

1008S 40mm (1½") & 50mm (2") Stainless Steel Case Pressure Gauge

FEATURES

- All SS construction
- True Zero™ reduces reading errors by using a "zero box" instead of conventional dial pins
- FlutterGuard™ (option) reduces movement wear and pointer flutter
- Liquid fillable option

TYPICAL USES

- Where space limitations exist
- Control valves - corrosion resistant gauge
- Hydraulic tools
- Outdoor installation

SPECIFICATIONS

Accuracy:	±3-2-3% of span (ASME, B40.100 Grade B)
Process connection location	Lower and center back
Ranges:	40mm: Vacuum, compound to 15,000 psi 50mm: Vacuum, compound to 20,000 psi
Movement:	304 SS, gear type
Window:	Polycarbonate
Pointer:	Black, aluminum
Weather Protection:	NEMA 4/IP66
Dampening Options:	FlutterGuard™ and throttle plugs

WETTED COMPONENTS

Model	Bourdon Tube	Process Connection Materials	Joints
1008S	316L SS	316L SS	Welded

NON-WETTED COMPONENTS

Model	Case	Ring
1008S	304 SS (standard)	316 SS (standard) crimped

MIN/MAX TEMPERATURE LIMITS

Version	Ambient	Process	Storage
Dry	-40°F to 200°F (-40°C to 93°C)	-40°F to 250°F (-40°C to 121°C)	-40°F to 200°F (-40°C to 93°C)
Glycerin Fill	20°F to 150°F (-7°C to 66°C)	20°F to 200°F (-7°C to 93°C)	0°F to 150°F (-18°C to 66°C)
Silicone Fill	-40°F to 150°F (-40°C to 66°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 150°F (-40°C to 66°C)
Halocarbon® Fill	-40°F to 150°F (-40°C to 66°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 150°F (-40°C to 66°C)



1008S
50mm dial size
Back connection

1008S
50mm dial size
Lower connection



1008S
50mm dial size
Center back connection
with U-clamp



1008S
40mm dial size
Back connection

1008S
40mm dial size
Lower connection



KEY BENEFITS

- Where space limitations exist
- New crimped ring for tighter seal and IP66 rating
- For severe outdoor and corrosive applications



1008S 40mm (1½") & 50mm (2") Stainless Steel Case Pressure Gauge

ORDERING CODE	Example:	501008	S	L	02	L	XC4	100#
Dial Size/Model Code								
401008 - 40mm dial								
501008 - 50mm dial								
System								
S - 316L SS tube/316 SS process connection								
Case Fill								
Blank - Dry liquid fillable								
L - Liquid filled case (glycerin standard)								
Process Connection Size								
01 - 1/8 NPT Male								
02 - 1/4 NPT Male, N/A on 40mm lower connect gauges								
RW - 7/16 x 20 SAE								
Process Connection Location								
L - Lower mount connection								
B - Center back connection								
Options (If choosing an option(s) must include an "X")								
C4 - Individual calibration chart in accordance with ASME B 40.100 traceable to N.I.S.T.								
ZY - FlutterGuard™ performance								
6B - Cleaned for oxygen service								
SG - Safety glass								
FF - Front flange								
UC - U-clamp								
NH - SS tag wired to case								
RG - Regular glass								
YW - 316L SS case and ring								
Ranges (See range table for all standard ranges)								
Single Scale								
100# - 100 psi								



1008S 40mm (1½") & 50mm (2") Stainless Steel Case Pressure Gauge

STANDARD PRESSURE RANGES

	psi	bar	kPa	MPa	kg/cm²
Vacuum	30IMV	N1BR	N100KP	N0.1MP	N1KG
	-	N1/0.6BR	N100/60KP	N0.1/0.06MP	N1/0.6KG
	30IMV&15#	-	-	-	-
Compound	-	N1/1.5BR	N100/150KP	N0.1/0.15MP	N1/1.5KG
	30IMV&30#	-	-	-	-
	-	N1/3BR	N100/300KP	N0.1/0.3MP	N1/3KG
	30IMV&60#	-	-	-	-
	-	N1/5BR	N100/500KP	N0.1/0.5MP	N1/5KG
	-	-	-	-	-
	30IMV&100#	-	-	-	-
	-	N1/9BR	N100/900KP	N0.1/9MP	N1/9KG
	15#	1BR	100KP	0.1MP	1KG
	-	1.6BR	160KP	0.16MP	1.6KG
	30#	-	-	-	-
	-	2.5BR	250KP	0.25MP	2.5KG
	60#	4BR	400KP	0.4MP	4KG
	-	6BR	600KP	0.6MP	6KG
	100#	-	-	-	-
	-	10BR	1000KP	1MP	10KG
	160#	-	-	-	-
	200#	-	-	-	-
	-	16BR	1600KP	1.6MP	16KG
	300#	-	-	-	-
	-	25BR	2500KP	2.5MP	25KG
	400#	-	-	-	-
	600#	40BR	4000KP	4MP	40KG
	800#	-	-	-	-
	-	60BR	6000KP	6MP	60KG
	1000#	-	-	-	-
	1500#	100BR	10000KP	10MP	100KG
	2000#	-	-	-	-
	-	160BR	16000KP	16MP	160KG
	3000#	-	-	-	-
	-	250BR	25000KP	25MP	250KG
	4000#	-	-	-	-
	5000#	-	-	-	-
	6000#	400BR	40000KP	40MP	400KG
	-	600BR	60000KP	60MP	600KG
	8000#	-	-	-	-
	10000#	-	-	-	-
	15000#	1000BR	100000KP	100MP	1000KG
	(1) 20000#	1400BR	140000KP	140MP	1400KG

(1) Only available on 50mm size

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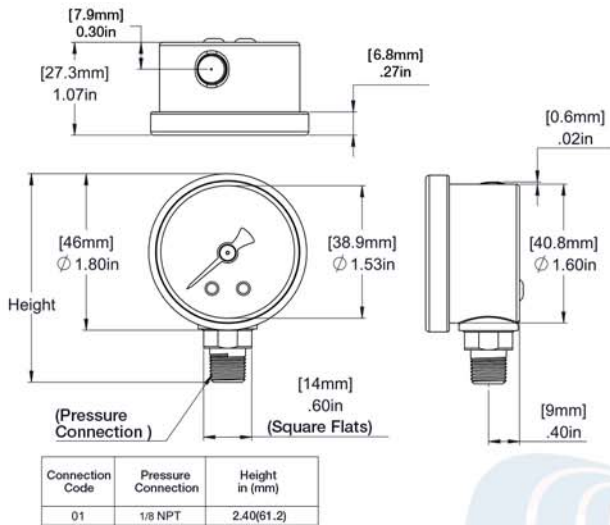
扫一扫，进入手机旺铺



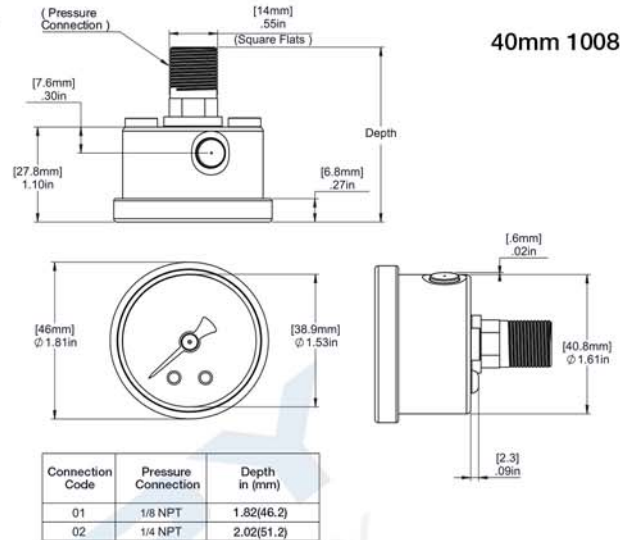
1008S 40mm (1½") & 50mm (2") Stainless Steel Case Pressure Gauge

DIMENSIONS dimensions in [] are millimeters

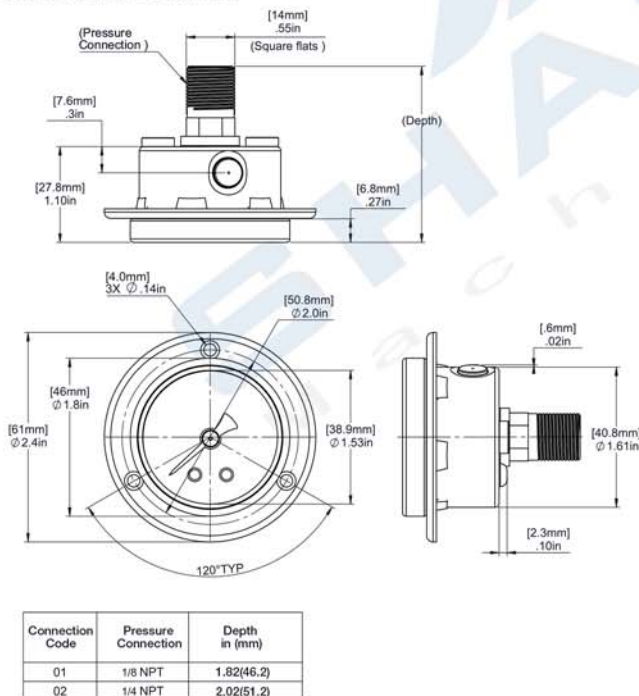
40mm 1008S 01L



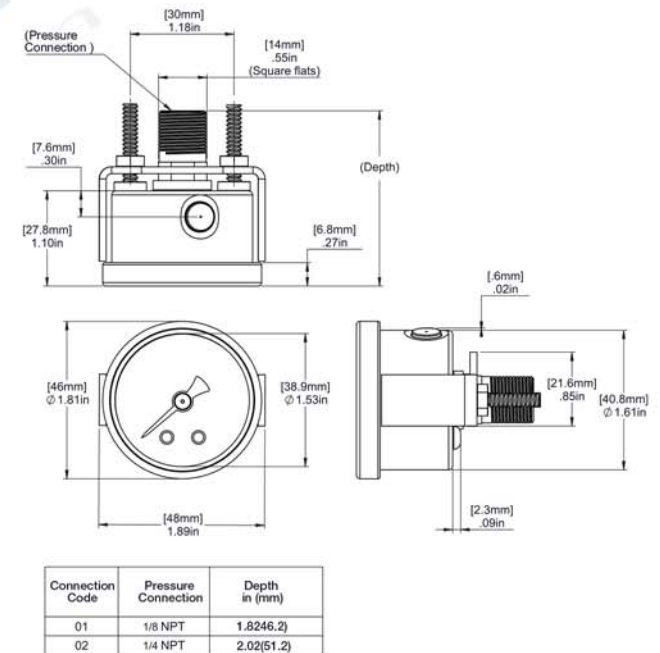
40mm 1008S 01B



40mm 1008S 01B XFF



40mm 1008S 01B XUC



Panel Cutout Dimensions for 40mm gauge

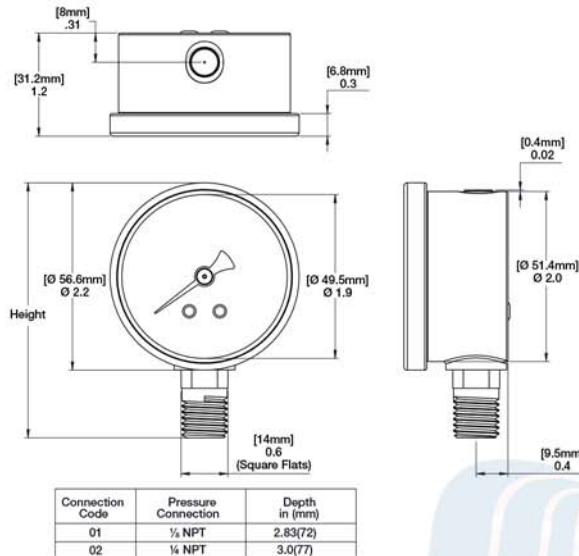
40mm (1½")	Min. Cutout Dia.	Max. Cutout Dia.
XUC	1.65" (42mm)	1.69" (43mm)
XFF	1.73" (44mm)	1.77" (45mm)



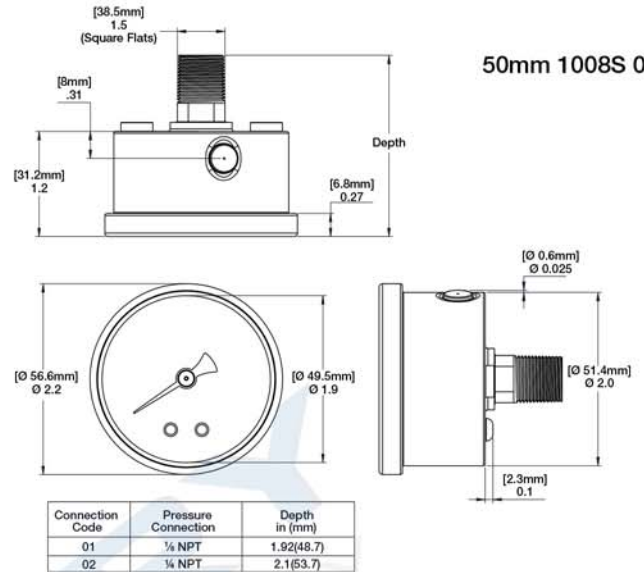
1008S 50mm (2") Stainless Steel Case Pressure Gauge

