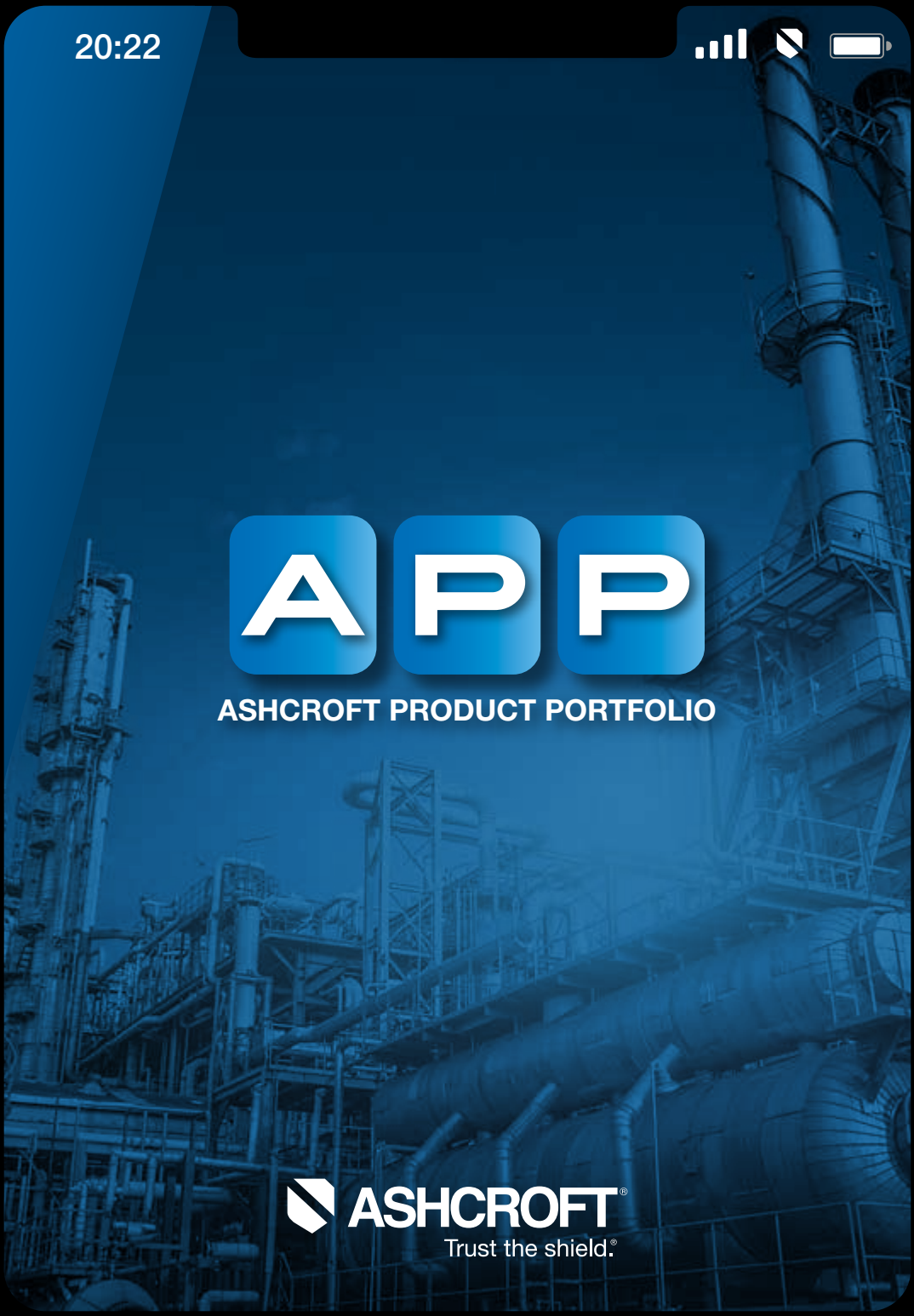
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APP
ASHCROFT PRODUCT PORTFOLIO
ASHCROFT®
Trust the shield.®

/ WE ARE MANUFACTURER

of the world's most reliable pressure &
temperature measuring instruments.

/ ASHCROFT PRODUCTS

Our products have become industry standard. With their high reliability, versatility and performance, they are the ideal devices for your application.

/ PRESSURE

We can do it, especially well under pressure.
In doing so, we set and continue to set global industry standards.
Whether transmission, switching or display, electronic or mechanical.

/ TRANSDUCERS & TRANSMITTERS

PB55 PROCESS PRESSURE TRANSMITTER BRONZE SERIES

ASHCROFT® Bronze Series Process Pressure Transmitters are used worldwide for continuous data acquisition in the oil & gas, chemical, power, water and waste water industries.

KEY FEATURES

- / All stainless steel design
- / Strong flush mounted diaphragm
- / Active temperature compensation
- / 4-20 mA / 2 wire output
- / Optional digital local display with several options
- / Zero and span adjustment
- / Wide selection of electrical & process connections

SPECIFICATIONS

- / Accuracy: (of adjusted range) ±0.2%
- / Operating Temperature: -20 °C to 80 °C
- / Pressure Ranges: 0.1 to 80 bar (4:1 turndown), optional absolute pressure
- / Ingress Rating: IP66 or IP68
- / Diaphragm Material: 1.4404/316L or optional Hastelloy C
- / Case Material: 1.4301/304 or optional 1.4404/316L stainless steel

/ TRANSDUCERS & TRANSMITTERS

CB55 PRESSURE TRANSMITTER BRONZE SERIES CLEANLINE

ASHCROFT® Bronze Series CleanLine Pressure Transmitters are used worldwide for continuous data acquisition in the food and beverage, biotechnology and pharmaceutical industries.

KEY FEATURES

- / All stainless steel design
- / Strong flush mounted diaphragm
- / Active temperature compensation
- / 4-20 mA / 2 wire output
- / Optional digital local display with several options
- / Zero and span adjustment
- / Wide selection of electrical & process connections

SPECIFICATIONS

- / Accuracy: (of adjusted range) ±0.2%
- / Operating Temperature: -20 °C to 100 °C
- / Pressure Ranges: 0.1 to 80 bar (4:1 turndown), optional absolute pressure
- / Ingress Rating: IP66 or IP68
- / Diaphragm Material: 1.4404/316L or optional gold-plated, Hastelloy C or Tantalum
- / Case Material: 1.4301/304 or optional 1.4404/316L stainless steel

/ TRANSDUCERS & TRANSMITTERS

PS55 PROCESS PRESSURE TRANSMITTER SILVER SERIES

ASHCROFT® Silver Series Process Pressure Transmitters are used worldwide for continuous data acquisition in the oil & gas, chemical, power, water and waste water industries.

KEY FEATURES

- / All stainless steel design
- / Strong flush mounted diaphragm
- / Active temperature compensation
- / Optional HART® protocol with 4-20 mA / 2 wire output
- / Digital local display with several options
- / Easy local adjustments using 3 pushbuttons
- / HART DTM available for Microsoft Windows® OS
- / Wide selection of electrical & process connections

SPECIFICATIONS

- / Accuracy: (of adjusted range) ±0.2%, optional ±0.1%
- / Operating Temperature: -20 °C to 80 °C
- / Pressure Ranges: 0.1 to 80 bar (4:1 turndown), optional absolute pressure
- / Ingress Rating: IP66 or IP68
- / Diaphragm Material: 1.4404/316L or optional Hastelloy C
- / Case Material: 1.4301/304 or optional 1.4404/316L stainless steel

/ TRANSDUCERS & TRANSMITTERS

CS55 PRESSURE TRANSMITTER SILVER SERIES CLEANLINE

ASHCROFT® Silver Series CleanLine Pressure Transmitters are used worldwide for continuous data acquisition in the food and beverage, biotechnology and pharmaceutical industries.

KEY FEATURES

- / All stainless steel design
- / Strong flush mounted diaphragm
- / Active temperature compensation
- / Optional HART® protocol with 4-20 mA / 2 wire output
- / Digital local display with several options
- / Easy local adjustments using 3 pushbuttons
- / HART DTM available for Microsoft Windows® OS
- / Wide selection of electrical & process connections

SPECIFICATIONS

- / Accuracy: (of adjusted range) ±0.2%, optional ±0.1%
- / Operating Temperature: -20 °C to 100 °C
- / Pressure Ranges: 0.04 to 80 bar (4:1 turndown), optional absolute pressure
- / Ingress Rating: IP66 or IP68
- / Diaphragm Material: 1.4404/316L or optional gold-plated, Hastelloy C or Tantalum
- / Case Material: 1.4301/304 or optional 1.4404/316L stainless steel

/ TRANSDUCERS & TRANSMITTERS

PG55 PROCESS PRESSURE TRANSMITTER GOLD SERIES

ASHCROFT® Gold Series Process Pressure Transmitters are used worldwide for continuous data acquisition in the oil & gas, chemical, power, water and waste water industries.

KEY FEATURES

- / All stainless steel design
- / Strong flush mounted diaphragm
- / Active temperature compensation
- / Optional HART® protocol with 4-20 mA / 2 wire output
- / Digital local display with several options
- / Easy local adjustments using 3 pushbuttons
- / Optional with ATEX and IEC Ex approval
- / Level measurement in horizontal or funnel-shaped tanks
- / HART DTM available for Microsoft Windows® OS
- / Wide selection of electrical & process connections

SPECIFICATIONS

- / Accuracy: (of adjusted range) ±0.1%
- / Operating Temperature: -20 °C to 80 °C
- / Pressure Ranges: 0.1 to 100 bar (4:1 to 10:1 turndown), optional absolute pressure
- / Ingress Rating: IP66 or IP68
- / Diaphragm Material: 1.4404/316L or Hastelloy C
- / Case Material: 1.4301/304 or optional 1.4404/316L stainless steel

/ TRANSDUCERS & TRANSMITTERS

CG55 PRESSURE TRANSMITTER GOLD SERIES CLEANLINE

ASHCROFT® Gold Series CleanLine Pressure Transmitters are used worldwide for continuous data acquisition in the food and beverage, biotechnology and pharmaceutical industries.

KEY FEATURES

- / All stainless steel design
- / Strong flush mounted diaphragm
- / Active temperature compensation
- / Optional HART® protocol with 4-20 mA / 2 wire output
- / Digital local display with several options
- / Easy local adjustments using 3 pushbuttons
- / Optional with ATEX and IEC Ex approval
- / Level measurement in horizontal or funnel-shaped tanks
- / HART DTM available for Microsoft Windows® OS
- / Wide selection of electrical & process connections

SPECIFICATIONS

- / Accuracy: (of adjusted range) ±0.1%
- / Operating Temperature: -20 °C to 100 °C
- / Pressure Ranges: 0.05 to 100 bar (5:1 to 10:1 turndown), optional absolute pressure
- / Ingress Rating: IP66 or IP68
- / Diaphragm Material: 1.4404/316L or optional gold-plated, Hastelloy C or Tantalum
- / Case Material: 1.4301/304 or optional 1.4404/316L stainless steel

/ TRANSDUCERS & TRANSMITTERS

PP55 PROCESS PRESSURE TRANSMITTER PLATINUM SERIES

ASHCROFT® Platinum Series Process Pressure Transmitters are used worldwide for continuous data acquisition in the oil & gas, chemical, power, water and waste water industries.

KEY FEATURES

- / All stainless steel design
- / Strong flush mounted diaphragm
- / Active temperature compensation
- / Optional HART® protocol with 4-20 mA / 2 wire output or PROFIBUS-PA
- / Digital local display with several options
- / Easy local adjustments using a pushbutton
- / Optional with ATEX and IEC Ex approval
- / Level measurement in horizontal or funnel-shaped tanks
- / HART DTM available for Microsoft Windows® OS
- / Wide selection of electrical & process connections

SPECIFICATIONS

- / Accuracy: (of adjusted range) ±0.1%, optional ±0.07%
- / Operating Temperature: -20 °C to 80 °C
- / Pressure Ranges: 0.1 to 100 bar (10:1 to 20:1 turndown), optional absolute pressure
- / Ingress Rating: IP66 or IP68
- / Diaphragm Material: 1.4404/316L or optional Hastelloy C
- / Case Material: 1.4301/304 or optional 1.4404/316L stainless steel

/ TRANSDUCERS & TRANSMITTERS

CP55 PRESSURE TRANSMITTER PLATINUM SERIES CLEANLINE

ASHCROFT® Platinum Series CleanLine Pressure Transmitters are used worldwide for continuous data acquisition in the food and beverage, biotechnology and pharmaceutical industries.

KEY FEATURES

- / All stainless steel design
- / Strong flush mounted diaphragm
- / Active temperature compensation
- / Optional HART® protocol with 4-20 mA / 2 wire output or PROFIBUS-PA
- / Digital local display with several options
- / Easy local adjustments using a pushbutton
- / Optional with ATEX and IEC Ex approval
- / Level measurement in horizontal or funnel-shaped tanks
- / HART DTM available for Microsoft Windows® OS
- / Wide selection of electrical & process connections

SPECIFICATIONS

- / Accuracy: (of adjusted range) ±0.1%, optional ±0.07%
- / Operating Temperature: -20 °C to 100 °C
- / Pressure Ranges: 0.05 to 100 bar (10:1 to 20:1 turndown), optional absolute pressure
- / Ingress Rating: IP66 or IP68
- / Diaphragm Material: 1.4404/316L or optional gold-plated, Hastelloy C or Tantalum
- / Case Material: 1.4301/304 or optional 1.4404/316L stainless steel

/ TRANSDUCERS & TRANSMITTERS

DP55 DIFFERENTIAL PROCESS PRESSURE TRANSMITTER PLATINUM SERIES

ASHCROFT® Platinum Series Differential Process Pressure Transmitters are used worldwide for continuous data acquisition in the oil & gas, chemical, power, water and waste water industries.

