NASHCROFT®



Introduction 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

10

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 — ½ NPT, ¼ NPT, ½ 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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Introduction Ashcroft[®] Stainless Steel Case Pressure Gauges



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*[™] 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[™]* movement offers superior shock, vibration and pulsation performance.
- True Zero[™] 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.

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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!*TM 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 $-2\frac{1}{2}$ and $3\frac{1}{2}$ Case Sizes

The Type 1009 Duralife[®] gauge in 2½" and 3½" 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 2½" and 3½" 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 $2\frac{1}{2}$ and $3\frac{1}{2}$ 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.

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6000

8000

9000

120

- The patented PowerFlex[™] movement offers superior shock, vibration and pulsation performance, resulting in outstanding durability.
- The True Zero[™] 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[™] 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" packaging method.

250 300 350

PSin

500

550

600

100

50

300

350

250

auto

50

200

- 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 4½" 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 gauges are available with many features that offer benefits you won't find elsewhere:

- Stainless steel case and ring for maximum resistance to corrosion.
- Adjustable micrometer pointer for field recalibration.
- Rotary geared movement for field linearity adjustment.
- Variety of bourdon tube materials to meet many different application requirements.
- Available liquid filled in lower or back connections for better performance and longer gauge life in pulsating and vibrating applications.
- Pressure ranges from vacuum through 30,000 psi.

Type 1009 shown

Other Stainless Steel Case Gauges

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 21/2" 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 $2\frac{1}{2}$ " 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 $2\frac{1}{2}$ ", $3\frac{1}{2}$ " 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



400

450

500-

550

Warranty & Movement

Duralife[®] 2¹/₂, 3¹/₂, 100mm Type 1009 gauges

The patented pressure system consists of a *PowerFlex™* 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.



Duralife C tube with *PowerFlex*[™] movement furnished with ranges to 600 psi. Helical tube with *PowerFlex*[™] movement furnished with ranges from 800 psi and above.

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









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 Fr	ont	Open Front	Open
Case Material		304 Stainles	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	round w/black markings	
Ring Type		304 Stainless St	eel Push-In	304 Stainless Steel Crimped	304 Stainless
Bourdon Tube	(Code)	316 Stainless	Steel (S)	Bronze (A)	316 Stainle
Socket Material		316 Stainles	ss Steel	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)	1/2 NPT (01)	% NPT (01) ¼ NPT (02)	¼ NPT (02)	¼ NPT (02),
Connection Location		Lower (L), B	ack (B)	Lower (L), Back (B)	Lower (L)
Mounting		Stem, Fl	ush	Stem, Flush	Stem
Movement		300 Series SS (co	onventional)	Brass (<i>PowerFlex</i> [™]) with polyester segment	300 Series SS with polyes
Pointer		Nonadjustable (Aluminum)	Nonadjustable (Aluminum)	Nonadjustabl
Window		Glass	5	Polycarbonate	Polyca
Warranty		One Ye	ar	One Year	One
Options	Code				
PLUS! [™] Performance	(LL)	N/A		N/A	Avai
Glycerin Fill	(L)	Standa	rd	Standard	Star
Silicone Fill	(GV)	N/A		Available	Avai
Halocarbon Fill	(GX)	N/A		N/A	Avai
Weatherproof, hermetic s	seal (LJ)	Availab	le	Available	Avai
U-Clamp	(UC)	Availab	le	Available	Avai
Front Flange Ring	(FF)	Availab	le	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
Polycarbonate Window	(PD)	Standard on liquid	filled gauge	Standard	Star
Shatterproof Glass	(SG)	Availab	le	N/A	N



60 60

100



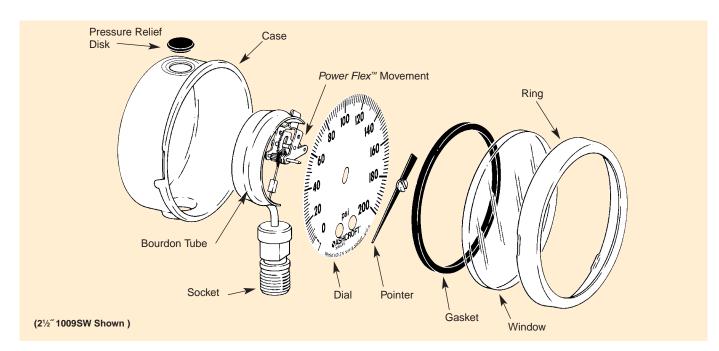




63-100mm	Ture 1000 - 01/# 01/#					
	Type 1009, 2½"-3½"	Type 1009, 100mm (XMG)	Type 1009, 4½"	Туре 1009, 6"		
ME Grade B	1% ASME Grade A	1% ASME Grade A	1% ASME Grade A	1% ASME Grade A		
Front	Open Front	Open Front	Open Front	Open Front		
ess Steel	304 Stainless Steel	304 Stainless Steel	304 Stainless 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)		
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		
2 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> [™])	400 Series SS (Conventional)	400 Series SS (Conventional)		
(Aluminum)	Adjustable (Aluminum)	Micrometer Adjustable (Aluminum)	Micrometer Adjustable (Aluminum)	Micrometer Adjustable (Aluminum)		
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 (31/2 ^r)	N/A	Available	N/A		
Ą	Available	Available	N/A	N/A		
Ą	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 fatigue failure of the bourdon tube. **Operating Conditions:**

The operating conditions to which a gauge will be subjected must be considered. If the gauge will be subjected to severe vibration or pressure pulsation, liquid filling the gauge 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 $2\frac{1}{2}$, $3\frac{1}{2}$, 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 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. 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

Media		Pressure Instrument Material						
Application	Brass or bronze	Steel	Stainless steel	Monel	Diaphragm seals*			
Acetone	٠		•	•				
Acetic Acid <40%			•					
Acetic Anhydride					•			
Acetylene (Dry)		•	•					
Acrolein 100%					•			
Air	•	•	•	•				
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	•	•	•	•				
Carbon Monoxide >99%	•	•	•	•				
Chlorine (Dry)					•			
Chlorine (Moist)					•			
Chloroform (Dry)			•	•				
Chromic Acid					•			
Citric Acid 10-50%			•					
Corn Oil			•					

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

Media	Pressure Instrumen Material					
Application	Brass or bronze	Steel	Stainless steel	Monel	Diaphragm seals*	
Crude Oil (Sour)				•		
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 1	•		•			
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					•	

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.

Applicationseg seg seg seg seg seg seg seg seg seg seg seg seg seg seg seg seg perseg seg seg seg seg perseg seg seg seg perseg seg seg seg per seg per seg seg seg varier (Flowing)seg <b< th=""><th>Media</th><th>Pres</th><th>ssure Ma</th><th>e Ins ateri</th><th></th><th>nent</th></b<>	Media	Pres	ssure Ma	e Ins ateri		nent
Oxygen (Gas) Image: Section of the symbolic condition of the symbol	Application	Brass or bronze	Steel	Stainless steel	Monel	Diaphragm seals*
Palmitic Acid >99% I I I Phosphoric Acid <80%	Oxalic Acid					•
Phosphoric Acid <80%				•	•	
Picric Acid <10%				•		
Propane (Dry) I I I Sea Water (Flowing) I I I Silver Nitrate <70%	Phosphoric Acid <80%			•		
Sea Water (Flowing) I I I Silver Nitrate <70%	Picric Acid <10%			•		
Silver Nitrate <70%	Propane (Dry)		•	•	•	
Silver Nitrate <70%	Sea Water (Flowing)				•	
Sodium Bisulfate <30%						•
Sodium Carbonate <40%IIISodium Chromate <60%	Sodium Bicarbonate <20%			•	•	
Sodium Chromate <60%•••••Sodium Cyanide••••••Sodium Hydroxide < 40%	Sodium Bisulfate <30%					•
Sodium Cyanide •	Sodium Carbonate <40%			•	•	
Sodium Hydroxide < 40%	Sodium Chromate <60%	•	•	•	•	
Sodium Hypochlorite <25% I I I Sodium Phosphate, Tri <60%	Sodium Cyanide		•	•		
Sodium Phosphate, Tri <60%	Sodium Hydroxide < 40%				•	
Sodium Silicate <50%	Sodium Hypochlorite <25%					•
Sodium Silicate <50%	Sodium Phosphate, Tri <60%		•	•	•	
Stannous Chloride <10%	Sodium Silicate <50%		•	•	•	
Steam (Use siphon) • • • • Stearic Acid I I • • Sulfur Dioxide (Dry) >99% I I I • Sulfur Trioxide (S0% I I I I Tartaric Acid <50%	Sodium Sulfide <50%					•
Stearic Acid I I I Sulfur Dioxide (Dry) >99% I I I Sulfur Trioxide (Dry) >99% I I I Sulfur Trioxide (Dry) >99% I I I Sulfur Acid I I I I Tannic Acid <80%	Stannous Chloride <10%					•
Stearic Acid I I I Sulfur Dioxide (Dry) >99% I I I Sulfur Trioxide (Dry) >99% I I I Sulfur Trioxide (Dry) >99% I I I Sulfur Acid I I I I Tannic Acid <80%	Steam (Use siphon)	•	•	•	•	
Sulfur Trioxide (Dry) >99% I I I Sulfuric Acid I I I Tannic Acid <80%	Stearic Acid			•		
Sulfuric Acid I I I I Tannic Acid <80%	Sulfur Dioxide (Dry) >99%					•
Tannic Acid <80%	Sulfur Trioxide (Dry) >99%					•
Tartaric Acid <50%	Sulfuric Acid					•
Tin Chloride (ous) <10%	Tannic Acid <80%		•	•	•	
Toluene >99% • • • • • Turpentine >98% • • • • • • Water (Tap) • • • • • • • Whiskey • • • • • • • Zinc Chloride <25%	Tartaric Acid <50%			•	•	
Toluene >99% • • • • • Turpentine >98% • • • • • • Water (Tap) • • • • • • • Whiskey • • • • • • • Zinc Chloride <25%	Tin Chloride (ous) <10%					•
Water (Tap)•••Whiskey••Zinc Chloride <25%		•	•	•	•	
Whiskey•Zinc Chloride <25%	Turpentine >98%	•	•	•	•	
Whiskey•Zinc Chloride <25%	•	•		•	•	
				•		
Zine Culmhete (100/	Zinc Chloride <25%					•
Zinc Sulphate <40%	Zinc Sulphate <40%					•

