

**Engineering, Procurement &
Construction Projects**



ENGINEERING

Our instrumentation experts will work closely with you to specify products that meet the needs of the applications – be it a stand-alone product or a custom assembly.

And – if necessary, our Custom Engineered Solutions Team will work with you to modify an existing product. Our on-staff Metallurgist provides a material and chemical analysis to ensure product compatibility with the installation environment.

Along with our technical and application expertise we'll provide product data and installation sheets, 3D and certified dimensional drawings, and performance reports – all to ensure the right product is specified for your application.



PROCUREMENT

Once the products are specified and the procurement process is underway we are there with you to provide:

- Certified Dimensional Drawings and 3D Models
- Hazardous and Toxic Substances Disclosure Statements
- Material Test Reports
- Material Safety Data Sheets
- Positive Material – Identification
- Recommended Spare Parts List
- Certificates: Conformance, Calibration, Material Traceability, and Origin
- Inspection and Test Plan
- Documentation in Accordance to VDR in Hardcopy or Electronic Format
- Wake Frequency Calculator
- NACE Compliant Certification
- Agency Approval Document
- Product Installation Operation and Maintenance Manuals

And when the products are ready for shipping we'll set up an in-plant inspection date and test plan, and provide you with an update on the logistics and timing of your shipment.

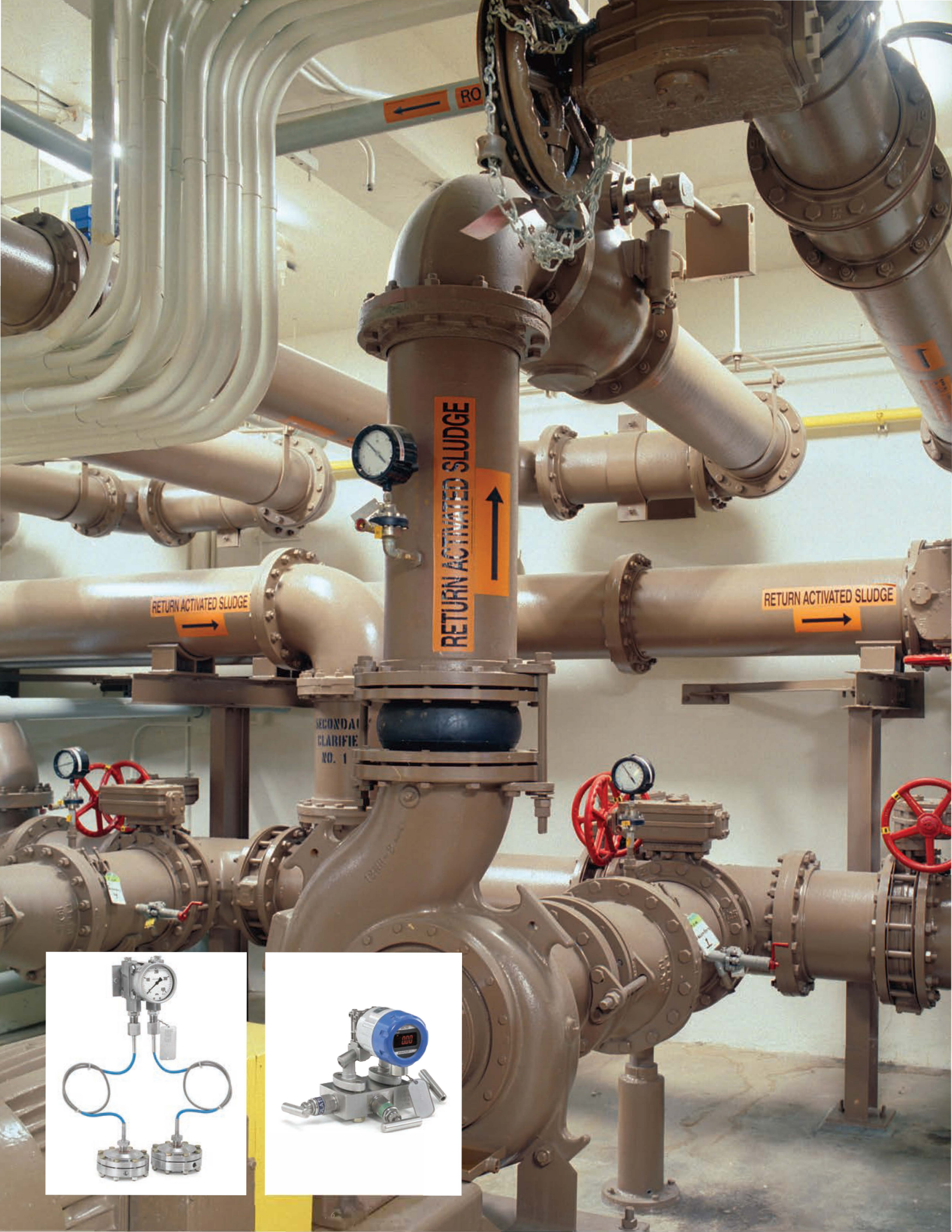


CONSTRUCTION

Our partnership does not end when the instrumentation reaches the construction site.

Our Ashcroft global team and channel partners are ready to assist with additional on-site surveys, provide calibration or diaphragm seal assembly.

Our EPC team is looking forward to partnering with you on your next project.






WHAT'S NEXT?