KEY FEATURES

- / All stainless steel design
- / Strong dual diaphragm
- / Active temperature compensation
- / Optional HART® protocol with 4-20 mA / 2 wire output or PROFIBUS-PA
- / Digital local display with several options
- / Easy local adjustments using a pushbutton
- / Optional with ATEX and IEC Ex approval
- / Flow measurement with SQRT function
- / HART DTM available for Microsoft Windows® OS
- / Wide selection of electrical & process connections

SPECIFICATIONS

- / Accuracy: (of adjusted range) ±0.075%
- / Operating Temperature: -20 °C to 80 °C
- / Pressure Ranges: 60 mbar to 20 bar (10:1 to 100:1 turndown)
- / Static Pressure PN160 or PN250
- / Ingress Rating: IP66 or IP68
- / Diaphragm Material: 1.4404/316L or optional Hastelloy C
- / Case Material: 1.4301/304 or optional 1.4404/316L stainless steel

/ TRANSDUCERS & TRANSMITTERS

GC51 RANGEABLE INDICATING PRESSURE TRANSMITTER

The Ashcroft® GC51 rangeable pressure transmitter incorporates field-proven thin film technology, and can be used for monitoring a wide variety of wet or dry media. A perfect choice for pressure measurement.

KEY FEATURES

- / Compact, robust design
- / Min./max. feature records low and high pressure events
- / Analog scaling
- / Simple internal “push button“ configurability
- / “Loop check“ allows easy display of user-defined units and verification without applying pressure
- / Key lock prevents inadvertent changes to settings
- / Wetted parts material tailored for high pressure Hydrogen

SPECIFICATIONS

- / Accuracy: ±0.25% span
- / Pressure Ranges: 0 ... 0.35 to 0 ... 1200 bar; compound ranges to -1 ... 5 bar
- / IP65 (NEMA 4X) aluminum enclosure
- / Wetted material: all-welded stainless steel
- / Backlit / rotatable LED display (4 digit)
- / Output signal: 4-20 mA

/ TRANSDUCERS & TRANSMITTERS

GC52 RANGEABLE WET/WET DIFFERENTIAL PRESSURE TRANSMITTER

The Ashcroft® GC52 wet/wet differential pressure transmitter where consistent, reliable low DP measurement is essential. The unit can monitor a wide variety of wet or dry media. An ideal choice for optimizing instrument costs when multi-functionality is needed.

KEY FEATURES

- / Compact, robust design
- / Min./max. feature records low and high pressure events
- / Analog scaling
- / Simple internal “push button“ configurability
- / Flow measurement/square root extraction where the momentary flow rate can be displayed and analog signal can be output
- / “Loop check“ allows easy display of user-defined units and verification without applying pressure

SPECIFICATIONS

- / Accuracy: ±0.5% span
- / Differential Pressure Ranges: 10 mbar to 1 bar
- / Max. static pressure 20 bar
- / IP65/NEMA 4X aluminum enclosure
- / Wetted material: all-welded stainless steel
- / Backlit / rotatable LED display (4 digit)
- / Output signal: 4-20 mA

/ TRANSDUCERS & TRANSMITTERS

KJ91 RANGEABLE INDICATING PRESSURE TRANSMITTER

The Nagano® KJ91 pressure transmitter incorporates field-proven thin film technology, and can be used for monitoring a wide variety of wet or dry media in hazardous area.

KEY FEATURES

- / Compact, robust design
- / Min./max. feature records low and high pressure events
- / Analog scaling
- / Simple internal „push button“ configurability
- / „Loop check“ allows easy display of user-defined units and verification without applying pressure
- / Key lock prevents inadvertent changes to settings
- / Wetted parts material tailored for high pressure Hydrogen

SPECIFICATIONS

- / IEC based intrinsically safe Exia IIC T4 for zone 0
- / Accuracy: ±0.25% span
- / Pressure Ranges: 0 ... 0.35 to 0 ... 1200 bar; compound ranges to -1 ... 5 bar
- / IP65 (NEMA 4X) aluminum enclosure
- / Wetted material: all-welded stainless steel
- / Backlit / rotatable LED display (4 digit)
- / Output signal: 4-20 mA

/ TRANSDUCERS & TRANSMITTERS

KJ92 RANGEABLE WET/WET DIFFERENTIAL PRESSURE TRANSMITTER

The Nagano® KJ92 wet/wet differential pressure transmitter where consistent, reliable low DP in hazardous area is essential.

KEY FEATURES

- / Compact, robust design
- / Min./max. feature records low and high pressure events
- / Analog scaling
- / Simple internal „push button“ configurability
- / Flow measurement/square root extraction where the momentary flow rate can be displayed and analog signal can be output
- / „Loop check“ allows easy display of user-defined units and verification without applying pressure

SPECIFICATIONS

- / IEC based intrinsically safe Exia IIC T4 for zone 0
- / Accuracy: ±0.5% span
- / Differential Pressure Ranges: 10 mbar to 1 bar
- / Max. static pressure 20 bar
- / IP65/NEMA 4X aluminum enclosure
- / Wetted material: all-welded stainless steel
- / Backlit / rotatable LED display (4 digit)
- / Output signal: 4-20 mA

/ TRANSDUCERS & TRANSMITTERS

E2G - GENERAL INDUSTRIAL PRESSURE TRANSDUCER

The Ashcroft® E2G general industrial pressure transducer is the optimal choice for a rugged, precise and repeatable solution for measurement requirements that are needed on a wide array of applications. It’s designed with 316L stainless steel housing and is available with a wide selection of electrical terminations, process connections and analog outputs, to accommodate nearly any customized application.

KEY FEATURES

- / Stainless steel housing, sensor and pressure connections
- / Standard offset and span adjustment
- / Customized configurations
- / Wide assortment of analog outputs, pressure and electrical connections
- / Choice of cable length

SPECIFICATIONS

- / Accuracy: (terminal point) ±0.25%, ±0.5% or ±1.00% of span
- / Operating Temperature: -40 °C to 125 °C
- / Pressure Ranges: 0,1 to 1400 bar, 0 to 35 bar absolute
- / Shock and Vibration Resistance: 75 g peak shock, 10 g RMS 20-20,000 Hz vibration
- / Ingress Rating: IP66, IP67 or IP69K (consult factory)
- / Diaphragm Material: 1.4404/316L, 17-4H or A286 stainless steel
- / Process Connection: 1.4404/316L stainless steel

E2S INTRINSICALLY SAFE PRESSURE TRANSDUCER

The Ashcroft® E2S pressure transducer fulfi lls a wide spectrum of pressure sensing requirements when intrinsically safe or non-incendive hazardous approvals are required. Using Ashcroft's proven CVD thin-film sensor technology provides a reliable and repeatable product manufactured to Ashcroft's TruAccuracy terminal point standard.

KEY FEATURES

- / Uses Ashcroft's proven thin film technology
- / Rugged 316 stainless steel housing
- / FM, ATEX and IECEx intrinsically safe approvals
- / FM non-incendive approved
- / 4-20 mA or multiple Voltage outputs available
- / External magnetic offset and span adjustment
- / Wide selection of electrical & process connections available

SPECIFICATIONS

- / Accuracy: (terminal point) ±0.25%, ±0.5% or ±1.00% of span
- / Operating temperature: -40 °C to 80 °C
- / Pressure ranges: 0.1 to 1400 bar, 0 to 35 bar absolute
- / Shock and vibration resistance: 10 g RMS 20-20,000 Hz vibration 80 g, 6 ms haversine shock
- / Ingress rating: IP66, IP67 or IP69K (consult factory)
- / Diaphragm material: 1.4404/316L, 17-4H or A286 stainless steel
- / Process connection: 1.4404/316L stainless steel

E2X AND E2F EXPLOSION-PROOF PRESSURE TRANSDUCER

The Ashcroft® E2X and E2F pressure transducers fulfills a wide spectrum of pressure sensing requirements when explosion or flameproof hazardous approvals are re-quired. Using Ashcroft's proven CVD thin-film sensor technology provides a reliable and repeatable product manufactured to Ashcroft's TruAccuracy terminal point standard

KEY FEATURES

- / Uses Ashcroft's proven thin film technology
- / Rugged 316 stainless steel housing
- / E2X - FM, ATEX and IECEx dual Flameproof/Intrinsically Safe approval
- / E2F - FM, ATEX and IECEx flameproof approval
- / FM non-incendive approved
- / 4-20 mA or multiple Voltage outputs available
- / External magnetic offset and span adjustment
- / Wide selection of electrical & process connections available

SPECIFICATIONS

- / Accuracy: (terminal point) ±0.25%, ±0.5% or ±1.00% of span
- / Operating temperature: -40 °C to 80 °C
- / Pressure ranges: 0.1 to 1400 bar, 0 to 35 bar absolute
- / Shock and vibration resistance: 10 g RMS 20-20,000 Hz vibration 80 g, 6 ms haversine shock
- / Ingress rating: IP66, IP67 or IP69K (consult factory)
- / Diaphragm material: 1.4404/316L, 17-4H or A286 stainless steel
- / Process connection: 1.4404/316L stainless steel

/ TRANSDUCERS & TRANSMITTERS

E2 – SANITARY PRESSURE TRANSDUCER

The Ashcroft® E2 sanitary pressure transducer combines proven thin film sensor technology while providing sanitary advantages by using an isolation seal with a tri-clamp fitting. Designed to ensure process integrity, this model is an ideal choice for sanitary applications including those requiring 3A approval or where demanding process monitoring and control is required. The wide selection of electrical connections and fill fluids meet unique application requirements.

KEY FEATURES

- / Available with 1.5“ and 2.0“ Tri-Clamp® Connection
- / 3A approved
- / Wide selection of electrical terminations
- / Customized configurations
- / External magnetic offset and span adjustment

SPECIFICATIONS

- / Accuracy: ±0.25%, ±0.5% or ±1.00% of span
- / Process Connection: 316L stainless steel
- / Pressure Range: vacuum, compound to 20 bar, gauge 0 … 400 mbar to 60 bar, 0 … 1 bar to 20 bar absolute
- / Ingress Rating: IP66, IP67 or IP69K (consult factory)
- / Surface Finish: 12 to 20 Ra electropolished diaphragm

/ TRANSDUCERS & TRANSMITTERS

A2 INDUSTRIAL PRESSURE TRANSMITTER

The Ashcroft® A2 industrial pressure transmitter is designed to satisfy the requirements of industrial applications. This versatile model proves ideal for demanding pressure measurement.

KEY FEATURES

- / Rugged housing
- / Highly configurable; wide selection of pressure ranges, pressure connections a electrical terminations
- / Output: select voltage or current versions
- / Externally adjustable zero and span access (optional)

SPECIFICATIONS

- / Accuracy: ±0.25%, ±0.5% or ±1% span
- / Pressure Ranges: 100 mbar to 700 bar; absolute ranges available
- / IP65 housing; 304 stainless steel
- / Wetted material: all-welded 316L stainless steel

/ TRANSDUCERS & TRANSMITTERS

A2X EXPLOSION/FLAME PROOF PRESSURE TRANSMITTER

The Ashcroft® A2X pressure transmitter fulfills a wide spectrum of pressure sensing requirements when explosion and flame proof hazardous location ratings are needed. An ideal product for demanding field applications.

KEY FEATURES

- / Rugged case
- / Onboard microprocessor provides accurate, reliable and stable output data
- / Highly configurable; wide selection of pressure ranges, pressure connections a electrical terminations
- / Output: select voltage or current versions
- / Explosion-proof and flame-proof approvals (cUL / ATEX)

SPECIFICATIONS

- / Accuracy: ±0.25%, ±0.5% or ±1% span
- / Pressure Ranges: 100 mbar to 700 bar; absolute ranges available
- / IP67 housing; 304 stainless steel
- / Wetted material: all-welded 316L stainless steel

/ TRANSDUCERS & TRANSMITTERS

KXF FLUSH MOUNTED PRESSURE TRANSDUCER

The Ashcroft® KXF with flush diaphragm is a proven and versatile pressure transducer/transmitter. Sensor technology and assembly method eliminates signal instability and drift, making this product virtually unaffected by shock or vibration. A perfect choice when superior pressure measurement is needed.

KEY FEATURES

- / Rugged stainless steel construction
- / High overpressure limits
- / High shock and vibration stability
- / Excellent long term stability
- / Flush mounted diaphragm
- / High temperature model up to 200 °C media temperature

SPECIFICATIONS

- / Accuracy (range dependent): ±0.5% or ±1% of span
- / Pressure Ranges: Vacuum to 600 bar
- / Housing: IP65, IP67 and IP68; stainless steel
- / Wetted material: all-welded 316Ti stainless steel or Hastelloy C

/ TRANSDUCERS & TRANSMITTERS

KM11 PRESSURE TRANSDUCER

The Ashcroft® KM11 OEM pressure transducer is ideal when a durable and economical pressure transducer is needed. Combined high performance ASIC with proven polysilicon thin film sensor technology provides a highly accurate, stable, and rugged product platform. A perfect selection for satisfying most pressure measurement applications.