DIMENSIONS dimensions in [] are millimeters

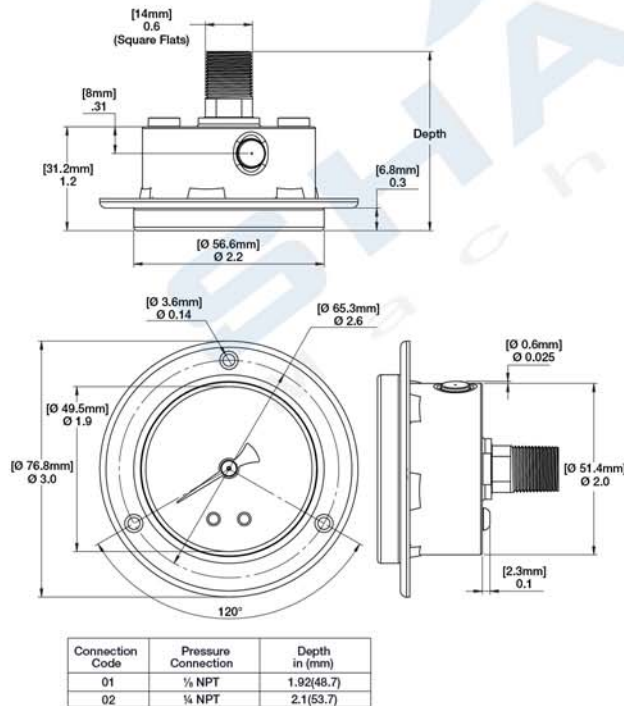
50mm 1008S 02L



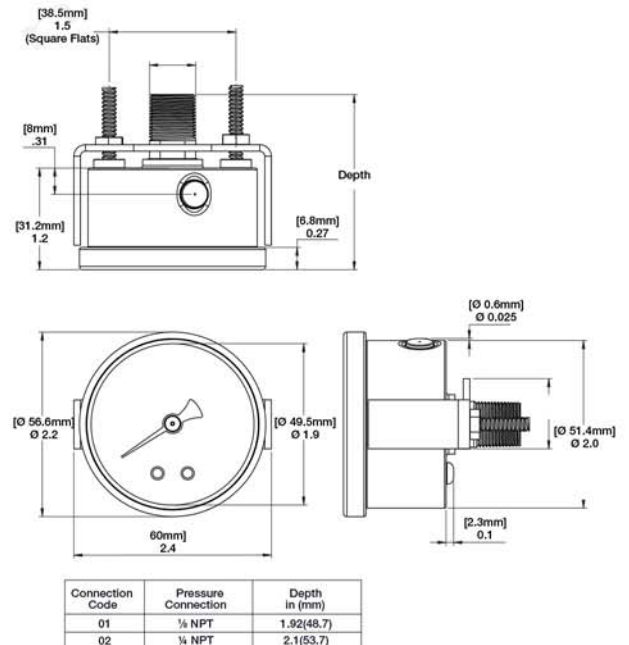
50mm 1008S 02B



50mm 1008S 02B XFF



50mm 1008S 02B XUC



Panel Cutout Dimensions for 50mm gauge

50mm (2")	Min. Cutout Dia.	Max. Cutout Dia.
XUC	2.07" (52.5mm)	2.11" (53.5mm)
XFF	2.15" (54.5mm)	2.19" (55.5mm)



1009 Stainless Steel Case Gauge

FEATURES

- Meets ASME B40.100 specifications
- Corrosion resistant stainless steel case
- Dry gauges are field fillable
- PowerFlex™ movement provides superior resistance to shock, vibration and pulsation
- True Zero™ reduces reading errors by using "zero box" instead of conventional dial pins
- **PLUS!**™ performance available for liquid filled performance with a dry gauge
- MSL helium leak tested to 1×10^{-6} scc/s
- Ventable fill plug
- Accessory kits for easy panel mounting

TYPICAL USES

- Pumps and compressors
- Boilers
- Equipment skids
- Specialized OEM equipment
- Hydraulics and pneumatics
- Severe ambient conditions

SPECIFICATIONS

Accuracy:	ASME B40.100, Grade 1A, $\pm 1\%$ of span (Dry) $\pm 1.5\%$ of span (Liquid filled)
Dial Sizes:	2½" (63mm), 3½" (100mm)
Ranges:	Minimum 0-15 psi, maximum 0-15,000 psi, vacuum and compound

Wetted Materials

Tube:	316L Stainless steel tube
Process Connection:	316L Stainless steel socket (SW) Aluminum bronze socket (AW)

Non Wetted Materials

Window:	Polycarbonate (Std.), Safety glass (XSG), Polysulfone (XPS) 3½" Dial only
Dial:	Black figures on white background, aluminum
Pointer:	Black, aluminum, adjustable (Std.), micrometer (XMP)
Movement:	PowerFlex movement Bottom plate – 304 Stainless steel Upper plate – 304 Stainless steel Pin – 304 Stainless steel Hairspring assembly – 304 Stainless steel Pinion – 304 Stainless steel Segment – Glass filled polyester
Case:	304 Stainless steel (Std.), 316L Stainless steel (XYW)
Ring:	304 Stainless steel (Std.), 316L Stainless steel (XYW)
Process Connection	
Location:	Lower, Back, Top, 3 o'clock, 9 o'clock
Process Connection	
Sizes:	½ NPT, ¼ NPT (see ordering code for more options)



KEY BENEFITS

- IP65 Rating
- NEMA 4X
- CRN Approved
- PED
- **PLUS!**™ Performance (XLL)

Dampening: Glycerin case fill (Std. liquid fill), Silicone case fill (XGV), Halocarbon case fill (XGX), **PLUS!** Performance (XLL)

Weather Protection: IP65 (Plug closed), IP54 (Plug vented)
NEMA 4X (Plug closed)

Approvals: CRN, RoHS, PED

MIN/MAX TEMPERATURE LIMITS

Version	Ambient	Process	Storage
Dry	-40/200°F (-40/93°C)	-40/250°F (-40/121°C)	-40/250°F (-40/121°C)
PLUS!	-40/150°F (-40/66°C)	-40/200°F (-40/93°C)	-40/150°F (-40/66°C)
Glycerin Fill	20/150°F (-7/66°C)	20/200°F (-7/93°C)	0/150°F (-18/66°C)
Silicone Fill	-40/150°F (-40/66°C)	-40/200°F (-40/93°C)	-40/150°F (-40/66°C)
Halocarbon Fill	-40/150°F (-40/66°C)	-40/200°F (-40/93°C)	-40/150°F (-40/66°C)



1009 Stainless Steel Case Gauge

ORDERING CODE

 Example: **251009 SW L 02 L XC4 3000#**

Dial Size/Series Code

251009 – Stainless steel case	251009
351009 – Stainless steel case	

System

 AW - 316L SS tube/Aluminum, bronze connection
 (Max. pressure 1000 psi)

 SW - 316L SS tube/316L SS process connection
 (Max. pressure 15,000 psi)

SW

Case Fill

Dry, liquid fillable case

L - Liquid filled case (Glycerin standard)

L

Process Connection Sizes

01 - 1/8 NPT Male

02 - 1/4 NPT Male

02

04 - 1/2 NPT Male

RW - SAE 7/16 & 20 Straight thread

EJ - 7/16 X 20 UNF-3A 37° flare

KJ - 1/4 Straight JIS, BSP - 1009SW

KA - 1/4 Tapered JIS, BSP - 1009SW

13 - G 1/4" DIN

JP - 1/4" Tubing, N/A with throttle plug

JQ - 6mm Tubing, N/A with throttle plug, N/A ranges above 6000 psi

JL - 9/16" 18 UNF-2A, N/A for 251009

Connection Location

L - Lower mount connection

L

B - Lower back mount connection

D - Side connection (3 o'clock)

E - Side connection (9 o'clock)

T - Top connection

Options

 LL - **PLUS!**™ performance

GV - Silicone case fill

GX - Halocarbon case fill

TU - Throttling device for ranges up to 1000 psi

TS - Throttling device for ranges up to 15,000 psi

6B - Cleaned for oxygen service

SG - Safety glass

PS - Polysulfone window (3 1/2" dial only)

EO - Adjustable red set hand

SH - Red set hand, stationary

NH - Stainless steel tag wired to case

FF - Front flange

FW - Back flange

UC - U-clamp

AB - Gauges calibrated to compensate for absolute pressure

KH - Custom calibration requirements

 HY - Hydrostatic/pneumatic testing system pressurized to 150% of rated system pressure for 5 minutes.
 Overload stop standard

C4 - Individual calibration chart in accordance with ASME B40.100:2013. Accuracy traceable to N.I.S.T C4

SM - All stainless steel movement

YW - 316L Stainless steel case and ring

Range (coding examples only, see range table for all standard ranges)

Single Scales

15# - 15 psi

3000#

1BR - 1 bar

1KSC - 1 kilograms per sq. cm

100KP - 100 kilopascal

Dual Scales

15#/BR - 15 psi inner scale, 1 bar outer scale

1BR/# - 1 bar inner scale, 15 psi outer scale



1009 Stainless Steel Case Gauge

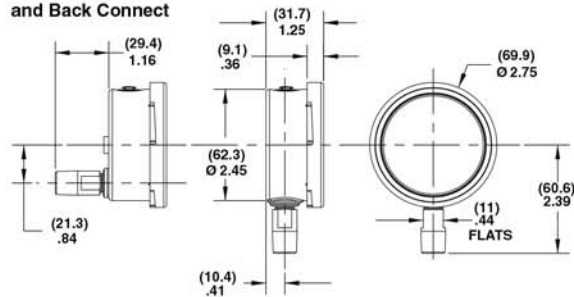
STANDARD RANGES				
psi	bar	kPa	Mpa	kg/cm ²
30IMV	-1BR	-100KP	-.1MP	-1KSC
-	-1&.6BR	-100&60KP	-.1&.06MP	-1&.6KSC
30IMV&15#	-	-	-	-
-	-1&1.5BR	-100&150KP	-.1&.15MP	-1&1.KSC
30IMV&30#	-	-	-	-
-	-1&3BR	-100&300KP	-.1&.3MP	-1&3KSC
30IMV&60#	-	-	-	-
-	-1&5BR	-100&500KP	-.1&.5MP	-1&5KSC
30IMV&100#	-	-	-	-
-	1&9BR	-100&900KP	-.1&.9MP	-1&9KSC
15#	1BR	100KP	.1MP	1KSC
20#	-	-	-	-
-	1.6BR	160KP	.16MP	1.6KSC
30#	-	-	-	-
-	2.5BR	250KP	.25MP	2.5KSC
60#	4BR	400KP	.4MP	4KSC
-	6BR	600KP	.6MP	6KSC
100#	-	-	-	-
120#	-	-	-	-
-	10BR	1000KP	1MP	10KSC
160#	-	-	-	-
200#	-	-	-	-
-	16BR	1600KP	1.6MP	16KSC
300#	-	-	-	-
-	25BR	2500KP	2.5MP	25KSC
400#	-	-	-	-
500#	-	-	-	-
600#	40BR	4000KP	4MP	40KSC
800#	-	-	-	-
-	60BR	6000KP	6MP	60KSC
1000#	-	-	-	-
1500#	100BR	10000KP	10MP	100KSC
2000#	-	-	-	-
-	160BR	16000KP	16MP	160KSC
3000#	-	-	-	-
-	250BR	25000KP	25MP	250KSC
4000#	-	-	-	-
5000#	-	-	-	-
6000#	400BR	40000KP	40MP	400KSC
8000#	-	-	-	-
-	600BR	60000KP	60MP	600KSC
10000#	-	-	-	-
15000#	1000BR	100000KP	100MP	1000KSC



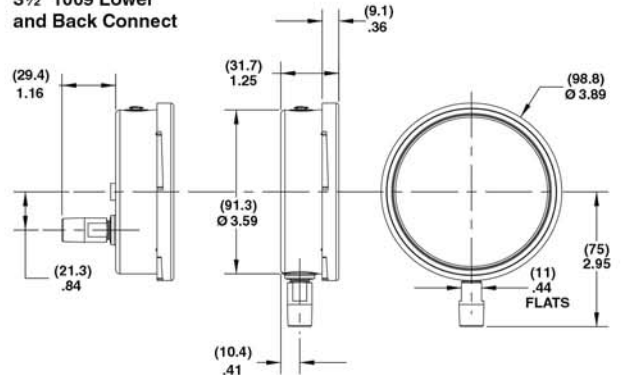
1009 Stainless Steel Case Gauge

DIMENSIONS (dimensions in [] are millimeters)

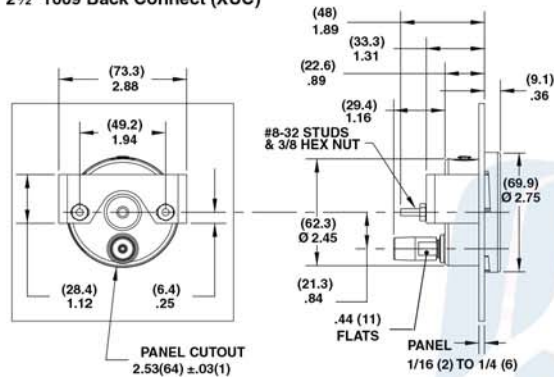
2½" 1009 Lower and Back Connect



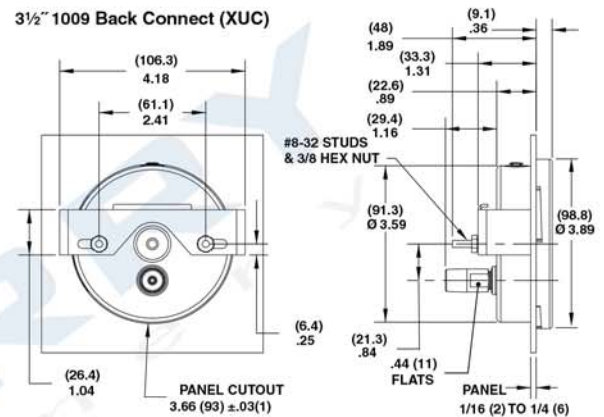
3½" 1009 Lower and Back Connect



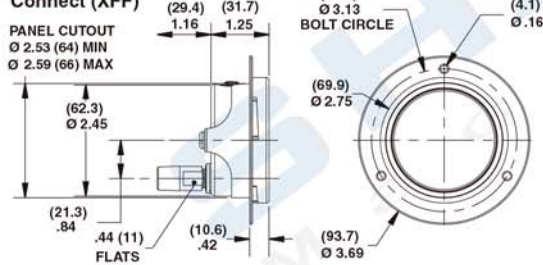
2½" 1009 Back Connect (XUC)