Please review the following pages for the appropriate products for your next project and contact us for additional application and delivery information.





PRESSURE GAUGES

1279 DURAGAUGE® PRESSURE GAUGE	1259 PROCESS PRESSURE GAUGE	1109 STAINLESS STEEL CASE	T5500 & T6500 PRESSURE GAUGE
			
<p>ACCURACY ASME B 40.100 Grade 2A (±0.5% of span)</p>	<p>ACCURACY ASME B 40.100 Grade 2A (±0.5% of span)</p>	<p>ACCURACY ASME B 40.100 Grade 1A (±1% of span)</p>	<p>ACCURACY CLASS1, EN-837-1 (1% FULL SCALE)</p>
<p>DIAL SIZE 4½"</p>	<p>DIAL SIZE 4½"</p>	<p>DIAL SIZE 4½"</p>	<p>DIAL SIZE 100mm (4"), 160mm (6")</p>
<p>CASE TYPE Solid front, pressure relief back</p>	<p>CASE TYPE Solid front, pressure relief back</p>	<p>CASE TYPE Solid front, pressure relief back</p>	<p>CASE TYPE T6500: Solid front, rear blow-out disk T5500: Open front, rear blow-out disk</p>
<p>WETTED MATERIAL (Optional) 316L stainless steel, bronze/ brass, Monel</p>	<p>WETTED MATERIAL (Optional) 316L stainless steel, Monel</p>	<p>WETTED MATERIAL (Optional) 316L stainless steel, bronze/ brass, Monel, Inconel</p>	<p>WETTED MATERIAL (Optional) 316L stainless steel, Monel</p>
<p>SENSING ELEMENT Bourdon tube</p>	<p>SENSING ELEMENT Bourdon tube</p>	<p>SENSING ELEMENT Bourdon tube</p>	<p>SENSING ELEMENT Bourdon tube</p>
<p>CONNECTION ½ NPT (standard) lower or back ¼ NPT, others (optional)</p>	<p>CONNECTION ½ NPT (standard) lower or back ¼ NPT, others (optional)</p>	<p>CONNECTION ½ NPT (standard) lower or back ¼ NPT, others (optional)</p>	<p>CONNECTION T5500 – lower or back- G½, ½, NPT, M20 T6500 – lower-G½, ½, NPT, M20</p>
<p>RANGES Vacuum, 15 to 30,000 psi, compound Alternate units & scales (optional)</p>	<p>RANGES Vacuum, 15 to 20,000 psi, compound Alternate units & scales (optional)</p>	<p>RANGES Vacuum, 15 to 100,000 psi, compound Alternate units & scales (optional)</p>	<p>RANGES Vacuum, 15 to 20,000 psi, compound Alternate units & scales (optional)</p>
<p>Consult 1279 Duragauge® Datasheet (Bulletin DU-1 1279) for full product details. Available at www.ashcroft.com</p>	<p>Consult 1259 Datasheet (Bulletin PR-1259) for full product details. Available at www.ashcroft.com</p>	<p>Consult 1109 Datasheet (Bulletin PR-1259) for full product details. Available at www.ashcroft.com</p>	<p>Consult T5500/6500 Datasheet (Bulletin T55/65) for full product details. Available at www.ashcroft.com</p>
<p>Usage requiring ½% full scale accuracy in chemical, petrochemical, refinery, oil production, other process, power and general industry.</p>	<p>Usage requiring ½% full scale accuracy in chemical, petrochemical, refinery, oil production, other process, power and general industry.</p>	<p>Stainless steel case Type 1109 applications include water jet or water blasting equipment, offshore platform, etc.</p>	<p>The Ashcroft® T5500 and T6500 all stain- less steel process pressure gauge is one of the finest production gauges on the market for industrial use where precise indications are required</p>