KEY FEATURES

- / Compact, rugged stainless steel construction
- / Broad selection of pressure ranges, pressure connections and electrical terminations
- / Excellent long term stability
- / High shock and vibration stability
- / Insensitive to temperature shocks
- / High overpressure limits

SPECIFICATIONS

- / Accuracy (range dependent): ±1% to ±0.25% span
- / Pressure Ranges: Vacuum to 1.600 bar
- / Housing: IP65 to IP68; 304 stainless steel
- / Wetted material: all-welded stainless steel

/ TRANSDUCERS & TRANSMITTERS

KM46 HIGH PRESSURE TRANSDUCER

The Ashcroft® KM46 high pressure transducer is the perfect choice when the need to meet ultra-high pressure specifications is required. The transducer is light and compact with a Titanium pressure sensor. It can measure pressure up to 5000 bar while maintaining outstanding durability for demanding applications.

KEY FEATURES

- / Titanium sensor and pressure connection
- / A selection of pressure connections geared to work in very high pressure installations
- / Voltage / current output options
- / Custom high withstand voltage designs available

SPECIFICATIONS

- / Accuracy (Total Error Band): ±2 % of span from -20 to 85°C
- / Pressure Ranges: 2500 to 5000 bar
- / Housing: 304 stainless steel
- / Up to IP 67 Ingress rating (IP69K option)
- / Wetted Material: Titanium
- / CE marked Component per CE Declarations of conformity 2014/30/EU, 2014/68/EU

/ TRANSDUCERS & TRANSMITTERS

KD41 CANBUS PRESSURE TRANSDUCER

The Ashcroft® KD41 pressure transducer with CANbus interface is the perfect choice when the need for a reliable digitized output is required. The transducer is both compact and robust with an all stainless steel pressure sensor and has outstanding shock/vibration resistance.

KEY FEATURES

- / CANbus interface output via CANopen® or SAE J1939 protocol
- / Selection of pressure and electrical connection options suited to meet a wide variety of applications
- / Rugged construction with stainless steel housing and wetted materials

SPECIFICATIONS

- / Accuracy (Total Error Band): ±2% of span from -40ºC to 105ºC (-40ºF to 221ºF)
- / Pressure Ranges: Vacuum up to 1400 bar
- / Shock and vibration resistance >1,000 g shock, > 20 g vibration
- / IP67 Ingress rating (IP69K option)
- / Wetted Material: Stainless steel (17-4PH and 304)

/ TRANSDUCERS & TRANSMITTERS

OEM PRESSURE TRANSDUCER IPS1 AND IPS2 FOR GENERAL APPLICATIONS

The Ashcroft® IPS1 and IPS2 OEM high volume pressure transducer is ideal when a durable and economical pressure transducer is needed. Combining a high performance ASIC with proven ceramic sensor technology provides a highly accurate, stable, and rugged sensor. A perfect choice for satisfying OEM pressure measurement requirements.

KEY FEATURES

- / Compact, rugged construction
- / Broad selection of pressure ranges, pressure connections and electrical terminations
- / Dry ceramic sensor element is corrosion resistant and can be cleaned for medical and special gases application

SPECIFICATIONS

- / IPS1 ranges from 1.6 through 250 bar
- / IPS2 ranges from 1 through 400 bar including absolute pressure
- / Accuracy 1% terminal point, IPS2 with 0.5% option
- / IP65 or IP67 ingress rating

/ TRANSDUCERS & TRANSMITTERS

OEM PRESSURE TRANSDUCER FOR LOW PRESSURE APPLICATIONS TYPE IPS3 AND HEAVY DUTY APPLICATIONS TYPE IPS4

The Ashcroft® IPS3 and IPS4 OEM pressure transducer is ideal when a durable and rugged pressure transducer is needed. Combining a high performance ASIC with proven piezo resistive or thin film sensor technology provides a highly accurate, stable, and rugged sensor. A perfect choice for satisfying OEM pressure measurement requirements.

KEY FEATURES

- / Compact, rugged construction with stainless steel sensor
- / Broad selection of pressure ranges, pressure connections and electrical terminations
- / Excellent long term stability
- / High shock and vibration stability
- / Insensitive to temperature shocks
- / High overpressure limit

SPECIFICATIONS

- / IPS3 ranges from 100 mbar through 6 bar
- / IPS4 ranges from 6 through 600 bar
- / Accuracy 0.5% terminal point
- / Housing: IP65 or IP67, 304 stainless steel
- / Wetted material:
  IPS3 stainless steel with FKM seal
  IPS4 all-welded stainless steel

/ TRANSDUCERS & TRANSMITTERS

OEM PRESSURE TRANSDUCER FOR LOW PRESSURE APPLICATIONS TYPE IPS5 AND HEAVY DUTY APPLICATIONS TYPE IPS6

The Ashcroft® IPS5 and IPS6 industrial pressure transducer is ideal when a durable, rugged and precise pressure transducer is needed. Combining a high performance ASIC with proven piezo resistive or thin film sensor technology provides a highly accurate, stable, and rugged sensor. A perfect choice for satisfying industrial pressure measurement requirements.

KEY FEATURES

- / Compact, rugged construction with stainless steel sensor
- / Broad selection of pressure ranges, pressure connections and electrical terminations
- / Excellent long term stability
- / High shock and vibration stability
- / Insensitive to temperature shocks
- / High overpressure limit

SPECIFICATIONS

- / IPS5 ranges from 100 mbar through 60 bar
- / IPS6 ranges from 6 through 600 bar
- / Accuracy 0.5% terminal point, for selected ranges 0,25%
- / Housing: IP65, IP67 or IP68, 316 stainless steel
- / Wetted material:
  IPS5 stainless steel with FKM seal
  IPS6 all-welded stainless steel

/ TRANSDUCERS & TRANSMITTERS

G2 PRESSURE TRANSDUCER

The Ashcroft® G2 combines performance with value. An versatile product platform, it excels in even the most challenging application. The field-proven polysilicon thin film pressure sensor provide excellent overpressure capability and outstanding durability in the presence of shock and vibration. A perfect choice when demanding pressure measurement is needed.

KEY FEATURES

- / All-welded sensor and pressure connection
- / Highly configurable; wide selection of pressure connections and electrical terminations
- / Voltage / current outputs
- / High EMI/RFI immunity rating

SPECIFICATIONS

- / Accuracy: ±1% span (total error band)
- / Pressure Ranges: 0 … 2 bar to 0 … 1.400 bar
- / Housing: IP65/IP67 (NEMA 4X); 20% glass reinforced nylon-fire retardant to UL94 V1
- / Wetted material: all-welded stainless steel
- / UL Recognized Component per UL 61010-1, CSA 22.2 61010-1, Electrical Equipment for Measurement, Control and Laboratory Use

/ TRANSDUCERS & TRANSMITTERS

G3 PRESSURE TRANSDUCER

The Ashcroft® G3 pressure transducer is a ruggedly dependable sensor for monitoring and controlling pressure. An ideal product where vibration, shock, and high-cycling exist. The G3 is the perfect companion to the G2 transducer for low pressure, vacuum, and absolute pressure applications.

KEY FEATURES

- / All-welded sensor and pressure connections
- / Highly configurable; wide selection of pressure connections and electrical terminations
- / Voltage/current outputs
- / High EMI/RFI immunity rating

SPECIFICATIONS

- / Accuracy: ±1.5% of span (total error band) from -20 to 85°C
- / Pressure ranges: Vacuum to 20 bar, compound and absolute ranges available
- / Housing: IP65/IP67 (NEMA 4X); 20% glass reinforced nylon-fire retardant to UL94 V1
- / Wetted material: all-welded 316 stainless steel
- / UL Recognized Component per UL 61010-1, CSA 22.2 61010-01, Electrical Equipment for Measurement, Control and Laboratory Use

/ TRANSDUCERS & TRANSMITTERS

T2 PRESSURE TRANSDUCER

The Ashcroft® T2 general purpose industrial pressure transducer provides outstanding integrity concerning high shock, vibration and pressure cycling. Utilizing high-performance ASIC, digital compensation provides excellent temperature performance, while the thin film sensor enables long-term stability. An ideal choice for pressure measurement.

KEY FEATURES

- / All-welded sensor and pressure connection
- / Highly configurable; wide selection of pressure connections and electrical terminations
- / Voltage / current outputs
- / High overpressure ratings
- / High EMI/RFI immunity rating

SPECIFICATIONS

- / Accuracy: ±0.25% span
- / Pressure Ranges: 0 … 2 bar to 0 … 1.400 bar
- / Housing: IP65, NEMA 4X ; 20% glass reinforced nylon -fire retardant to UL94 V1
- / Wetted material: all-welded stainless steel
- / UL Recognized Component per UL 61010-1, CSA 22.2 61010-1, Electrical Equipment for Measurement, Control and Laboratory Use

/ TRANSDUCERS & TRANSMITTERS

CXLDP DIFFERENTIAL PRESSURE TRANSMITTER

The Ashcroft® CXLdp differential pressure transmitter is the expert choice for critical airflow and room monitoring applications. With excellent sensitivity and proven long term stability, the CXLdp delivers reliable measurements below 25 Pa.

KEY FEATURES

- / Compact design
- / LED indicator for trouble-shooting, correct wiring or locating product
- / Wide selection of differential pressure ranges
- / Euro-style terminal block; reduces wiring errors and labor
- / Field-selectable output (voltage version)

SPECIFICATIONS

- / Accuracy: ±0.25%, ±0.4% or ±0.8% span
- / Differential Pressure Ranges:
  Unidirectional: 0 … 25 Pa to 0 … 6 kPa
  Bidirectional: ±25 Pa ±5 kPa
- / NEMA 1; ABS enclosure
- / Mounting: DIN rail or surface mount
- / Output signal: current or voltage

/ TRANSDUCERS & TRANSMITTERS

DXLDP DIFFERENTIAL PRESSURE TRANSMITTER

The Ashcroft® DXLdp differential transmitter uses patented Si-Glas™ technology, assuring precise measurement and control at extremely low dP pressures. This model is virtually unaffected by shock or vibration. A perfect solution when critical pressure measurement is needed.

KEY FEATURES

- / LED indicator for troubleshooting, correct wiring or locating product
- / Wide selection of differential pressure ranges
- / DIN Rail Mount reduces installation and calibration costs

OPTIONAL FEATURES

- / SpoolCal® provides in-place system calibration without disturbing process tubes (pressure ranges to 12.5 kPa)
- / Front access test jacks provide on-line signal reference without removing wiring
- / LED range status indicators for instant troubleshooting
- / 2:1 pressure range turndown

SPECIFICATIONS

- / Accuracy: ±0.25%, ±0.5% and ±1% span
- / Differential Pressure Ranges: Unidirectional: 0 … 25 Pa to 0 … 25 kPa / Bidirectional: ±12.5 Pa to ±25 kPa
- / Mounting: DIN rail
- / Output signal: current or voltage

/ TRANSDUCERS & TRANSMITTERS

GXLDP DIFFERENTIAL INDICATING PRESSURE TRANSMITTER

The Ashcroft® GXLdp differential pressure transmitter with a display is designed for use in pharmaceutical and critical care applications such as isolation and clean rooms.

KEY FEATURES

- / TruAccuracy™ performance ensures the GXLdp meets its rated accuracy out of the box and is ready for installation with no additional calibration adjustments required
- / Large LCD display with backlight
- / Wide selection of differential pressure ranges down to +/- 15 Pa
- / The exclusive patented Ashcroft SpoolCal actuator provides in-place system calibration, thus adding great value when validating a process on line or calibrating the unit
- / Field selectable outputs
- / Two programmable switch outputs, NPN or PNP
- / Adjustable display response time
- / Excellent over-pressure protection

SPECIFICATIONS

- / Accuracy: ±0.25% or ±0.5% span
- / Pressure Ranges: 25 Pa to 6 kPa (unidirectional) / ±15 Pa to ±5 kPa (bidirectional)
- / LCD display (4 digit)
- / Enclosure: IP65 NEMA 4X; rugged fl ameproof ABS
- / Wall mount, DIN rail or panel mount

/ TRANSDUCERS & TRANSMITTERS

GC30 INDICATING DIFFERENTIAL PRESSURE TRANSDUCER WITH SWITCH OUTPUTS

The Ashcroft® GC30 differential pressure transducer uses the patented Si-Glas™ variable capacitance sensor for monitoring a wide variety of applications. An ideal choice for optimizing instrument costs.

KEY FEATURES

- / Ultra-compact design
- / 3-in-1 capability: digital pressure gauge, switch and transducer
- / Min. / max. feature records low and high pressure events
- / Programmable switch setting and analog scaling
- / Simple “push button“ operation

SPECIFICATIONS

- / Accuracy: ±1.5% of span
- / Differential pressure and bidirectional ranges: 50 Pa to 5 kPa
- / Max static pressure 0.5 bar
- / LED display (3 1/2 digit)

/ TRANSDUCERS & TRANSMITTERS

GC31 INDICATING PRESSURE TRANSDUCER WITH SWITCH OUTPUTS

The Ashcroft® GC31 is an ultra compact indicating transducer with analog scaling and switch outputs. Incorporating field-proven thin film sensor, this model can monitor a wide variety of applications. An ideal choice for optimizing instrument costs.