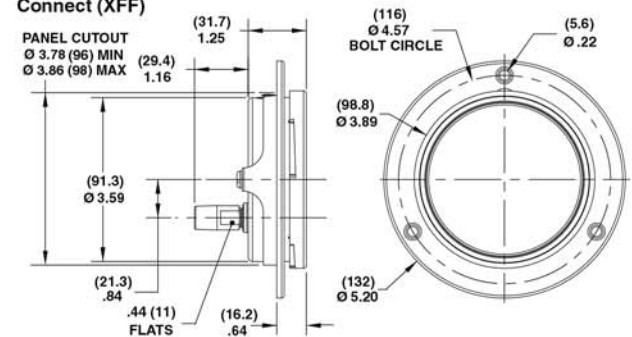
3½" 1009 Back Connect (XUC)



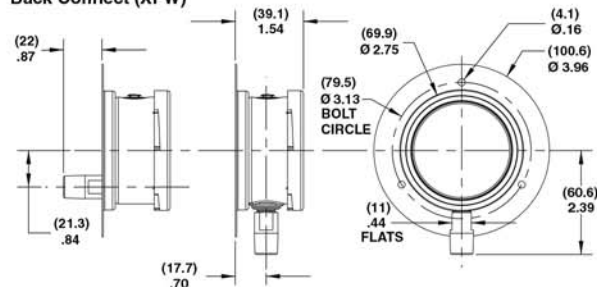
2½" 1009 Back Connect (XFF)



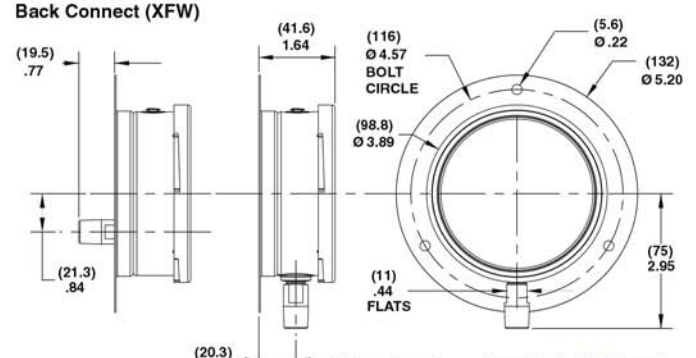
3½" 1009 Back Connect (XFF)



2½" 1009 Lower and Back Connect (XFW)



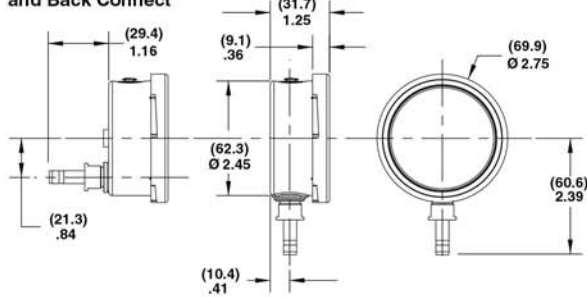
3½" 1009 Lower and Back Connect (XFW)



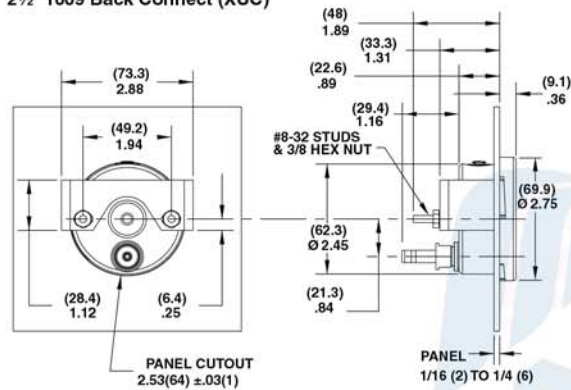
1009 Stainless Steel Case Gauge with Tubing Connections

DIMENSIONS (dimensions in [] are millimeters)

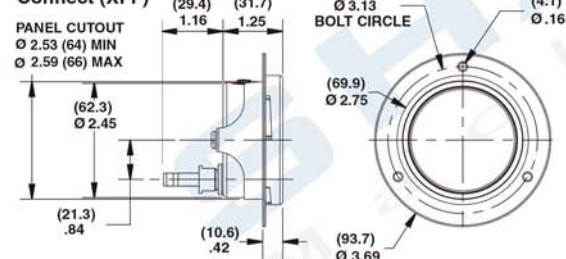
2½" 1009 Lower and Back Connect



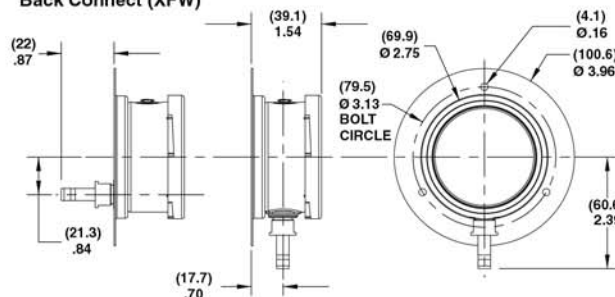
2½" 1009 Back Connect (XUC)



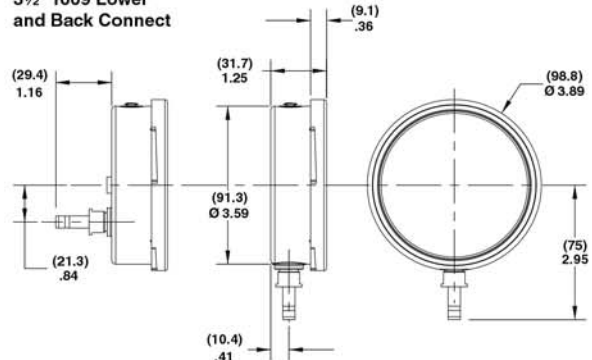
2½" 1009 Back Connect (XFF)



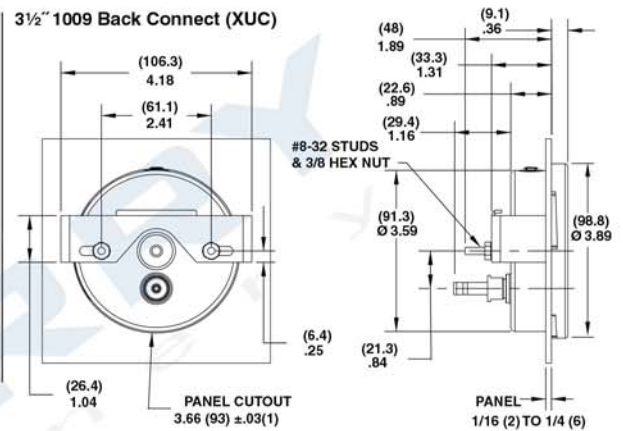
2½" 1009 Lower and Back Connect (XFW)



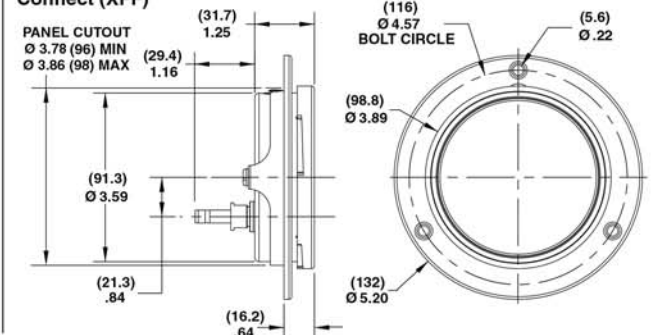
3½" 1009 Lower and Back Connect



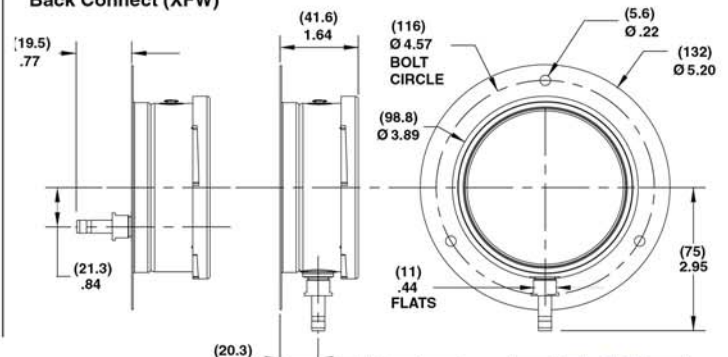
3½" 1009 Back Connect (XUC)



3½" 1009 Back Connect (XFF)



3½" 1009 Lower and Back Connect (XFW)



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Tel: 58-261-742-4372
Fax: 58-261-757-9461
email: contactenos@mapvensa.com
www.mapvensa.com



Type 1036 In-Line Sanitary Pressure Gauge Type 1037 Sanitary Instrument Fitting



FEATURES

Type 1036 Sanitary Gauge

- All-welded SS wetted surfaces
- Field liquid-fillable gauge case
- True Zero™ pointer indication
- PowerFlex™ movement for extended life
- Easy Zero™ external pointer adjustment standard
- Retrofits Anderson Instrument CPM design

Type 1037 Fitting

- Pipe O.D. sizes from 1/2" thru 2"
- 316L SS
- Electropolished 12-20RA (microinches) internal surface finish
- Heat number of wetted materials stamped on each fitting
- Actual material certificates and certificate of conformance supplied as standard to EN 10204:2004 3.1
- Both 1036 and 1037 are 3A-74 compliant

Note: XLL Plus!™ design is not recommended for gauges expected to be exposed to temperatures over 200°F (93°C). This includes gauges subject to autoclaving.

Designed specifically for the pharmaceutical, biotechnology and food processing markets, the Ashcroft® Type 1036 in-line sanitary pressure gauge and Type 1037 sanitary instrument fitting virtually eliminate process dead-leg. The design of the Type 1036 sanitary gauge and 1037 instrument fitting allows for the diaphragm of the gauge to be positioned flush with the gauge instrument fitting, eliminating the pocket or deadleg that may cause contamination.

The Type 1036 sanitary gauge and Type 1037 instrument fitting utilize a standard 1 1/2" Tri-Clamp® connection and clamp. This feature offers flexibility to use the Ashcroft Type 1036 with the Type 1037 instrument fitting on sanitary instrument fittings for pipe sizes from 1/2" thru 2".

The Ashcroft Type 1036 sanitary pressure gauge and 1037 fitting can be autoclaved or sterilized⁽¹⁾, and cleaned (CIP) or steamed in place (SIP). The gauge comes standard with True Zero™ pointer indication. Since the Type 1036 has no dial stop pin, the gauge pointer always indicates a true reading.

⁽¹⁾ Optional polysulfone window required.

HOW TO ORDER 1036 (Typical example)

35 1036 S L 15 L XXX 100#

Dial Size: 3 1/2" _____

Case Type: _____

System Mat'l: SS _____

Fill: (L) Glycerin _____

Connection Size: 1.5" seal _____

Connection Location: Lower _____

X Variations _____

Range _____

HOW TO ORDER 1037 (Typical example) Please use part number reference below

Size	Product Code	Part Number To Order
1/2"	50 1037	292C139-01
3/4"	75 1037	292C139-02
1"	10 1037	292C139-03
1 1/2"	15 1037	292C139-04
2"	20 1037	292C139-05



Type 1036 In-Line Sanitary Pressure Gauge Type 1037 Sanitary Instrument Fitting

SPECIFICATIONS - Type 1036

Dial Size: 3½" (only)

Accuracy: 1.5% F.S. for pressure ranges 100 psi and above. 2.0% F.S. for vacuum, compound and ranges below 100 psi.

Case & Ring Material: 304 SS

Ring Type: Bayonet, removable

Bourdon Tube and Socket Material: 316L SS

Diaphragm Material & Surface Finish:
316L SS, 12 to 20RA (microinches)

Diaphragm O-Ring: Buna-N[®](1) (standard),
Viton[®](1) (XVD), EPDM (XEM)

Connection Location: Lower 1½" Triclamp[®] only

System Fill: USP food grade glycerin

Window Material: Polycarbonate

Pointer: Black-painted aluminum with external zero adjust (Easy Zero[™])

Dial: White with black markings

Movement: 300 series SS

Agency Approvals: 3A compliance to sanitary standard 74

Ranges: 15# thru 600#, including compound & vacuum

Clean or Steam in Place: (CIP or SIP):
Temperature limit of 200°F (138°C)

Autoclave or Sterilize⁽¹⁾: Temperature limit of 300°F (149°C) when supplied with polysulfone window

A polysulfone window for autoclave/sterilization must be provided. Specify the XPS variation.

SPECIFICATIONS - Type 1037 CODE

316L SS construction std.

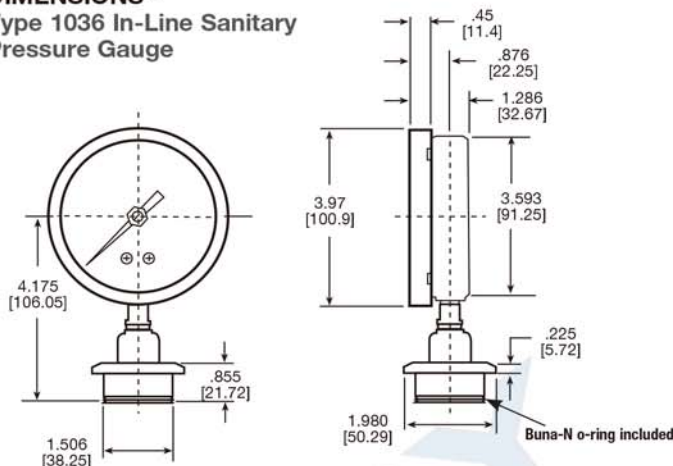
Wetted parts electropolished to 12 to 20RA (microinches) surface finish std.