PRESSURE GAUGES

1379 DURAGAUGE® PRESSURE GAUGE	1127 & 1128 DIFFERENTIAL GAUGE	T5503 PRESSURE GAUGE	1009 STAINLESS STEEL GAUGE
			
ACCURACY ASME B 40.100 Grade 2A ($\pm 0.5\%$ of span)	ACCURACY ASME B 40.100 Grade A ($\pm 1-2\%$ of span)	ACCURACY EN-837 (1.6% full scale) ASME B 40.100 Grade A (1.6% or $\pm 1\%$ of full scale)	ACCURACY ASME B40.100 Grade 1A (1% of span)
DIAL SIZE 4½", 6", 8½"	DIAL SIZE 4½", 6"	DIAL SIZE 100mm (4"), 160mm (6")	DIAL SIZE 4½", 6"
CASE TYPE Solid front, pressure relief back	CASE TYPE Open front	CASE TYPE Open front	CASE TYPE Open front
WETTED MATERIAL (Optional) 316L stainless steel, bronze/brass, Monel	WETTED MATERIAL (Optional) 316L stainless steel	WETTED MATERIAL (Optional) 316L /316Ti stainless steel, Hastelloy C, Duratherm	WETTED MATERIAL (Optional) 316L stainless steel, bronze/brass, Monel
SENSING ELEMENT Bourdon tube	SENSING ELEMENT Bourdon tube	SENSING ELEMENT Diaphragm	SENSING ELEMENT Bourdon tube
CONNECTION ½ NPT (standard) lower or back ¼ NPT, others (optional)	CONNECTION ½ NPT (standard) lower	CONNECTION Optional ¼ NPT, 1/2 NPT, G1/4 others	CONNECTION ½ NPT (standard) lower or back ¼ NPT, others (optional)
RANGES Vacuum, 15 to 30,000 psi, compound Alternate units & scales (optional)	RANGES 1127 -10 to 1000 psi differential 1128 - 5 to 500 psid Alternate units & scales (optional)	RANGES 0-600 psi differential 10 IWD to 16,800 IWC Alternate units & scales (optional)	RANGES Vacuum, 15 to 30,000 psi, compound Alternate units & scales (optional)
Consult 1377 Duragauge (Bulletin DU-2 1377) for full product details. Available at www.ashcroft.com	Consult 112/11287 Datasheet (Bulletin IG-1127) for full product details. Available at www.ashcroft.com	Consult T5503 Datasheet (Bulletin DG-5503) for full product details. Available at www.ashcroft.com	Consult 1109 Datasheet (Bulletin SS-1 1009) for full product details. Available at www.ashcroft.com
Usage requiring ½% full scale accuracy in chemical, petrochemical, refinery, oil production, other process, power and general industry.	Applications include filter monitoring, flow, leak and level measurements.	Applications include filter monitoring, flow, leak and level measurement requiring high recovery, all stainless steel.	Low pressure monitoring for general industrial applications on air, liquids or gases.





DIAPHRAGM SEALS

THREADED SEALS	FLANGED SEALS	LOW PRESSURE SEALS	COMPACT ALL-WELDED
			
<p>MODELS 100, 101, 200, 300, 301</p> <p>DIAPHRAGM MATERIALS (WETTED) 316L stainless (standard), Monel 400, Carpenter 20, Hastelloy B, Hastelloy C276, Viton, Teflon, Kalrez, Tantalum, Nickel*</p> <p>LOWER HOUSING (WETTED) 316L Stainless, Hastelloy C276, Hastelloy B, Monel 400, Carpenter 20, Titanium, Tantalum, PVC, Teflon, Kynar</p> <p>TOP HOUSING (NON-WETTED) Carbon Steel (standard), 316L Stainless, Monel 400, Hastelloy C</p> <p>PRESSURE RATING 2500 PSI (metallic lower housings), 270 PSI (Teflon lower housings), 75 PSI (PVC and Kynar lower housings)</p> <p>PROCESS CONNECTION 1/4, 1/2, 3/4, 1, 1-1/2 Female NPT 1/4, 1/2, 3/4, 1 Male NPT</p> <p>FILL FLUIDS Glycerin, Silicone, Halocarbon, Syltherm</p> <p>OPTIONAL FEATURES Single or dual flush ports, High pressure clamp rings (rated 5000 PSI), Instrument welded to seal, Multiple instrument connections, Positive material identification</p>	<p>MODELS 102, 103, 202, 203, 302, 303</p> <p>DIAPHRAGM MATERIALS (WETTED) 316L stainless (standard), Monel 400, Carpenter 20, Hastelloy B, Hastelloy C276, Viton, Teflon, Kalrez, Tantalum, Nickel</p> <p>LOWER HOUSING (WETTED) 316L Stainless, Hastelloy C276, Hastelloy B, Monel 400, Carpenter 20, Titanium, Tantalum, PVC, Teflon, Kynar</p> <p>TOP HOUSING (NON-WETTED) Carbon Steel (standard), 316L Stainless, Monel 400, Hastelloy C</p> <p>PRESSURE RATING Pressure ratings per ASME B16.5 flange classes 150 - 2500, 270 PSI (Teflon lower housings), 75 PSI (PVC and Kynar lower housings)</p> <p>PROCESS CONNECTION 1/4, 1/2, 3/4, 1, 1-1/2, 2, 3 NPT</p> <p>FILL FLUIDS Glycerin, Silicone, Halocarbon, Syltherm</p> <p>OPTIONAL FEATURES Single or dual flush ports, High pressure clamp rings (rated 5000 PSI), Instrument welded to seal, Multiple instrument connections, Positive material identification</p>	<p>MODELS Flanged: 702, 703 Threaded: 740, 741</p> <p>DIAPHRAGM MATERIALS (WETTED) 316L Stainless (standard), Hastelloy B, Hastelloy C276, Tantalum, K Monel, Titanium</p> <p>LOWER HOUSING (WETTED) 316L Stainless, Carbon Steel, Hastelloy C276, Carpenter 20, Monel, Titanium</p> <p>TOP HOUSING (NON-WETTED) Carbon Steel (standard), 316L Stainless</p> <p>PRESSURE RATING For use with instruments ranging from 10" water to 750 psi</p> <p>PROCESS CONNECTION 1/4, 1/2, 3/4, 1 Female NPT 1/2, 3/4, 1, 1-1/2, 2, 3 Flanged</p> <p>FLANGES ASME B16.5 Class 150 and 300, Raised Face (standard), Ring Joint, Flat Face</p> <p>OPTIONAL FEATURES Single or dual flush ports, instrument welded to seal, positive material identification</p>	<p>MODELS 510, 511</p> <p>DIAPHRAGM MATERIALS (WETTED) 316L Stainless (standard), Hastelloy C276, Monel</p> <p>LOWER HOUSING (WETTED) 316L Stainless, Carbon Steel, Hastelloy C276, Carpenter 20, Monel, Titanium</p> <p>PRESSURE RATING For use with instruments ranging from 10" water to 750 psi</p> <p>PROCESS CONNECTION 1/4, 1/2, 1 Male NPT</p>
<p>Ashcroft's line of threaded Diaphragm Seals can be assembled in over 30,000 configurations to protect instrumentation from any process media.</p>	<p>Ashcroft's line of flanged Diaphragm Seals can be assembled in over 30,000 configurations to protect your instrumentation from any process media.</p>	<p>This large volumetric displacement isolator is designed to drive low pressure gauges, switches, and other instruments.</p>	<p>This compact seal is small enough in design to be used in confined spaces, but provides sufficient displacement to drive a wide variety of instrumentation. It's all-welded tamper-proof design prevents possible process media leakage.</p>