KEY FEATURES

- / Ultra-compact design
- / 3-in-1 capability: digital pressure gauge, switch and transducer
- / Min. / max. feature records low and high pressure events
- / Programmable switch setting and analog scaling
- / Simple “push button“ operation

SPECIFICATIONS

- / Accuracy: ±1% of span
- / Pressure Ranges: 3.4 bar to 500 bar; compound ranges up to 20 bar
- / LED display (3 1/2 digit)

GC35 INDICATING PRESSURE TRANSDUCER WITH SWITCH OUTPUTS

The Ashcroft® GC35 is a compact indicating transducer with analog scaling and switch outputs. Incorporating field-proven thin film sensor, this model can monitor a wide variety of applications. An ideal choice for optimizing instrument costs.

KEY FEATURES

- / Compact footprint
- / 3-in-1 capability: digital pressure gauge, switch and transducer
- / Programmable switch setting and analog scaling
- / Min. / max. feature records low and high pressure events
- / Simple “push button“ operation
- / GloBand display provides 360-degree visibility

SPECIFICATIONS

- / Accuracy: ±1% span
- / Pressure Ranges: Vacuum to 600 bar; compound ranges up to 20 bar
- / LED display (4 digit)
- / IP65/67 aluminum enclosure
- / Wetted material: all-welded stainless steel

/ SWITCHES

A-SERIES WATERTIGHT PRESSURE SWITCH

The Ashcroft® APA and APS watertight miniature pressure switches are designed for pressure control in harsh applications. Its design allows easy integration into custom equipment or systems. This model is ideal for pressure alarm, shutdown or control where size or compatibility is a consideration.

KEY FEATURES

- / 316 stainless steel enclosure provides uncompromising protection
- / Wide operating temperature (-40°C to 100°C)
- / Factory set or field adjustable setpoint
- / Expanded selection of pressure and electrical connections

SPECIFICATIONS

- / Accuracy: ±2.00% of span. for ranges 14 bar through 1000 bar
  ±5.00% of span. for ranges -1/1 bar through 7 bar
- / IP67 (NEMA 6); 316 stainless steel
- / SPDT or DPDT switching models
- / Pressure ranges: Vacuum to 1.000 bar

/ SWITCHES

A-SERIES EXPLOSION PROOF PRESSURE SWITCH

The Ashcroft® APA and APS explosion proof miniature pressure switches are designed for pressure control within harsh applications. The explosion-proof construction provides superior protection, while its compact design allows for easy integration into custom equipment or systems. This model is ideal for pressure alarm, shutdown or control within hazardous areas when limited size and process compatibility are needed.

KEY FEATURES

- / Compact, 316 stainless steel construction
- / Explosion-proof housing provides uncompromising protection
- / Wide operating temperature (-40° to 89°C)
- / Factory set or field adjustable setpoint
- / Expanded selection of pressure and electrical connections

SPECIFICATIONS

- / Accuracy: ±2.00% of span. for ranges 14 bar through 1000 bar
  ±5.00% of span. for ranges -1/1 bar through 7 bar
- / IP67 (NEMA 4X, 7 and 9), 316 stainless steel
- / SPDT or DPDT switching models
- / Pressure ranges: Vacuum to 1.000 bar

/ SWITCHES

B-SERIES NEMA 4X PRESSURE SWITCH

The Ashcroft® B4 pressure switch is designed for use in virtually all industrial and OEM applications. Providing reliability and long-cycle life, it is ideal for satisfying requirements for pressure control, shutdown or alarm operations. Special designs are available to meet NACE and Fire-safe applications.

KEY FEATURES

- / Adjustable setpoints from 15%-100% of range
- / Fixed or limited adjustable deadband
- / Wide selection of switch elements and wetted materials
- / Internal setpoint locking screw

SPECIFICATIONS

- / Accuracy: ±1% full scale
- / IP66 (NEMA 4X) epoxy coated aluminum enclosure
- / Single setpoint
- / SPDT or DPDT switching option
- / Pressure ranges: vacuum to 210 bar

/ SWITCHES

B-SERIES NEMA 7/9 PRESSURE SWITCH

The Ashcroft® B7 NEMA 7/9 pressure switch is designed for use in virtually all industrial and OEM applications. This model provides accuracy, reliability and long-cycle life, while the rugged, explosion-proof housing provides superior protection. Ideal for satisfying requirements for pressure control, safety shutdown or alarm operations in hazardous applications.

KEY FEATURES

- / Explosion-proof enclosure provides uncompromising protection
- / Adjustable from 15%-100% of range
- / Fixed or limited adjustable deadband
- / Wide selection of switch elements and wetted materials
- / External locking screw (ATEX / IECEx approval only)

SPECIFICATIONS

- / Accuracy: ±1% full scale
- / NEMA 7/9 (IP66) enclosure / Epoxy-coated aluminum (standard) / 316 Stainless steel (option XYW)
- / Single setpoint
- / SPDT or DPDT switching option
- / Pressure ranges: vacuum thru 210 bar

/ SWITCHES

GP-SERIES NEMA 4 PRESSURE SWITCH

The Ashcroft® GP pressure switch is designed for use on tough applications requiring a 316L stainless steel enclosure. The simple design allows for easy field installation and calibration, while proven technology ensures a highly reliable, safe and accurate switch. Ideal for pressure control, safety shutdown or alarm operations.

KEY FEATURES

- / Wide selection of switch elements and wetted materials
- / Choice of process connections
- / Fixed or adjustable deadbands; adjustable setpoints from 15%-100% of range

SPECIFICATIONS

- / Accuracy: ±1% full scale
- / IP65 (NEMA 4X) 316L stainless steel enclosure
- / Single or dual set points
- / Pressure ranges: vacuum to 210 bar

/ SWITCHES

VP-SERIES PNEUMATIC PRESSURE SWITCH

The Ashcroft® VP pneumatic pressure switch was designed for use with harsh applications where no electric power is available and uncompromising protection is required. The features of this switch along with its proven technology provide a stable, long-lasting product; ideal for satisfying pressure control, shutdown or alarm operations.

KEY FEATURES

- / Watertight Enclosure IP65
- / 5/2 way pneumatic valve
- / Wide selection of wetted materials
- / Process connection options available

SPECIFICATIONS

- / Accuracy: 1% full scale
- / IP65; aluminum enclosure epoxy coated
- / Pressure Ranges: vacuum to 210 bar
- / Single setpoint

/ SWITCHES

D-SERIES NEMA 4X DIFFERENTIAL PRESSURE SWITCH

The Ashcroft® D4 Differential Pressure Switch is designed for use on most applications requiring reliability and long-cycle life. Ideal for satisfying requirements for pressure control, shutdown or alarm operations.

KEY FEATURES

- / Adjustable setpoints from 15%-100% of range
- / Fixed or limited adjustable deadband
- / Wide selection of switch elements and wetted materials
- / Specials designs for NACE and fire-safe applications
- / Internal set point lock screw

SPECIFICATIONS

- / Accuracy: ±1% full scale
- / IP66 (NEMA 4X) aluminum enclosure
- / Single setpoint
- / SPDT or DPDT switching option
- / Differential pressure ranges: 75 mbar to 42 bar

/ SWITCHES

D-SERIES NEMA 7/9 DIFFERENTIAL PRESSURE SWITCH

The Ashcroft® D7 NEMA 7/9 differential pressure switch is designed for applications requiring safety, reliability and long-cycle life. It is ideal for satisfying requirements for pressure control, shutdown or alarm operations.

KEY FEATURES

- / Adjustable setpoint from 15-100% of range
- / Explosion-proof enclosure provides uncompromising protection
- / Fixed or limited adjustable deadband
- / Wide selection of switch element and wetted materials
- / External locking screw (ATEX / IECEx approval only)

SPECIFICATIONS

- / Accuracy: ±1% full scale
- / NEMA 7/9 (IP66) aluminum enclosure / Epoxy-coated aluminum (standard) / 316 Stainless steel (option XYW)
- / Single setpoint
- / SPDT or DPDT switching option
- / Differential pressure ranges: 75 mbar thru 42 bar

/ SWITCHES

GD-SERIES NEMA 4 DIFFERENTIAL PRESSURE SWITCH

The Ashcroft® GD differential pressure switch is designed for use on tough applications requiring a 316L stainless steel enclosure. The straight forward design allows for easy field installation, while proven technology provides a stable and reliable switch. This model is ideal for pressure control, shutdown or alarm operations.

KEY FEATURES

- / Wide selection of switch elements and wetted materials
- / Multiple process connections available
- / Adjustable setpoints from 15%-100% of range
- / Fixed or adjustable deadbands

SPECIFICATIONS

- / Accuracy: ±1% full scale
- / IP65 (NEMA 4X) 316L stainless steel enclosure
- / Single or dual setpoints
- / Differential pressure ranges: 75 mbar thru 28 bar

/ SWITCHES

VD-SERIES PNEUMATIC DIFFERENTIAL PRESSURE SWITCH

The Ashcroft® VD pneumatic differential pressure switch was designed for use with harsh applications where uncompromising protection is required. The features of this switch along with its proven technology provide a stable, long-lasting product; ideal for satisfying pressure control, shutdown or alarm operations.

KEY FEATURES

- / Watertight enclosure IP65
- / 5/2 way pneumatic valve
- / Wide selection of wetted materials
- / Process connection options available

SPECIFICATIONS

- / Accuracy: 1% full scale
- / IP65; aluminum enclosure epoxy coated
- / Single setpoint
- / Differential pressure ranges: 75 mbar thru 28 bar

/ PRESSURE GAUGES

T5500 PRESSURE GAUGE

The Ashcroft® T5500 stainless steel pressure gauge has become an industry standard. Providing high reliability, versatility and performance, it proves an ideal product for satisfying many applications and installation requirements.

KEY FEATURES

- / All-stainless steel movement
- / Easily adjustable micrometer pointer
- / Socket welded to case
- / Low ambient temperature option for arctic conditions from -70 °C
- / ***PLUS!***™ Performance (option) dampens vibration, shock and pulsation effects; provides liquid-fill performance in a dry gauge

SPECIFICATIONS

- / Accuracy: 1% of span (class 1); optional 0.5% of span
- / Pressure Ranges: Vacuum to 1.400 bar
- / Dial size: 100 mm (4“) and 160 mm (6“)
- / Bourdon tube / socket: 316L stainless steel or Monel
- / Case material / style: Stainless steel; T5500 (open front)
- / Ingress protection IP66/67 / NEMA 4X

/ PRESSURE GAUGES

T6500 PRESSURE GAUGE

The Ashcroft® T6500 stainless steel pressure gauge has become an industry standard. Providing high reliability, versatility and performance, it proves an ideal product for satisfying many applications and installation requirements.

KEY FEATURES

- / All-stainless steel movement
- / Easily adjustable micrometer pointer
- / Socket welded to case
- / Low ambient temperature option for arctic conditions from -70 °C
- / ***PLUS!***™ Performance (option) dampens vibration, shock and pulsation effects; provides liquid-fill performance in a dry gauge

SPECIFICATIONS

- / Accuracy: ±1% of span (class 1); optional ±0.5% of span
- / Pressure Ranges: Vacuum to 4.000 bar
- / Dial size: 100 mm (4“) and 160 mm (6“)
- / Bourdon tube / socket: 316L stainless steel or Monel, Inconel for ultra high pressure
- / Case material / style: Stainless steel 304 or 316L; T6500 (S3 solid front)
- / Ingress protection IP66/67 / NEMA 4X

/ PRESSURE GAUGES

T6500XRA HIGH OVERLOAD PRESSURE GAUGE

The Ashcroft® T6500 stainless steel pressure gauge has become an industry standard. Providing high reliability, versatility and performance, it proves an ideal product for satisfying many applications and installation requirements.

KEY FEATURES

- / Overpressure to 400% of range (option XRA)
- / All-stainless steel movement
- / Easily adjustable micrometer pointer
- / Socket welded to case
- / Low ambient temperature option for arctic conditions from -70 °C
- / ***PLUS!***™ Performance (option) dampens vibration, shock and pulsation effects; provides liquid-fill performance in a dry gauge

SPECIFICATIONS

- / Accuracy: ±1% of span (class 1)
- / Pressure Ranges: -1 to 40 bar
- / Dial size: 100 mm (4“) and 160 mm (6“)
- / Bourdon tube / socket: 316L stainless steel
- / Case material / style: Stainless steel 304 or 316L; T6500 (solid front)
- / Ingress protection IP66/IP67, NEMA 4X

/ PRESSURE GAUGES

T5500E PROCESS GAUGE WITH OUTPUT

The Ashcroft® T5500E process gauge with output combines a pressure gauge and pressure transmitter; reducing costs for multiple instruments. This model can be integrated into safety and data acquisition systems or hazardous applications. An ideal product when pressure measurement needs to be monitored or controlled.

KEY FEATURES

- / Rugged enclosure
- / Choice units of measure
- / Integral transmitter with 4-20 mA output
- / ***PLUS!***™ Performance (option) dampens vibration, shock and pulsation effects; Provides liquid-fill performance in a dry gauge with added cost benefit

SPECIFICATIONS

- / Accuracy: ±0.5% of span
- / Dial size: 100 mm (4“)
- / Bourdon Tube / socket / sensor: 316L stainless steel / 17-4 PH
- / Housing: IP65
- / Case: open-front; stainless steel
- / Pressure ranges: Vacuum to 1.000 bar

/ PRESSURE GAUGES

N5500 CAPSULE TYPE PRESSURE GAUGE

The Ashcroft® N5500 stainless steel capsule pressure gauge has become an industry Standard for low pressures. Providing high reliability, versatility and performance, it proves an ideal product for satisfying many applications and installation requirements.