Heat number stamped on fitting std.

The standard 1036 is supplied with a Buna-N[®] O-ring. Optional O-rings can be ordered. Order XVD for Viton[®] and XEM for EPDM.

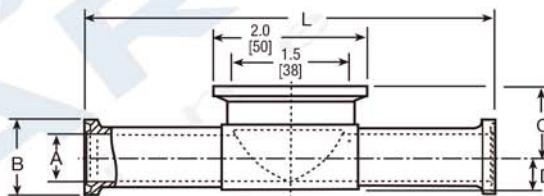
(1) XLL **Plus!**[™] design is not recommended for gauges expected to be exposed to temperatures over 200°F (93°C). This includes gauges subject to autoclaving.

DIMENSIONS - Type 1036 In-Line Sanitary Pressure Gauge



Note: The 1036 sanitary gauge fits into all sizes of the 1037 fitting.

DIMENSIONS - Type 1037 Instrument Fitting



Inch/mm	A	B	C	D	L
½"	.38	.98	.81	.31	5.25
50	(9.6)	(24.9)	(20.6)	(7.9)	(133.4)
¾"	.63	.98	.93	.43	5.25
75	(15.9)	(24.9)	(23.6)	(10.9)	(133.4)
1"	.87	1.98	1.05	.55	4.75
10	(22.1)	(50.4)	(26.7)	(14.1)	(120.7)
1½"	1.37	1.98	1.31	.81	5.50
15	(34.7)	(50.4)	(33.3)	(20.6)	(139.7)
2"	1.86	2.51	1.56	(1.06)	(7.00)
20	(47.2)	(62.8)	(39.6)	(26.9)	(177.8)

Note: Mounting any of these models in other than a vertical position could cause non-compliance with 3A-74.



Actual material certificates and certificate of conformance supplied as standard to EN 10204:2004 3.1

Type 1032 Fractional Sanitary Pressure Gauge



SEE NOTE (1)



FEATURES

- All-welded 316L SS Bourdon tube
- Welded 316L SS diaphragm and seal housing
- USP grade glycerin (99.5% pure, system fill) standard
- 304 SS electropolished case and ring
- Electropolished diaphragm & housing
- Individual calibration certificates provided on request (XC4)
- Liquid-filled performance with dry gauges available with Flutterguard™⁽¹⁾ lubricated movement⁽²⁾

Ashcroft® Type 1032 fractional sanitary pressure gauges have specifically been designed to meet the needs of the pharmaceutical, bio-tech, filtration, food and dairy markets. With a quick-connect clamp and diaphragm surface finish that is electropolished to 12-20RA (microinches) these instruments are also suitable for use in breweries, wineries and citrus juice production plants. With a small dial size and 3/4" Triclamp connection the 20-1032 is well suited for small scale pilot operations as well as space limited applications. The 20-1032 is only available as a dry gauge but with the Flutterguard™⁽¹⁾ lubricated movement option operators can have comparable protection without the issues or limitations associated with liquid-filled gauges.

(1) XZY Flutterguard design is not recommended for gauges expected to be exposed to temperatures over 200°F (93°C). This includes gauges subjected to autoclaving.

(2) Available on application. See PI page SA/PI-16 for more information.

SPECIFICATIONS

Dial Size: 2"

Accuracy: 3% upscale, up to 5% downscale

Case & Ring Material: 304 SS electropolished

Ring Type: Stainless steel, friction fit

Bourdon Tube and Socket Material: 316L SS

Diaphragm Material & Surface Finish: 316L SS, 12 to 20 RA (microinches) electropolished

Process Connection: 3/4" Tri-Clamp only

Connection Location: Lower only

System Fill: USP food grade glycerin standard. Other materials available

Window Material: Glass (acrylic and safety glass options available)

Pointer: Black-painted aluminum, non-adjustable

Dial: White with black markings

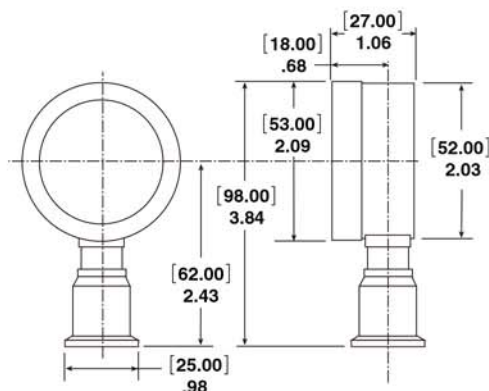
Movement: 300 SS

Ranges: 30# thru 600#, incl. vac/30 psi lowest. See PI page SA/PI-16 for standard ranges. Other ranges available on application



Type 1032 Fractional Sanitary Pressure Gauge

DIMENSIONS



STANDARD PRESSURE RANGES

Pressure				
psi	Figure int.		Minor grad.	
0/30	5		0.5	
0/60	10		1	
0/100	10		1	
0/160	20		2	
0/200	40		5	
0/300	50		5	
0/400	100		10	
0/600	100		10	
Compound				
	Figure int.		Minor grad.	
	in. Hg	psi	in. Hg	psi
30" Hg/30 psi	10	5	1	0.5
30" Hg/60 psi	10	10	2	1
30" Hg/100 psi	10	10	5	2

Order Coding Example

20	1032	S	75	L	XSG	100#
SIZE	TYPE	SYSTEM (TUBE & SOCKET)	PROCESS CONNECTION SIZE	CONNECTION LOCATION	OPTIONS (X VARIATIONS)	RANGE (psi)
(20) 2-inch	1032	(S) 316 SS Bourdon Tube and Socket	(75) 3/4" Tri-clamp® only	(L) Lower	(C4) Individual calibration chart (NH) St. St. Tag (NN) Paper tag bonded (PD) Acrylic window (SG) Safety glass window (ZY) ⁽¹⁾ Flutterguard lubricated movement application	0-30 0-100 0-160 0-200 0-300 0-400 0-600 30"Hg/30# 30"Hg/60# 30"Hg/100#

*See PI page SA/PI-16 for standard ranges. Other ranges available on application.

(1) XZY Flutterguard design is not recommended for gauges expected to be exposed to temperatures over 200°F (93°C). This includes gauges subjected to autoclaving.



Actual
Material Certificates
and Certificate of Conformance
supplied as standard to
EN 10204:2004 3.1

ASHCROFT®

Type 2030 Series Digital Sanitary Gauge



DIRECT
MOUNT

REMOTE MOUNT
SHOWN WITH
OPTIONAL FLANGE

At last, a multi-functional sanitary gauge from the experts in pressure measurement.

The new Ashcroft® sanitary digital gauge saves money, time and space. Now, one digital pressure gauge can replace three instruments... a mechanical pressure gauge, a transducer and a switch! Save space, installation costs and the cost of additional instruments and pipe cut-outs.

Industry Leading Features Include:

- 4/20 mA Output
- (1) or (2) SPDT Switches
- .25% F.S. Terminal Point Accuracy (.13 BFSL)
- IP 65 Weatherproof Case Suitable For Wash Downs
- Extra Large Display
- Easy-to-Use Password Protected Menu With:
 - 5 Backlite Display Options
 - 12 Engineering Units
 - Menu Configure Feature
 - Update Rate
 - Dampen Rate
 - Auto-Off
- Material Traceability Certification to EN 10204: 2004 3.1

The new Ashcroft® sanitary digital gauge has been designed to monitor pressures in critical pharmaceutical, biotech or food processing applications when a Tri-Clamp® type of connection is required. These gauges can be cleaned and steamed in place (CIP/SIP) and meet ASME B40.7. When there are requirements for a remote-mount digital sanitary gauge and temperature error is a concern, the unique Ashcroft Type 2030 series is offered with an optional remote-mount design. This unique design eliminates additional temperature error caused by conventional capillary between the gauge and seal. These digital sanitary gauges come standard with material traceability certification to EN 10204: 2004 3.1*

Tri-Clamp® is a registered trademark of Alfa Laval Inc.

*excludes 2036 series

HOW TO ORDER (Typical example)

Dial Size: 3" **30**

Case Type Number: 2032 Battery **2032**

Wetted Parts: 316L SS **SD**

Process Connection: 1.5" Tri-Clamp **15L**

Range: 160 psi **160#**

Variations: RE remote design **RE**

SHARRY Machinery (Shanghai) Co.,Ltd.
13761943624

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Web: www.sharry-sh.com www.xierui-sh.com



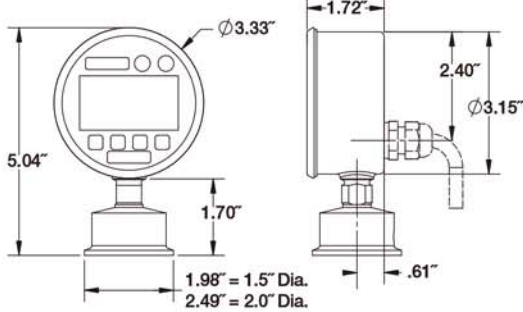
扫一扫，进入手机旺铺



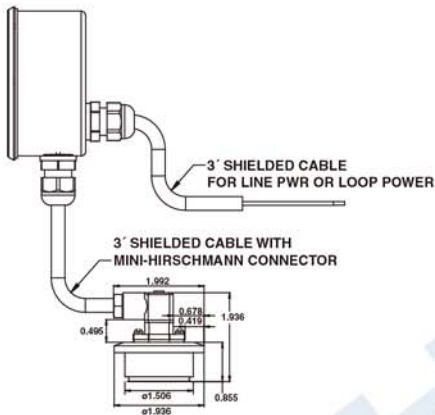
Type 2030 Series Digital Sanitary Gauge

DIMENSIONS

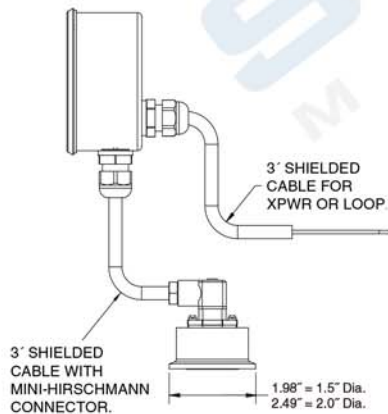
Types 2032, 2132 or 2232 with 1½" or 2" diameter seal



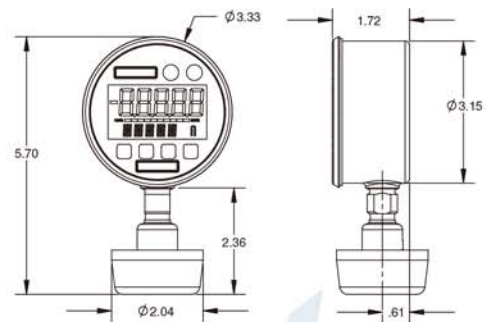
Types 2136 or 2236 with remote seal (XRE variation)



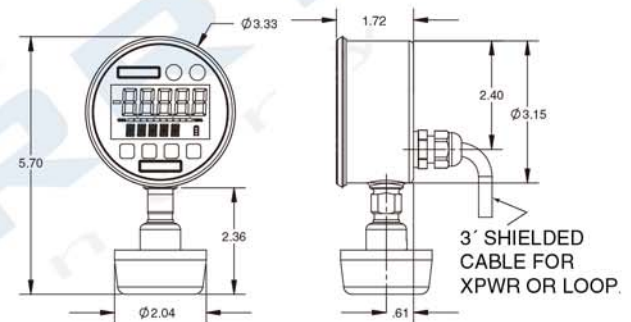
Types 2132 or 2232 with remote seal (XRE variation)



Types 2036 with 1½" inline seal



Types 2136, 2236 with 1½" inline seal



21

RANGES

psi	in. Hg ⁽⁴⁾ (vacuum)	Comp. ⁽⁴⁾ (psi)	mmHg (pressure)	in. Hg (pressure)	in. H ₂ O	mBar	ft. H ₂ O	mPa	kPa	Bar/ KSC
15	30	-15/0/15	800	30	400	1000	60	1	100	1
30		-15/0/30	1000	60	800	1500	160	1.6	160	1.6
60		-15/0/60	2000	100	1000	2000	200	2.5	250	2.5
100		-15/0/100	3000	160		2500	300	4	400	4
160			5000	200		4000	400	6	600	6
200			10,000	300		5000	600	10	1000	10
300				400		6000	1000	16	1600	16
600				600		10,000		25	2500	25
800				800		15,000		40	4000	40
1000						20,000		60	6000	60



Type 2030 Series Digital Sanitary Gauge

SPECIFICATIONS

Type	Conventional Tri-Clamp®: 2032 (battery), 2132 TM (4-20mA), 2232 TM (line) In-line Tri-Clamp®: 2036 (battery), 2136 (4-20mA), 2232 (line)
Accuracy: Terminal Point Full Scale	.25% F.S. Accuracy:
Case Size	3"
Case Material/Finish	(3") 300 Series SS, Electropolished
Case Enclosure Rating	Weatherproof, IP65, NEMA 4
Wetted Parts	316 SS
Fill Fluid	Glycerine-standard, Silicone-optional, Food grade Silicone-optional
Tri-Clamp Connection	Direct, in-line 1½", 2", Ashcroft remote in-line (XRE),
Seal Surface Finish	12-20Ra
Connection Location	Lower
Ranges	15 psi thru 1,000 psi including metric, compound & vac
Process Temp. Limits ²⁾	14°F / 275°F (-10°C / 135°C) to withstand clean in place (CIP) & steam in place (SIP)
Ambient Temp. Limits ³⁾	14°F / 140°F (-10°C / 60°C)
Temperature Error	±.22% per 10°F, (12°F) (Span and Zero shift can be eliminated by rezeroing the gauge at operating temperatures. <i>Temperatures must be within process temperature limits</i>)
Storage Temperature	-4°F / 158°F (-20°C / 70°C)
Overrange Pressure	2x range of gauge

