

Products for  
Sanitary Service



## Pressure, Temperature and Control Instruments for Sanitary Applications

**SANITARY PROCESSES:** When you require high productivity and uncompromising hygiene, you need precise pressure control of pumps and dosing machines to help optimize flow rates. From material handling, mixing and pumping to processing and conveying, we have the right solutions for you.

From soda pop to popsicles, from vegetable soup to veggie chips, all food and beverage products have one thing in common - the risk of contamination. Each can, bottle, bag or box that leaves your facility has to be wholesome, safe and meet stringent regulatory standards. Your good name and profitability depend on it. Throughout your complex operations, it's critical that processes run efficiently and hygienic controls and procedures are in place. Whether you're measuring levels in a fermentation tank, discharge pressure from a diaphragm pump or sterilization temperatures, you need accurate and reliable instrumentation.

At Ashcroft®, we're as focused on sanitation as you are. Our experts strive to develop innovative solutions to keep you contamination free. In fact, many of our products have received 3-A® Sanitary Approvals. Gauges with all-stainless steel construction satisfy regulatory requirements and are CIP/SIP capable. While our custom designs for compact pressure switches and transducers fit tight spaces while allowing for Clean-in-place (CIP) and Sterilization-in-place (SIP).

Contact us today at 800-328-825, or visit [www.ashcroft.com](http://www.ashcroft.com)

### PRESSURE GAUGES



**MODEL:** 1032

**DIAL SIZES:** 2", 2½", 3½", 4½"

**ACCURACY:** for 2" model 3% F.S. upscale; 5% downscale – for 2½", 3½", 4½" models 1.5% F.S. 100 psi and above. Below 100 psi, compound and vacuum 2% (these are dry and XLL model accuracies)

**CASE/RING MATERIAL:**  
300 SS electropolished

**TUBE & SOCKET MATERIAL:** 316L SS

**DIAPHRAGM/HOUSING MATERIAL & SURFACE FINISH:**  
316L SS (12-20 Ra) electropolished

**CONNECTION SIZE:**  
¾" Tri-Clamp® for 2" dials and 1½" & 2" Tri-Clamp® for 2½", 3½", 4½" dials

**SYSTEM FILLING:** Food grade glycerine; optional material food grade silicone and others on request

**WINDOW MATERIAL:** 2" and 4½" glass; 2½" and 3½" polycarbonate; Polysulfone optional on 3½" 1032 only

**APPROVALS AND CERTIFICATES:**  
3A listed to standard 74 (sensors and sensor fittings).

**PRESSURE RANGES:**  
2", 30 psi thru 600 psi plus compound; 2½", 3½", 4½" – 15 psi thru 100 psi plus compound & vacuum

**TEMPERATURE LIMITS:** for CIP & SIP 280°F (138°C); for autoclaving 300°F (149°C) only on 3½" with XPS polysulfone

### FLUSH IN-LINE GAUGE AND FITTING SYSTEM



**MODEL:** 1036 (¾" dial size only)

**ACCURACY:** 1.5% F.S. 100 psi and above, 2% F.S. for ranges below 100 psi and compound and vacuum

**CASE/RING MATERIAL:**  
300 SS electropolished

**TUBE & SOCKET MATERIAL:** 316L SS

**DIAPHRAGM/HOUSING MATERIAL & SURFACE FINISH:**  
316L SS (12-20 Ra) electropolished

**CONNECTION:** 1½" Tri-Clamp® mating to 1½" Tri-Clamp® on all size 1037 fittings. Buna N o-ring for sealing.

**SYSTEM FILLING:** Food grade glycerine. Optional material food grade silicone and others on request.

**WINDOW MATERIAL:** Polycarbonate standard; polysulfone optional.

**APPROVALS AND CERTIFICATES:**  
3A listed to standard 74 (sensors and sensor fittings).

**PRESSURE RANGES:** 15 psi thru 600 psi including compound and vacuum.

**TEMPERATURE LIMITS:** for CIP & SIP 280°F (138°C); for autoclaving 300°F (149°C) only when supplied with polysulfone window (XPS)