KEY FEATURES

/ All-stainless steel movement
/ Overload protection optional up to 10 times F.S.
/ Socket welded to case

SPECIFICATIONS

/ Accuracy: ±1.6% of span, optional ±1.0%
/ Pressure Ranges: -6 … 0 up to 0 … 600 mbar
/ Dial size: 100 mm (4“) and 160 mm (6“)
/ Capsule / socket: Stainless steel 316
/ Case material: Stainless steel 304 or 316L
/ IP45 or IP65 if vent valve closed

/ PRESSURE GAUGES

P5500/P6500 DIAPHRAGM TYPE PRESSURE GAUGE

The Ashcroft® P5500 stainless steel pressure diaphragm gauge has become an industry standard. Providing high reliability, versatility and performance, it proves an ideal product for satisfying many applications and installation requirements.

KEY FEATURES

/ All-stainless steel construction
/ Overload protection up to 5 times F.S.
/ Dry or liquid filled
/ Optional with electric contacts

SPECIFICATIONS

/ Accuracy: ±1.6% of span (class 1.6)
/ Pressure Ranges: Vacuum, Compound and Gauge to 25 bar
/ Dial size: 100 mm (4“) and 160 mm (6“)
/ Socket and flange: 316L stainless steel, optional Hastelloy C
/ Case material/style: Stainless steel, P5500 open front, P6500 solid front
/ Protection: IP66

/ PRESSURE GAUGES

T50 SKID BUILDER PRESSURE GAUGE

With the stainless steel pressure gauges series T50 Ashcroft offers a specially designed range of pressure gauges for pressure measurement in plant engineering. These products are characterised by their excellent workmanship and the resulting properties. Due to their corrosion and acid resistance they are equally suitable for aggressive media and difficult conditions as found in the petrochemical, chemical and pharmaceutical process industries.

KEY FEATURES

/ Cost effective
/ All welded design
/ Custom dials available
/ Helium leak tested
/ Liquid filling optional
/ Various mounting options with front flange or U-clamp

SPECIFICATIONS

/ Accuracy: Class 1.6, optional class 1
/ Pressure ranges: Vacuum, Compound, 1 – 700 bar (10.000 psi)
/ 63 mm
/ Tube and socket material: Stainless steel 316L / 1.4404, optional Monel
/ Process connection: R 1/8, R 1/4, G 1/8 B, G 1/4 B, 1/8 NPT and 1/4 NPT male
/ Lower and lower back connections

/ PRESSURE GAUGES

T60 SOLID FRONT SKID BUILDER PRESSURE GAUGE

With the solid front stainless steel pressure gauges series T60 Ashcroft offers a specially designed range of pressure gauges for pressure measurement in plant engineering. These products are characterised by their excellent workmanship and the resulting properties. Due to their corrosion and acid resistance they are equally suitable for aggressive media and difficult conditions as found in the petrochemical, chemical and pharmaceutical process industries.

KEY FEATURES

/ Solid front safety design S3
/ All welded design
/ Custom dials available
/ Helium leak tested
/ Liquid filling optional
/ Various mounting options with front flange or U-clamp

SPECIFICATIONS

/ Accuracy: Class 1.6 (63 mm), class 1 (100 mm and 160 mm)
/ Pressure Ranges: Vacuum, Compound, 1 – 700 bar (10.000 psi)
/ 63 mm, 100 mm and 160 mm
/ Tube and socket material: Stainless steel 316L / 1.4404, optional Monel, Hastelloy C or Inconel
/ Process connection: R 1/8, R 1/4, R 1/2, G 1/8 B, G 1/4 B, G 1/2 B, 1/8 NPT, 1/4 NPT and 1/2 NPT male
/ Lower and lower back connections

1259 PROCESS PRESSURE GAUGE

The Ashcroft® 1259 is an economical 4.5“ ASME style process pressure gauge featuring Stainless Steel or Monel® Wetted materials designed with numerous safety features. The 1259 features a solid front case design, and ranges from vacuum to 20,000 psi/1400 bar.

KEY FEATURES

- ***PLUS!***™ Performance (option) dampens vibration, shock and pulsation effects; provides liquid-fill performance in a dry gauge
- Solid-front case design for safety

SPECIFICATIONS

- Accuracy: ±0.5% full scale (ASME B40.100 Grade 2A)
- Pressure Ranges: Vacuum to 1.400 bar
- Dial size: 4 1/2“
- Case: PBT – Polybutylene terephthalate (Meets UL 94 V-0)
- Bourdon tube / socket: 316L stainless steel or Monel
- Dry and liquid-filled versions

1279 DURAGAUGE PROCESS PRESSURE GAUGE

The Ashcroft® 1279 Duragauge® pressure gauge provides dependability, safety and performance. Used throughout the served markets, its manufacture is continuously monitored to assure uncompromising standards and material integrity. An ideal choice for satisfying most applications and installation requirements.

KEY FEATURES

- Wide selection of Bourdon tube materials, pressure connections and pressure ranges
- Solid-front case design for safety
- Epoxy-coated system offers superior corrosion resistance
- Patented Duratube™ and “Round Cap Tip“ Bourdon tube construction controls stresses for longer life
- Teflon®-coated, 400 stainless steel movement
- ***PLUS!***™ Performance (option) dampens vibration, shock and pulsation effects; provides liquid-fill performance in a dry gauge

SPECIFICATIONS

- Accuracy: ±0.5% full scale (ASME B40.100 Grade 2A)
- Pressure Ranges: Vacuum to 2.000 bar
- Dial size: 4 1/2“
- Case: Solid-front safety design
- Dry, liquid-filled and ***PLUS!***™ versions

/ PRESSURE GAUGES

1379 DURAGAUGE PRESSURE GAUGE

The Ashcroft® 1379 Duragauge® process gauge provides dependability, safety and performance. Used throughout the served markets, its manufacture is continuously monitored to assure uncompromising standards and material integrity. An ideal choice for satisfying most applications and installation requirements.

KEY FEATURES

- / Wide selection of Bourdon tube materials, pressure connections and pressure ranges
- / Solid-front case design for safety
- / Epoxy-coated system offers superior corrosion resistance
- / Patented Duratube™ and „Round Cap Tip“ Bourdon tube construction controls stresses for longer life
- / Teflon®-coated, 400 stainless steel movement
- / ***PLUS!***™ Performance (option) dampens vibration, shock and pulsation effects; provides liquid-fill performance in a dry gauge

SPECIFICATIONS

- / Accuracy: ±0.5% full scale (ASME B40.100 Grade 2A)
- / Pressure Ranges: Vacuum to 7.000 bar
- / Dial size: 4 1/2“, 6“, 8 1/2“
- / Case: aluminum; solid-front safety design
- / Dry, liquid-filled and ***PLUS!***™ versions

/ PRESSURE GAUGES

1377 DURAGAUGE PROCESS PRESSURE GAUGE

The Ashcroft® 1377 Duragauge® process gauge provides dependability, safety and performance. Used throughout the served markets, its manufacture is continuously monitored to assure uncompromising standards and material integrity. An ideal choice for satisfying most applications and installation requirements.

KEY FEATURES

- / Front hinged ring for panel mounting
- / Wide selection of Bourdon tube materials, pressure connections and pressure ranges
- / Solid-front case design for safety
- / Epoxy-coated system offers superior corrosion resistance
- / Patented Duratube™ and “Round Cap Tip“ Bourdon tube construction controls stresses for longer life
- / Teflon®-coated, 400 stainless steel movement
- / ***PLUS!***™ Performance (option) dampens vibration, shock and pulsation effects; provides liquid-fill performance in a dry gauge

SPECIFICATIONS

- / Accuracy: ±0.5% full scale (ASME B40.100 Grade 2A)
- / Pressure Ranges: Vacuum to 2.000 bar
- / Dial size: 4 1/2“, 6“, 8 1/2“; panel mounted
- / Case: aluminum; panel mounted, solid-front safety design

/ PRESSURE GAUGES

2462 DURAGAUGE PRESSURE GAUGE

The Ashcroft® 2462 Duragauge® process gauge provides dependability, safety and performance. Used throughout the served markets, its manufacture is continuously monitored to assure uncompromising standards and material integrity. An ideal choice for satisfying most applications and installation requirements.

KEY FEATURES

- / Wide selection of Bourdon tube materials, pressure connections and pressure ranges
- / Solid-front case design for safety
- / Epoxy-coated system offers superior corrosion resistance
- / Patented Duratube™ and “Round Cap Tip“ Bourdon tube construction controls stresses for longer life
- / Teflon®-coated, 400 stainless steel movement
- / ***PLUS!***™ Performance (option) dampens vibration, shock and pulsation effects; provides liquid-fill performance in a dry gauge

SPECIFICATIONS

- / Accuracy: ±0.5% full scale (ASME B40.100 Grade 2A)
- / Pressure Ranges: Vacuum to 2000 bar
- / Dial size: 6“
- / Case: polypropylene; solid-front safety design

/ PRESSURE GAUGES

ACID LEAK DETECTION (ALD)

Acid Leak Detection (ALD) Assembly has a special yellow coating that changes to red once it is exposed to acids with a pH of ≤ 3, providing visual indication of a leak of process media.

KEY FEATURES

- / Stainless steel 316L, Monel 400 or Hastelloy C-276 wetted parts
- / Custom dials available
- / Orange or yellow case for quick identification (optional)
- / Fill fluid for oxidizing acids
- / Pressure ranges up to 700 bar
- / Silicone-free ***PLUS!***™ Performance (optional)
- / Cleaning for Oxygen service (optional)
- / NACE compliant assemblies

SPECIFICATIONS

- / Accuracy: ±1.0% of span (1259, 1279) or ±1.5% of span (T6500)
- / Process Connection: 1/2 NPT male
- / Case Style: Solid-front with pressure relief back
- / Pointer: Micrometer, adjustable, aluminum
- / Weather Protection: Hermetically sealed: IP66
- / Dampening: ***PLUS!***™ Performance (XLL)
- / Pressure Rating (MAWP): Standard: Vac to 100 bar @ 40°C / Optional: 100 to 700 bar @ 40°C

/ PRESSURE GAUGES

8008A PRESSURE GAUGE

The Ashcroft® 8008A pressure gauge is designed to meet both EN 837-1 and ASME B40.100, ensuring accuracy and long term performance. This high Quality pressure gauge is easily retrofitted and offered with custom dial scales and logos. A perfect choice for hydraulic systems, compressors and many other OEM applications.

KEY FEATURES

- / Cost effective
- / Designed for high vibration resistance
- / Custom dials available
- / Accessory kits available for easy retrofit mounting
- / True Zero™ indication, a unique safety Feature
- / Ventable fill plug

SPECIFICATIONS

- / Accuracy: Class 1.6 and Class 1 (EN 837-1) ±2-1-2% of span (ASME B40.100)
- / Pressure Ranges: Vacuum, Compound, 1 – 1.000 bar (15.000 psi)
- / Dial size: 63 mm (2 1/2“) and 100 mm (4“)
- / Tube Material: Bronze (vacuum – 8.700 psi & compound) / 316L stainless steel (10.000 – 15.000 psi)
- / Process Connection: Brass/Soldered (vacuum-8.700 psi & compound) Brass/Brazed (10.000-15.000 psi)
- / Lower and back connections

/ PRESSURE GAUGES

8008S PRESSURE GAUGE

The Ashcroft® 8008S delivers the advanced features of a larger gauge in a small, economical package for applications requiring an all stainless steel instrument for harsh environments. Laser welded wetted 316L stainless steel components ensure system integrity for corrosive medias. A solid front case option is also available to enhance operator safety along with numerous mounting selections to save space and ease installation.

KEY FEATURES

- / Meeting EN837-1 and ASME B40.100 specifications allows for international use
- / Dry gauges are field fillable
- / FlutterGuard™ standard on dry gauges
- / Extensive offering of process connection locations and ranges
- / Economical solution when all stainless gauges are required
- / Designed to meet MSL Helium leak test of 1 x 10^{-6} scc/c
- / Optional solid front design (S3)

SPECIFICATIONS

- / Accuracy: 63 mm: ±1.6% of span per EN 837-1, ±1% of span per EN 837-1 (thru 700 bar), ±2-1-2% of span ASME B40.100 (thru 700 bar)
- / Pressure Ranges: Vacuum, compound, 1 – 1.400 bar (20.000 psi)
- / Dial size: 63 mm (2 1/2“) and 100 mm (4“)
- / Tube material: Stainless steel 1.4404/316L
- / Process connection material: Stainless steel 1.4404/316L
- / Case material: Stainless steel 1.4301/304 or 1.4404/316L
- / Connection location: Lower, center back or lower back

/ PRESSURE GAUGES

DG25 DIGITAL PRESSURE GAUGE

The Ashcroft® DG25 general purpose digital pressure gauge provides exceptional performance, stability and reliability. The laser welded stainless steel sensor and socket make this product suitable for use with a wide variety of pressure media in demanding industrial applications. The DG25 was designed with OEM in mind and can easily be custom configured to meet unique requirements.