• Over 1000 psi – entire system must be 316 stainless steel. Applicable only to hydrogen.

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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

				-					
	e – Single	e Sc	-						1
	ange		Figure interval				-		
	0/15 0/30 0/60 0/100 0/100 0/300 0/400 0/600 0/600 0/1000 0/1500 0/2000 0/5000 0/5000 0/5000 0/5000 0/7500 0/10,000 0/15,000		F	1 2 2 4 5	3 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	val			0.5 0.5 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5
		ale	Scale						
				gure i	nter	val		Minor gra	aduation
R	ange		in.	-		psi		in. Hg	psi
30″ H 30″ H 30″ H 30″ H	lg/15 psi lg/30 psi lg/60 psi g/100 psi g/150 psi g/300 psi		1(1(3(3(3()))		3 5 10 20 30 50		1 2 5 15 30	0.5 0.5 1 2 5 5
Vacuum	– Single	Sca	le						
R	ange		Fi	gure i	nter	val		Minor gra	aduation
30/0	in Hg			5 i	n.			0.5	in.
Metric Si	ngle Sca	le F	Range	S					
Pressur	e – Single	Sca	ale ka/	cm². b	ar. I	Pa			
	nge	1	igure	Min		Range		Figure	Minor
kg/cm ²	bar	in	terval	grad	ls.	kPa		interval	grads.
0-1 0-2.5 0-4 0-6 0-10 0-16 0-25 0-40 0-60 0-100 0-160 0-250 0-400 0-600 0-600 0-1000	0-1 0-2.5 0-4.0 0-6 0-10 0-16 0-25 0-40 0-60 0-100 0-160 0-250 0-400 0-600 0-1000		0.2 0.2 0.5 0.5 1 2 2 5 5 5 10 20 50 50 50 00 200	0.0 0.0 0.0 0.1 0.2 0.5 0.5 1 2 2 5 5 5 10 20)2)5)5	0-100 0-160 0-250 0-400 0-1000 0-1000 0-2500 0-4000 0-4000 0-6000 0-10,000 0-40,000 0-60,000 0-60,000 0-100,00))))	20 20 50 100 200 500 500 2000 2000 2000	2 5 5 10 20 50 50 50 200 200 200 500 500 500 50

0-1600	0-1600	200	20	0-160,000	20,000	2000
Compou	ınd – Sing	le Scale k	g/cm², ba	r, kPa		
Rar	J	Figure	Minor	Range	Figure	Minor
kg/cm ²	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	– Single S	Scale kg/c	m², bar, k	Pa		
Ra	nge	Figure	Minor	Range	Figure	Minor
kg/cm ²	bar	interval	grads.	kPa	interval	grads.
-1/0	-1/0	0.2	0.02	-100/0	20	2

Metric & psi Dual Scale Ranges*

Pressure – Dual Scale									
	e Figure i	nterval	Minor ar	aduation					
Range (outer scale is psi)	kg/cm ²	psi	kg/cm ²	psi					
0/1 kg/cm ² -15 psi	0.2	3	0.02	0.5					
0/2 kg/cm ² -30 psi	0.2	5	0.02	0.5					
0/4 kg/cm ² -60 psi	1	10	0.00	1					
0/7 kg/cm ² -100 psi	1	20	0.2	2					
0/11 kg/cm ² -160 psi	2	20	0.2	2					
0/14 kg/cm ² -200 psi	2	40	0.5	5					
0/21 kg/cm ² -300 psi	5	50	0.5	5					
0/28 kg/cm ² -400 psi	5	50	0.5	5					
0/42 kg/cm ² -600 psi	10	100	1	10					
0/50 kg/cm ² -800 psi	10	200	1	20					
0/70 kg/cm ² -1000 psi	10	200	2	20					
0/105 kg/cm ² -1500 psi	20	300	2	50					
0/140 kg/cm ² -2000 psi	20	400	2	50					
0/210 kg/cm ² -3000 psi	50	500	5	50					
0/350 kg/cm ² -5000 psi	50	1000	10	100					
0/420 kg/cm ² -6000 psi	100	1000	10	100					
0/500 kg/cm ² -7500 psi	100	1000	10	100					
0/700 kg/cm ² -10,000 psi	100	2000	20	200					
0/1050 kg/cm ² -15,000 psi	200	3000	20	500					
Range	Figure i			aduation					
	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 50	0.5	5 5					
0/27 bar-400 psi	5 10	50 100	0.5 1	10					
0/40 bar-600 psi			1	20					
0/55 bar-800 psi 0/70 bar-1000 psi	10 10	200 200	2	20					
0/100 bar-1500 psi	20	300	2	20 50					
0/140 bar-2000 psi	20	400	2	50					
0/200 bar-3000 psi	50	500	5	50					
0/340 bar-5000 psi	50	1000	10	100					
0/400 bar-6000 psi	100	1000	10	100					
0/500 bar-7500 psi	100	1000	10	100					
0/700 bar-10,000 psi	100	2000	20	200					
0/1000 bar-15,000 psi	200	3000	20	500					
-	Figure i	nterval	Minor ar	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 L D	10,000	1000	1000	100					
0/40,000 kPa-6000 psi	10,000								
0/50,000 kPa-7500 psi	10,000	1000	1000	100					

*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	asurement		Figure	Minor	
inner psi	outer kg/cm ²	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	2000	30	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	
*Inner scale	e is dominan	t				

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.

Standard Single Scale Ranges

Compound								
Unite	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	easurement	Finuna	Miner	Unit of measure	Figure	Minor
kg/cm ²	bar	Figure interval	Minor graduation	kPa	Figure interval	Minor 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
/acuum						
-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

 $2^{1}\!/\!{_2}'',\,3^{1}\!/\!{_2}'',\,4^{1}\!/\!{_2}'',\,6''$ 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	5 in.		

