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



Type 1032 Sanitary Pressure Gauge







VENT PLUG



FEATURES

- PLUS!™ Performance is available on 21/2," 31/2," 41/2" gauges for liquid filled performance in a dry case gauge.
- · All-welded 316L SS Bourdon tube
- Welded 316L SS diaphragm and seal housing
- USP grade glycerin (99.5% pure, system fill) standard
- 3A compliance to standard 74-03
- 300 SS electropolished case and ring
- Electropolished diaphragm & housing
- Dry and liquid filled gauge versions(1)
- · Weatherproof and hermetically sealed versions
- External Easy Zero™ adjust standard on dry, liquid filled and PLUS!™ 3½"
- Individual calibration certificates provided on request

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 these instruments are also suitable for use in breweries, wineries and citrus juice production plants. Available in dial sizes from 2" thru 4\%" and Tri-Clamp® type connections of 3/" thru 2," Ashcroft's selection of sanitary pressure gauges is unsurpassed.

To meet the needs of the markets served, all Ashcroft 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 21/2" and 31/2" are furnished standard with the patented PowerFlex[™] movement. Since the PowerFlex movement is suspended from the Bourdon tube, it resists the effects of pulsation and vibration, a primary cause for gauge failure.

SPECIFICATIONS

Dial Size: 2"21" 31" 41"

Accuracy: 2": 3% upscale, up to 5% downscale(2) 2½," 3½," 4½": 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: 300 SS electropolished

Ring Type: 2": Stainless steel, friction fit 2½," 3½," 4½": Bayonet, removable

Bourdon Tube and Socket Material: 316L SS

Diaphragm Material & Surface Finish:

316 SS, 12 to 20 RA electropolished

Process Connection:

2" dial size: 3/4" Tri-Clamp 2½," 3½" dial size: 1½" or 2" Tri-Clamp 4½" dial size: 2" Tri-Clamp only

Connection Location: 2": Lower

2½," 3½,"4½": Lower or back

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

Window Material: 2": Glass

2½," 3½": Polycarbonate(3)

4½": Glass

Pointer: 2": Black-painted aluminum, non-adjustable

2½": Black-painted aluminum, adjustable

31/2": Black-painted aluminum with ext. adjust 4½": Black-painted aluminum, adjustable

Dial: White with black markings

Movement: 2," 2½," 3½": 300 SS, 4½": 400 SS

Agency Approvals:

3A compliance to sanitary standard 74-03

Ranges: 2": 30# thru 600#, incl. vac/30 psi lowest 2½," 3½," 4½": 15# thru 1000#, including compound & vacuum

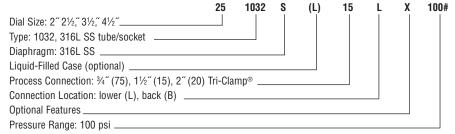
Clean or Steam in Place: (CIP or SIP): Process temperature limit of 280°F (138°C)

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

- (1) 2" 1032 not available liquid filled and not available in ranges below 30psi
- (2) Gasket material and clamp torque tightness may effect gauge accuracy. We use a buna o-ring gasket and 25 inch pounds of clamp force when calibrating. Other gaskets could effect accuracy.
- (3) We recommend a polysulfone window for autoclave/ sterilization. Specify the XPS variation. Available in 31/2" dry gauge only.

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

HOW TO ORDER (Typical Example)

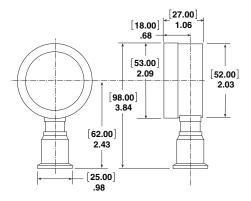


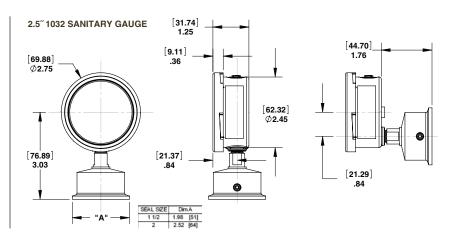


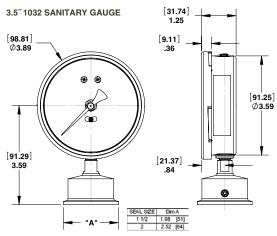
Type 1032 Sanitary Pressure Gauge

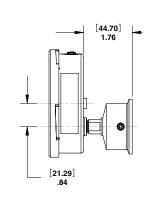
DIMENSIONS

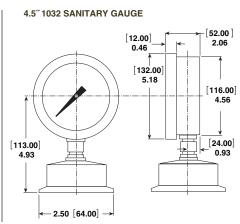
2.0" 1032 SANITARY GAUGE











STANDARD PRESSURE RANGES

Pressure					
psi	Figure int.		Minor grad.		
0/15(1)		1	C).2	
0/30		5	C).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(2)	100		10		
Compound					
	Figure int.		Mino	or grad.	
	in. Hg	psi	in. Hg	psi	
30" Hg/15 psi(1)	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) Not available on 2" 1032					

⁽²⁾ Requires high pressure type clamp.