DIAPHRAGM SEALS

ISOLATION RING			
<div data-bbox="162 420 430 703" data-label="Image"> </div> <hr/> <p>MODELS Type 80 Wafer, Type 81 Bolt-Thru</p> <hr/> <p>PIPE SIZE Pipe Size 1" - 30" Nominal Pipe Size Bolt-Thru 2" - 20" Nominal Pipe Size Wafer</p> <hr/> <p>HOUSING MATERIALS Carbon Steel, 316L Stainless, PVC, CPVC</p> <hr/> <p>FLEXIBLE LINER Buna N, Teflon, Silicone, Viton, Natural Rubber</p> <hr/> <p>OPTIONAL FEATURES Safe Quick Release, Needle Valve, Instrument welded to Ring, Retrofit flanges, Multiple instrument connections</p> <hr/> <p>Ashcroft's newly-redesigned Isolation Ring features a 360° flexible liner resistant to clogging, which allows for reliable and accurate pressure readings</p>			

TEMPERATURE INSTRUMENTS

EI, CI & EL INDUSTRIAL BIMETAL THERMOMETERS	600A & 600B DURATEMP® THERMOMETERS	AI, AE, AM, A3B BIMETAL THERMOMETERS PER EN13190	THERMOWELLS
			
<p>ACCURACY ASME B 40.3 Grade A ($\pm 1\%$ of span)</p>	<p>ACCURACY ASME B 40.3 Grade A ($\pm 1\%$ of span)</p>	<p>ACCURACY Class 1 (dry) Class 2 (Liquid filled) according to EN13190</p>	<p>Thermowells are required whenever pressure, velocity or corrosive media exist. Using a thermowell also 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. A variety of materials and configurations are available. We offer traceability certifications, wake frequency calculations and a large selection of testing processes to meet all your needs.</p>
<p>DIAL SIZE EI, CI 2, 3, 5" (EL 3, 5")</p>	<p>DIAL SIZE 600A – 4 1/2", 6" 600B – 4 1/2"</p>	<p>DIAL SIZE 100mm and 160mm</p>	<p>STYLES Threaded, flanged, van stone, weld-in, socket weld, limited space and sanitary.</p>
<p>STEM/BULB DESIGN Rigid stem 0.250" dia.</p>	<p>STEM/BULB DESIGN Rigid stem 0.375" dia. (600B) Bendable 0.375" dia. (600A)</p>	<p>STEM/BULB DESIGN Rigid stem 6mm, 8mm, 0.25, 0.375" dia.</p>	<p>FLANGE TYPES Flat, raised, ring joint or lap joint with ratings 150#, 300#, 600#, 1500# and 2500# per ASME B16.5</p>
<p>RECALIBRATOR (EI, EL external), (CI none)</p>	<p>RECALIBRATOR Adjustable pointer</p>	<p>RECALIBRATOR Optional (EA)</p>	<p>PROCESS CONNECTION Standard Threaded 1/2", 3/4" and 1", Standard flanged, 1", 1 1/2" and 2" others available on application</p>
<p>SEALING DESIGN Hermetically sealed; EL liquid filled</p>	<p>SEALING DESIGN Weatherproof</p>	<p>SEALING DESIGN Hermetically sealed IP66, IP65 for variation EA (external adjust)</p>	<p>SHANK TYPE Tapered, straight and stepped.</p>
<p>DAMPENING Silicone-dampened bimetal coil; EL liquid filled</p>	<p>DAMPENING Silicone-encapsulated helical Bourdon tube</p>	<p>DAMPENING Silicone damped bimetal coil or L liquid filled</p>	<p>BORES Standard bore sizes .260 and .385 other available on request</p>
<p>CONNECTION LOCATION EI rear, lower, Everyangle™ mount CI rear, lower EL rear, Everyangle mount</p>	<p>CONNECTION LOCATION 600A – rear, lower – remote mount 600B – Everyangle – direct mount</p>	<p>CONNECTION LOCATION Rear, Lower Every angle</p>	<p>MATERIALS 304SS/L, 316SS/L, monel, hastelloy, super duplex, carpenter 20, F11 or F22 chrome molly, brass, carbon steel are just a sampling of the large assortment of materials available.</p>
<p>CONNECTION SIZES (NPT) Plain 1/4 (2" sizes only) 1/2 and 3/4 fixed or union (3, 5" sizes only)</p>	<p>CONNECTION SIZES (NPT) 1/2" fixed or union</p>	<p>CONNECTION SIZES (NPT) G 1/2 male, G 1/2 female, 1/2 NPT male or female, G 3/4 A male, G 3/4 female, 3/4 NPT male or female, G1A male, G1A female, 1" NPT male or female. Fixed adjustable or swivel nut</p>	<p>VARIATIONS AND TESTING Full penetration welds, cap/chain, tags, special markings, special coatings, exotic sheath materials, hydrostatic testing, ultrasonic testing, X-ray, PMI, dye penetrant, oxygen cleaning and wake frequency calculations are just some of the available variations, testing and certifications.</p>
<p>STEM LENGTH 2 1/2 - 60"</p>	<p>STEM LENGTH 6" - 36" – 600B</p>	<p>STEM LENGTH 63-1000mm. Minimum stem length depends on range</p>	<p>WINDOW Standard glass, optional acrylic or safety glass</p>
<p>RANGES –80°F to 1000°F, –50°C to 500°C EL –40°F to 550°F, –20°C to 300°C</p>	<p>RANGES –320°F to 1200°F –200°C to 650°C</p>	<p>RANGES –320°F to 1200°F –200°C to 650°C</p>	<p>OPTIONAL ATEX approved</p>
<p>CASE/RING MATERIAL 304 SS with optional 316 SS for 5" only</p>	<p>CASE/RING MATERIAL Stainless steel, aluminum, phenol</p>	<p>CASE/RING MATERIAL 304SS with optional 316SS</p>	<p>OPTIONAL ATEX approved</p>
<p>BULB MATERIAL 304 SS with optional 316 SS</p>	<p>CASE/BULB MATERIAL Stainless steel</p>	<p>CASE/BULB MATERIAL Stainless steel</p>	<p>OPTIONAL ATEX approved</p>
<p>WINDOW EI, CI glass (EL Polycarbonate)</p>	<p>CAPILLARY MATERIAL 600A– 300 Series stainless steel</p>	<p>CAPILLARY MATERIAL 600A– 300 Series stainless steel</p>	<p>OPTIONAL ATEX approved</p>
<p>OPTIONAL ATEX approval</p>	<p>WINDOW Glass</p>	<p>WINDOW Standard glass, optional acrylic or safety glass</p>	<p>OPTIONAL ATEX approved</p>
<p>EN13190 Also available on application</p>	<p>WINDOW Glass</p>	<p>OPTIONAL ATEX approved</p>	<p>OPTIONAL ATEX approved</p>
<p>General industrial temperature applications including gases, liquids, and other processes. All stainless steel construction.</p>	<p>Rugged applications including gases, liquids and other processes. Wide temperature ranges including remote monitoring.</p>	<p>Standard glass, optional acrylic or safety glass</p>	<p>ATEX approved</p>