**MODEL:** 1037 Flush In-Line Sanitary Fittings (Tri-Clamp® Connection)

**SIZES:** ½", ¾", 1", 1½", & 2" Tri-Clamp®

**MATERIAL:** 316L SS, electropolished

**APPROVALS AND CERTIFICATES:**  
Material certs to EN 10204:2004 3.1

## DIGITAL GAUGES



### MODEL:

Battery: 2032/2036 (In-Line)  
4-20mA: 2132/2136 (In-Line)  
12-36Vdc; 2232/2236 (In-Line)

**ACCURACY:** 0.25%

**CASE MATERIAL:** 300 SS

**ENCLOSURE RATING:** NEMA 4, IP65

**WETTED MATERIAL:** 316L SS

**Ra FINISH:** 12 to 20

**TRI-CLAMP:** 1½", 2"

**LCD: DISPLAY:** 5 digit

**BATTERY LIFE (hours):** 1000

**OUTPUT:** 4-20mA

**RANGE:** Vac to 1000 psi

**CIP/SIP:** -10-135°C (14-275°F)

### OPERATING PROCESS

**TEMPERATURE:**  
-10 to 135°C (14-275°F)

### CONNECTION LOCATION:

Lower: direct or remote  
Lower: in-line

**SWITCH ELEMENTS:** (1) or (2) SPDT

### MATERIAL CERTIFICATION:

EN 10204: 2004 3.1

### COMMENT:

- Ashcroft multi-functional sanitary digital gauges with;
- local indication
  - 4-20mA output with unlimited adjustable turndown
  - (1) or (2) SPDT switches adjustable throughout gauge range

**APPROVALS:** 3A



## SWITCHES



**MODEL:** A series, G-series

### ACCURACY:

A series: 2%  
G-series: 1%

### CASE MATERIAL:

A series: 304L SS  
G-series: 316L SS

### ENCLOSURE RATING:

A series: NEMA 4X, 7, 9, IP66  
G-series: NEMA 4, 4X, IP66

**WETTED MATERIAL:** 316L SS

**Ra FINISH:** 12 to 20

### TRI-CLAMP:

A series: ¾", 1½", 2"  
G-series: 1½", 2"

**RANGE:** Vac to 1000 psi

### OPERATING PROCESS

**TEMPERATURE:**  
A series: 18-93°C (0-200°F)  
G-series: 18-149°C (0-300°F)  
Varies by diaphragm material

### CONNECTION LOCATION:

A series: Direct  
G-series: Direct or remote

**APPROVALS:** CSA, UL, 3A



LOOK FOR THESE MARKS ON OUR PRODUCTS

## TRANSMITTERS



**MODEL:** KS, A2

### ACCURACY:

KS: 1% span  
A2: 0.25%, 0.5%, 1% span

**CASE MATERIAL:** 316L SS/304 SS

### ENCLOSURE RATING:

KS: NEMA 4, 4X  
A2: NEMA4, 6, 7, 9, IP65/67

**WETTED MATERIAL:** 316L SS

**Ra FINISH:** 12 to 20

**TRI-CLAMP:** 1½", 2"

### OUTPUT:

KS: 4-20mA, 1-5, 1-6Vdc, millivolt  
A2: 4-20mA, 0-5, 0-10, 1-5, 1-6Vdc,  
0.5-4.5Vdc (ratiometric)

**RANGE:** Vac to 1000 psi

### OPERATING PROCESS

**TEMPERATURE:**  
KS: -28-82°C (-20°-180°F)  
A2: -40-125°C (-40°-257°F)

**CONNECTION LOCATION:** Direct

**APPROVALS:** 3A KS



## THERMOMETERS



**MODEL:** EI (Dry), EL (Liquid), CI (Tamper Resistant)

**ACCURACY:** 1%

**CASE MATERIAL:** 304L SS

**CASE:** 2", 3", 5"

**WETTED MATERIAL:** 316L SS

**Ra FINISH:** 8 to 12 (thermowell)

**TRI-CLAMP:** 1", 1½", 2"

**RANGE:** -50-500°C, (-80-1000°F)

### OPERATING PROCESS

**TEMPERATURE:**  
-50-500°C, (-80-1000°F)

**APPROVALS:** 3A (thermowells)

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



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