

## Type 1032 Sanitary Pressure Gauge

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



### FEATURES

- **PLUS!™ Performance<sup>(2)</sup>** 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
- 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!™<sup>(2)</sup> (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 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 1" thru 2½".

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.

Since the PowerFlex movement is suspended from the Bourdon tube, it resists the adverse effects of pulsation and vibration, a primary cause for gauge failure.

### SPECIFICATIONS

**Dial Size:** 2½", 3½", 4½"

**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 SS electropolished

**Ring Type:** Bayonet, removable

**Bourdon Tube and Socket Material:** 316L SS

**Diaphragm Material & Surface Finish:** 316L SS, 12 to 20 RA 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<sup>(1)</sup>  
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)<sup>(2)</sup>

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

(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 - NPT	Code - Description	Code - Description	Std.
25 - 2.5"	1032	S - 316 SS Bourdon Tube and Socket	L - Liquid Fill (Food Grade Glycerine Std.) No code - No Liquid Fill	15 - 1.5"	L - Lower	C4 - Individual Certified Calibration Chart	0/15
35 - 3.5"				20 - 2"	B - Back	CF - Halocarbon Filled System	0/30
45 - 4.5"						LL - PLUS! Performance <sup>(2)</sup>	0/60
						NH - Stainless Steel Tag	0/100
						NN - Paper Tag Bonded	0/160
						PS - Polysulfone Window	0/200
						SG - Safety Glass Window	0/300
						CZ - Food Grade Silicone Fill	0/400
							0/600
							0/800
							0/1000

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.

All specifications are subject to change without notice.  
All sales subject to standard terms and conditions.  
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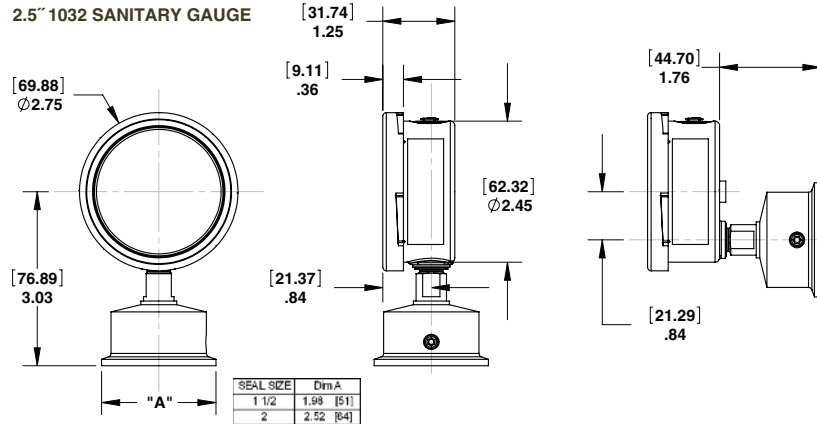
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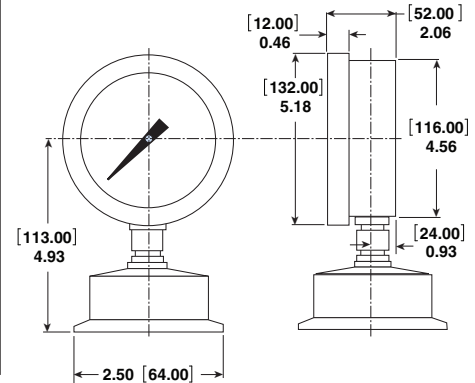
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### DIMENSIONS<sup>(1)</sup>

2.5" 1032 SANITARY GAUGE

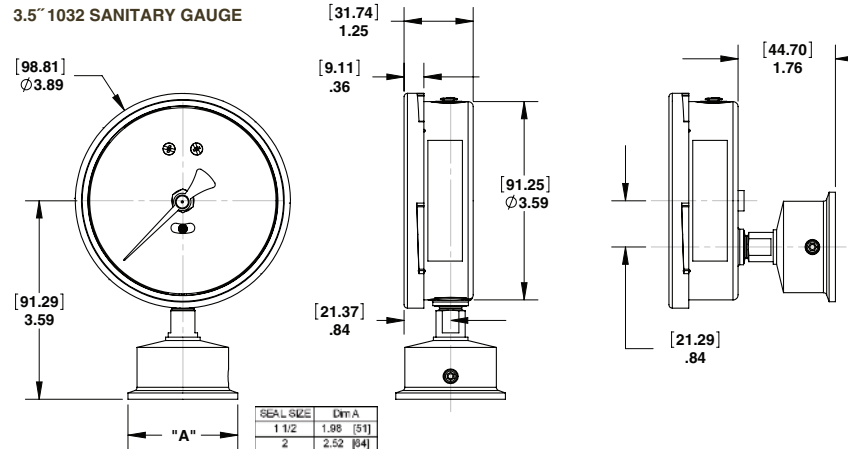


4.5" 1032 SANITARY GAUGE



(1) 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 <sup>(1)</sup>	100	10		
Compound				
	Figure int.	Minor grad.		
	in. Hg	psi		
	in. Hg	psi		
30" Hg/15 psi <sup>(1)</sup>	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 <sup>2</sup>		Figure interval	Minor graduation	kPa	Figure interval	Minor graduation	psi
(kilograms per sq. centimeter)	bar			(kilopascal)			outer scale of dual range
0/1	0/1	0.1	0.01	0/100	10	1	0/14 <sup>(1)</sup>
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 <sup>(1)</sup>	-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