TEMPERATURE INSTRUMENTS

AR10 RTD'S & AT10 AND AT10 THERMOCOUPLES	AR20 RTD'S AND AT20 THERMOCOUPLES	AT30 SKIN TYPE THERMOCOUPLES
		
FOR STANDARD PROCESSES AND EXPLOSIVE ENVIRONMENTS	FOR INDUSTRIAL PROCESSES AND EXPLOSIVE ENVIRONMENTS	FOR STANDARD PROCESSES AND EXPLOSIVE ENVIRONMENTS
TEMPERATURE RANGES RTDs Pt 100 -200 to +600°C Pt 1000 -40 to +600°C Thermocouples Type J -40 to +750°C Type E -200 to +800°C Type K -200 to +1000°C Type N -200 to +1000°C	TEMPERATURE RANGES RTDs Pt 100 -200 to +600°C Pt 1000 -40 to +600°C Thermocouples Type J -40 to +750°C Type E -200 to +800°C Type K -200 to +1000°C Type N -200 to +1000°C	TEMPERATURE RANGES Thermocouples Type J -40 to +750°C Type K -200 to +1000°C
INSERT STEM DIAMETERS 3 mm, 4.5 mm, 6 mm, 8 mm	INSERT STEM DIAMETERS 3 mm, 4.5 mm, 6 mm, 8 mm, 1/8", 3/16", 1/4"	INSERT STEM DIAMETERS 6 mm, 8 mm, 3/8"
STEM LENGTHS Min: 0.05 m / 2 in. Max: 100 m / 3937 in.	STEM LENGTHS Min: 0.05 m / 2 in. Max: 100 m / 3937 in.	STEM LENGTHS Min: 0.05 m / 2 in. Max: 100 m / 3937 in.
STEM MATERIALS AISI 316 SS	STEM MATERIALS AISI 316 SS, Inconel 600	STEM MATERIALS AISI 316 SS, Inconel 600, AISI 466 SS
AVAILABLE APPROVALS AR10 – IEC 60751 AT10 – IEC 60584-2 or ANSI MC 96.1	AVAILABLE APPROVALS AR10 – IEC 60751 AT10 – IEC 60584-2 or ANSI MC 96.1	AVAILABLE APPROVALS IEC 60584-2, ANSI MC 96.1
EXPLOSIVE ENVIRONMENTS (ALL) EN/IEC 60079-0, ATEX, IECx (per EN/IEC 60079-11)	EXPLOSIVE ENVIRONMENTS (ALL) EN/IEC 60079-0, ATEX, IECx (per EN/IEC 60079-11)	EXPLOSIVE ENVIRONMENTS (ALL) EN/IEC 60079-0, ATEX, IECx (per EN/IEC 60079-11)