METRIC PRESSURE RANGES

Pressure							
kg/cm² (kilograms per sq. centimeter)	bar	Figure interval	Minor graduation	kPa (kilopascal)	Figure interval	Minor graduation	psi outer scale of dual range
0/1(1)	0/1	0.1	0.01	0/100	10	1	0/14(1)
0/1.6(1)	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⁾	-1/0	0.1	0.01	-100/0	10	1	30" Hg
Compound							
-1/0/1.5 ⁽¹⁾	-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



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





FEATURES

Type 1036 Sanitary Gauge

- All-welded stainless steel 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 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

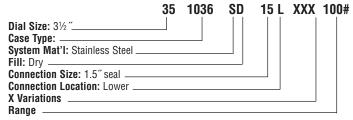
Designed specifically for the pharmaceutical, biotechnology and food processing markets, the Ashcroft® Type 1036 in-line sanitary pressure gauge and Type 1037 sanitary instrument fitting virtually eliminate process dead-leg. The design of the Type 1036 sanitary gauge and instrument fitting allows for the diaphragm of the gauge to be positioned at 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 1½" Tri-Clamp connection. This feature offers flexibility to use the Ashcroft Type 1036 with the Type 1037 instrument fitting on sanitary instrument fittings for pipe sizes from ½" thru 2".

The Ashcroft Type 1036 sanitary pressure gauge 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 (Typical example)



HOW TO ORDER

75-1037

50 – ½" Tri-Clamp connection 75 – ¾" Tri-Clamp connection 10 – 1" Tri-Clamp connection 15 – 1½"Tri-Clamp connection 20 – 2" Tri-Clamp connection





Type 1036 In-Line Sanitary Pressure Gauge with 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: 300 series stainless steel

Ring Type: Bayonet, removable **Bourdon Tube and Socket Material:** 316L stainless steel

Diaphragm Material & Surface Finish: 316L stainless steel. 12 to 20RA

Diaphragm O-Ring: Buna-N(1) (standard)

Viton® (1) (XVD), Teflon(1) (XTD)

Connection Location: Lower

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 stainless steel

Agency Approvals: 3A compliance to sanitary

standard 74-03

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

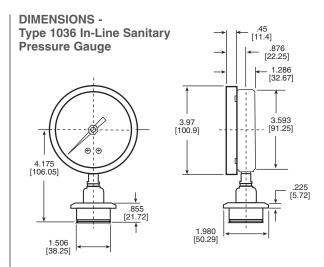
We recommend a polysulfone window for autoclave/sterilization. Specify the XPS variation.

SPECIFICATIONS - Type 1037	CODE
316L stainless steel construction	std.
Wetted parts electropolished to 12 to 20RA surface finish	std.
Heat number stamped on fitting	std.
Sizes:	
½" Tri-Clamp connection	50
¾" Tri-Clamp connection	75
1" Tri-Clamp connection	10
1½ Tri-Clamp connection	15
2" Tri-Clamp connection	20

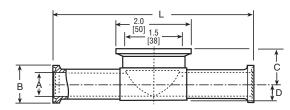
(1) To Ensure Cleanliness:

Prior to reinstalling the Type 1036 in to the Type 1037 instrument fitting, we recommend replacing the O-ring (P/N 185A106-75) Buna-N

185A106-76 Viton 185A106-77 Teflon



DIMENSIONS -Type 1037 Instrument Fitting



Inch/mm	Α	В	С	D	L
1/2"	.38	.98	.81	.31	5.25
50	(9.6)	(24.9)	(20.6)	(7.9)	(133.4)
3/4"	.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)
11/2"	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)



Model KS Sanitary Transmitter



APPLICATIONS:

Dairy, food, pharmaceutical and any 3A sanitary application

- 316L stainless steel electropolished (1½"-2") Tri-Clamp® style diaphragm
- Vac.-1000 psi pressure range
- Stainless steel NEMA 4X enclosure
- Superior long-term stabilityand repeatability
- Current/voltage/millivolt output
- · Wide range of electrical connections available
- All-welded construction

Ashcroft® combines the proven polysilicon thin film technology with its longtime know-how of diaphragm seals to create the KS sanitary pressure transmitter. The all-welded stainless steel construction meets the 3A Sanitary Standard 74-02.