KEY FEATURES

- / Large LCD display
- / Push-button menu navigation
- / 9 engineering units: 1 field-programmable
- / Min. / Max. function feature records low and high pressure events
- / Bar graph display
- / Wide variety of pressure connection thread options
- / Protective boot (optional)
- / Customized keypad (optional)

SPECIFICATIONS

- / Accuracy: ±0.5% terminal point (standard) / ±0.25% (optional)
- / Pressure Ranges: Vacuum, Compound, 0 … 1 bar to 0 … 1600 bar
- / Full 5 digital LCD display
- / Case size: 70 mm; polycarbonate / ABS
- / IP67 weatherproof enclosure
- / Wetted materials: Laser welded 316L stainless steel / and 17-4 Ph stainless steel

/ PRESSURE GAUGES

UG1 UTILITY GAUGE COPPER-ALLOY WITH PLASTIC HOUSING

The Ashcroft® UG1 OEM pressure gauge is designed to meet standard EN 837-1, ensuring accuracy and long term performance. A perfect choice for hydraulic systems, compressors and many other OEM applications.

KEY FEATURES

- / Cost effective
- / Custom dials available

SPECIFICATIONS

- / Accuracy: Class 2.5 (40 mm, 50 mm) and Class 1.6 (63 mm, 80 mm and 100 mm)
- / Pressure Ranges: Vacuum, Compound, 1 – 100 bar (1500 psi)
- / 40 mm, 50 mm, 63 mm, 80 mm and 100 mm
- / Tube and socket material: Brass
- / Process connection: G, R and NPT from 1/8 to 1/2 male
- / Lower and center back connections

/ PRESSURE GAUGES

UG2 UTILITY GAUGE COOPER-ALLOY WITH STEEL CASE

CE

The Ashcroft® UG2 OEM pressure gauge is designed to meet standard EN 837-1, ensuring accuracy and long term performance. A perfect choice for hydraulic systems, compressors and many other OEM applications.

KEY FEATURES

- Cost effective
- Custom dials available

SPECIFICATIONS

- Accuracy: Class 2.5 (40 mm, 50 mm) and Class 1.6 (63 mm, 80 mm and 100 mm)
- Pressure Ranges: Vacuum, Compound, 1 – 400 bar (6000 psi)
- 40 mm, 50 mm, 63 mm, 80 mm and 100 mm
- Tube and socket material: Brass
- Process connection: G, R and NPT from 1/8 to 1/2 male
- Lower and center back connections
- Lens plastic, plexi or safety glass

/ PRESSURE GAUGES

UG3 UTILITY GAUGE COOPER-ALLOY WITH STAINLESS STEEL CASE

CE

The Ashcroft® UG3 OEM pressure gauge is designed to meet standard EN 837-1, ensuring accuracy and long term performance. A perfect choice for hydraulic systems, compressors and many other OEM applications.

KEY FEATURES

- Cost effective
- Custom dials available
- Helium leak tested
- Liquid filling optional
- Various mounting options with front flange or U-clamp

SPECIFICATIONS

- Accuracy: Class 2.5 (40 mm, 50 mm) and Class 1.6 (63 mm, 80 mm and 100 mm)
- Pressure Ranges: Vacuum, Compound, 1 – 400 bar (6000 psi)
- 40 mm, 50 mm, 63 mm, 80 mm and 100 mm
- Tube and socket material: Brass
- Process connection: G, R and NPT from 1/8 to 1/2 male
- Lower and center or lower back connections
- Lens polycarbonate or safety glass

/ PRESSURE GAUGES

UG4 UTILITY GAUGE STAINLESS STEEL CASE AND SYSTEM

The Ashcroft® UG4 OEM pressure gauge is designed to meet standard EN 837-1, ensuring accuracy and long term performance. A perfect choice for hydraulic systems, compressors and many other OEM applications.

KEY FEATURES

- / Cost effective
- / All welded design
- / Custom dials available
- / Helium leak tested
- / Liquid filling optional
- / Various mounting options with front flange or U-clamp

SPECIFICATIONS

- / Accuracy: Class 2.5 (40 mm, 50 mm) and Class 1.6 (63 mm, 80 mm and 100 mm)
- / Pressure Ranges: Vacuum, Compound, 1 – 700 bar (10.000 psi)
- / 40 mm, 50 mm, 63 mm, 80 mm and 100 mm
- / Tube and socket material: Stainless steel 316L / 1.4404
- / Process connection: G, R and NPT from 1/8 to 1/2 male
- / Lower and center or lower back connections
- / Lens polycarbonate or safety glass

/ PRESSURE GAUGES

1005P XUL FIRE PROTECTION SPRINKLER SERVICE GAUGE

The Ashcroft® 1005P XUL sprinkler pressure gauge is Underwriters Laboratory listed and Factory Mutual approved for fire protection sprinkler service.

KEY FEATURES

- / PowerFlex™ movement provides superior resistance to shock, vibration and pulsation; extends product life and reduces maintenance costs
- / True Zero™ reduces reading errors by using a “zero zone“ instead of conventional dial pins (posts); this ensures product safety, integrity and system control
- / Corrosion resistant ABS case
- / Underwriters Laboratory listed and Factory Mutual approved
- / Single scale, dual scale and triple scale dials available

SPECIFICATIONS

- / Accuracy: ±3-2-3% span (ASME B40.100, Grade B)
- / Pressure Ranges: 0/300 psi (water), 0/80 psi retard to 250 psi (air), 0/600 psi
- / Dial size: 3 1/2“; ABS case
- / Bronze Bourdon tube / brass socket
- / 1/4 NPT Lower connection only

/ PRESSURE GAUGES

1007P AND 1001T XOR REFRIGERATION PRESSURE GAUGE

The Ashcroft® 1007P and 1001T XOR refrigeration pressure gauges are reliable instruments used in refrigerant test, recovery and recycling markets. An ideal solution when pressure measurement is needed.

KEY FEATURES

- / PowerFlex™ movement provides superior resistance to shock, vibration and pulsation; extends product life and reduces maintenance costs
- / FlutterGuard™ eliminates pointer flutter for optimum readability
- / Easy access window allows for minor span adjustments
- / 1007P ABS case offers durability and corrosion resistance
- / 1001T gauges are tested to detect leaks as small as 2.8 x 10^{-4} cc per second

SPECIFICATIONS

- / Accuracy: ±1% at zero; ±2% at 3/4 scale; ±5% last 1/4 scale
- / Refrigerant scales: R12, R22, R502, R134A, and 410A
- / Dial size: 1007P: 2 1/2“ ABS case / 1001T: 2 1/2“ and 3 1/2“; steel
- / Bronze Bourdon tube / brass socket
- / 1007P Lower connection only
- / 1001T Back connection only
- / U-clamp panel mounting standard on 1001T; Front flange optional on 2 1/2“ 1001T

/ PRESSURE GAUGES

1490 LOW PRESSURE DIAPHRAGM GAUGE

The Ashcroft® 1490 diaphragm gauge is an economical solution for low pressure measurement. This model provides reliability and performance due to its ultra-sensitive diaphragm measuring system. An ideal product for non-corrosive gas measurement. Not suitable for liquids.

KEY FEATURES

- / Easily removable polycarbonate window for small zero adjustments FlutterGuard™ option to reduce movement wear and eliminate pointer flutter case is suitable for intermittent or continuous services on natural gas

SPECIFICATIONS

- / Accuracy: ±2-1-2% full scale (ASME B40.100 Grade A)
- / Pressure Ranges: Vacuum, Compound, 0 … 2.5 kPa to 0 … 100 kPa
- / Dial size: 2-1/2“ and 3-1/2“
- / Case: glass-filled polysulfone; open front
- / Diaphragm system / socket: phosphor bronze / brass

/ PRESSURE GAUGES

1495 LOW PRESSURE DIAPHRAGM RECEIVER GAUGE

The Ashcroft® 1495 diaphragm receiver gauge is an economical solution for pneumatic receiver gauges. This model provides reliability and performance due to its ultra-sensitive system. An ideal product for pneumatic receive systems. Very sensitive to small pressure changes.

KEY FEATURES

- / Re-zero screw allows quick, easy pointer adjustment
- / Slotted u-clamp simplifies panel mounting
- / Accuracy (optional): 1% full scale

SPECIFICATIONS

- / Accuracy: ±2-1-2% full scale (ASME B40.100 Grade A)
- / Pressure Ranges: 3- 15 psi
- / Dial size: 2 1/2“ and 3 1/2“
- / Case: glass-filled polysulfone; open front
- / Diaphragm system / socket: phosphor bronze / brass

/ PRESSURE GAUGES

23DDG PRESSURE GAUGE

The Ashcroft® 23DDG Minigauge® is used for measuring pressures within very limited space installations. Incorporating direct drive technology, this product is virtually unaffected by shock and vibration. A cost effective solution for many equipment applications.

KEY FEATURES

- / Direct drive technology eliminates wear, increasing product life
- / Silicone-dampened coil (option) resists vibration effects
- / Easy installation using wrench flats

SPECIFICATIONS

- / Accuracy: ±5% full scale
- / Pressure Ranges: 60 to 300 psi, 4 bar to 20 bar
- / Dial size: 23 mm (0.906“); ABS case
- / Beryllium copper tube/brass socket
- / Back connection only

/ PRESSURE GAUGES

12DDG/15DDG PRESSURE GAUGE

The Ashcroft® 12DDG/15DDG direct drive gauges are an economical solution for measuring pressures within very limited space installations. Incorporating direct drive technology, these models are virtually unaffected by shock and vibration. Ideal products for many industrial equipment installations.

KEY FEATURES

- / Sealed case provides dust-proof, weather / corrosion-resistant product
- / Direct Drive Technology
- / Silicone-dampened coil (option) resists vibration effects
- / Easy installation using wrench flats

SPECIFICATIONS

- / Accuracy: Standard model: ±2% at setpoint; ±5% to 8% at either end
  UL listed model: ±3.5% of span in middle 3/5ths of scale
- / Pressure Ranges: 60 to 4,000 psi
- / Dial size: 1 1/4“ (12DDG) / 1 1/2“ (15DDG); stainless steel case
- / Beryllium copper tube/brass socket
- / Back connection only

/ PRESSURE GAUGES

F5503 DIFFERENTIAL PRESSURE GAUGE

The Ashcroft® F5503 differential pressure gauge is used for monitoring differential pressure between two separate pressure sources. Designed for harsh services, this model provides high reliability and safety. A perfect solution for challenging application and installation requirements.

KEY FEATURES

- / Robust housing
- / Select wetted materials
- / High static pressure PN100
- / External zero adjustment
- / Flow measurement dial (optional)
- / Electric contacts (optional) for process monitoring and control
- / NACE compliant (optional)

SPECIFICATIONS

- / Accuracy: ±1.6% full scale, optional ±1.0% full scale or ±0.5% ascending
- / Pressure Ranges: 0 … 40 mbar to 0 … 40 bar
- / Dial size: 100 mm (4”) and 160 mm (6”)
- / Case: stainless steel, open front
- / IP65, optional IP66 / NEMA 4X

/ PRESSURE GAUGES

F5503-HP DIFFERENTIAL PRESSURE GAUGE HIGH STATIC PRESSURE

The Ashcroft® F5503-HP differential pressure gauge for high static pressure is used for monitoring differential pressure between two separate pressure sources. Designed for harsh services, this model provides high reliability and safety. A perfect solution for challenging application and installation requirements.

KEY FEATURES

- / Robust housing
- / Select wetted materials
- / Static pressure PN160, PN250 or PN400
- / External zero adjustment
- / Flow measurement dial (optional)
- / Electric contacts (optional) for process monitoring and control
- / NACE compliant (optional)

SPECIFICATIONS

- / Accuracy: ±1.6% of span, optional ±1%
- / Pressure Ranges: 0 … 40 mbar to 0 … 40 bar (limited by static pressure)
- / Dial size: 100 mm (4“) and 160 mm (6“)
- / Case: stainless steel; open front safety design
- / Ingress protection: IP65, optional IP66 / NEMA 4X

/ PRESSURE GAUGES

F5509 DIFFERENTIAL PRESSURE GAUGE

The Ashcroft® F5509 differential pressure gauge is used for monitoring differential pressure between two separate pressure sources. Designed for harsh services, this model provides high reliability and safety. A perfect solution for challenging application and installation requirements.

KEY FEATURES

- / 316L stainless steel case and wetted parts
- / High static pressure limits
- / External zero adjustment
- / Flow measurement dial (optional)
- / Electric contacts (optional) for process monitoring and control

SPECIFICATIONS

- / Accuracy: ±1.6% of span; optional ±1% of span
- / Pressure Ranges: 0 … 25 mbar to 0 … 25 bar
- / Dial size: 100 mm (4”) and 160 mm (6”)
- / Case: stainless steel; F5509 open front, F6509 solid front

/ PRESSURE GAUGES

F5511 DIFFERENTIAL PRESSURE GAUGE AND SWITCH

The Ashcroft® F5511 differential pressure gauge is used for monitoring differential pressure between two separate pressure sources. Designed for long service life. A perfect solution for challenging application and installation requirements.

KEY FEATURES

- / Long service life
- / Select wetted materials
- / Static pressure up to 25 bar
- / High repeatability of the switching point

SPECIFICATIONS

- / Accuracy: ±2.5% full scale
- / Pressure Ranges: 0 … 0,4 bar to 0 … 25 bar
- / Dial size: 100 mm (4”)
- / Bonnet: Macrolon

/ PRESSURE GAUGES

F5512 DIFFERENTIAL PRESSURE GAUGE

The Ashcroft® F5512 differential pressure gauge is used for monitoring differential pressure between two separate pressure sources. Designed for long service life. A perfect solution for challenging application and installation requirements.