Metric Ranges

Pressure kg/cm ² (kilograms per sg. centimeter)	bar	Figure 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	2.4	0.01	4.00/0	10	-	0.0%
-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

*Inner scale is dominant

Options Ashcroft[®] Stainless Steel Case Pressure Gauges

Lase and ng guinos Lose Comments Exernetically Societ of Wesherproof Liquid Filiable (as) Light finished dry or for liquid filiable (as) L-Clamp U.G. Suge finished dry or for liquid filiable (as) How Targe (as) Dis of to parally mounting guice. Connect any). Event Hange Will Mounting Bracket BF Includes 3: holes for parall mounting guice. Succenter: 1 Back Flags for Will Mounting PW Available on 22* and 33* 1009 how or back-connect guiges for parall mounting (includes 1: Licamp.) Methic Gauge MG Available on 22* and 33* 1009 how or back-connect guiges for parall mounting (includes 1: Licamp.) Methic Gauge MG Available on 22* and 33* 1009 how or back-connect guiges for parallel includes 1: Licamp.) Methic Gauge MG Available on 25* 1009 with a 0 for 100 motion 1000 liquid filiad pauges 30 pis 1000 pis SS Throttle Plug (veshtcor) Plash Design T0 SS path in type with a 0 for 100 motion 1000 liquid filiad guiges with ranges of 1000 path and back-ark or 6 for throne 100 liquid filiad pauges 30 pis 1000 pis SS Throttle Plug (veshtcor) Plash Design T0 Sign thin type with a 0 for 1000 minished thin throttle Plug and the agaes of 1000 parallel to and 22* 39*. 100mn 1008 guigas. Liquid filiad Gauge Without Throttle Plug WP Mota		Orala	
Locamp Locamp Locates District Strain Front Targe Ff Includes 3 brokes for parel mounting gauges (back connect only). Wall Mounting Brackel FF Includes 3 brokes for parel mounting gauges (back connect only). Wall Mounting Brackel FF Available on 2% and 3% Tooly have or back-connect. Back Flange for Wall Mounting FW Available on 2% and 3% Tooly have or back-connect. Bertoft Tlange FF Available on 2% and 3% Tooly have or back-connect. Metric Gauge MC Available on 2% and 3% Tooly have or back-connect. Start Througe (back and system assembly options Start Strain and 3% Tooly have have and 2% and 3% Tooly -files for 2%, 3% (100mn 1008, 60mm, 1008, 10mm, 1008, 10mm, 1008, and 10mm, 10	Case and ring options	Code	Comments
Front Flage FF Includes 3 holes for pranel mounting gauges (back-connect only). Vali Mounting Brackt BF Available on 4½ in 009 hower or back-connect. Back Flange for Vali Mounting FW Available on 4½ in 009 hower or back-connect. Back Flange for Vali Mounting FW Available on 4½ in 009 hower or back-connect. Back Flange for Vali Mounting FW Available on 4½ in 009 hower or back-connect. Back Flange for Vali Mounting FW Available on 4½ in 009 hower or back-connect. Back Flange for Vali Mounting FW Available on 4½ in 009 hower or back-connect. Back Flange for Vali Mounting Provides for 20% in 000 hower or back-connect. Backge State on 20% in 000 hower or back-connect. Back Flange for Vali Mounting Provides for 20% in 000 hower or back-connect. Backge State on 20% in 000 hower or back-connect. State on and system assembly options FU State on and 50 hower on 20% in 000 hower no 1000 hower on 20% in 000 howe	Hermetically Sealed or Weatherproof Liquid-Fillable Case	IJ	
Well Mounting Bracket BF Available on 4%* 1009 hower or back connect. Back Flange for Wall Mounting FM Available on 3%* 1009 hower or back connect. Back Flange for Wall Mounting FM Available on 3%* 1009 with % VPT lower connection. Gauge supplied with micrometric painter, while dail and safety glass. Back flange for Wall Mounting FM Available on 3%* 1009 with % VPT lower connection. Gauge supplied with micrometric painter, while dail and safety glass. St Thottle Plug – (restrictor) Push-in Design TU SS push-in type with a 0.03* critice for 2%, 3%*, 100mm 1009, 63mm, 100mm 1008. Throttle Plug standard on al 2%*, 3%* 1009. SS Thottle Plug (restrictor) Helical Design TS Standard on al 2%*, 3%* 1009. SS Intortle Plug (restrictor) Helical Design TS Standard on al 2%*, 3%* 1009. Glaning for Caseax Orgen 68 If gauge is liquid filled sup vity on thread in daige and sobor. Claning for Caseax Orgen 68 If gauge is liquid filled sup vity on thread with thread-in daige angent. Bilcone Fill CV Not available on 1000 only. Single stationary set-hand used to indicate a specific pressure. Bed St-Hand (Algostable) S1 Available on 1000 only. Single stationary set-hand used to indicate a specific pressure. Bed St-Hand (Kingle) S1	U-Clamp	UC	Used for panel mounting back-connect gauges.
Base Ref Rege for Wall Mounting FV/L Available on 2/s and 3/s '1009 lower or back connect gauges for pand mounting. Uncludes U-champ.) Refr Gruge Ref Available on 3/s '1009 vitw' or back connect gauge supplied with micrometer pointer, while dial and safety glass. Boundon tube and system assembly options State of a system assembly options SS Throttle Plug - (restrictor) Push-In Design TU Stap - In type with a 0.013' ortice for 2/s', 3/s', 100mm 1009, 43mm, 100mm 1008, mouth engres of 1500 gauges and aboue. 4/s', 3/s', 100mm 1009, 43mm, 100mm 1008, 100m 1108. SS Throttle Plug (restrictor) Helical Design TS Standard on all 2/s', 3/s', 100mm 1009, 40mm, frun 100m 1008, 100m 1008. Liquid Hiled Gauge Without Throttle Plug WP Required when the process may clog a throttle plug on the gauge. Liquid Hiled Gauge Without Throttle Plug WP Required when the process may clog a throttle plug on the gauge. Liquid Hiled Gauge Without Throttle Plug WP Required when the store of st	Front Flange	FF	Includes 3 holes for panel mounting gauges (back-connect only).
Retrofit Flange RF Available on 63/m and 100mm 1008 back connect gauges for panel mounting. (Includes U-clamp.) Metric Gauge MG Available on 3/m and 100mm 1008 back connect gauges for panel mounting. (Includes U-clamp.) Bourdon tube and system assembly options TU SS push-in type with a 0.013* orifice for 21//, 3/%, 100mm 1009, 63mm, 100mm 1008. Throttle plug standard on al 2/%, 3/%, 100mm 1001, 00mm 1008, 100mm 1008,	Wall Mounting Bracket	BF	Available on 41/2" 1009 lower or back-connect."
Metric Gauge MC Available on 3%'' 1009 with ½ NPT lower connection. Gauge supplied with micrometer pointer, while data and safety glass. Bourdon tube and system assembly options SS Introlle Plug – (estrictor) Push-In Design 1U SS push-In type with a 0.013' orifice for 2½', 3½'', 100mm 1009, 63mm, 100mm 1008. Throtter plug standard on al 2½', 3½'', 100mm 1009, 40mm, funu 100mm 1008 liquid filled gauges. 3D ps-1000 ps data data. 42, 42, 51. 1009, 40mm funu 1008 liquid filled gauges. 3D ps-1000 ps data data. 42, 42, 51. 1009, 40mm funu 1008 liquid filled gauges. With anges of 1300 ps and about. 42, 51. 1009, 40mm funu 1008, 40mm, funu 100mm 1008 liquid filled gauges. With anges of 1300 ps and about. 42, 51. 1009, 40mm funu 1008, 40mm, funu 100mm 40.031 orifice. Liquid filled Gauge Without Throttle Plug WP Required when the process may cdo a throttle plug on the gauge. Liquid filling options 68 If gauge is liquid filled specify Halocarbon as the fill or utilize <i>PLUSP</i> Performance (LL). Liquid filling options 51 Available on 40mm and 50mm 1008 gauges. Balcarbon Fill GV Not available on 1009 only. Single stationary set-hand used to indicate a specific pressure. Red Set-Hand (Single) SH Available on 1009 only. Double stationary set-hand used to indicate a specific pressure. Red Set-Hand (Aglicatable) EU Available on 40° and 6. 1009 only. Externally reset by a knob on outside of an acrylic window. Winfow options	Back Flange for Wall Mounting	FW	Available on 21/2" and 31/2" 1009 lower or back-connect.
while data and safety glass. while data and safety glass. Boundon Lube and system assembly cyclions V SS proteite Plog – (estrictor) Patch-in Design TU SS push-in type with a 0.013 *orfice for 2½", 3½". 100m: 1008, faith multiple glass. SS Throttle Plog – (estrictor) Patch Design TU SS push-in type with a 0.013 *orfice for 2½", 3½". 1000m. 1008, faith filed gauges 30 p3-1000 p3 Liquid Filled Gauge Without Throttle Plog TU SS and above. 44", 6 * 1009 faith and without patch and the plog and the plog and the plog of the pl	Retrofit Flange	RF	Available on 63mm and 100mm 1008 back-connect gauges for panel mounting. (Includes U-clamp.)