PRESSURE & TEMPERATURE SWITCHES

DDS-SERIES DIFFERENTIAL PRESSURE SWITCH DIAPHRAGM SENSING ELEMENT	MINIATURE EXPLOSION PROOF PRESSURE SWITCHES	SINGLE SETPOINT WATERTIGHT ENCLOSURES	SINGLE SETPOINT EXPLOSION PROOF ENCLOSURES
 <p>250 psi DDS-Series Differential Pressure Switch</p> <p>15000 psi DDS-Series Differential Pressure Switch</p>	<p>A-SERIES</p>  	<p>B-SERIES</p>  	<p>B-SERIES</p>  
<p>FEATURES</p> <p>Ranges: 0-6 IWD TO 0-150 IWD</p> <p>Static Pressure Ranges: 250 PSI or 1500 PSI</p> <p>Rugged: NEMA 4X & 12 Housing Std. Class I, Div. I, Gr. C & D Available SPDT or DPDT Contacts</p> <p>Maximum Ambient Temperature: 180°F</p> <p>Minimum Ambient Temperature: -20°F</p> <p>Pressure Connection: 1/4 NPT Female</p> <p>Electrical Connection: 3/4 NPT Female</p> <p>Housing: Cast Aluminum</p> <p>Deadband: Fixed</p> <p>Sensitivity: 1% of range</p> <p>Drift: <1% of range (100,000 operations)</p> <p>Weight: Approximately 6 lbs.</p> <p>Contact Ratings: 15A-125, 250, 480 VAC (general purpose other micro switches available)</p> <p>Contact Listings: UL Listed</p> <p>Port Material: Aluminum or Stainless Steel</p> <p>Diaphragm Material: Buna N, Viton or Teflon</p> <p>Setpoint Adjustment: Screw type, field adjustable</p>	<p>FEATURES</p> <p>Enclosure: NEMA 7/9 explosion proof, IP66</p> <p>Switch Function: Single setpoint, fixed deadband, factory set SPDT or DPDT contacts, not field adjustable (or) Single setpoint, fixed deadband, field-adjustable SPDT or DPDT contacts</p> <p>Wetted Material: Stainless steel (Buna N, Viton® or welded diaphragm actuator) Single Switch – SPDT Dual Switch DPDT (not available with “S” actuator) with <100 psi range</p> <p>Ranges: Vac thru 7500 psi.</p> <p>U.L. and CSA LISTED</p> <p>AM, ATEX, IECE, SIL 3 capable</p>	<p>FEATURES</p> <p>Enclosure: Watertight epoxy-coated aluminum NEMA 4, 4X, IP66</p> <p>Switch Function: Single setpoint, fixed deadband, SPDT (or) Single setpoint, fixed deadband, (2) SPDT (DPDT action)</p> <p>Wetted Materials: Stainless steel and Buna, *Teflon® or Viton® (or) All-welded stainless steel (or) All-welded Monel</p> <p>Ranges: Pressure: vac. thru 3000 psi Temperature: -40°F thru 750°F Differential Pressure: 30 in.H₂O diff. thru 600 psid H-Series Pressure: 1000-7500 psi</p> <p>U.L. and CSA LISTED</p>	<p>FEATURES</p> <p>Enclosure: Explosion proof, NEMA 7/9, IP66</p> <p>Switch Function: Single setpoint, fixed deadband, SPDT (or) Single setpoint, fixed deadband, (2) SPDT (DPDT action)</p> <p>Wetted Materials: Stainless steel, Buna, Teflon® or Viton® (or) All-welded stainless steel (or) All-welded Monel</p> <p>Ranges: Pressure: vac. thru 3000 psi Temperature: -40°F thru 750°F Differential Pressure: 30 in.H₂O diff. thru 600 psid</p> <p>U.L. or CSA LISTED, ATEX and IECEx models for Hazardous locations now available.</p> <p>Dual Seal Rating now available</p>
 <p>LOOK FOR THIS MARK ON OUR PRODUCTS</p> <p>The Ashcroft DDS-Series differential pressure switch is designed to sense low differential pressures between high pressure sources.</p>	<p>LOOK FOR THESE MARKS ON OUR PRODUCTS</p>  <p>CRN  (Stainless Steel Enclosure)</p> <p>You should consider Ashcroft A-Series pressure switches for use on heavy vehicles, engines and compressors, electronics processing and medical equipment, food and beverage processing equipment, garbage compactors, machine tools, or any equipment where space is a consideration. This series is especially suitable for OEM configuration.</p>	<p>*Registered trademark of E. I. DuPont</p> <p>LOOK FOR THESE MARKS ON OUR PRODUCTS</p>  <p>General purpose switches for most industrial and process applications. Models are available for steam and fuel pressure-limit controls on boilers and burners. Ideal for compressors, turbines, filters, blowers, etc.</p>	<p>LOOK FOR THESE MARKS ON OUR PRODUCTS</p>  <p>Ashcroft 700 series has been developed for most applications found in process plants U.L. or CSA LISTED. All models have similar performance characteristics to the popular Ashcroft B400 Series switch line, which has been used throughout the world's plants and mills for over 25 years. They feature rugged, reliable diaphragm-sealed piston actuators, snap-acting contacts and all-popular wetted materials and process connections. Dual Seal Rating models available. Optional hermetically sealed contacts, Monel or fire-safe actuators and scores of options allow you to choose a model for any application.</p>

