> (91)	1 <sup>9</sup> / <sub>32</sub> (33)	3 <sup>31</sup> / <sub>32</sub> (100)	5 <sup>7</sup> / <sub>32</sub> (133)	<sup>7</sup> / <sub>8</sub> (22)	1 <sup>1</sup> / <sub>32</sub> (26.4)	4 <sup>%</sup> 16 (106)	1 <sup>29</sup> / <sub>32</sub> (48)	3 (76)	3 (76)	2 <sup>13</sup> / <sub>32</sub> (61)	<sup>7</sup> / <sub>16</sub> (11)	<sup>5</sup> / <sub>32</sub> (4)	<sup>7</sup> / <sub>32</sub> (6)	3 <sup>21</sup> / <sub>32</sub> (93)	<sup>15</sup> / <sub>32</sub> (12)	.44# .20kg	.88# .40kg
(100)	3 <sup>19</sup> / <sub>32</sub> (91)	1 <sup>19</sup> / <sub>32</sub> (40)	3 <sup>31</sup> / <sub>32</sub> (100)	5 <sup>7</sup> / <sub>32</sub> (133)	<sup>7</sup> / <sub>8</sub> (22)		4 <sup>1</sup> / <sub>16</sub> (116)		3 <sup>11</sup> / <sub>16</sub> (94)			5⁄8 (16)	<sup>5</sup> / <sub>32</sub> (4)	<sup>7</sup> / <sub>32</sub> (6)		<sup>15</sup> / <sub>32</sub> (12)	.50# .23kg	.97# .45kg

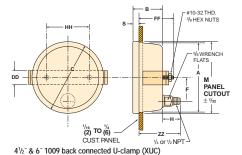
Note: Dimensions in brackets ( ) are millimeters.

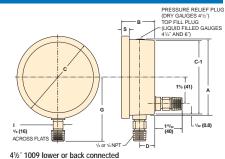
### **Dimensions**

### Ashcroft® Stainless Steel Case Pressure Gauges

### Case Type 1009 - 41/2 & 6







3X L ON EQUALLY
SPACED ON A E BC

LUCIUM FILLED GAUGES

41/2 AND 67

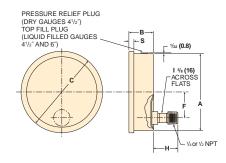
M
PANEL
CUTOUT

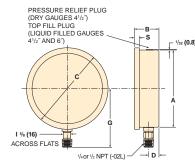
11/2 (40)

12/3 TO (6)

CUST. PANEL

ACROSS FLATS





41/2" & 6" 1009 back connected, front flange (XFF)

6" 1009 back connected

6" 1009 lower connected

Gauge Size	A	В	С	D	F	G	ı	S	Weiq Dry	•
4½ (100)	4 <sup>23</sup> / <sub>32</sub> (120)	2 <sup>1</sup> / <sub>16</sub> (52)	5 <sup>3</sup> / <sub>32</sub> (129)	<sup>15</sup> / <sub>16</sub> (24)	15% (41)	3 <sup>15</sup> / <sub>16</sub> (100)	⁵⁄8 (16)	<sup>15</sup> / <sub>32</sub> (12)	1.75# .79kg	2.40# 1.1kg
6 (160)	6 <sup>5</sup> / <sub>16</sub> (160)	2 (51)	6 <sup>21</sup> / <sub>32</sub> (169)	<sup>27</sup> / <sub>32</sub> (22)	15% (41)	4 <sup>13</sup> / <sub>16</sub> (122)	⁵⁄8 (16)	<sup>13</sup> / <sub>32</sub> (10)	2.25# 1kg	4.12# 1.85k

**XFF** 

Gauge Size	A	В	С	C-1	Е	1	J	L	М	S	Wei Dry	ght LF
4 <sup>1</sup> / <sub>2</sub> (100)	4 <sup>23</sup> / <sub>32</sub> (120)	2 <sup>1</sup> / <sub>16</sub> (52)	5 <sup>3</sup> / <sub>32</sub> (129)	6 <sup>9</sup> / <sub>32</sub> (160)	5 <sup>11</sup> / <sub>16</sub> (144)	<sup>5</sup> / <sub>8</sub> (16)	<sup>5</sup> / <sub>32</sub> (4)	<sup>7</sup> / <sub>32</sub> (6)	4 <sup>15</sup> / <sub>16</sub> (125)	<sup>15</sup> / <sub>32</sub> (12)	1.75# .79kg	2.40# 1.1kg
6 (160)	6 <sup>5</sup> / <sub>16</sub> (160)	2 (51)	6 <sup>21</sup> / <sub>32</sub> (169)	75/8 (194)	7 <sup>1</sup> / <sub>32</sub> (179)	<sup>5</sup> / <sub>8</sub> (16)	<sup>1</sup> / <sub>16</sub> (2)	<sup>1</sup> / <sub>4</sub> (6)	6 <sup>7</sup> / <sub>16</sub> (163)	<sup>13</sup> / <sub>32</sub> (10)	2.25# 1kg	4.12# 1.85k

**XBF** 

Gauge									Weight		
Size	Α	В	С	F	GG	HH	U	ZZ	Dry	LF	
4½ (100)	4 <sup>23</sup> / <sub>32</sub> (120)	2 <sup>1</sup> / <sub>16</sub> (52)	5¾ <sub>32</sub> (129)	15/8 (41)	<sup>3</sup> / <sub>16</sub> (5)	3 (76)	1 <sup>7</sup> / <sub>16</sub> (37)		1.75# .79kg		
6 (160)	6 <sup>5</sup> / <sub>16</sub> (160)	2 (51)	6 <sup>21</sup> / <sub>32</sub> (169)	15/8 (41)	<sup>3</sup> / <sub>16</sub> (5)	4 <sup>1</sup> / <sub>2</sub> (114)	1 <sup>7</sup> / <sub>16</sub> (37)	1 <sup>7</sup> / <sub>16</sub> (37)	2.25# 1kg	4.12# 1.85k	

XUC

Gauge													Weight	
Size	Α	В	С	DD	F	FF	Н	HH		M	S	ZZ	Dry	LF
4 <sup>1</sup> / <sub>2</sub> (100)	4 <sup>23</sup> / <sub>32</sub> (120)	2 <sup>1</sup> / <sub>16</sub> (52)	5 <sup>3</sup> / <sub>32</sub> (129)	1 (25)	15/8 (41)	2 <sup>5</sup> / <sub>16</sub> (59)	15/8 (41)	3 (76)	5% (16)	4 <sup>13</sup> / <sub>16</sub> (122)	<sup>15</sup> / <sub>32</sub> (12)	3 <sup>9</sup> / <sub>32</sub> (83)	1.75# .79kg	
6 (160)	6 <sup>5</sup> / <sub>16</sub> (160)	2 (51)	6 <sup>21</sup> / <sub>32</sub> (169)	1 (25)	15/8 (41)	25/8 (67)	15/8 (41)	4 <sup>1</sup> / <sub>2</sub> (114)	<sup>5</sup> / <sub>8</sub> (16)	6 <sup>7</sup> / <sub>16</sub> (163)	<sup>13</sup> / <sub>32</sub> (10)	3 <sup>3</sup> / <sub>16</sub> (81)	2.25# 1kg	4.12# 1.85k

Note: Dimensions in brackets () are millimeters.

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