Bourdon Lube and system assembly options TU SS Throttle Plug – (estrictor) Push-In Design TU SS push-in type with a 0.013* orflice for 2½*, 3½*, 100mm 1008, 63mm, 100mm 1008, 100 pls SS Throttle Plug (estrictor) Push-In Design TS Standard on al 2½*, 3½*, 100mm 1009, 40mm, thru 100mm 1008 liquid filled gauges with nags of 100 pls and above. 4½*, 6 1009 truntsed with thread in design with a 0.31* orflice. Liquid filling datages Without Throttle Plug WP Required when the process may clog a throttle plug nuth a 0.31* orflice. Liquid filling options Edge without Throttle Plug WP Required when the process may clog a throttle plug nuth a 0.31* orflice. Silicone Fill GV Not available on 40mm and 50mm 1008 gauges. Halacarbon Fill Halacarbon Fill GV Not available on 1000* only. Single stationary set-hand used to indicate a specific pressure. Red Sil-Hand (Single) SH Available on 100* only. Double stationary set-hand used to indicate 2 specific pressure. Red Sil-Hand (Single) SH Available on 4%* and 6* 100* only. Externally reset by a knob on outside of an acrylic window. Minimur Pointer ED Available on 37mm 100mm 1008. and 107mm 1009 and 107mm 1009 only. XPD point pathetines -50/200*F. Viradow options PD Available on 37mm 100mm 1008. Ant 107mm 1009 only. XPD point pathetines -50/2	Metric Gauge	MG	0 11 1 1
SS Throttle Plug - (restrictor) Push-in Design TU SS push-in type with a 0.013 or frite for 2/6'; 30'; 1000m 1008, 63mm, 1000 pligad filled gauges 30 psi-1000 psi SS Throttle Plug (restrictor) Helical Design TS Standard on al 2/c; 3/c; 1007m 1008, 40mm, thru 100mm 1008 liquid filled gauges with ranges of 1500 psi and above. 4/c; 6: 1000 furnished with threadin design with a 031 or frice. Liquid Filled Gauge Without Throttle Plug WP Required when the process may clog at 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 Not available on 40mm and 50mm 1008 gauges. Bilcone Fill CV Not available on 1000 only. Single stationary set-hand used to indicate a specific pressure. Red Set-Hand (Single) SH Available on 1009 only. Double stationary set-hand used to indicate 2 specific pressure. Red Set-Hand (Double) SJ Available on 1009 only. Externally reset by a knob on outside of an acrylic window. Window options PD Available on 4/c and 6' 1009 only. Externally reset by a knob on outside of an acrylic window. Window options PD Available on 3/k' and 6' 1009 only. Arbitent temperature limits-50/200°r. Pedycarbanet Window PD Available on 3/k' 1009 with WhIP only Dry or liquid filled. Window Oxo PD Available on 2/k', 3/k' 1009 and 63mm and 100mm 1008 only. Arylic Win	Bourdon tube and system assembly options		5.5
Induct Filed Gauge Without Throttle Plug VP Required when the process may clog a throttle plug on the gauge. Liquid Filled Gauge Without Throttle Plug VP Required when the process may clog a throttle plug on the gauge. Silicone Fill GV Not available on 40mm and 50mm 1008 gauges. Silicone Fill GV Not available on 40mm and 50mm 1008. For oxidizing media. Examples: chlorine, oxygen, nitrice acid and sulfuric acid. Pointer options		TU	
Cleaning for Gaseous Dxygen 68 If gauge is liquid filled specify Halocarbon as the fill or utilize <i>PLUSI</i> Performance (LL). Liquid filling options 68 If gauge is liquid filled specify Halocarbon as the fill or utilize <i>PLUSI</i> Performance (LL). Halocarbon Fill 6V Not available on 40mm and 50mm 1008 gauges. Pointer options 68 Not available on 40mm and 50mm 1008. For oxidizing media. Examples: chlorine, oxygen, nitric acid. Red Set-Hand (Gouble) SJ Available on 1009 only. Single stationary set-hand used to indicate a specific pressure. Red Set-Hand (Adjustable) EU Available on 1009 only. Duble stationary set-hand used to indicate a specific pressure. Med Set-Hand (Adjustable) EU Available on 1009 only. Externally reset by a knob on outside of an acrylic window. Minimum Pointer ED Available on 4½r and 6 1009 only. Externally reset by a knob on outside of an acrylic window. Window options PD Amalent temperature limits -50/2701°F. 40mm, 50mm 1008 and 100mm 1009 only. Polyterproof Glass SG Not available on 32mm, 100mm 1008. Ambient temperature limits -50/2001°F. External tagging of Carton and Gauge NM Tag is bonded to gauge case and carton. Statterproof Glass SG Not available on 32m 100mm 1008. Paper Tagging of Carton and Gauge	SS Throttle Plug (restrictor) Helical Design	TS	, , , ,
Liquid filling options GV Not available on 40mm and 50mm 1008 gauges. Silicore Fill GX Not available on 40mm and 50mm 1008. For oxidizing media. Examples: chlorine, oxygen, nitric acid and sulturic acid. Pointer options Examples: chlorine, oxygen, nitric acid and sulturic acid. Red Set Hand (Single) SH Available on 1009 only. Single stationary set-hand used to indicate a specific pressure. Red Set Hand (Adjustable) EU Available on 1009 only. Double stationary set-hand used to indicate a specific pressures. Red Set Hand (Adjustable) EU Available on 1009 only. Externally reset by a knob on outside of an acrylic window. Maximum Pointer ED Available on 4½° and 6 1009 only. Externally reset by a knob on outside of an acrylic window. Window options PD Available on 4½° and 6 1009 only. Externally reset by a knob on outside of an acrylic window. Window options PD Available on 2½°, 3½° 1009 and 63mm and 100mm 1009 only. XPD standard on 2½°, 3½° 1009 and 63mm and 100mm 1008. Acrylic Window PD Available on 3½° 1009 only. Externally reset by a knob on outside of an acrylic window. Marking and tagging options DD Available on 3½° 1009 only. Externally reset by a knob on outside of an acrylic window. Marking and fagging options DD Available on 3½° 1009 only. Externally reset by a knob on ou	Liquid Filled Gauge Without Throttle Plug	WP	Required when the process may clog a throttle plug on the gauge.
Liquid filling options GV Not available on 40mm and 50mm 1008 gauges. Silicore Fill GX Not available on 40mm and 50mm 1008. For oxidizing media. Examples: chlorine, oxygen, nitric acid and sulturic acid. Pointer options Examples: chlorine, oxygen, nitric acid and sulturic acid. Red Set Hand (Single) SH Available on 1009 only. Single stationary set-hand used to indicate a specific pressure. Red Set Hand (Adjustable) EU Available on 1009 only. Double stationary set-hand used to indicate a specific pressures. Red Set Hand (Adjustable) EU Available on 1009 only. Externally reset by a knob on outside of an acrylic window. Maximum Pointer ED Available on 4½° and 6 1009 only. Externally reset by a knob on outside of an acrylic window. Window options PD Available on 4½° and 6 1009 only. Externally reset by a knob on outside of an acrylic window. Window options PD Available on 2½°, 3½° 1009 and 63mm and 100mm 1009 only. XPD standard on 2½°, 3½° 1009 and 63mm and 100mm 1008. Acrylic Window PD Available on 3½° 1009 only. Externally reset by a knob on outside of an acrylic window. Marking and tagging options DD Available on 3½° 1009 only. Externally reset by a knob on outside of an acrylic window. Marking and fagging options DD Available on 3½° 1009 only. Externally reset by a knob on ou	Cleaning for Gaseous Oxygen	6B	
Halocarbon Fill GX Not available on 40mm and 50mm 1008. For oxidizing media. Examples: chlorine, oxygen, nitric acid and suffuric acid. Ped Set-Hand (Single) SH Available on 1009 only. Single stationary set-hand used to indicate a specific pressure. Red Set-Hand (Adjustable) EUL Available on 1009 only. Double stationary set-hand used to indicate 2 specific pressure. Red Set-Hand (Adjustable) EUL Available on 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 Available on 4½° and 6° 1009 only. Externally reset by a knob on outside of an acrylic window. PDixarbonate Window PD Ambient temperature limits -50/270°F. 40mm, 50mm 1008 and 100mm 1009 only. Acrylic Window PD Athient temperature limits -50/270°F. 40mm, 50mm 1008 and 100mm 1009 only. Araylic Window PD Athient temperature limits -50/270°F. 40mm, 50mm 1008. Araylic Window PD Athient temperature limits -50/270°F. 40mm, 50mm 1008. Araylic Window PD Available on 32m, 100mm 1008. Araylic Bio and Casy Zero™) EA Available on 32m, 100mm 1008. Araylic Bio and Eaging options EA Available on 32m, 100mm 100			
Pointer options acid and sulfuric acid. Pediter options Pointer options Red Set-Hand (Single) SH Available on 1009 only. Single stationary set-hand used to indicate a specific pressures. Red Set-Hand (Adjustable) EU Available on 1009 only. Double stationary set-hand used to indicate 2 specific pressures. Maximum Pointer 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 PD Ambient temperature limits -50/270°F. 40mm, 50mm 1008 and 100mm 1009 only. XPD standard on 2½, 3½ 1009 and 6 3mm and 100mm 1008. Acrylic Window PD At/a and 6° 1009 only. Ambient temperature limits -50/180°F. Shatterproof Class SG Not available on 37m. 100mm 1008. Ambient temperature limits -50/200°F. External Zero Adjustable Pointer (Easy Zero ^M) EA Available in 3½ 1009 with ½ 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. Statiets steel Tagging of Gauge Case Catibration options CD-1 Conformance CD-1 C		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 (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. Eternally 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 Arreliable on 4½° and 6° 1009 only. Externally reset by a knob on outside of an acrylic window. Vindow options PD Available on 4½° and 6° 1009 only. Externally reset by a knob on outside of an acrylic window. Acrylic Window PD Af* and 6° 1009 only. Ambient temperature limits -50/200°F. Shatterproof Glass SG Not available on 63mm, 100mm 1008. Ambient temperature limits -50/200°F. External Zero Adjustable Pointer (Easy Zero ^{av}) EA Available in 3½° 1009 with ¼ NPT only. Dry or liquid filled. Marking and tagging options DA Service marking printed on dial. Paper Tagging of Carton and Gauge NN Jainless Steel Tagging of Gauge Case NH 300 series stainless steel tag is wired to gauge case. Califaction of the filled califaction far Cettificate of Conformance CD-1 Conformance to specifications and/or drawings. Conformance to specifications and/or drawings.	Halocarbon Fill	GX	