DISPLAY

Type	LCD
Display Digits	5 Digits
Character Height	.60"
Backlite	Off By Default
Bar Graph	Yes
Battery Life	1000 Hrs., Battery Life Indicator - standard
Agency Approvals	CE (excludes XRE variation) Material Traceability Certification to EN 10204: 2004 3.1 standard

KEYPAD FUNCTIONS

On/Off	Manually Turns Unit On & Off (auto off options in menu)
Zero/Clear	Zeros Display or Clears Min/Max Values When Displayed
Min/Max Arrow Key	Stores Min & Max Values, Arrow Key allows for scrolling thru Menu items
Menu	Allows for changes to default settings (See Below)
Backlite (optional) Arrow Key	Manually Turns Backlite On & Off (auto off options in menu), Arrow Key allows for scrolling thru Menu items
Enter	Selects Items in the Menu

MENU MODE

Engineering Units (Units)	Allows Scrolling Through Menu To Select Available Options 10 units of measurement are available psi, in, h ₂ O with 3 temp. options: 20°C, 60°F, 4°C*, mmHg, ft. h ₂ O, mPa, kPa, kg/cm ₂ & bar
Configuration Mode(Config)	Allows for changes to default settings of gauge
Bar Graph (Graph)	Allows for adjustment of bargraph & 4-20(optional feature)
Auto Off (Off)	Allows for changes to auto off of gauge 5 Options:, 30 Min., 10 Min., 5 Min., 2 Min., Never
Update Rate (Update)	4 Options: 100mili-sec, 1sec, 500mili-sec, 200mili-sec,
Dampening (Damp)	6 Options: None, Average 8, 6, 4, 2 times per 100ms
Backlite Lit (optional)	5 options: NEVER, 10 sec, 30, sec, 1 min, 5 min.
Zero Disable	Zero "lockout" feature
Field Recalibration	Zero, Span & Midscale (password protected)
Calibration	Allows for recalibration of zero & span

(includes factory default calibration)

OPTIONS

Description	Code	Case Size
Case Options		
Front Flange (Brushed SS case standard)	FF	
Fill Options		
Silicone	CX	
Dow Corning 200 food grade silicone	CZ	
Switch Options		
(1) SPDT Switch (12-36Vdc)	U1	3"
(2) SPDT Switch (12-36Vdc)	U2	3"
Line Power with 4-20mA output (Line power (Type 2274) required for switching options.) (Terminal blocks standard with 4½" case.) (Flying leads standard with 3")	AO	3"
Wiring Options		
3 Shielded cable standard		
Keypad Options		
Backlite	BL	
Miscellaneous Options		
Battery Backup (Battery standard with Type 2074) (Available with Types 2174 & 2274)	BK	
Protective Front Cover	PP	3" only
Remote Mounted Seal	RE	Std. w/3 shielded cable

Notes

- (1) 3 shielded cable standard
- (2) Rezero gauge often after exposure to elevated temperatures and use.
- (3) The 2030 Series Digital Gauge is not suitable for an autoclave.
- (4) Vacuum and compound pressure ranges require silicone or food grade silicone fill fluid.



Types 2074, 2174 & 2274 Digital Industrial Gauge



LOOK FOR THESE AGENCY MARKS ON OUR PRODUCTS

*3" Case Only

FEATURES

- A Multi-Functional Digital Gauge with Optional:
 - 4-20mA Output
 - (1) or (2) SPDT Switches
- ¼% Full Scale Terminal Point Accuracy (.13% BFSL)
- IP 65 Weatherproof Case
- Three Case Options: Stainless Steel, Fiberglass Reinforced Thermoplastic or Aluminum
- Extra Large Display
- Intrinsically Safe, Class I, Div. 1
- Easy-to-Use Menu Options: (all password protected)
 - Five Backlite Display Options
 - Twelve Engineering Units
 - Menu Configure Feature
 - Update Rate
 - Dampen Rate
 - Auto-Off

At last, a multi-functional gauge from the experts in pressure measurement.

When any combination of local indication, a 4-20mA signal and switching are required to meet your needs, the Ashcroft® digital industrial gauge provides the solution.

PRODUCT SPECIFICATIONS

Type: 2074 (battery), 2174 (loop), 2274 (line)

Accuracy: .25% Full Scale, terminal point

Case Size: 3", 4½"

Case Material: 3" SS, 4½" fiberglass reinforced thermoplastic or black epoxy coated aluminum

Case Encl. Rating: Weatherproof, IP65

Electrical Connection for Loop or Line Power:

4½" case screw down terminals
3" case jacketed cable extended 3 feet
For different cable length use variation "JZ"

Wetted Materials: 17-4 SS (sensor), 316SS (socket)

Socket Sizes: ¼ NPT, ½ NPT, typical, see coding for complete list. Consult factory for additional fittings.

Socket Location: Lower, 3, 9 and 12 o'clock

Ranges: Vac. thru 20,000 psi (see engineering units below for other units)

Overpressure Limits (F.S.):

	15-2000	3000-5000	7500-20,000
Proof	200%	150%	120%
Burst	800%	300%	150%

Operating Temp.: 14/140°F (-10/60°C)

Temp. Error (Zero & Span): .04%/°F (<.02%/°F Typical)

Storage Temp.: -4/158° (-20°/70°F)

DISPLAY

Type: LCD

Display Digits: Five (5)

Character Height: 3" case: .60", 4½" case: .88"

Backlite: Optional. On model 2174 only, battery backup must also be selected. (Backlight is powered by batteries.)

Bar Graph: Yes

Battery Life: 3" >400 hrs., 4½" >2000 hrs.

Battery Backup: Optional.

Agency Approvals:

CE (3" case only),
Optional Intrinsically Safe Approvals
FM (Class I Div. I, Groups A-G)
CSA (Class I Div. I, Groups A-D)
(Class II Div. I, Groups E-G)
15,000 psi Max Full Scale Range

KEYPAD FUNCTIONS

On/Off: Manually turns unit on and off (auto off options in menu)

Zero/Clear: Zeros display or clears min. and max. values when displayed

Min/Max ▼ (down) Arrow Key: Stores min and max values, arrow key allows for scrolling thru menu items

Menu Key: Provides access to menu options

Backlite ▲ (up) Arrow Key (Backlite optional):

Manually turns backlite on and off (auto off options in menu), arrow key allows for five menu options.

▲ (up) arrow key allows for scrolling thru menu options

Enter: Selects items in the menu

MENU MODE

Engineering Units: Up to 10 units of measurement are available: psi, In. H₂O (with three temp. options: 20°C, 60°F, 4°C*), Ft. H₂O, mPa, mBar, kPa, kg/cm², Bar, inHg and mmHg. Units available are based on full scale range of gauge.

Configuration Mode (Config): Allows for changes to default settings of gauge including zero disable feature

Bar Graph (Graph): Allows for adjustment of bargraph and 4-20 (optional feature)

Auto Off (Off): Allows for changes to auto off of gauge, five options: Never, 2 min., 5 min., 15 min., 30 min.

Update Rate (Update): Four options: 100 ms, 200 ms, 500 ms, 1 sec

Dampening (Damp): Six options: None, average, 2, 4, 6, 8 times per 100ms

Backlite: Five options: Never, 10 sec., 30 sec., 1 min., 5 min.

Field Recalibration: Allows for recalibration of zero, mid-scale and span (password protected)

OPTIONS

4-20mA Display: 12-36 Vdc, mA with unlimited turn-down (within gauge range)

Line Powered: 12-36 Vdc, 2VA max.

Switching*: (1) or (2) SPDT switches, (max. contact 30Vdc, 1 amp, 125Vac .5 Amp), Switches adjustable to 100% of range



Types 2074, 2174 & 2274 Digital Industrial Gauge

THE MULTI-FUNCTIONAL SOLUTION SAVES MONEY, TIME AND SPACE...

- ▶ Battery powered local indication standard
 - ▶ Optional 4-20mA output with turndown adjustable within range of gauge*
 - ▶ Optional line powered (12-36 Vdc)
 - ▶ Optional (1) or (2) SPDT switches with dead-band adjustable to pressure range of gauge
- *Accuracy based on full scale range of gauge

The benefit, one digital pressure gauge replaces three instruments... mechanical pressure gauge, transducer and switch

- ▶ Saves installation costs
- ▶ Saves on instrument costs
- ▶ Save on additional pipe cut-out(s)
- ▶ Save space

INDUSTRY LEADING FEATURES Rugged design

- ▶ Three case styles: all welded stainless steel, fiberglass reinforced thermoplastic or cast aluminum case
 - Weatherproof, NEMA4, IP 65 case
 - SS and aluminum case offered with FM certification, Class 1, Div. 1
- ▶ Polyester window protects display from damage
- ▶ Strain relief to protect wiring while replacing batteries

Industry leading display

- ▶ Extra large display height of .88" (4 1/2" case)
- ▶ Five digit display
- ▶ 10 units of measure
- ▶ % of full scale range bar graph

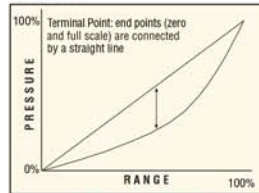
Safety

- ▶ Meets ASME B40.7
- ▶ Pressure range on keypad and bar graph reduces accidental overpressure
- ▶ Proof pressure = 2X gauge range

What you should know about digital gauge accuracy... Terminal Point versus Best Fit Straight Line Accuracy.

Ashcroft Type 2070 Digital Gauge with Terminal Point Accuracy

BENEFIT



- All points between zero and full-scale will be within stated accuracy
- Allows zeroing of gauge at start-up to eliminate any sensor offset

Competitive Digital Gauges with Best Fit Straight Line (BFSL) Accuracy

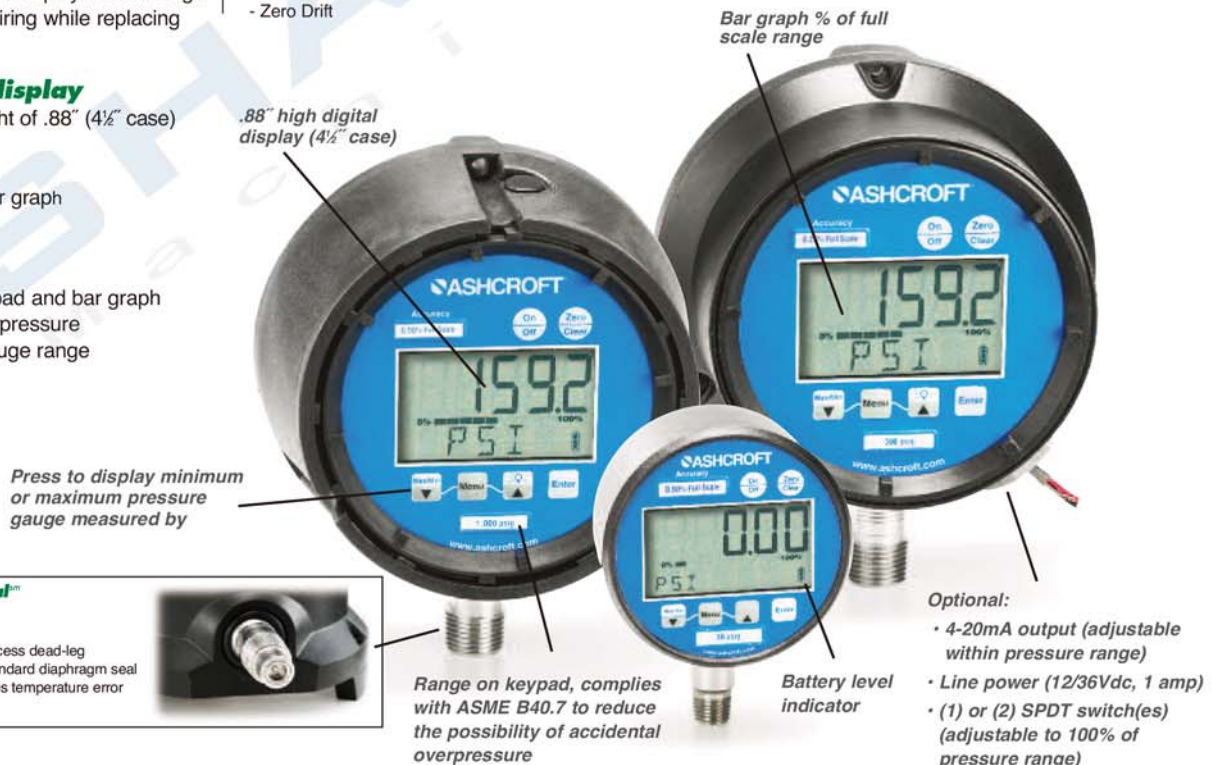


- Linearity error minimized by "best" fitting a straight line to a non-linear curve
- BFSL gauges may have a zero offset at calibration that must be maintained to ensure accuracy throughout range

PROBLEM

- Re-zeroing gauge may invalidate published accuracy specification
- Zero offset at start-up may be the result of either:
 - BFSL Calibration
 - Zero Drift

OPTIONS		
Description	Code	Case Size
Case Options		
Aluminum Case (black epoxy coated)	AY	4 1/2" only
(Glass reinforced thermoplastic case standard)		
Electropolished Case	EC	3" only
(Brushed SS case standard)		
Switch Options		
(1) SPDT Switch (12-36Vdc)	U1	3", 4 1/2"
(2) SPDT Switch (12-36Vdc)	U2	3", 4 1/2"
Line Power with 4-20mA output	AO	3", 4 1/2"
(Line power (Type 2274) required for switching options.)		
(Terminal blocks standard with 4 1/2" case.)		
(Flying leads standard with 3")		
Wiring Options		
Jacketed cable 3 ft.	EN	4 1/2"
Jacketed cable custom length	JZ	3", 4 1/2"
Keypad Options		
Backlite	BL	3", 4 1/2"
Miscellaneous Options		
Battery Backup	BK	3", 4 1/2"
(Battery standard with Type 2074)		
(Available with Types 2174 & 2274)		
Weatherproof ABS Gauge Carrying Case	S7	3" only
Protective Rubber Boot (black)	B1	3" only
Protective Rubber Boot (orange)	B2	3" only
Protective Front Cover	PP	3" only
AccuSeal™ (1/2 NPT lower only)	SU	4 1/2" only
Intrinsically Safe	FM	
FM/CSA		



