

**Instrumentation for Water Treatment  
and Waste Water Industries**



# Ashcroft® pressure, temperature and control instruments

are specifically designed to meet  
the demands of the water treatment  
and wastewater industries.

And along with our high quality,  
rugged instruments, Ashcroft  
provides detailed documentation  
for your critical engineering and  
compliance requirements.

Visit [www.ashcroft.com](http://www.ashcroft.com) for more  
information. Or call us direct at  
800-328-8258 and let one of our  
experts help you specify the right  
instruments for your application.



## Pressure Gauges for Water Treatment and Waste Water Industries

### PRESSURE GAUGES:

Designed to meet the rigors of water treatment and wastewater applications, the family of Ashcroft® dry, liquid filled and **PLUS!**™ Performance pressure gauges is unsurpassed. Ashcroft Duragauge® process gauges have long been the benchmark when a solid front, ASME grade 2A, ½% accuracy pressure gauge is required. Standard exclusive features like a 400 Series stainless steel movement for longer life, an epoxy coated system for corrosion resistance, and the patented Duratube™ Bourdon tube for superior strength are just a few of the reasons these gauges outlast other gauges in the market place.

When pulsation and vibration are present in the process, the patented **PLUS!**™ Performance option provides the performance of a liquid filled gauge, all in a dry gauge. **PLUS!**™ Performance dampens vibration and pulsation, providing an easy-to-read gauge with no fill lines and a steady pointer. **PLUS!**™ provides a wider temperature range over glycerin fill and eliminates costly specialty fluids, as well as the added expense for disposing of a liquid-filled gauge.

Stainless steel case gauges are offered with a rugged, all welded socket-to-case design for superior strength. When vibration and pulsation are a factor, these gauges are also available with the our patented **PLUS!**™ Performance option as well as the patented PowerFlex™ movement for improved shock resistance.

When a superior, low cost commercial-type gauge with bronze wetted parts is a requirement, Ashcroft commercial gauges are available with the PowerFlex™ movement as well as True Zero™ indication. With True Zero™ indication you can be certain that if your gauge reads zero – there truly is zero pressure in your system. You benefit with increased safety, and reduced replacement costs.

### DIFFERENTIAL PRESSURE GAUGES:

Designed to measure the difference between two pressures across filters, strainers or separators, Ashcroft dp gauges offer a unique combination of Bourdon tube design and flexible diaphragm designs. Together, these features provide you with the best value to measure differential pressure on critical applications.

### PROCESS GAUGES



**MODEL:** 1259, 1279, 1279 **PLUS!**™

**ACCURACY:** ±0.5% of span (ASME B 40.1 Grade 2A)

**DIAL SIZES:** 4½"

**CASE STYLE:** Solid front with liquid filling option, Type 1279 with **PLUS!**™ option

**CASE MATERIAL:** 1259 Polypropylene, 1279 Phenolic

**CASE RING MATERIAL:** Cam-lock fiber-glass reinforced thermoplastic

**BOURDON TUBE MATERIAL:**  
1259- 316 Stainless steel, Monel  
1279- 316 Stainless steel, Monel, bronze,

**SOCKET MATERIAL:**  
1259- 316 Stainless steel, Monel  
1279- 316 Stainless steel, Monel brass

**CONNECTION SIZE & LOCATION:**  
¼ NPT or ½ NPT, lower or back (1279 only)

**PRESSURE RANGES:**  
Vacuum to 20,000 psi Including compound

**MOUNTING:** Stem, surface, flush

**WINDOW MATERIAL:**  
Glass, safety glass, acrylic

**POINTER:** Micrometer adjustable

**PROCESS TEMPERATURE LIMITS:**  
–40/150°F (–40/66°C)

CRN Listed

### STAINLESS STEEL CASE GAUGES



**MODEL:** 1008S, 1009 and 2008S

**ACCURACY:** ASME B40.100 and EN837-1 based. 1% full scale, 1.6% full scale

**DIAL SIZES:** 63mm, 100mm, 2½" and 3½"

**CASE MATERIAL:** 300 SS

**CASE/RING STYLE:** 304 SS ring and case; either removal bayonet style (1009) or non-removable crimped style (1008).

**BOURDON TUBE/SOCKET MATERIAL:**  
1008S, 1009S – 316L SS, welded

**CONNECTIONS:**  
¼ NPT lower or lower back

**PRESSURE RANGES:**  
Vacuum through 15,000 psi

**MOUNTING:**  
Stem (direct), panel or surface

**WINDOW MATERIAL:** Polycarbonate

**POINTER:** Adjustable and fixed depending on model selected

**PROCESS TEMPERATURE LIMITS:**  
–40/150°F (–40/66°C)

CRN Listed

RoHS Compliant









## TEMPERATURE SWITCHES



**MODEL:** B, G, L series

**ACCURACY:** 1%

**CASE MATERIAL:**

B & L series: epoxy coated die cast aluminum  
G-series: 316L SS

**ENCLOSURE RATING:**

B series: NEMA 4X, 7, 9, IP66  
G & L series: NEMA 4, 4X, IP66

**THERMAL SYSTEMS:**

316 SS direct mount  
316 SS remote mount

**PROCESS CONNECTION:**

½ NPT direct mount

**RANGE:**

-40 to 750°F (-40 to 400°C)

**APPROVALS:**

CSA, UL, CE



LOOK FOR THESE MARKS  
ON OUR PRODUCTS

## DIAPHRAGM SEALS

510

100

310

**MODEL:** 100, 200, 300, 310, 400 & 510

**TYPES:**

Threaded, flanged, all-welded, in-line

**DIAPHRAGM MATERIALS:**

316L stainless steel, 304L stainless steel, K-Monel, Nickel, Carpenter 20, Tantalum, Hastelloy B, Hastelloy C, Teflon, Viton, Kalrez, Titanium, Halar Coated Monel, Gold Plated 304L stainless steel depending on style