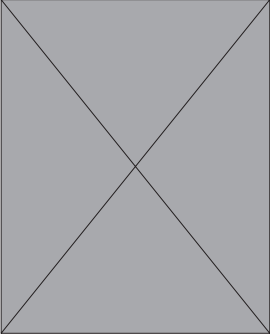
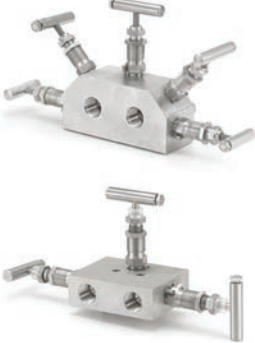

TRANSDUCERS AND TRANSMITTERS

TYPE GC51 RANGEABLE	TYPE GC52 RANGEABLE WET/WET DIFFERENTIAL PRESSURE TRANSMITTER	A2X EXPLOSION/FLAME PROOF																																			
																																					
<p>ACCURACY: ±0.25% Span (URL)0</p> <p>ANALOG OUTPUT: 4-20mA (2-wire)</p> <p>DISPLAY TYPE: 4 digit, 10mm LCD with LED backlight</p> <p>STANDARD RANGES (Compound): -15 to 15 psi thru -15 to 50 psi</p> <p>STANDARD RANGES (Gauge): 50 to 7500 psig</p> <table border="1"> <thead> <tr> <th>Overpressure (Span):</th> <th>Proof</th> <th>Burst</th> </tr> </thead> <tbody> <tr> <td>1500 psi and below</td> <td>200%</td> <td>500%</td> </tr> <tr> <td>3000, 5000 psi</td> <td>150%</td> <td>300%</td> </tr> <tr> <td>7500 psi</td> <td>120%</td> <td>150%</td> </tr> </tbody> </table> <p>ENVIRONMENTAL RATING: IP65 / NEMA 4X</p> <p>MEDIA: Fluids and gases compatible with 316SS and pH17-4 stainless steel</p> <p>AGENCY APPROVALS: CE</p>	Overpressure (Span):	Proof	Burst	1500 psi and below	200%	500%	3000, 5000 psi	150%	300%	7500 psi	120%	150%	<p>ACCURACY: ±0.50% Span (URL)</p> <p>OUTPUT SIGNAL: 4-20mA (2 Wire)</p> <p>DISPLAY TYPE: 4 digit, 10mm LCD with LED backlight</p> <p>STANDARD RANGES (Bi-Directional, Inches W.C.): ±4 to ±200 i.w.c.</p> <p>STANDARD RANGES (Uni-Directional, Inches W.C.): 0 to 4 thru 400 i.w.c.</p> <p>STANDARD RANGES Static (Line) Pressure:</p> <table border="1"> <thead> <tr> <th>Pressure Range</th> <th>Proof</th> <th>Burst</th> </tr> </thead> <tbody> <tr> <td>All</td> <td>300 psi</td> <td>800 psi</td> </tr> </tbody> </table> <p>Static (Line) Pressure Effects:</p> <table border="1"> <thead> <tr> <th>Pressure Range</th> <th>Effect</th> </tr> </thead> <tbody> <tr> <td>≥20" W.C., ±8" W.C.</td> <td>±0.3% Span/100 psi</td> </tr> <tr> <td>8" W.C., ±4" W.C.</td> <td>±0.7% Span/100 psi</td> </tr> <tr> <td>4" W.C.</td> <td>±1.5% Span/100 psi</td> </tr> </tbody> </table> <p>Single Side (Differential) Limits:</p> <table border="1"> <thead> <tr> <th>Pressure Range</th> <th>Proof</th> <th>Burst</th> </tr> </thead> <tbody> <tr> <td>≤8" W.C., ±4" W.C.</td> <td>30 psid</td> <td>130 psid</td> </tr> <tr> <td>≥20" W.C., ±8" W.C.</td> <td>100 psid</td> <td>130 psid</td> </tr> </tbody> </table> <p>MEDIA: Fluids and gases compatible with 316SS, Viton and Coramic</p> <p>ENVIRONMENTAL RATING: IP65 / NEMA 4X</p> <p>AGENCY APPROVALS: CE</p>	Pressure Range	Proof	Burst	All	300 psi	800 psi	Pressure Range	Effect	≥20" W.C., ±8" W.C.	±0.3% Span/100 psi	8" W.C., ±4" W.C.	±0.7% Span/100 psi	4" W.C.	±1.5% Span/100 psi	Pressure Range	Proof	Burst	≤8" W.C., ±4" W.C.	30 psid	130 psid	≥20" W.C., ±8" W.C.	100 psid	130 psid	<p>ACCURACY: ±0.25, ±0.5, ±1.0% Span</p> <p>OUTPUT: 4-20mA, 0-5Vdc, 0-10Vdc, 1-5Vdc, 1-6Vdc, 0.5-4.5Vdc (ratiometric)</p> <p>STANDARD RANGES: 15 to 7500 psi absolute, 1.5 to 10,000 psig, compound to 100 psig Overpressure: (Varies w/pressure range) Proof: up to 2 x Span Burst: up to 4 x Span</p> <p>ENVIRONMENTAL RATING: Ingress Protection Rating: IP65; NEMA 7,9</p> <p>AGENCY APPROVALS: Explosion Proof – cUL (USL/CNL): Flame Proof – ATEX: Intrinsically Safe – FM (4-20mA) – CE</p>
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 <p>LOOK FOR THIS MARK ON OUR PRODUCT</p> <p>Compact pressure transmitter used to monitor wet/dry media pressures within process automation, hydraulic systems, compressors, pumps and tank level applications.</p>	 <p>LOOK FOR THIS MARK ON OUR PRODUCT</p> <p>Uniquely compact wet/wet differential pressure transmitter, ideal for flow and tank level applications where reliable, low dP measurements are required. This instrument can be adjusted to rearrange the transmitter and offers flow measurement/square root extraction where the flow rate can be displayed and analog signal can be output. Equipped with the patented SiGlas™ 316 Stainless Steel isolated sensor, it can monitor a wide variety of wet or dry media.</p>	<p>LOOK FOR THESE MARKS ON OUR PRODUCTS</p>  <p>The Ashcroft® A2X is ideal for a broad spectrum of pressure sensing applications where explosion/flameproof hazardous location ratings are required. The A2X pressure transmitter offers all 316L SS wetted materials and features excellent accuracy and stability for reliable measurements over the life of the instrument.</p>																																			