Breakthru AccuSeal™ Gauge Isolator*

- ▶ Integral to gauge
- ▶ Virtually eliminates process dead-leg
- ▶ Eliminates need for standard diaphragm seal
- ▶ Eliminating seal reduces temperature error



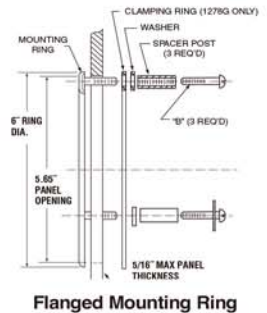
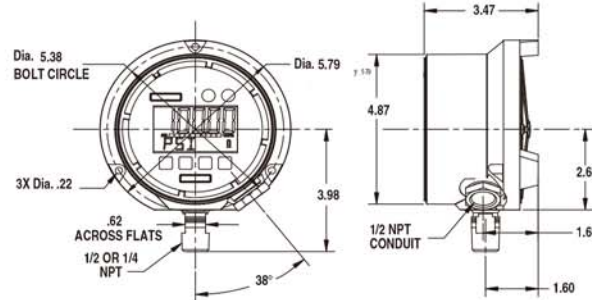
Types 2074, 2174 & 2274 Digital Industrial Gauge

PRESSURE RANGES

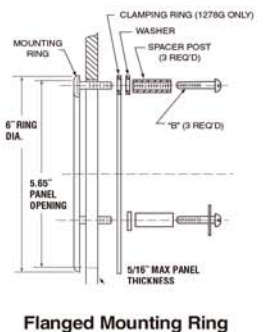
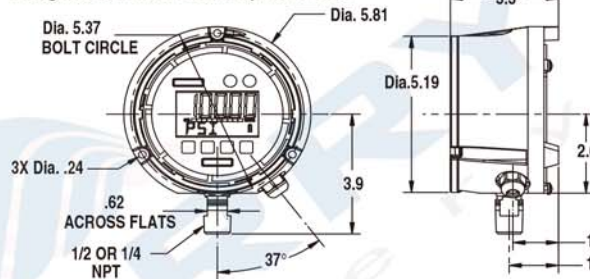
psi	in. Hg (vacuum)	Comp. (psi)	mmHg (pressure)	in. Hg (pressure)	in. HgO	mBar	in. HgO	MPa	MPa	Bar/ KSC
15	30	-15/0/15	800	30	400	1000	60	1	100	1
30		-15/0/30	1000	60	800	1500	160	1.6	160	1.6
60		-15/0/60	2000	100	1000	2000	200	2.5	250	2.5
100		-15/0/100	3000	160		2500	300	4	400	4
160			5000	200		4000	400	6	600	6
200			10,000	300		5000	600	10	1000	10
300				400		6000	1000	16	1600	16
600				600		10,000	25	2500	25	
800				800		15,000	40	4000	40	
1000						20,000	60	6000	60	
1500							100	10,000	100	
2000							140	16,000	160	
3000								25,000	250	
5000								40,000	400	
8000								60,000	600	
10,000								100,000	1000	
15,000								140,000	1400	
20,000										

DIMENSIONS

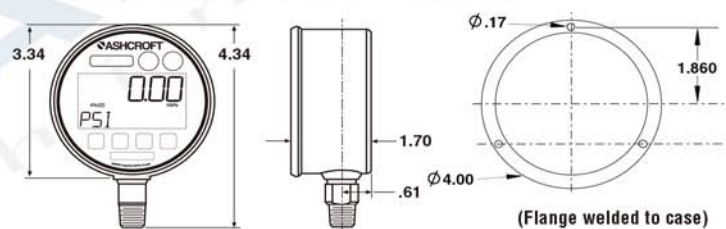
Type 2074 (battery), 2174 (loop), 2274 (line), 4 1/2" aluminum case



Type 2074 (battery), 2174 (loop), 2274 (line), 4 1/2" fiberglass reinforced thermoplastic case



Type 2074 (battery), 2174 (loop), 2274 (line), 3" stainless steel case



45	2072	S	D	04	L	100#	X6W
Size	Type	System	Case Style	Connection Size	Connection Location	Range Code	Product Variations For all Gauge Sizes
45 4.5"	2074 Ashcroft Battery Power .25%	S St. St.	D Dry	45 ONLY	L Lower		XBK Battery Backup, for none Bat power Gauge
30 3"	2174 Ashcroft 4-20 Loop .25%			04 1/2 NPT	E 9 O'Clock		XBL Back light for display (6)
	2274 Ashcroft 24V Line Power .25%			15 G 1/2 B	D 3 O'Clock		XAO 4-20mA, Output for Line Power Gauges
				09 9/16-18 UNF 2B Female	T Top		XU1 1 SPDT Switch (1), (2)
				LF 7/16-20 w/O-ring Seat			XU2 2 SPDT Switches (1), (2)
				30 ONLY			XFM Factory Manual Approval (4)
				RX 9/16-18 LH w/Cone			XNH Metal tag welded to case
				KJ 1/4 BSPF			XNN Paper tag bonded to case
				SF 1/4 VCR Swivel Female			X6B Cleaned for gaseous oxygen service
				SM 1/4 VCR Swivel Male			XC4 CD-4 error plot
				BOTH			XMF Free from mercury certificate
				02 1/4 NPT			XTS Throttle screw
				13 G 1/4 B			XJZ Special cable length
							For 3.0" gauges only
							XHN Mini Hirschmann Connector
							XTU Throttle plug
							XFF Front flange for panel mounting
							XPP Protective front cover
							XB1 Black rubber protective boot
							XB2 Orange rubber protective boot
							For 4.5" gauges only
							XEN Flying leads (standard on "Size 30" 3 ft.)
							XAY Aluminum case
							XSU Accu-Seal, sensor at end of socket, 2000 psi max. 1/2 NPT only

NOTES:

- (1) Line power (Type 2274) required for switch options.
- (2) Screw down terminals standard with 4 1/2" case. 3 feet of jacketed cable standard with 3" case.
- (4) FM not available with variation codes U1, U2, BL, Ao, NH, NN, MN, HN, AY. 4 1/2" includes aluminum case.
- (6) On 2174 loop powered gauge only with BL option. BK option also must be specified in product code (XBKBL).



1032 Sanitary Pressure Gauge

Actual material certificates and certificate of conformance supplied as standard to EN 10204:2004 3.1



FEATURES

- **PLUS!™ Performance⁽²⁾** is available on 2½", 3½", 4½" gauges provides liquid filled performance in a dry case gauge
- All-welded 316L SS Bourdon tube
- Welded 316L SS diaphragm and seal housing (Hastelloy optional)
- USP grade glycerin (99.5% pure, system fill) standard
- Complies with 3A standard 74 for sensors and sensor fittings
- 304 SS electropolished case and ring
- Electropolished diaphragm & housing
- Dry and liquid filled gauge versions
- Weatherproof and hermetically sealed versions
- External Easy Zero™ adjust standard on dry, liquid filled and PLUS!™⁽²⁾ (3½" dial only)
- Individual calibration certificates provided on request (XC4)

Ashcroft® Type 1032 sanitary pressure gauges have specifically been designed to meet the need for sanitary-type pressure gauges in the pharmaceutical, bio-tech, filtration and food and dairy markets. With a quick-connect clamp and diaphragm surface finish that is electropolished to 12-20RA (microinches) these instruments are also suitable for use in breweries, wineries and citrus juice production plants. Available in dial sizes from 2½" thru 4½" and Tri-Clamp® type connections of 1½" and 2".

To meet the needs of the markets served, 3½" 1032 sanitary gauges, with optional polysulfone window, can be autoclaved or sterilized to temperatures of 300°F (149°C) and can be cleaned or steamed in place. Ashcroft Type 1032 sanitary gauges with dial sizes of 2½" and 3½" are furnished standard with the patented PowerFlex™ movement.

SPECIFICATIONS

Dial Size: 2½", 3½", 4½"

Accuracy: 1.5% F.S. for pressure ranges 100 psi and above. 2.0% - dry gauges F.S. for vacuum compound & ranges below 100 psi & Liquid Filled and PLUS!™ Performance over 100 psi. 2.5% Liquid Fill & PLUS!™ Performance below 100 psi

Case & Ring Material: 304 SS electropolished

Ring Type: Bayonet, removable

Bourdon Tube and Socket Material: 316L SS

Diaphragm Material & Surface Finish:

316L SS, 12 to 20 RA (microinches) electropolished

Process Connection:

2½", 3½" dial size: 1½" or 2" Tri-Clamp®
4½" dial size: 2" Tri-Clamp® only

Connection Location: Lower or lower back

System Fill: USP food grade glycerin standard. Other materials available

Window Material: 2½", 3½": Polycarbonate⁽¹⁾
4½": Glass

Pointer: 2½": Black-painted aluminum, adjustable

3½": Black-painted aluminum with ext. adjust

4½": Black-painted aluminum, adjustable

Dial: White with black markings with 3A-74

Movement: 2½", 3½": 300 SS, 4½": 400 SS

Agency Approvals: 3A compliance to sanitary standard 74

Ranges: 15# thru 1000#, including compound & vacuum

Clean or Steam in Place: (CIP or SIP): Process temperature limit of 280°F (138°C)⁽²⁾

Autoclave or Sterilize: Ambient temp. limit of 300°F (149°C) when supplied with polysulfone window (3½" dry gauge only)⁽²⁾

(1) We recommend a polysulfone window for autoclave/sterilization. Specify the XPS variation. Available in 3½" dry gauge only.

(2) XLL PLUS!™ design is not recommended for gauges expected to be exposed to temperatures over 200°F (93°C). This includes gauges subject to autoclaving.

Tri-Clamps are not included. Tri-Clamp® is a registered trademark of Alfa Laval Inc.

Typical Order Code:

25	1032	S	L	15	L	XSG	100#
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Size	Type Number	System (Tube & Socket)	Case Fill	Process Conn. Size	Connection Location	Other Options	Range (psi)
Code Dial	Case	Code - Tube & Socket	Code - Description	Code - Size	Code - Description	Code - Description	Std.
25 - 2.5"	1032	S - 316L SS Bourdon Tube and Socket	L - Liquid Fill (Food Grade Glycerine Std.)	15 - 1.5"	L - Lower	C4 - Individual Certified Calibration Chart	0/15
35 - 3.5"		and 316L SS diaphragm and housing	No code - No Liquid Fill	20 - 2"	B - Back	CF - Halocarbon® Filled System	0/30
45 - 4.5"		H - 316L SS Bourdon Tube and Socket and Hastelloy C 276 diaphragm and housing				LL - PLUS!™ Performance ⁽³⁾	0/60
						NH - SS Tag	0/100
						NN - Paper Tag Bonded	0/160
						PS - Polysulfone Window	0/200
						SG - Safety Glass Window	0/300
						CZ - Food Grade Silicone Filled System	0/400
							0/600
							0/800
							0/1000

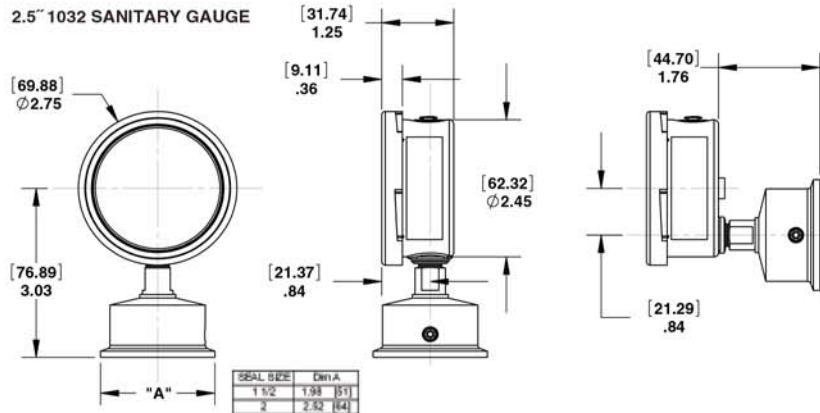
NOTE: XLL PLUS!™ design is not recommended for gauges expected to be autoclaved.



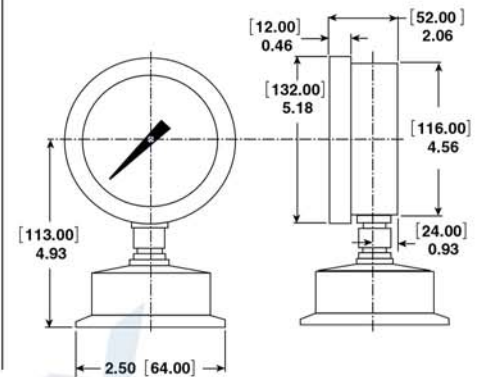
1032 Sanitary Pressure Gauge

DIMENSIONS⁽¹⁾

2.5" 1032 SANITARY GAUGE

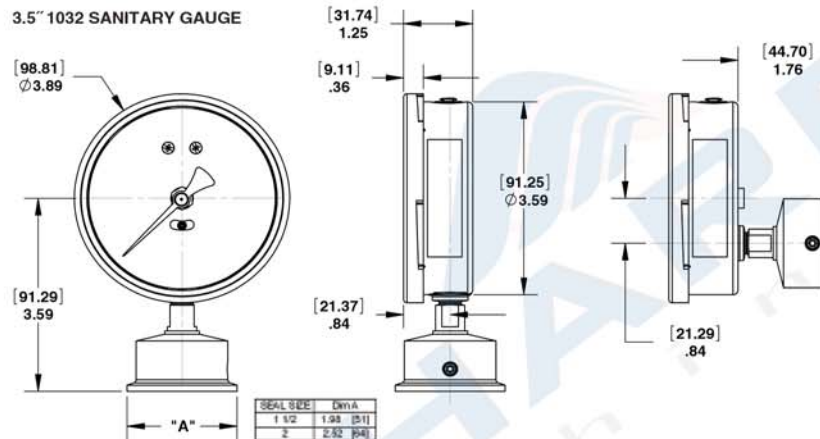


4.5" 1032 SANITARY GAUGE



Gauges mounted face down may not be compliant with 3A-74.