KEY FEATURES

- / Long service life
- / Select wetted materials
- / Static pressure up to 25 bar

SPECIFICATIONS

- / Accuracy: ±2.5% full scale
- / Pressure Ranges: 0 … 0,4 bar to 0 … 25 bar
- / Dial size: 100 mm (4“)
- / Bonnet: Macrolon

/ PRESSURE GAUGES

F5513 DIFFERENTIAL PRESSURE SWITCH

The Ashcroft® F5513 differential pressure switch with one or two SPDT microswitches is used for monitoring differential pressure between two separate pressure sources. Designed for long service life. A perfect solution for challenging application and installation requirements.

KEY FEATURES

- / Long service life
- / Select wetted materials
- / Static pressure up to 25 bar
- / High repeatability of the switching point

SPECIFICATIONS

- / Accuracy: ±2.5% full scale
- / Pressure Ranges: 0 … 0,4 bar to 0 … 25 bar
- / Dial size: 100 mm (4”)
- / Bonnet: Macrolon

/ PRESSURE GAUGES

1130 DIFFERENTIAL PRESSURE GAUGE

The Ashcroft® 1130 differential pressure gauge is an economical means for measuring pressure between two independent pressure sources. Used on process monitoring or control, the unit’s system design permits a small volume of media migration; intended for air, hydraulic oil and non-corrosive applications. A good choice for satisfying challenging pressure requirements.

KEY FEATURES

- / High static pressure capability (up to 400 bar)
- / Reed switches (optional) for direct system control
- / Superior magnets for smoother pointer motion

SPECIFICATIONS

- / Accuracy: ±2% (ascending pressure)
- / Pressure Ranges: 0 … 250 mbar to 0 … 10 bar
- / Dial size: 2“, 2 1/2“, 3 1/2“, 4“, 4 1/2“ and 6“
- / Case: stainless steel
- / Body: aluminum, brass or stainless steel
- / Wetted Material: body material, Teflon®, ceramic and various O-ring materials

/ PRESSURE GAUGES

1131 DIFFERENTIAL PRESSURE GAUGE

The Ashcroft® 1131 differential pressure gauge is an economical means for measuring pressure between two independent pressure sources. Uses a rolling diaphragm design to separate high and low pressure ports and isolates media between low and high pressure sides.

KEY FEATURES

- High static pressure capability (up to 200 bar)
- Superior magnets for smoother pointer motion
- Reed switches (optional) for direct system control

SPECIFICATIONS

- Accuracy: ±2% (ascending pressure)
- Pressure Ranges: 0 … 250 mbar to 0 … 7 bar
- Dial size: 2 1/2“, 3 1/2“, 4“, 4 1/2“ and 6“
- Case: stainless steel
- Body: aluminum, brass or stainless steel
- Wetted Material: body material, Teflon®, ceramic and various o-ring materials

/ PRESSURE GAUGES

1132 DIFFERENTIAL PRESSURE GAUGE

The Ashcroft® 1132 differential pressure gauge is an economical means for measuring pressure between two independent pressure sources. Used on process monitoring or control, the unit’s system design prevents any process media migration between low and high pressure sides and is intended for use with air, gas, hydraulic oil and non-corrosive applications.

KEY FEATURES

- High static pressure capability (100 bar)
- Superior magnets for smoother pointer motion
- Reed switches (optional) for direct system control

SPECIFICATIONS

- Accuracy: ±2% (ascending pressure)
- Pressure Ranges: 0 … 75 mbar to 0 … 4 bar
- Dial size: 2 1/2“, 3 1/2“, 4“, 4 1/2“ and 6“
- Case: stainless steel
- Body: aluminum, brass or stainless steel
- Wetted Material: body material, Teflon®, ceramic, and various O-ring materials

/ PRESSURE GAUGES

1133 DIFFERENTIAL PRESSURE GAUGE

The Ashcroft® 1133 differential pressure gauge is an economical means for measuring very low pressure with high static between two independent pressure sources. Uses a convoluted diaphragm to sense low inches of water differential pressure without migration of media between the low and high pressure sides.

KEY FEATURES

- / High static pressure capability (35 bar)
- / Superior magnets for smoother pointer motion
- / Reed switches (optional) for direct system control

SPECIFICATIONS

- / Accuracy: ±2% (ascending pressure)
- / Pressure Ranges: 0 … 2.5 mbar to 0 … 60 mbar
- / Dial size: 3 1/2“, 4“, 4 1/2“ and 6“
- / Case: stainless steel
- / Body: aluminum or stainless steel
- / Wetted Material: body material, Teflon®, ceramic and various O-ring materials

/ PRESSURE GAUGES

1134 DIFFERENTIAL PRESSURE GAUGE

The Ashcroft® 1134 differential pressure gauge is an economical means for measuring pressure between two independent pressure sources. Uses a convoluted diaphragm to measure very low inches of water differential pressure without migration between low and high pressure sides.

KEY FEATURES

- / Static pressure capability up to 2,4 bar
- / Superior magnets for smoother pointer motion
- / Standard with in-line and back process ports
- / Reed switches (optional) for direct system control

SPECIFICATIONS

- / Accuracy: ±3% (ascending pressure)
- / Pressure Ranges: 0 … 1.6 mbar to 0 … 125 mbar dp
- / Dial size: 4 1/2“ only
- / Case: stainless steel
- / Body: glass-filled nylon
- / Wetted Material: glass-filled nylon, Teflon®, ceramic and various O-ring materials

/ PRESSURE GAUGES

1140 DIFFERENTIAL PRESSURE GAUGE

Our budget friendly 1140 piston style differential pressure gauge for measuring pressure between two independent pressure sources. An ideal choice were temperature fluctuations could cause condensation. Used on process monitoring or controls where small migration of the process media is permissible. Intended for hydraulic oil, non-corrosive liquid applications and some air and gas applications.

KEY FEATURES

- / Glass filled nylon case
- / Easily removable window for wipe down
- / High static pressure capability (up to 400 bar)
- / Reed switches for direct system control (optional)
- / Superior magnets for smoother pointer motion

SPECIFICATIONS

- / Accuracy: ±2% (ascending pressure)
- / Pressure Ranges: 0 … 250 mbar to 0 … 10 bar
- / Dial size: 2 1/2“, 4 1/2“ and 6“
- / Case: Glass filled nylon
- / Body: aluminum, brass or stainless steel
- / Wetted Material: body material, Teflon®, ceramic and various O-ring materials

/ PRESSURE GAUGES

1141 DIFFERENTIAL PRESSURE GAUGE

The Ashcroft® 1141 differential pressure gauge is an economical means for measuring pressure between two independent pressure sources. Uses a rolling diaphragm to separate high and low pressure ports and isolates media between low and high pressure sides.

KEY FEATURES

- / Glass filled nylon case
- / High static pressure capability of 200 bar
- / Superior magnets for smoother pointer motion
- / Reed switches (optional) for direct system control

SPECIFICATIONS

- / Accuracy: ±2% (ascending pressure)
- / Pressure Ranges: 0 … 250 mbar to 0 … 7 bar
- / Dial size: 2 1/2”, 4 1/2” and 6”
- / Case: glass filled nylon
- / Body: aluminum, brass or stainless steel
- / Wetted Material: body material, Teflon®, ceramic and various o-ring materials

/ PRESSURE GAUGES

1142 DIFFERENTIAL PRESSURE GAUGE

The Ashcroft 1142 differential pressure gauge is a low cost means for measuring pressure between two independent pressure sources. Used on process monitoring or control the unit's system design prevents any process media migration between low and high pressure sides and is intended for use with air, gas, hydraulic oil and non-corrosive applications.

KEY FEATURES

- / Glass filled nylon case
- / High static pressure capability (100 bar)
- / Superior magnets for smoother pointer motion
- / Reed switches (optional) for direct system control

SPECIFICATIONS

- / Accuracy: ±2% (ascending pressure)
- / Pressure Ranges: 0 … 75 mbar to 0 … 4 bar
- / Dial size: 2 1/2“, 4 1/2“ and 6“
- / Case: glass filled nylon
- / Body: aluminum, brass or stainless steel
- / Wetted Material: body material, Teflon®, ceramic, and various O-ring materials

/ PRESSURE GAUGES

1143 DIFFERENTIAL PRESSURE GAUGE

The Ashcroft® 1143 differential pressure gauge is an economical means for measuring very low pressure with high static between two independent pressure sources. Uses a convoluted diaphragm to sense low inches of water differential pressure without migration of media between the low and high pressure sides.

KEY FEATURES

- / Glass filled nylon case
- / Easily removable window for wipe down
- / High static pressure capability (35 bar)
- / Superior magnets for smoother pointer motion
- / Reed switches (optional) for direct system control

SPECIFICATIONS

- / Accuracy: ±2% (ascending pressure)
- / Pressure Ranges: 0 … 2.5 mbar to 0 … 60 mbar
- / Dial size: 4 1/2” and 6”
- / Case: Glass filled nylon
- / Body: aluminum or stainless steel
- / Wetted Material: body material, Teflon®, ceramic and various O-ring materials

/ PRESSURE GAUGES

1032 FRACTIONAL SANITARY PRESSURE GAUGE

The Ashcroft® 1032 fractional sanitary gauge used for satisfying stringent sanitary requirements. The design provides minimal deadleg, while the self-draining enclosure is ideal for washdown operations. An ideal solution when process measurement and integrity are necessary.

KEY FEATURES

- / Compact design
- / Clean or steam in place (CIP/SIP)
- / FlutterGuard™ (option) reduces movement wear and eliminates pointer flutter; extends product life and allows easy gauge readability

SPECIFICATIONS

- / Accuracy: ±3% full scale (upscale) / ±5% full scale (downscale)
- / Pressure Ranges: Compound, 0 … 2 bar to 0 … 40 bar
- / Dial size: 2“, stainless steel case
- / Tri-Clamp® fitting: 3/4“
- / Wetted material: electropolished diaphragm (12 to 20 Ra surface finish)
- / All-welded 316L stainless steel construction
- / Dry, liquid-filled or hermetically sealed versions

/ PRESSURE GAUGES

1032 SANITARY PRESSURE GAUGE

The Ashcroft® 1032 sanitary gauge is designed specifically to satisfy stringent sanitary requirements. An ideal product assuring reliability and process integrity.

KEY FEATURES

- / Clean or steam in place (CIP/SIP)
- / Autoclave or Sterilize 3 1/2“ only dial with polysulfone window option (XPS)
- / Electropolished diaphragm and housing
- / Easy Zero™ provides external adjustability of instrument span (3 1/2“ dial)
- / PowerFlex™ movement provides superior resistance to shock, vibration and pulsation; extends product life and reduces maintenance costs
- / True Zero™ reduces reading errors by using a „zero box“ instead of conventional dial pins (posts); this ensures product safety, integrity and system control
- / ***PLUS!***™ Performance (option) dampens vibration, shock and pulsation effects; provides liquid-fill performance in a dry gauge with added cost benefits.

SPECIFICATIONS

- / Accuracy: 1.5% full scale for pressure ranges 7 bar and above 2% full scale for vacuum, compound and ranges below 7 bar
- / Pressure Ranges: Vacuum, Compound, 0 … 1 bar to 0 … 70 bar
- / Dial size: 2 1/2”, 3 1/2” and 4 1/2”; stainless steel case
- / Tri-Clamp® fitting: 1 1/2” and 2”
- / Wetted material: electropolished 316L diaphragm (12 to 20 Ra surface finish)
- / All-welded 316L stainless steel construction
- / Dry, liquid-filled or hermetically sealed versions

/ PRESSURE GAUGES

1036 SANITARY PRESSURE GAUGE

The Ashcroft® 1036 inline sanitary gauge satisfies stringent sanitary requirements with its unique design.

KEY FEATURES

- / Clean or steam in place (CIP/SIP)
- / Retrofits other manufacturer's CPM design
- / Easy Zero™ provides external adjustability of instrument span
- / PowerFlex™ movement provides superior resistance to shock, vibration and pulsation; extends product life and reduces maintenance costs
- / True Zero reduces reading errors by using a „zero box" instead of conventional dial pins (posts); this ensures product safety, integrity and system control
- / ***PLUS!***™ Performance (option) dampens vibration, shock and pulsation effects; provides liquid-fill performance in a dry gauge with added cost benefits

SPECIFICATIONS

- / Mates with type 1037
- / Accuracy: ±1.5% full scale for pressure ranges 7 bar and above ±2% full scale for vacuum, compound and ranges below 7 bar
- / Pressure Ranges: Vacuum, Compound, 0 … 1 bar to 0 … 40 bar
- / Dial size: 3 1/2", stainless steel case
- / All-welded 316L stainless steel construction
- / Wetted material: electropolished diaphragm (12 to 20 Ra surface finish)
- / Dry, liquid-filled or hermetically sealed versions
- / 1036 and 1037 sanitary fittings are sold separately

/ PRESSURE GAUGES

1037 SANITARY INSTRUMENT FITTING

The Ashcroft® 1037 instrument fitting was designed to mate with the type 1036 Inline Sanitary Gauge. This assembly virtually eliminates process deadleg, assuring minimal potential for contamination. A perfect solution to ensure process integrity.

KEY FEATURES

- / Wetted material heat number stamped on each fitting
- / Clean or Steam in Place (CIP/SIP)
- / Autoclave or Sterilize

SPECIFICATIONS

- / Pipe size: 1/2" to 2"; mates with type 1036 Inline Sanitary gauge
- / 316L stainless steel construction
- / Wetted material: electropolished 316L (12 to 20 Ra) internal surface finish
- / End connections Tri-Clamp® sizes
- / Instrument connections Tri-Clamp® modified

/ DIAPHRAGM SEALS

32X SANITARY DIAPHRAGM SEALS

The Ashcroft® 32X sanitary quick-connect diaphragm seal is designed to provide immediate dismantling and reassembly for cleaning process media between scheduled process runs.