Red Set-Hand (Double) S.J Available on 1009 only. Double stationary set-hand used to indicate 2 specific pressures. Red Set-Hand (Adjustable) EU Available on 1009 only. 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 EQ Available on 4½ and 6° 1009 only. Externally reset by a knob on outside of an acrylic window. Window options PD Available on 4½ and 6° 1009 only. Externally reset by a knob on outside of an acrylic window. Acrylic Window PD Arabient temperature limits -50/270°F. 40mm, 50mm 1008 and 100mm 1009 only. Acrylic Window PD 4½ and 6° 1009 only. Ambient temperature limits -50/200°F. Statienzor 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 Cauge Case Ostimus Stainless Steel Tagging of Gauge Case NH 300 series stainless steel tag is wired to gauge case. Catibration options Accuracy 0.5% full scale AN 4½ and 6° 1009 only. Service marking printed on dial. Catib	Pointer options		
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. Minimum Pointer EO Available on 4½' and 6' 1009 only. Externally reset by a knob on outside of an acrylic window. Mindow options EO Available on 4½' and 6' 1009 only. Externally reset by a knob on outside of an acrylic window. 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 Arabient temperature limits -50/270'F. 40mm, 50mm 1008 and 100mm 1008. 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 ¼ NPT only. Dry or liquid filled. Marking and tagging options DA Service marking printed on dial. Paper Tagging of Carlon and Gauge NN Test and certificate options - Carlibration options Carlibration options Carlibration Carlibra		SH	Available on 1009 only. Single stationary set-hand used to indicate a specific pressure.
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. 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 6 3mm and 100mm 1008. Acrylic Window PD 4½' and 6 1009 only. Ambient temperature limits -50/180°F. Shatterproof Glass SG Not available on 3½'', 3½'' 1009 and 6 3mm and 100mm 1008. Shatterproof Glass SG Not available on 3½'', 3½'' 1009 and 6 3mm and 100mm 1008. Marking and tagging options EX Available in 3½'' 1009 with ½ NPT only. Dry or liquid filled. Marking options EX EX Available in 3½'' 1009 with ½ NPT only. Dry or liquid filled. Marking options EX EX EX EX Dial Marking DA Service marking printed on dial. EX EX Paper Tagging of Cauge Case NH 300 series stainless steel tag is wired to gauge case. Calibration options Calibration options EX EX EX EX EX Certificate of Conformance CD-1 Conformance to specifications and/or drawings. EX	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 EQ Available on 4½* and 6* 1009 only. Externally reset by a knob on outside of an acrylic window. Window options PD Available on 4½* and 6* 1009 only. Externally reset by a knob on outside of an acrylic window. 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 4/* 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 Image and tagging options Image and tagging of Carton and Gauge NN Tag is bonded to gauge case locatorin. Staternalt zero Adjustable for 300 series stainless steel tag is wired to gauge case. Catibration options Image and tagging of Gauge Case NH 300 series stainless faultes and/or drawings. Image and tagging of Carton and Gauge NN 4½* and 6* 1009 only. Catibration options Image and transmance CD-1 Conformance to specifications and/or drawings. Image and tagging o		EU	
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Window options PD Polycarbonate Window PD Arcylic Window PD Acrylic Window PD Shatterproof Glass SG Shatterproof Glass SG Shatterproof Glass SG Not available on 63mm, 100mm 1008. Ambient temperature limits -50/180°F. External Zero Adjustable Pointer (Easy Zero™) EA Available in 3½° 1009 with ¼ NPT only. Dry or liquid filled. 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 Accuracy 0.5% full scale AN Actiate of Conformance CD-1 Conformance CD-1 Conformance to specifications and/or drawings. Individual Certified Calibration Chart CD-4 Special connection options Vi/* and 6 0000SW. SAE ½% and 2	Minimum Pointer	EQ	
Acrylic WindowPD4½° and 6' 1009 only. Ambient temperature limits -50/180°F.Shatterproof GlassSGNot available on 63mm, 100mm 1008. Ambient temperature limits -50/200°F.External Zero Adjustable Pointer (Easy Zero™)KAAvailable in 3½° 1009 with ¼ NPT only. Dry or liquid filled.Marking and tagging optionsDAService 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 optionsAdvalable on 100 only.Test and certificate optionsCD-1ConformanceCD-1ConformanceCD-1ConformanceCD-1Special connection optionsSAE ½% and 20 straight threadRWNo tavailable on 2½°, 3½° 1009SW.SAE ½% and 20 straight threadRW½% straight JIS, BSPKJ¼° straight JIS, BSPKA¼° straight JIS, BSPKA¼° tapered JIS, BSPKA¼° tapered JIS, BSPKR¾° tapered JIS, BSPKQ¾° tapered JIS, BSPKQ¾° tapered JIS, BSPKQ¾° tapered JIS, BSPKR¾° tapered JIS, BSPK	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 ¼ 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 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 CD-1 Conformance to specifications and/or drawings. Individual Certified Calibration Chart CD-1 Conformance to specifications and/or drawings. Individual Certified Calibration Chart CD-4 Special connection options % NPT 01 Available on 2½°, 3½° 1009SW. SAE 7№° 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 ¼° straight JIS, BSP KA Not available on 40mm, 50mm 1008 ¼° straight JIS, BSP KA Not available on	Polycarbonate Window	PD	
External Zero Adjustable Pointer (Easy Zero TM) EA Available in 3½ 1009 with ¼ 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 NH 300 series stainless steel tag is wired to gauge case. Calibration options A 4½ and 6* 1009 only. Test and certificate options Conformance CD-1 Conformance CD-1 Conformance to specifications and/or drawings. Individual Certified Calibration Chart CD-4 Special connection options Valiable on 2½*, 3½* 1009SW. SAE T _h ^{**} and 20 straight thread RW Not available on 40mm, 50mm 1008 Valiable on 40mm, 50mm 1008 Valiable on 40mm, 50mm 1008 Valiable on 40mm, 50mm 1008 Valiable on 40mm, 50mm 1008 Valiable on 40mm, 50mm 1008 Valiable on 40mm, 50mm 1008 Valiable on 40mm, 50mm 1008 Valiable on 40mm, 50mm 1008 Valiable on 40mm, 50mm 1008 Valiable on 40mm, 50mm 1008 Valiable on 40mm, 50mm 1008 Valiable on 40mm, 50mm 1008 Valiable on 40mm, 50mm 1008 Valiable on 40mm, 50mm 1008	Acrylic Window	PD	41/2" and 6" 1009 only. Ambient temperature limits –50/180°F.
Marking and tagging options DA Service marking printed on dial. 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	Shatterproof Glass	SG	Not available on 63mm, 100mm 1008. Ambient temperature limits –50/200°F.
Dial 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-1ConformanceCD-1ConformanceCD-1Special connection optionsVa NPTO1Available on 2½", 3½" 1009SW.SAE 7/he" and 20 straight threadRWNot available on 40mm, 50mm 1008½" straight JIS, BSPKJKANot available on 40mm, 50mm 1008½" straight JIS, BSPKAKANot available on 40mm, 50mm 1008½" straight JIS, BSPKN¾" straight JIS, BSPKN½" straight JIS, BSPKN½" tapered JIS, BSPKR¾" straight JIS, BSPKR¾" straight JIS, BSP <td>External Zero Adjustable Pointer (Easy Zero™)</td> <td>EA</td> <td>Available in 31/2" 1009 with 1/4 NPT only. Dry or liquid filled.</td>	External Zero Adjustable Pointer (Easy Zero™)	EA	Available in 31/2" 1009 with 1/4 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. Calibration options Accuracy 0.5% full scale AN 4½ and 6 "1009 only. Test and certificate options Certificate options Certificate options Certificate of Conformance CD-1 Conformance to specifications and/or drawings. Individual Certified Calibration Chart CD-4 Special connection options V/2," 31/2," 1009SW. SAE 7/6," and 20 straight thread RW Not available on 21/2,", 31/2," 1009SW. SAE 7/6," and 20 UNF-3A 37° Flare EJ Not available on 40mm, 50mm 1008 1/4," tapered JIS, BSP KJ Not available on 40mm, 50mm 1008 1/4," tapered JIS, BSP KA Not available on 40mm, 50mm 1008 1/4," tapered JIS, BSP KN 31/2," 100mm 1009SW lower connection only 1/4," tapered JIS, BSP KN 31/2," 100mm 1009SW lower connection only 1/4," tapered JIS, BSP KN 31/2," 100mm 1009SW lower connection only 1/4," tapered JIS, BSP KR 31/2," 100mm 1009SW lower connection only 1/4," tapered JIS, BSP KR	Marking and tagging options		