3.5" 1032 SANITARY GAUGE



STANDARD PRESSURE RANGES

Pressure		
psi	Figure int.	Minor grad.
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 ⁽¹⁾	100	10

Compound				
	Figure int.		Minor grad.	
	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

(1) Requires high pressure type clamp.

METRIC PRESSURE RANGES

Pressure							
kg/cm ² (kilograms per sq. 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
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



Edelstahlmanometer Modell 5008

Nach EN 837-1
Nenngröße 63 mm
Genauigkeit: Klasse 1,6



Merkmale

- Robustes Edelstahlgerät
- Gehäuse und Anschlussstutzen verschweißt
- Schutzart IP66 & IP67
- Überlastbereich 130 %
- Trocken oder flüssigkeitsgefüllt

Messbereiche

-1 ... 0 bar bis 0 ... 1000 bar
-30 in. Hg ... 0 psi bis 0 ... 15.000 psi

Einsatzbereiche

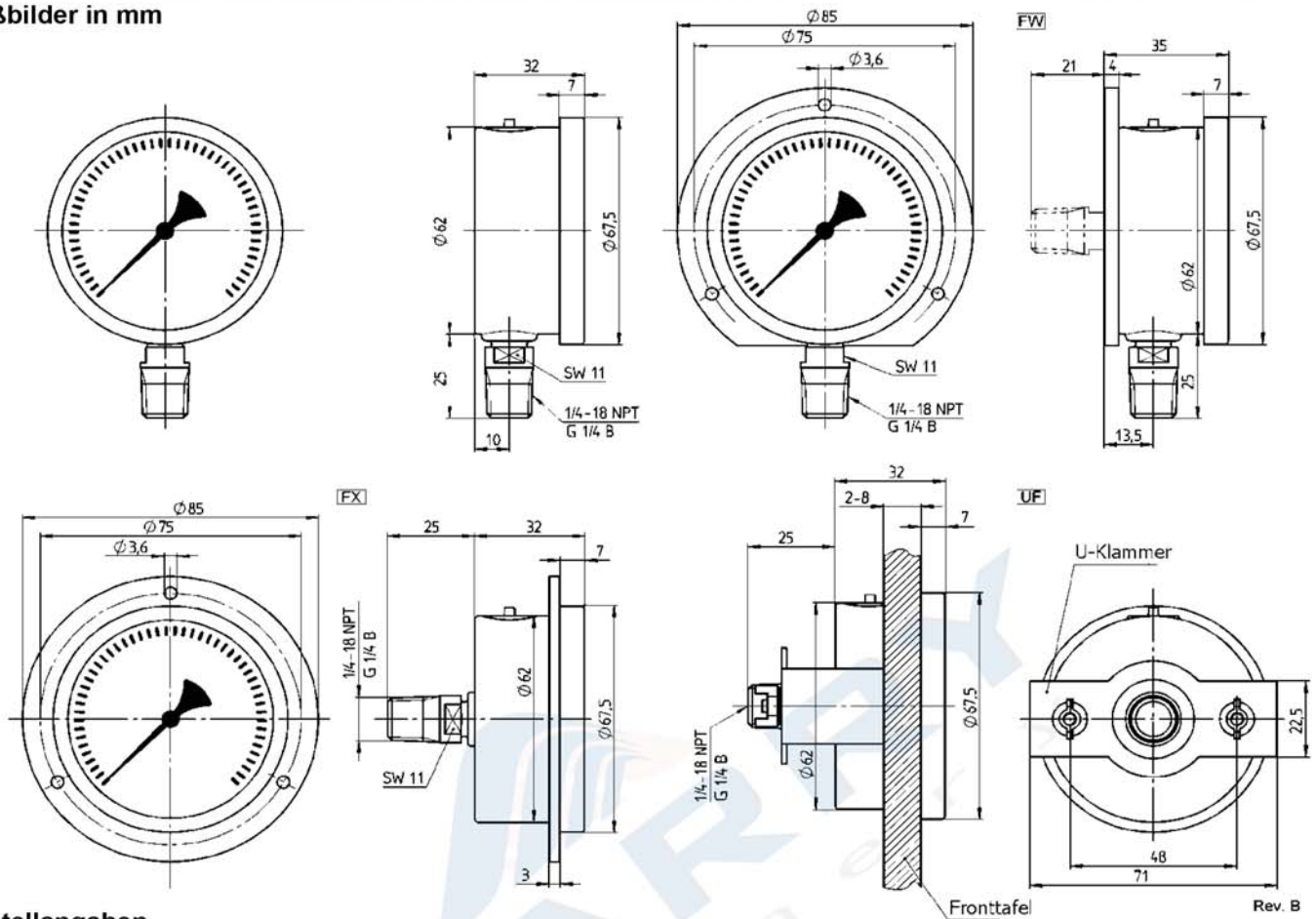
Chemische und petrochemische Industrie
Maschinen- und Anlagenbau
Nahrungsmittel- und Getränkeindustrie
Kunststoff- und Papierindustrie



Technische Daten	5008
Nenngröße in mm	63
Bauart	Zylindrisches Topfgehäuse mit Füllöffnung und Entlüftungsventil
Bauart Ring	Bördelring
Messprinzip	Rohrfeder
Messbereiche in bar	1 1,6 2,5 4 6 10 16 25 40 60 100 160 250 400 600 1000 -1/0 -1/0,6 -1/1,5 -1/3 -1/5 -1/9
Messbereiche in psi	15 30 60 100 150 200 300 400 600 1000 1500 2000 3000 5000 6000 10.000 15.000
Messbereiche in in.Hg/psi	-30/0 -30/15 -30/30 -30/60 -30/100 -30/150 -30/300
Überlast	130 % vom M.E., kurzzeitig
Druckart	Positiver oder negativer Überdruck sowie kombinierte Bereiche
Prozessanschluss	G 1/4 B außen nach EN 837 1/2 oder 1/4 NPT außen nach ANSI/ASME B1.20.1
Anschlusslage	Unten, rückseitig zentrisch
Werkstoff	Prozessanschluss Rohrfeder Gehäuse/Ring Sichtscheibe Zifferblatt Zeiger Segmentwerk Edelstahl 1.4404 (316L) Edelstahl 1.4404 (316L) Edelstahl 1.4301 (304), optional Edelstahl 1.4404 (316L) Instrumentenglas, optional Sicherheitsglas oder Acrylgas Aluminium, weiß, Beschriftung und Skale schwarz Kunststoff, schwarz Edelstahl 1.4301 (304),
Genauigkeitsklasse	Klasse 1,6 (1,6 % v.M.E.)
Temperaturbereiche	Betriebstemperatur Messstofftemperatur Lagerungstemperatur Temperatureinfluss -25 ... 60 °C Max. 200 °C (ungefüllte Ausführung), max. 100 °C (mit Flüssigkeitsfüllung) -40 ... 60 °C Max. 0,3 % / 10 K
Konformitätsbescheinigung nach RL 2014/34/EU Anhang X für mechanische Betriebsmittel in explosionsgefährdeten Bereichen	Optional, Markierung CE Ex II 2 GD c IIC Tx, T _{amb} -20 ... 60 °C Hinterlegungsnummer 35118307 bei der benannten Stelle 0044, TÜV NORD CERT Angewandte Normen: DIN EN ISO 80079-36:2016-12 und DIN EN ISO 80079-37:2016-12 (nur mit Sicherheitsglas)
Schutzart nach EN 60 529/IEC 529	IP66 & IP67
Füllflüssigkeit	Glyzerin oder Silikonöl
Montageart	Direktmontage, optional Flansch für Tafelbau, U-Klammer für Tafelbau oder Wandflansch
Gewicht trocken/gefüllt in kg	0,2/0,3
Zubehör, Optionen	Ventile



Maßbilder in mm



Bestellangaben

Nenngröße	Modell	Werkstoff Messsystem	Ausführung	Prozessanschluss	Anschlusslage	Messbereich	Maßeinheit	Füllung/ Gehäusewerkstoff	Optionen
(63) 63 mm	5008	(S) Edelstahl 1.4404 (316L)	(D) Trocken (L) Gefüllt	(01) 1/8 NPT außen ¹⁾ (02) 1/4 NPT außen (13) G 1/4 B außen (KA) R 1/4 außen, konisch JIS, BSP	(L) Unten (B) Hinten, zentrisch	-1/ 0 -1/ 0,6 -1/ 1,5 -1/ 3 -1/ 5 -1/ 9 0/ 1 0/ 1,6 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/ 1000	(BAR)	(=) Standard trocken (GR) Glycerin (GV) Silikonöl (YW) Gehäusewerkstoff 1.4404 (316L)	(NH) Messstellenschild mit Draht befestigt (DA) Zifferblattaufdruck ¹⁾ (TU) Drosselschraube aus Edelstahl (PD) Sichtscheibe aus Acrylglas (SG) Sicherheitsglas (FX) Frontflansch (FW) Wandflansch (UF) U-Klammer (AT) ATEX ²⁾
				¹⁾ max. 400 bar			psi und andere auf Anfrage		¹⁾ Kundenlogo nur einfarbig ²⁾ ATEX nur mit (SG)

Bestellbeispiel

Nenngröße	Modell	Werkstoff Messsystem	Ausführung	Prozessanschluss	Anschlusslage	Messbereich	Maßeinheit	Füllung/ Gehäusewerkstoff	Optionen
63	5008	S	D	02	B	0/16	BAR	YW	FX



T5500/T6500 Pressure Gauges

FEATURES

- **PLUS!™** Performance dampens vibration, shock and pulsation effects
- Rugged all welded stainless steel design
- Overload protection to 400% of range (XRA option)
- Low ambient temperature option for arctic conditions from -94°F (-70°C) for T6500 100mm only
- Optional ATEX approved CE Ex II 2 GD c

TYPICAL USES

- Offshore oil rigs
- Chemical and petrochemical plants
- Power
- Pulp and paper
- Machine equipment
- Specialized OEM equipment
- Food and beverage

SPECIFICATIONS

Accuracy:	1% of span (STD.), 0.5% of span (OPT.)
Size:	100mm, 160mm
Range:	Vacuum, compound, pressure psi: -30in., Hg-0, 0-20,000
Process Conn. Location:	Lower, back
Process Conn. Size:	¼ NPT Male, ½ NPT Male, G ¼ NPT, B Male, G ½ NPT B Male
Case Style:	T5500: Open front with rear blowout disk T6500: Solid front with full rear blowout back
Movement:	Adjustable
Window Material:	T5500: Glass (STD.), polycarbonate, safety glass (OPT.) T6500: Safety glass (STD.), polycarbonate (OPT.)
Dial:	Aluminum, white background, black figures and intervals
Pointer:	Aluminum
Weather Protection:	Dry: IP66 and NEMA 4X Liquid filled: IP66/67 and NEMA 4X Hermetically sealed case: IP66/67 and NEMA 4X
Dampening Options:	PLUS!™ Performance, throttle screw, dampeners, snubbers and fill fluids
Mounting:	Stem, flush and surface
Approvals:	CRN, ATEX: Conformity acc. to RL 2014/34/EU appendix X for mechanical equipment in potential hazardous areas CE Ex II 2 GD c IIC Tx: File No. 35134585 at notified body 0044, TÜV NORD CERT (only with safety glass or polycarbonate glass)

WETTED COMPONENTS

Bourdon Tube	Process Connection	Joints
316L SS, Monel® 400	316 SS	Welded



T5500/T6500

100mm, 160mm dial size



KEY BENEFITS

- High overpressure for safety (option)
- Low ambient temperature for severe environments (option)
- Weatherproof Protection IP66, NEMA 4X

NON-WETTED COMPONENTS

Case	Ring	Back Cover
304 SS (STD.)	304 SS	304 SS
316 SS (OPT.)	316 SS	316 SS

MIN/MAX TEMPERATURE LIMITS

Version	Ambient	Process	Storage
Dry	-40°F to 158°F (-40°C to 70°C)	-40°F to 392°F (-40°C to 200°C)	-40°F to 158°F (-40°C to 70°C)
PLUS!™	-19°F to 158°F (-7°C to 70°C)	-40°F to 392°F (-40°C to 200°C)	-40°F to 158°F (-40°C to 70°C)
Glycerin fill	19°F to 158°F (-7°C to 70°C)	19°F to 199°F (-7°C to 93°C)	-40°F to 158°F (-40°C to 70°C)
Silicone fill	19°F to 158°F (-7°C to 70°C)	-40°F to 199°F (-40°C to 93°C)	-40°F to 158°F (-40°C to 70°C)
Halocarbon® fill	19°F to 158°F (-40°C to 70°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 158°F (-40°C to 70°C)
ATEX	19°F to 158°F (-7°C to 70°C)	-40°F to 392°F (-40°C to 200°C)	-40°F to 140°F (-40°C to 60°C)



[illegible]

BESTELLKODE **Beispiel:** 100 T5500 S D 15 L 16 BR X YW

Genauigkeit

AJ Erhöhte Genauigkeit 0,5 % nach ASME B40.100 Klasse 2A (Nicht für Messbereiche < 1 bar (trocken) oder < 4 bar (flüssigkeitsgefüllt))

Ämtliche Zulassungen

ATEX ATEX Zulassung Ex II 2 GD c IIC Tx

EAC Konformitätserklärung nach EurAsian Conformity (Nicht in Kombination mit Option ATEX)

Gehäuseoption

YW Gehäuse- und Ringmaterial Edelstahl 316L (1.4404)

Gehäuse- und Ringoptionen

BQ Laschen für Wandmontage

FF Frontflansch für Tafelbau am Bayonettring (Nicht verfügbar mit Nenngröße 160 mm)

FW Flansch für Wandmontage

FX Frontflansch für Tafelbau am Gehäuse

UF U-Klammer für Schalttafelbau (Nicht für Modell T6500)

Anschlussoptionen

TU Drosselschraube

WP Ohne Drosselschraube für trockene oder gefüllte Gehäuse

Optionale Gehäusefüllung

GQ Weißöl (Silikonfrei)

GR Glyzerin 99,5%

GV Silikon 50 cst

GX Halocarbon®

QC Niedertemperatursilikon für Umgebungstemperaturen von bis zu -70°C, inklusive Fluorosilikondichtung (Nur für 100 mm T6500)

LJ Hermetisch dicht und füllfähig

Zifferblattoptionen

AB Kalibriert auf Absolutdruck

CS Doppelskala

DN Kalibriert auf abweichende Nennlage vom Standard (vertikal) (Information benötigt von Endanwender)

E6 Stop-Pin auf 6 Uhr Position

ON Ohne Ashcroft Logo, neutral

PR Receiver Manometer für Standard-Pneumatiksignal (Information benötigt von Endanwender)

SS Sonderskala (Information benötigt von Endanwender)

6Y Ausführung für Messstoff Skydrol

Messwerkoptionen

LL Gedämpftes Messwerk **PLUS!**™ (Nicht verfügbar für Halocarbonfüllung)

NZ Gedämpftes Messwerk **PLUS!**™, silikonfrei (Nicht für gefüllte Gehäuse)

OS Segmentbegrenzung max.