ACCESSORIES

TYPE 1098 COIL SIPHON	TYPE 1098 PIGTAIL SIPHON	COOLING TOWER	PRESSURE LIMITING VALVE
			
<p>AVAILABLE MATERIALS Iron, Brass, A-106 seamless steel, Grade A, A-213 seamless steel, Grade T 22, Seamless 316 stainless steel</p> <p>AVAILABLE CONNECTIONS 1/4" Male, 1/2" Male</p> <p>MAX PRESSURE LIMIT Iron - 500 psi @ 400°F, Brass - 250 psi @ 400°F, A-106 Steel - 3740 psi@ 400°F A-213 Steel - 9550 psi @ 400°F 316 SS - 5840 psi @ 100°F</p> <p>MAX TEMPERATURE LIMIT A-106 Steel - 1000°F A-213 Steel - 1200°F 316 SS - 1500°F</p> <p>APPLICATIONS Steam Process Dissipates Heat Absorbs Pulsations</p>	<p>AVAILABLE MATERIALS Iron, Brass, Stainless Steel</p> <p>AVAILABLE CONNECTIONS 1/4" Male, 1/2" Male</p> <p>MAX PRESSURE LIMIT Iron - 500 psi @ 400°F, Brass - 250 psi @ 400°F,</p> <p>MAX TEMPERATURE LIMIT A-106 Steel - 1000°F A-213 Steel - 1200°F 316 SS - 1500°F</p> <p>APPLICATIONS Steam Process Dissipates Heat Absorbs Pulsations</p>	<p>AVAILABLE MATERIALS 316 SS</p> <p>AVAILABLE CONNECTIONS 1/4" Male, 1/4" Female, 1/2" Male, 1/2" Female</p> <p>MAX PRESSURE LIMIT 6200 psi @ 400°F</p> <p>MAX TEMPERATURE LIMIT 750°F</p> <p>APPLICATIONS Steam Process Dissipates Heat Reduces Impact of Pressure Spikes</p>	<p>AVAILABLE MATERIALS Brass, 303 SS, 316 SS</p> <p>AVAILABLE CONNECTIONS 1/4", 1/2" (316 SS only)</p> <p>MAX PRESSURE LIMIT Brass - 10-150 PSI 303 SS - 150-500 PSI 316 SS - 1000-3000 PSI</p> <p>APPLICATIONS Isolates Instrument in Event of Over Pressure</p>

ACCESSORIES

BLOCK & BLEED VALVES	3-WAY/5-WAY MANIFOLD	ARMoured CAPILLARIES
		
<p>AVAILABLE MATERIALS Components include: 316, 316L, 316Ti and 304 Stainless Steel</p> <p>AVAILABLE CONNECTIONS 1/2" Male, 1/2" Female, 1/2" Male, 1/2" Female</p> <p>MAX PRESSURE LIMIT 5000 psi @ 400°F, 6000 psi @ 200°F</p> <p>MAX TEMPERATURE LIMIT 6000 psi</p> <p>APPLICATIONS Isolates Instrument from Process for Service</p>	<p>AVAILABLE MATERIALS Components include: 316, 316L, 316Ti and 304 Stainless Steel</p> <p>AVAILABLE CONNECTIONS 1/2" Male, 1/2" Female,</p> <p>MAX PRESSURE LIMIT 5000 psi @ 400°F, 6000 psi @ 200°F</p> <p>MAX TEMPERATURE LIMIT 6000 psi</p> <p>APPLICATIONS Isolates Dual Port Instrument from Process for Service</p>	<p>AVAILABLE MATERIALS 316 SS Connections, 304SS Capillary Tube</p> <p>AVAILABLE CONNECTIONS 1/4" M/F, 1/2" M/F connections available on either side. All configurations available.</p> <p>MAX PRESSURE LIMIT 10,000 psi</p> <p>MAX TEMPERATURE LIMIT -300°F – 750°F</p> <p>APPLICATIONS Absorbs Pulsation Dissipates Heat Reduces Impact of Pressure Spikes Protects from Vibration</p>

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