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 options½ NPT01Available on 2½", 3½" 1009SW.SAE 7/6" and 20 straight threadRWNot available on 40mm, 50mm 1008½" straight JIS, BSPKJNot available on 40mm, 50mm 1008¼" tapered JIS, BSPKANot available on 40mm, 50mm 1008½" straight JIS, BSPKN3½", 100mm 1009SW lower connection only½" straight JIS, BSPKN3½", 100mm 1009SW lower connection only½" straight JIS, BSPKN3½", 100mm 1009SW lower connection only½" tapered JIS, BSPKR3½", 100mm 1009SW lower connection only½" tapered JIS, BSPKQ3½", 100mm 1009SW lower connection only½" tapered JIS, BSPKQ3½", 100mm 1009SW lower connection only	Dial Marking	DA	Service marking printed on dial.
Calibration optionsAccuracy 0.5% full scaleAN4½" and 6" 1009 only.Test and certificate optionsCertificate of ConformanceCD-1ConformanceCD-1Individual Certified Calibration ChartCD-4Special connection options½ NPT01Available on 2½", 3½" 1009SW.SAE ½" and 20 straight threadRWNot available on 40mm, 50mm 1008½" straight JIS, BSPKJ¼" straight JIS, BSPKA¼" straight JIS, BSPKA½" straight JIS, BSPKN3½" 100mm 1009SW lower connection only½" straight JIS, BSPKN3½" 100mm 1009SW lower connection only½" straight JIS, BSPKN3½" 100mm 1009SW lower connection only½" tapered JIS, BSPKR3½" 100mm 1009SW lower connection only½" tapered JIS, BSPKQ3½" 100mm 1009SW lower connection only½" tapered JIS, BSPKQ3½" 100mm 1009SW lower connection only½" tapered JIS, BSPKQ3½" 100mm 1009SW lower connection only	Paper Tagging of Carton and Gauge	NN	Tag is bonded to gauge case and carton.
Accuracy 0.5% full scaleAN4½" and 6" 1009 only.Test and certificate optionsCD-1Conformance to specifications and/or drawings.Individual Certified Calibration ChartCD-4Special connection optionsCD-4½ NPT01Available on 2½", 3½" 1009SW.SAE 7/6" and 20 straight threadRWNot available on 40mm, 50mm 10087/6" and 20 UNF-3A 37° FlareEJNot available on 40mm, 50mm 1008½" straight JIS, BSPKJNot available on 40mm, 50mm 1008%" straight JIS, BSPKANot available on 40mm, 50mm 1008%" straight JIS, BSPKP3½", 100mm 1009SW lower connection only½" straight JIS, BSPKR3½", 100mm 1009SW lower connection only½" tapered JIS, BSPKQ3½", 100mm 1009SW lower connection only½" tapered JIS, BSPKQ3½", 100mm 1009SW lower connection only½" tapered JIS, BSPKQ3½", 100mm 1009SW lower connection only	Stainless Steel Tagging of Gauge Case	NH	300 series stainless steel tag is wired to gauge case.
Test and certificate optionsCertificate of ConformanceCD-1Conformance to specifications and/or drawings.Individual Certified Calibration ChartCD-4Special connection options½ NPT01Available on 2½″, 3½″ 1009SW.SAE 7/16″ and 20 straight threadRWNot available on 40mm, 50mm 10087/16″ and 20 UNF-3A 37° FlareEJNot available on 40mm, 50mm 1008½″ straight JIS, BSPKJNot available on 40mm, 50mm 1008½″ tapered JIS, BSPKANot available on 40mm, 50mm 1008½″ straight JIS, BSPKP3½″, 100mm 1009SW lower connection only½″ straight JIS, BSPKN3½″, 100mm 1009SW lower connection only½″ tapered JIS, BSPKR3½″, 100mm 1009SW lower connection only½″ tapered JIS, BSPKQ3½″, 100mm 1009SW lower connection only	Calibration options		
Certificate of ConformanceCD-1Conformance to specifications and/or drawings.Individual Certified Calibration ChartCD-4Special connection options½ NPT01Available on 2½,", 3½," 1009SW.SAE 7/16" and 20 straight threadRWNot available on 40mm, 50mm 1008.7/16" and 20 UNF-3A 37° FlareEJNot available on 40mm, 50mm 1008½" straight JIS, BSPKJNot available on 40mm, 50mm 1008½" tapered JIS, BSPKANot available on 40mm, 50mm 1008½" straight JIS, BSPKP3½," 100mm 1009SW lower connection only½" straight JIS, BSPKN3½," 100mm 1009SW lower connection only½" tapered JIS, BSPKR3½," 100mm 1009SW lower connection only	Accuracy 0.5% full scale	AN	41/2" and 6" 1009 only.
Individual Certified Calibration ChartCD-4Special connection options01Available on 2½,", 3½," 1009SW.% NPT01Available on 2½,", 3½," 1009SW.SAE 7/16" and 20 straight threadRWNot available on 40mm, 50mm 1008.7/16" and 20 UNF-3A 37° FlareEJNot available on 40mm, 50mm 10081/4" straight JIS, BSPKJNot available on 40mm, 50mm 10081/4" straight JIS, BSPKANot available on 40mm, 50mm 10081/4" straight JIS, BSPKR3½," 100mm 1009SW lower connection only1/4" straight JIS, BSPKN3½," 100mm 1009SW lower connection only1/4" straight JIS, BSPKR3½," 100mm 1009SW lower connection only1/4" straight JIS, BSPKR3½," 100mm 1009SW lower connection only1/4" tapered JIS, BSPKR3½," 100mm 1009SW lower connection only1/4" tapered JIS, BSPKQ3½," 100mm 1009SW lower connection only	Test and certificate options		
Special connection options½ NPT01Available on 2½", 3½" 1009SW.SAE 7/16" and 20 straight threadRWNot available on 40mm, 50mm 10087/16" and 20 UNF-3A 37° FlareEJNot available on 40mm, 50mm 10081/16" straight JIS, BSPKJNot available on 40mm, 50mm 10081/4" tapered JIS, BSPKANot available on 40mm, 50mm 10083/6" straight JIS, BSPKANot available on 40mm, 50mm 10083/6" straight JIS, BSPKANot available on 40mm, 50mm 10083/6" straight JIS, BSPKP3½", 100mm 1009SW lower connection only3/6" straight JIS, BSPKN3½", 100mm 1009SW lower connection only3/6" tapered JIS, BSPKR3½", 100mm 1009SW lower connection only3/6" tapered JIS, BSPKQ3½", 100mm 1009SW lower connection only	Certificate of Conformance	CD-1	Conformance to specifications and/or drawings.
½ NPT01Available on 2½", 3½" 1009SW.SAE 7/16" and 20 straight threadRWNot available on 40mm, 50mm 1008.7/16" and 20 UNF-3A 37° FlareEJNot available on 40mm, 50mm 1008¼" straight JIS, BSPKJNot available on 40mm, 50mm 1008¼" tapered JIS, BSPKANot available on 40mm, 50mm 1008%" straight JIS, BSPKP3½," 100mm 1009SW lower connection only½" straight JIS, BSPKR3½," 100mm 1009SW lower connection only½" tapered JIS, BSPKR3½," 100mm 1009SW lower connection only½" tapered JIS, BSPKQ3½," 100mm 1009SW lower connection only	Individual Certified Calibration Chart	CD-4	
SAE 7/16" and 20 straight threadRWNot available on 40mm, 50mm 1008. 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 10081/4" straight JIS, BSPKANot available on 40mm, 50mm 10081/4" straight JIS, BSPKANot available on 40mm, 50mm 10081/4" straight JIS, BSPKP31/2," 100mm 1009SW lower connection only1/4" straight JIS, BSPKN31/2," 100mm 1009SW lower connection only1/4" tapered JIS, BSPKR31/2," 100mm 1009SW lower connection only1/4" tapered JIS, BSPKR31/2," 100mm 1009SW lower connection only1/4" tapered JIS, BSPKQ31/2," 100mm 1009SW lower connection only	Special connection options		
v_{h6} " and 20 UNF-3A 37° FlareEJNot available on 40mm, 50mm 1008 V_h " straight JIS, BSPKJNot available on 40mm, 50mm 1008 V_h " tapered JIS, BSPKANot available on 40mm, 50mm 1008 V_h " straight JIS, BSPKP $3V_2$ " 100mm 1009SW lower connection only V_h " straight JIS, BSPKN $3V_2$ " 100mm 1009SW lower connection only V_h " tapered JIS, BSPKR $3V_2$ " 100mm 1009SW lower connection only V_h " tapered JIS, BSPKR $3V_2$ " 100mm 1009SW lower connection only V_h " tapered JIS, BSPKQ $3V_2$ " 100mm 1009SW lower connection only	1/8 NPT	01	Available on 21/2", 31/2" 1009SW.
¼″ straight JIS, BSPKJNot available on 40mm, 50mm 1008¼″ tapered JIS, BSPKANot available on 40mm, 50mm 1008¾″ straight JIS, BSPKP3½″ 100mm 1009SW lower connection only½″ straight JIS, BSPKN3½″ 100mm 1009SW lower connection only½″ straight JIS, BSPKR3½″ 100mm 1009SW lower connection only¾″ tapered JIS, BSPKR3½″ 100mm 1009SW lower connection only½″ tapered JIS, BSPKQ3½″ 100mm 1009SW lower connection only	SAE 7/16" and 20 straight thread	RW	Not available on 40mm, 50mm 1008
¼" tapered JIS, BSP KA Not available on 40mm, 50mm 1008 %" straight JIS, BSP KP 3½," 100mm 1009SW lower connection only ½" straight JIS, BSP KN 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	. 7/16" and 20 UNF-3A 37° Flare	EJ	Not available on 40mm, 50mm 1008
%r straight JIS, BSP KP 3½," 100mm 1009SW lower connection only ½r straight JIS, BSP KN 3½," 100mm 1009SW lower connection only %r stapered JIS, BSP KR 3½," 100mm 1009SW lower connection only ½r tapered JIS, BSP KQ 3½," 100mm 1009SW lower connection only	1/4" straight JIS, BSP	КJ	Not available on 40mm, 50mm 1008
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	1/4" tapered JIS, BSP	KA	Not available on 40mm, 50mm 1008
3/6" tapered JIS, BSP KR 31/2," 100mm 1009SW lower connection only 1/2" tapered JIS, BSP KQ 31/2," 100mm 1009SW lower connection only	%" straight JIS, BSP	KP	3 ¹ / ₂ ," 100mm 1009SW lower connection only
½" tapered JIS, BSP KQ 3½," 100mm 1009SW lower connection only	1/2" straight JIS, BSP	KN	3 ¹ / ₂ ," 100mm 1009SW lower connection only
	%" tapered JIS, BSP	KR	3 ¹ / ₂ ," 100mm 1009SW lower connection only
G ¼" DIN 13 Not available on 40mm, 50mm 1008	1/2" tapered JIS, BSP	KQ	3 ¹ / ₂ ," 100mm 1009SW lower connection only
	G ¼″ DIN	13	Not available on 40mm, 50mm 1008