VS Segmentbegrenzung min. bis zu -1 bar

SM Edelstahl 316L (1.4404) Messwerk

Zeigeroptionen

MP Zeiger mit Mikrometerverstellung

BESTELLKODE **Beispiel:** 100 T5500 S D 15 L 16 BR X YW

Sichtscheibenoptionen

PD	Acrylglas
SG	Sicherheitsglas (Standard bei Modell T6500)
EP	Maximalzeiger verstellbar mit Acrylglasscheibe
EQ	Minimalzeiger verstellbar mit Acrylglasscheibe
SH	Verstellbarer Markenzeiger mit Acrylglasscheibe

Materialherkunftsoptionen

WO	Alle medienberührte Teile mit westlicher Herkunft
----	---

Montageoptionen

MO	Instrument an Zubehör montiert
MO1	Instrument an Druckmittler montiert

Reinigungsoptionen

6B	Gereinigt für Sauerstoffeinsatz (Nicht für T5500 nach EN 837-1 und Information benötigt von Endanwender)
6W	Gereinigt "öl- und fettfrei" (Kein Sauerstoffeinsatz)
MF	Frei von Quecksilber (Hg)
YF	Silikonfrei gereinigt

Kennzeichnungsoptionen

DA	Zifferblattaufdruck (Information benötigt von Endanwender)
NH	Edelstahlschild mit Draht befestigt (Information benötigt von Endanwender)
NH1	Extra großes Edelstahlschild (120 x 30 x 1 mm) mit Draht befestigt (Information benötigt von Endanwender)

Materialzertifikatsoptionen

CD2	Werkszeugnis nach EN 10204 2.2
C3	Abnahmeprüfzeugnis nach EN 10204 3.1
CD5	Werkszeugnis nach NACE für Ölfelder MR0175 / ISO 15156-2015 und Raffinerien MR0103 / ISO 17945-2015
MQ	Positive Material Identifikation (PMI)

Test-Zertifikatsoptionen

C4	CD-4 Kalibrierzertifikat
C43	CD-4 Individuelles Kalibrierzertifikat nach DIN EN 10204/3.1
CD10	10 Punkte Kalibrierzertifikat
HY	Hydraulik-Druck-Test nach DIN EN 10204/3.1
ML	Lecktest mit Massenspektrometer

T5500/T6500 Pressure Gauges

RANGES

T5500, T6500					
	psi	bar	kPa	MPa	kg/cm ²
Vacuum	30IMV	N1BR	N100KP	N1MP	N1KG
	–	N1/.6BR	N100/60KP	.1/.06MP	N1/.6KG
	V/15#	–	–	–	–
Compound	–	N1/1.5BR	N100/150KP	N.1/.15MP	N1/1.5KG
	V/30#	–	–	–	–
	–	N1/3BR	N100/300KP	N.1/.3MP	N1/3KG
	V/60#	–	–	–	–
	–	N1/5BR	N100/500KP	N.1/.5MP	N1/5KG
	V/100#	–	–	–	–
Positive Pressure	–	N1/9BR	N100/900KP	N.1/.9MP	N1/9KG
	15#	1BR	100KP	.1MP	1KG
	20#	–	–	–	–
	–	1.6BR	160KP	.16MP	1.6KG
	30#	–	–	–	–
	–	2.5BR	250KP	.25MP	2.5KG
	60#	4BR	400KP	.4MP	4KG
	–	6BR	600KP	.6MP	6KG
	100#	–	–	–	–
	120#	–	–	–	–
	–	10BR	1000KP	1MP	10KG
	160#	–	–	–	–
	200#	–	–	–	–
	–	16BR	1600KP	1.6MP	16KG
	300#	–	–	–	–
	–	25BR	2500KP	2.5MP	25KG
	400#	–	–	–	–
	500#	–	–	–	–
	600#	40BR	4000KP	4MP	40KG
	800#	–	–	–	–
	–	60BR	6000KP	6MP	60KG
	1000#	–	–	–	–
	1500#	100BR	10000KP	10MP	100KG
	2000#	–	–	–	–
	–	160BR	16000KP	16MP	160KG
	3000#	–	–	–	–
	–	250BR	25000KP	25MP	250KG
	4000#	–	–	–	–
	5000#	–	–	–	–
	6000#	400BR	40000KP	40MP	400KG
	8000#	–	–	–	–
	–	600BR	60000KP	60MP	600KG
	10000#	–	–	–	–
	15000#	1000BR	100000KP	100MP	1000KG
	–	1400BR	–	–	–
	20000#	–	–	–	–

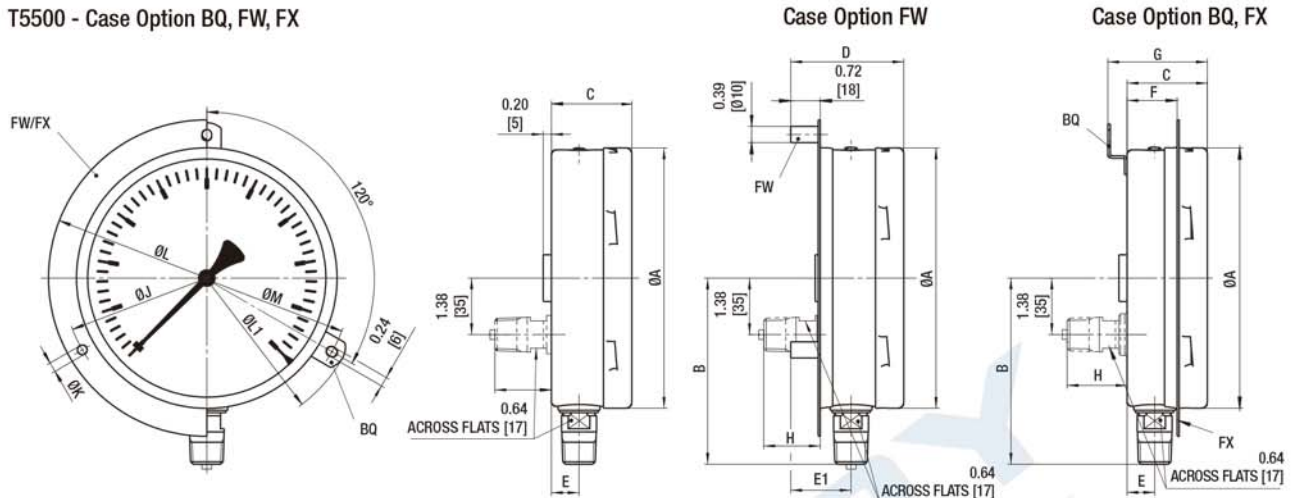
Not available with liquidless **PLUS!**™ Performance (LL or NS option)Not available with liquidless **PLUS!**™ Performance (LL or NS option)

T5500/T6500 Pressure Gauges

DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings.

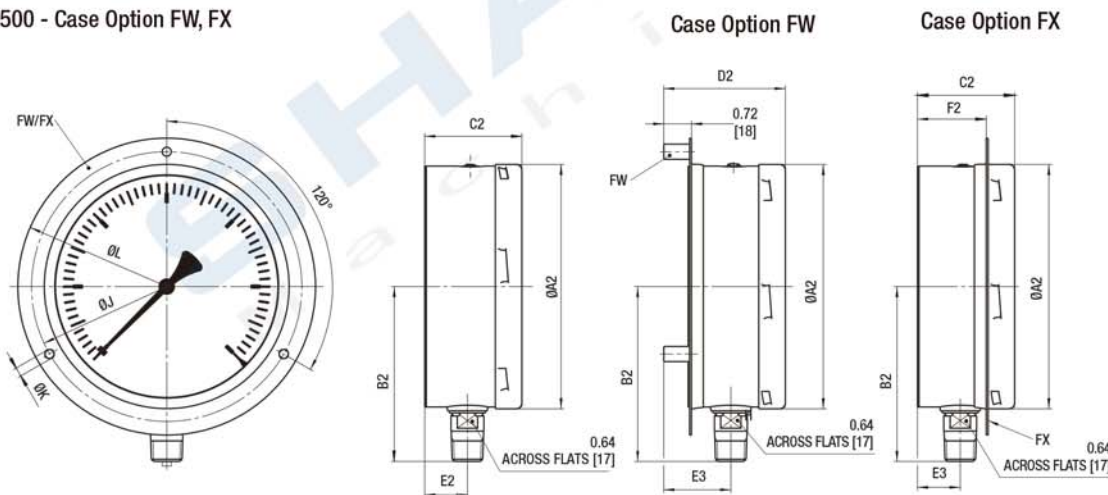
T5500 - Case Option BQ, FW, FX



T5500 - Case Options BQ, FW, FF

Dial Size	A	B	C	D	E	E1	F	G	H	J	K	L	L1	M	Weight
100 mm	3.97 [101]	3.36 [85]	2.01 [51]	2.72 [69]	0.73 [18.5]	1.44 [36.5]	1.26 [32]	2.48 [63]	1.38 [35]	4.65 [118]	0.24 [6]	5.20 [132]	5.28 [134]	4.02 [103]	Dry 2.0 lbs LF 4.4 lbs
160 mm	6.35 [161]	4.54 [115]	1.96 [50]	2.76 [70]	0.67 [17]	1.47 [37]	1.22 [31]	2.43 [62]	1.46 [37]	7.01 [178]	0.24 [6]	7.72 [196]	7.64 [194]	7.50 [179]	Dry 2.7 lbs LF 5.0 lbs

T6500 - Case Option FW, FX



T6500 - Case Options FW, FX

Dial Size	A2	B2	C2	D2	E2	E3	F2	J	K	L	Weight
100 mm	3.97 [101]	3.36 [85]	2.38 [61]	2.91 [74]	1.02 [26]	1.55 [39]	1.63 [42]	4.65 [118]	0.24 [6]	5.20 [132]	Dry 2.0 lbs LF 4.4 lbs
160 mm	6.35 [161]	4.54 [115]	2.52 [64]	3.15 [80]	1.11 [28]	1.74 [44]	1.78 [45]	7.01 [178]	0.24 [6]	7.72 [196]	Dry 2.7 lbs LF 5.0 lbs



T5500/T6500 Pressure Gauges

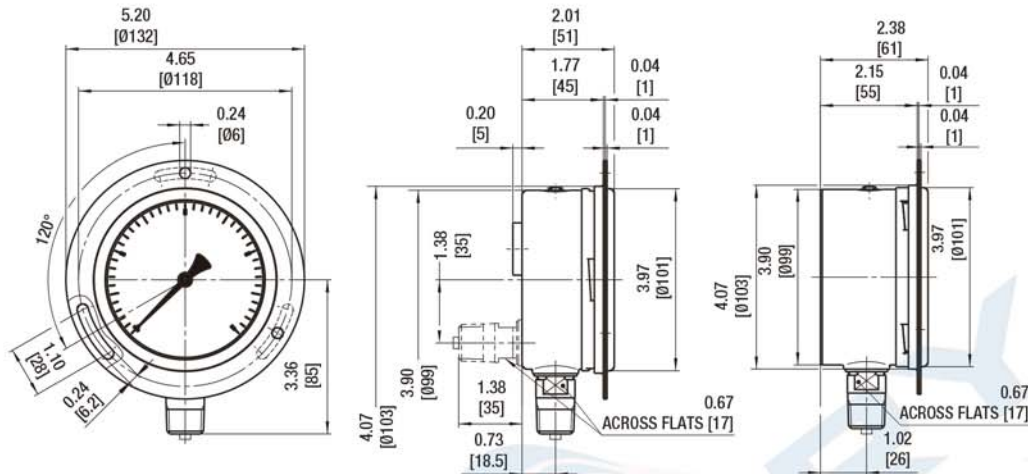
DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings.

T5500, T6500 100mm - Case Option FF

T5500 - 100mm

T6500 - 100mm



T5500, 100mm - Case Option UF

T5500, 160mm - Case Option UF