The KS Sanitary Pressure Transmitter features the benefits of polysilicon thin film performance at an affordable price. Modern chemical vapor disposition methods provide simple, stable, molecular bonds between a proven metal diaphragm and polysilicon strain gage bridge. There are no epoxies or bonding agents to contribute to signal instability or drift. The integral metal diaphragm and polysilicon bridge are virtually unaffected by shock, vibration or mounting position.

PERFORMANCE SPECIFICATIONS

Accuracy Class (Span): +1.0%

Includes non-linearity,

(Terminal Point Method), hysteresis,

non-repeatability, zero offset and span setting errors

Best fit straight line (BFSL) ±0.75% Includes non-linearity, hysteresis and

non-repeatability errors

ENVIRONMENTAL SPECIFICATIONS

Temperature

Storage -65/+250°F (-54 to +120°C) Operating (-28 to +82°C) -20/+180°F Compensated +30/+130°F $(0 \text{ to } +50^{\circ}\text{C})$

Thermal Coefficients: (68°F (20°C) ref.) % Span/°F Standard:

±0.04% ZER0 SPAN ±0.04%

Humidity: No performance effect at 95% relative

humidity - noncondensing

FUNCTIONAL SPECIFICATIONS

Standard Ranges (psi)

0/30*† 0/300+ vac./30* 0/500 0/60*† vac./60* $0/100\dot{+}$ 0/750 vac./100†

0/1000 0/150†

0/200†

Consult factory for nonstandard ranges.

*T/C multiply by 1.5 times.

†NEMA 4X only with F2 and C1 electrical connections.

Overpressure: (F.S.)

Proof. 200% Burst 800%

Vibration Sweep: Less than ±0.1% span effect for

0-2000 Hz at 20 g's in any axis

Shock: Less than ±0.05% span effect for 100 g's,

20ms shock in any axis

Position Effect: Less than 0.01% span

ELECTRICAL SPECIFICATIONS

Transmitter Output Signal: 4-20mA (2 wire)

1-5 Vdc (3 wire)

1-6 Vdc (3 wire)

Supply Current: Less than 3mA for voltage output

Power Requirements: 10-36 Vdc unregulated

Reverse polarity protected

Transducer Output Signal:

2m V/V ratiometric

3m V/V ratiometric

10m V/V ratiometric

20m V/V ratiometric

Power Requirements: 5-10 Vdc regulated Circuit to Case Insulation Resistance:

100 M ohms @ 50 Vdc



Model KS Pressure Transducer/Transmitter

PHYSICAL SPECIFICATIONS

Enclosure: NEMA 4X

Weight: 13.5 oz (approx. without cable)

MATERIALS

Case: 300 series stainless steel

Cable: No. 24 AWG, 36? PVC, shielded, vented, UL

approved

Diaphragm: 316L SS, 12-20 Ra surface finish

Standard Process Connections:

316L stainless steel electropolished

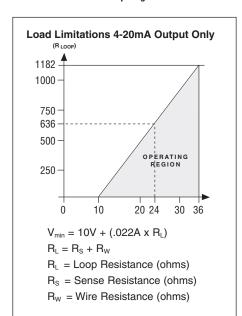
Tri-Clamp® style 1½", 2"

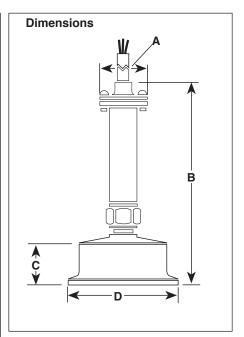
Fill: USP grade 99.5% glycerin fill, contact factory

for other fill fluids

Consult factory for pricing, availability and required minimums for nonstandard products.

WARNING! Sensitive Diaphragm!





MODEL	Α	В	С	D
S15	0.8	4.7	0.9	2.0
S20	0.8	4.7	0.9	2.5

How To Order