15

How to Order

Ashcroft[®] Stainless Steel Case Pressure

Table A – Ca	ase selection	n and mountir	ig							
Dial Size	Ordering Code	Case Type	Case: Finish & Material	Ring: Style, Finish & Material	M	ounting/Connection				
21/2", 31/2"	(25) (35)	1009	Polished 304 SS	Bayonet, Lock ring	St	em – Lower or back				
100mm	(10)	1009	Polished 304 SS	Polished 304 SS		Irface – Lower or back Jush – Back: specify t				
4 ¹ /2 [~] , 6 [~]	(45) (60)	1009	Polished 304 SS	Bayonet, Lock ring Polished 304 SS	Su	em – Lower or back Irface – Lower or back Jsh – Back: specify	, wall mount	bracket (BF) FF) or U-clamp (UC)		
40mm, 50mi	m (40) (50)	1008	Polished 304 SS	Push-In, Polished 304 SS		item – Lower or back lush – Back: specify front flange (FF) or U-clamp (UC				
63mm 100m	m (63) (10)	1008	304 SS	Crimped 304 SS		em – Lower or back ush – Back: specify retrofit flange	front flange (F	FF), U-clamp (UC) or		
Table B – S	/stem, conn	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 Selection Limits (psi)		
(2 ¹ /2", 3 ¹ /2"		(AW)	Welded 316 SS t	ube, bronze socket		(02) ¹ / ₄ std.		Vac/1000		
100mm)		(SW)	Welded 316 SS	S tube and socket		(04) ¹ / ₂ opt. ⁽¹⁾		Vac/15,000		
	1009	(A)		bronze tube, brass tip d brass socket			<i></i>	Vac/1000		
(4½″, 6″)		(B)	4130 alloy steel tul	be, 1019 steel socket		(02) ¼ std. (04) ½ opt.	(L) lower (B) back	Vac/5000		
		(R)	316 SS tube, 1	019 steel socket		(04) /2 Opt.		Vac/20,000		
		(S)	316 SS tub	e and socket				Vac/20,000		
(40/50mm)		(S)	316 SS tub	e and socket		(01) ¹ / ₈ std., 40mm ⁽²⁾ (02) ¹ / ₄ std., 50mm		Vac/15,000		
	1008	(A)	Phosphor bronze tube	e, brass socket, soldered	ss socket, soldered		d (02) ¼ std.			Vac/6000
(63/100mm)		(S)	Welded 316 SS	S tube and socket		(02) ¹ / ₄ std. (04) ¹ / ₂ opt. ⁽¹⁾		Vac/15,000		

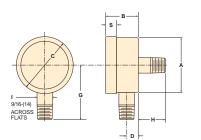
NOTES:

(1) 3¹/₂"/100mm 1009SW, 100mm 1008S lower connect only
(2) Not available with ¹/₄ NPT

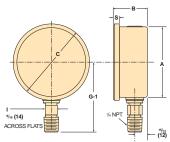
Select:	25	1009	SWL	02L	XGV	160 psi
1. Dial size – 2 ¹ /2"						
2. Case type – 1009						
3. Bourdon tube and socket 316SS						
4. Connection – 1/4 NPT Lower						
5. Optional features – Silicone filled						
6. Pressure range (see range tables on pages 12	through 14)					