**BOTTOM HOUSING MATERIALS:**

Steel, 304L stainless steel, 316L stainless steel, Hastelloy B, Hastelloy C, Carpenter 20, Monel 400, Inconel 800, Nickel, PVC, Kynar, Titanium depending on style

**PRESSURE RATINGS:** to 9,000 psi

**INSTRUMENT CONNECTION SIZES:**

¼ or ½ NPT

**PROCESS CONNECTION SIZES:**

¼" thru 8" depending on style

**SYSTEM FILL MATERIALS:** Glycerin,

Silicone, Halocarbon, Syltherm

CRN Listed

## ISOLATION RING

TYPE 80  
ISOLATION-RING

**MODEL:** Model: 80/81

**TYPES:** Isolation-Ring – bolt thru or wafer design

**LINER MATERIALS:** Buna N, Viton, Teflon, Nordell (EPDM), natural rubber

**FLANGE MATERIALS:** Steel, 316SS

**PRESSURE RATING** 150 Class and 300 Class Flanges

**INSTRUMENT CONNECTION SIZES:**

¼, ½ NPT

**PROCESS CONNECTION SIZES:**

Isolation-Ring (Type 80) – 2" thru 20"  
Isolation-Ring (Type 81) – 2" thru 10"

**SYSTEM FILL MATERIALS:** Glycerin, Silicone, Halocarbon, Syltherm

## CUSTOMIZED PRODUCT SERVICE

**Multiple Instrument Assemblies:**

When you need multiple instruments, attached to a single diaphragm seal, isolation ring or spool, Ashcroft has an extensive product offering. Consult the factory for availability at 800-328-8258.

**Digital Gauge Assembly:**

The Ashcroft industrial digital gauge combines three instruments in one to give you local indication, 4-20 mA output, and one or two SPDT switches. When attached to a diaphragm seal or isolation ring or spool, this assembly offers digital indication and an extensive list of menu options, all standard. The multiple instrument and digital gauge assemblies save you instrument and installation costs, as well as space and additional pipe cut-out (s).

# Temperature Instruments, Accessories for Water Treatment & Waste Water Industries

## BIMETAL THERMOMETER



### TEMPERATURE:

Ashcroft® bimetal and Duratemp® gas actuated thermometers provide superior durability and dependability, precision temperature readings, 1% accuracy, hermetically sealed cases, and a Maxivision® dial to eliminate parallax error, ensuring accurate temperature readings. Our bimetal thermometers can be externally calibrated and are available as tamper resistant. The Everyangle™ connection allows you to rotate the dial 360° and angle it 180°. The Duratemp gas actuated thermometer offers direct or remote mounting with no head error regardless of the mounting configuration.

### ACCESSORIES:

When an instrument requires protection from damaging severe service applications Ashcroft offers an array of accessories.

- MODEL:** EI series
- ACCURACY:** 1% full span
- DIAL SIZE:** 2", 3" and 5"
- DIAL:** Maxivision® anti-parallax
- CASE STYLE:** Hermetically sealed
- CASE & STEM MATERIAL:** 304 SS
- STEM LENGTHS:** 2"-24" standard. Longer lengths available on application.
- CONNECTION SIZE & LOCATION:** 1/8, 1/4 NPT or 1/4 NPT union, back, lower or everyangle
- MOUNTING:** Everyangle, rear or lower
- RANGES:** -80/120°F - 200/1000°F  
-50/50°C - 100/500°C
- WINDOW:** Heavy duty glass

## DURATEMP® THERMOMETER



- MODEL:** Duratemp®
- ACCURACY:** 1% full span
- DIAL SIZE:** 4 1/2", 6" and 8"
- DIAL:** Maxivision® anti-parallax
- CASE STYLE & MATERIALS:** 5 case styles in stainless steel, aluminum and phenolic
- BULB MATERIAL & SIZE:** 316 SS, 3" long x 3/8" OD bulb
- BULB STYLES:** Rigid extension or 12", 18" or 24" bendable extension
- CONNECTION SIZE & LOCATION:** 1/2 NPT & 1/2 NPT Union Lower or Rear
- MOUNTING:** Direct or remote, surface and flush
- RANGES:** -320/200°F - 400/1200°F  
-200/100°C - 200/650°C
- WINDOW:** Glass
- CAPILLARY:** 300 Series SS spring armor, line lengths of 5-80 ft in standard increments



**Thermowells** are required whenever pressure, velocity or corrosive media exist. Using a thermowell allows you to remove your temperature instrument without shutting down the process. Standard thermowells are made from solid bar stock, in threaded, flanged, or weld configurations. Other materials and configurations are available. Traceability, a variety of testing processes and certifications are also available to meet all your needs.

**Pulsation dampeners and snubbers** protect the instrument from potential wear and damage to the instrument caused by process pulsation. Needle valves provide a means for varying the orifice to accommodate various process pulsation conditions.

**Pressure limiting valves** ensure positive, repeatable performance of the instrument by protecting it against overpressure or pressure surges beyond the range of the instrument. The device automatically shuts off when overpressure occurs and is restored when pressure falls below a preset value.



Ashcroft Inc., 250 East Main Street, Stratford, CT 06614 USA  
Tel: 203-378-8281 • Fax: 203-385-0408  
email: [info@ashcroft.com](mailto:info@ashcroft.com) • [www.ashcroft.com](http://www.ashcroft.com)

All specifications are subject to change without notice.  
All sales subject to standard terms and conditions.  
BULLETIN WW-1 © Ashcroft Inc. 2014