Dimensions Ashcroft[®] Stainless Steel Case Pressure Gauges

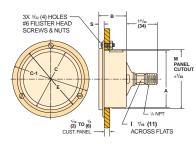
Case Type 1008 – 40mm & 50mm



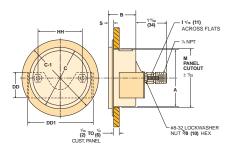
40/50mm lower and back connection



63/100mm 1008S/SL lower connection

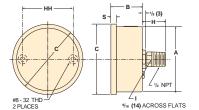


63/100mm 1008S/SL back connection (XFF) Front Flange

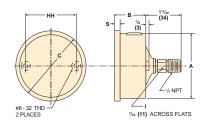


63/100mm 1008S/SL back connection (XRF) Retrofit Front Flange

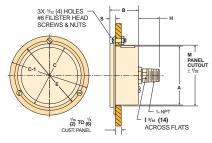
Case Type 1008 – 63mm & 100mm



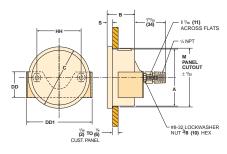
63/100mm 1008A/AL back connection



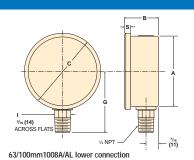
63/100mm 1008S/SL back connection

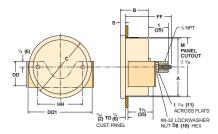


63/100mm 1008A/AL back connection (XFF) Front Flange

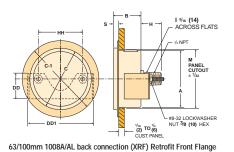


63/100mm 1008S back connection (XUC) U-clamp

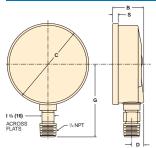




63/100mm 1008A/AL back connection (XUC) U-clamp



Case Type 1008S - 100mm with ½ NPT

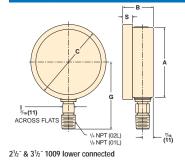


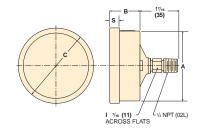
100mm 1008S/SL lower connection

Gauge																				We	eight
Size	Α	A-1	В	С	C-1	D	DD	DD1	E	FF	G	G-1	Н	HH	I	J	L	М	S	Dry	LF
(40) 1 ¹ / ₂	(41) 1%		(25) ³¹ / ₃₂	(42) 1 ²¹ / ₃₂		(10) ¾					(43) 1 ¹¹ /16		(20) ²⁵ / ₃₂		(14) %16				(8) ⁵ /16	.08kg .17#	.10kg .22#
(50) 2	(52) 2 ¹ / ₁₆		(29) 1 ¹ ⁄/8	(53) 2 ³ / ₃₂		(10) ¾					(48) 1 ⁷ /8		(24) ¹⁵ / ₁₆		(14) %16				(10) ³⁄8	.12kg .26#	.17kg .37#
(63) 2 ¹ / ₂	(63) 2 ¹ / ₂		(31) 1 ⁷ / ₃₂	(69) 2 ²³ / ₃₂	(86) 3¾	(19) ¾	(29) 11⁄8	(73) 2 ⁷ /8	(79) 3 ¹ /8	(46) 1 ¹³ /16	(55) 2 ⁵ / ₃₂	(64) 2 ¹ /2	(23) ²⁹ / ₃₂	(49) 1 ¹⁵ /16	(11) ⁷ / ₁₆	(4) ⁵ / ₃₂	(71) 2³/16	(64) 2 ¹⁷ / ₃₂	(6) 1/4	.11kg .25#	.21kg .47#
(100) 3 ¹ / ₂	(100) 3 ¹⁵ /16	(94) 3 ²³ / ₃₂	(31) 1 ⁷ / ₃₂	(106) 4 ⁵ / ₃₂	(133) 5 ⁷ / ₃₂	(22) ⁷ /8	(29) 11⁄8	(106) 4 ³ / ₁₆	(116) 4%16	(46) 1 ¹³ /16	(86) 3 ³ /8	(81) 3³⁄16	(86) 3¾	(76) 3	(11) ⁷ / ₁₆	(6) 1/4	(97) 3³/16	(101) 3 ³¹ / ₃₂	(6) 1/4	.18kg .40#	.42kg .94#
(100) ¹ / ₂ NPT			(39) 1 ¹⁷ / ₃₂	(106) 4 ⁵ / ₃₂							(94) 3 ¹¹ / ₁₆	(92) 3 ⁵ /8			(16) ⁵ /8				(6) ¹/₄	.23kg .50#	.45kg .97#

Note: Dimensions in brackets () are millimeters.

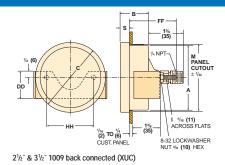
Case Type 1009 – 2½ & 3½,



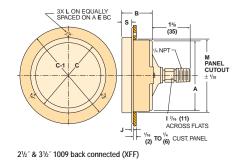


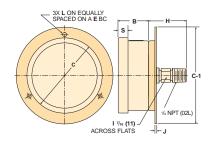
18

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



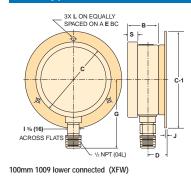
^{3X} L ON EQUALLY SPACED ON A E BC , yaquin ACROSS FLATS 2½" & 3½" 1009 lower connected (XFW)

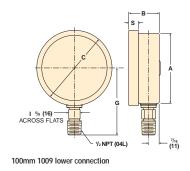




21/2" & 31/2" back connected (XFW)

Case Type 1009 – 100mm

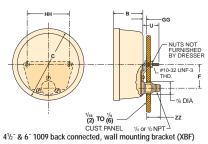


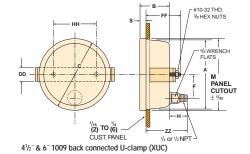


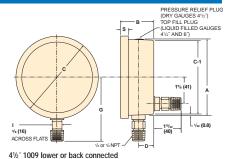
Gauge Size	А	В	С	C-1	D	DD	Е	FF	G	н	нн	Т	J	L	М	S	Wei Dry	ght LF
2 ¹ /2	2 ²¹ / ₃₂	1³/ ₁₆	2 ⁷ /8	3 ¹¹ / ₁₆	³ / ₄	11/8	31/8	1 ¹¹ / ₁₆	2%16	1³/ ₃₂	2 ¹ /16	⁷ /16	¹ ⁄16	⁵ / ₃₂	2 ¹¹ / ₁₆	³ /8	.26#	.50#
(63)	(67)	(30)	(73)	(94)	(19)	(29)	(79)	(43)	(65)	(28)	(52)	(11)	(2)	(4)	(68)	(10)	.12kg	.32kg
3½	3 ¹⁹ / ₃₂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

Note: Dimensions in brackets () are millimeters.

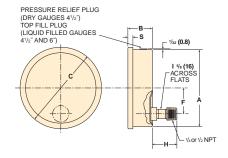
Case Type 1009 – 41/2 & 6



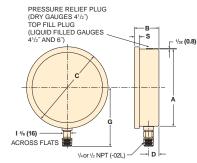




-B PRESSURE RELIEF PLUG (DRY GAUGES 4¹/₂") -TOP FILL PLUG (LIQUID FILLED GAUGES 4¹/₂" AND 6")____ ≁|⊷J 3X L ON EQUALLY SPACED ON A E BC s M PANEL CUTOUT - 119/32 (40) / 1/4 or 1/2 NPT (2) TO (6) -CUST. PANEL -I % (16) ACROSS FLATS 41/2" & 6" 1009 back connected, front flange (XFF)



6" 1009 back connected



6" 1009 lower connected

STD.	Gauge Size	А	В	С	D	F	G	I	S	Wei Dry	ght LF
	4½	4 ²³ / ₃₂	2 ¹ /16	5 ³ / ₃₂	¹⁵ / ₁₆	15%	3 ¹⁵ ⁄16	⁵ /8	¹⁵ / ₃₂	1.75#	2.40#
	(100)	(120)	(52)	(129)	(24)	(41)	(100)	(16)	(12)	.79kg	1.1kg
	6	6 ⁵ /16	2	6 ²¹ / ₃₂	²⁷ / ₃₂	15⁄%	4 ¹³ ⁄16	⁵⁄8	¹³ / ₃₂	2.25#	4.12#
	(160)	(160)	(51)	(169)	(22)	(41)	(122)	(16)	(10)	1kg	1.85k

XFF Gauge Weight С C-1 Ε Dry | LF Size А В I Μ S 15/32 423/32 511/16 5/8 5/32 415/16 4¹/₂ 2¹/16 5³/₃₂ 6%32 1.75# 2.40# 7/32 (100) (120) (52) (129)(160)(144) (16) (4) (6) (125)(12) .79kg 1.1kg 6 **6**⁵/16 2 6²¹/₃₂ 75/8 71/32 5/8 1/16 1/4 67/16 ¹³/₃₂ 2.25# 4.12# (194) (179) (2) (160) (160) (51) (169) (6) (163) (10) 1.85k (16) 1kg

XBF

Gauge									Wei	ight
Size	A	B	C	F	GG	HH	U	ZZ	Dry	LF
4½	4 ²³ / ₃₂	2¼16	5¾2	15⁄8	³ ⁄16	3	1 ⁷ / ₁₆	1 ⁷ / ₁₆	-	2.40#
(100)	(120)	(52)	(129)	(41)	(5)	(76)	(37)	(37)		1.1kg
6	6 ⁵ /16	2	6 ²¹ / ₃₂	15%	³ ⁄16	4½	1 ⁷ / ₁₆	1 ⁷ / ₁₆	2.25#	4.12#
(160)	(160)	(51)	(169)	(41)	(5)	(114)	(37)	(37)	1kg	1.85k

XUC	Gauge													We	ight
	Size	Α	В	С	DD	F	FF	H	HH		М	S	ZZ	Dry	LF
	4½ (100)	4 ²³ / ₃₂ (120)	2 ¹ /16 (52)	5 ³ / ₃₂ (129)	1 (25)	15% (41)	2 ⁵ /16 (59)	15⁄% (41)	3 (76)	⁵ /8 (16)	4 ¹³ /16 (122)	¹⁵ / ₃₂ (12)	3 [%] 32 (83)		2.40# 1.1kg
	6 (160)	6 ⁵ /16 (160)	2 (51)	6 ²¹ / ₃₂ (169)	1 (25)	15⁄/8 (41)	25⁄/8 (67)	15⁄% (41)	4½ (114)	⁵ /8 (16)	6 ⁷ / ₁₆ (163)	¹³ / ₃₂ (10)	3³⁄16 (81)	2.25# 1kg	4.12# 1.85k

Note: Dimensions in brackets () are millimeters.

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