KEY FEATURES

- / Stainless steel flush welded diaphragm seals
- / Rupture protected due to embedded convolution behind the diaphragm
- / Helium leak tested
- / Minimized temperature errors
- / Suitable for CIP and SIP

SPECIFICATIONS

- / Process connection style:
  Model 322: Tri-Clamp (BS 4825 / ISO 1127 / ASME-BPE)
  Model 322: Tri-Clamp (ISO 2852)
  Model 323: VARIVENT®
  Model 324: Milk coupling (DIN 11851)
  Model 326: SMS 1145
  Model 327: RTJ APV (BS 4825-5)
  Model 328: IDF (BS 4825-4)
- / Instrument connection G 1/4 and G 1/2 female, 8 mm weld port
- / Surface roughness Ra <0,38 µm

/ DIAPHRAGM SEALS

510-511 ALL-WELDED DIAPHRAGM SEALS

The Ashcroft® 510 and 511 compact, all-welded diaphragm seals or isolation devices protect pressure measuring instruments. Used to ensure process compatibility, they are also applied when process media exhibits high temperature, pulsation or the potential to clog an instrument connection. An ideal selection for applications when space and safety are stressed.

KEY FEATURES

- / All-welded, compact size and lightweight
- / Continuous duty
- / All-welded construction; prevents inadvertent disassembly
- / All-stainless steel construction; other materials available
- / Flush port (type 511) provides easy cleaning / flushing due to process media prone to clogging

SPECIFICATIONS

- / Style:
  Type 510: threaded
  Type 511: threaded with flushing port
- / Process size: 1/4”, 1/2” NPT male, G 1/4 B, G 1/2 B male, others on request
- / Rated up to 160 bar, optional 689 bar

/ DIAPHRAGM SEALS

DF-EN FLUSH FLANGED DIAPHRAGM SEAL

The Ashcroft® DF flush flanged diaphragm seal uses a diaphragm welded directly to the assembly flange, eliminating much of the cost associated with bulky lower housings made from exotic and expensive wetted materials. The flush-mounted diaphragm prevents clogging and is available in a full range of metallic and coated materials.

KEY FEATURES

- / Flush design minimizes the use of expensive specialty wetted materials
- / Flush-mounted diaphragm prevents clogging of process media
- / Diaphragm welded to flange
- / Filling port in the instrument connection
- / Suitable for pressure gauges, switches and transmitters

SPECIFICATIONS

- / Flange size: DN25 to DN125
- / Flange rating: PN10 to PN100 – class flanges
- / Flange design according to EN 1092-1

/ DIAPHRAGM SEALS

DF-ASME FLUSH FLANGED DIAPHRAGM SEAL

The Ashcroft® DF flush flanged diaphragm seal uses a diaphragm welded directly to the assembly flange, eliminating much of the cost associated with bulky lower housings made from exotic and expensive wetted materials. The flush-mounted diaphragm prevents clogging and is available in a full range of metallic and coated materials.

KEY FEATURES

- / Flush design minimizes the use of expensive specialty wetted materials
- / Flush-mounted diaphragm prevents clogging of process media
- / Diaphragm welded to flange
- / Filling port in the instrument connection
- / Suitable for pressure gauges, switches and transmitters

SPECIFICATIONS

- / Flange size: 1” to 4”
- / Flange rating: 150 to 2500 – class flanges
- / Flange design according to ASME B16.5

/ DIAPHRAGM SEALS

502-EN ALL-WELDED FLANGED DIAPHRAGM SEAL

The Ashcroft® 502 all-welded flanged diaphragm seal uses a diaphragm welded directly to the assembly flange. Used when process compatibility is required, these are also applied when media exhibits high temperature or the potential to clog an instrument connection. Ideal for satisfying many challenging applications.

KEY FEATURES

- / Wide selection of diaphragm materials
- / Diaphragm welded to flange
- / Filling port in the instrument connection
- / Suitable for pressure gauges, switches and transmitters

SPECIFICATIONS

- / Flange size: DN15 or DN40
- / Flange rating: PN10 to PN40 – class flanges
- / Flange design according to EN 1092-1

/ DIAPHRAGM SEALS

502-ASME ALL-WELDED FLANGED DIAPHRAGM SEAL

The Ashcroft® 502 all-welded flanged diaphragm seal uses a diaphragm welded directly to the assembly flange. Used when process compatibility is required, these are also applied when media exhibits high temperature or the potential to clog an instrument connection. Ideal for satisfying many challenging applications.

KEY FEATURES

- / Wide selection of diaphragm materials
- / Diaphragm welded to flange
- / Filling port in the instrument connection
- / Suitable for pressure gauges, switches and transmitters

SPECIFICATIONS

- / Flange size: 1/2” to 2”
- / Flange rating: 150 to 300 – class flanges
- / Flange design according to ASME B16.5

/ DIAPHRAGM SEALS

DT-EN TRUNCATED FLANGED DIAPHRAGM SEAL

The Ashcroft® truncated flanged diaphragm seal model DT protects pressure measuring instruments on isolated pipes or tanks. Used when process compatibility is required, these are also applied when media exhibits high temperature or the potential to clog an instrument connection. Ideal for satisfying many challenging applications.

KEY FEATURES

- / Wide selection of diaphragm materials
- / Diaphragm welded to flange extension
- / Filling port in the instrument connection
- / Suitable for pressure gauges, switches and transmitters

SPECIFICATIONS

- / Flange size: DN50 to DN100
- / Flange rating: PN10 to PN40
- / Flange design according to EN 1092-1

/ DIAPHRAGM SEALS

DT-ASME TRUNCATED FLANGED DIAPHRAGM SEAL

The Ashcroft® truncated flanged diaphragm seal model DT protects pressure measuring instruments on isolated pipes or tanks. Used when process compatibility is required, these are also applied when media exhibits high temperature or the potential to clog an instrument connection. Ideal for satisfying many challenging applications.

KEY FEATURES

- / Wide selection of diaphragm materials
- / Diaphragm welded to flange extension
- / Filling port in the instrument connection
- / Suitable for pressure gauges, switches and transmitters

SPECIFICATIONS

- / Flange size: 2” to 4”
- / Flange rating: 150 to 1500 – class flanges
- / Flange design according to ASME B16.5

/ DIAPHRAGM SEALS

740-741 HIGH-DISPLACEMENT DIAPHRAGM SEALS

The Ashcroft® 740 and 741 high-displacement diaphragm seals or isolation devices are used with low-ranged instruments or high static pressure dp gauges with low differential pressure. Used to ensure material compatibility, they are also applied when process media exhibits high temperature, pulsation or the potential to clog an instrument connection. An ideal product for satisfying low pressure measurement needs.

KEY FEATURES

- Wide selection of diaphragm and lower housing materials
- Enlarged welded diaphragm; high displacement allows high sensitivity to pressure fluctuations
- Flush port (type 741) provides easy cleaning / flushing due to process media prone to clogging

SPECIFICATIONS

- Style:
  Type 740: threaded
  Type 741: threaded with flushing port
- Low pressure range capability;
  Bellows gauges: 75 mbar and above
  Differential pressure gauges F5503: 160 mbar and above
- Process size: 1/4“ to 1“ NPT female
- Rated up to 50 bar

/ DIAPHRAGM SEALS

702-703 FLANGED HIGH DISPLACEMENT DIAPHRAGM SEALS

The Ashcroft® 702 and 703 high-displacement diaphragm seals or isolation devices are used with low pressure or differential pressure gauges with low differential pressure and elevated static pressure. Used to ensure material compatibility, they are also applied when process media exhibits high temperature, pulsation or the potential to clog an instrument connection. An ideal product for satisfying low pressure measurement needs.

KEY FEATURES

- Wide selection of diaphragm and lower housing materials
- Enlarged welded diaphragm; high displacement allows high sensitivity to pressure fluctuations
- Flushing port (type 703) provides easy cleaning / flushing due to process media prone to clogging

SPECIFICATIONS

- Style:
  Type 702: raised face flange
  Type 703: raised face flange with flushing port
- Low pressure range capability:
  Bellows gauges: 75 mbar and above
  Differential pressure gauges F5503: 160 mbar and above
- Process size: 1/2” to 3”
- Flange rating: 150, 300 and 600 class

/ DIAPHRAGM SEALS

331 ALL-WELDED FLUSH MINI DIAPHRAGM SEALS

The Ashcroft® 331 all-welded flush mini-diaphragm seal or isolation device protect pressure measuring instruments. Used to ensure process compatibility, they are also applied when process media exhibits high temperature, pulsation, and a potential for plugging or freeze-up. An ideal choice for limited space applications.

KEY FEATURES

- / Compact and lightweight design
- / All-welded construction
- / Flush diaphragm; eliminates clogging or process accumulation
- / Volumetric displacement; For use with pressure gauges, switches and transducers
- / Pressure rated up to 400 bar

SPECIFICATIONS

- / Process size: G 1/2 … G 2 or 1/2 NPT … 2 NPT male flush
- / Instrument connection: G 1/4 or G1/2 female, weld port

/ DIAPHRAGM SEALS

80 WAFER ISOLATION RING

The Ashcroft® 80 isolation ring or isolation device is mounted inline with process piping. Used for process protection of measuring instruments, the “ring” design eliminates process accumulation, assuring reliable and accurate pressure readings. Ideal when reliable and continuous pressure measurement is needed.

KEY FEATURES

- / 360° sensing flexible inner-liner; no process deadleg
- / Safe Quick Release™ (optional) enables instrument removal without loss of fill or process shut down
- / Needle valve (optional) dampens pulsation effects
- / Retrofit flange (optional) allows easy replacement of other manufacturer models

SPECIFICATIONS

- / Process size:
  Type 80 (wafer): 2” to 20”
  Type 81 (bolt thru): 1” to 10”
- / Flange rating: 150 and 300 class

/ DIAPHRAGM SEALS

81 BOLT THRU ISOLATION RING

The Ashcroft® 81 isolation ring or isolation device is mounted inline with process piping. Used for process protection of measuring instruments, the “ring” design eliminates process accumulation, it assuring reliable and accurate pressure readings. Ideal when reliable and continuous pressure measurement is needed.

KEY FEATURES

- / 360° sensing flexible inner-liner; no process deadleg
- / Safe Quick Release™ (optional) enables instrument removal without loss of fill or process shut down
- / Needle valve (optional) dampens pulsation effects
- / Retrofit flange (optional) allows easy replacement of other manufacturer models

SPECIFICATIONS

- / Process size: Type 80 (wafer): 2“ to 20“ / Type 81 (bolt thru): 1“ to 10“
- / Flange rating: 150 and 300 class

/ DIAPHRAGM SEALS

82 THREADED ISOLATION RING

The Ashcroft® 82 isolation ring or isolation device is threaded in-line with process piping. Used on threaded piping systems for protection of measuring instruments. The “ring” design eliminates process accumulation, assuring accurate pressure readings.

KEY FEATURES

- / 360° sensing flexible inner-liner; no process deadleg
- / Safe Quick Release™ (optional) enables instrument removal without loss of fill or process shutdown
- / Needle valve (optional) dampens pulsation effects

SPECIFICATIONS

- / Process Size: 1/2 thru 2 NPT
- / Assembly Materials: Carbon steel, stainless steel
- / Flexible Liner: Buna, PTFE, EPDM, Viton and Natural Rubber
- / Pressure Rating: 150 psi

/ ACCESSORIES

PD02 PRESSURE SNUBBER

The Ashcroft® pressure snubber PD02 is used for protecting measurement instruments from sudden pressure increases or fluctuations. This enables sensing instruments to provide consistent readings, while extending product service life. An ideal solution for satisfying applications with challenging requirements.

KEY FEATURES

/ Hex bar with external field adjustable tapered needle
/ Material: brass, stainless steel 316L, Monel, Hastelloy C and others

SPECIFICATIONS

/ Connection size: 1/4 NPT, 1/2 NPT, G 1/4, G 1/2, M20x1.5
/ Max pressure: Brass: 250 bar / 3.625 psi; All others: 400 bar / 6.000 psi
/ Temperature rating 120 °C

/ ACCESSORIES

PL02 PRESSURE LIMITING VALVE

The Ashcroft® pressure limiting valve-PL02 automatically closes when set pressure is realized. When the valve closes, the instrument assembly is isolated and protected during pressure excursion beyond the full scale range of the instrument.

KEY FEATURES

/ Isolates and protects instrument assembly from pressure surges beyond the full scale of the instrument
/ Prevents damage, loss of accuracy and / or rupture of sensing elements
/ 316Ti stainless steel, Hastelloy C or Monel construction
/ Automatically resets after 25% drop in pressure from set point
/ Available set point from 0.4 bar to 600 bar
/ Built in pressure snubbing design
/ Supplies with wetted parts according to NACE MR0175/MR0103
/ Material Traceability Reports available per EN 10204 3.1

SPECIFICATIONS

/ Process Connections: 1/2 NPT male, 1/4 NPT male, G 1/2B male
/ Instrument Connections: 1/2 NPT female, 1/4 NPT female, G 1/2 female
/ Maximum Pressure Rating 1000 bar
/ Maximum temperature Rating 80 °C

/ ACCESSORIES

PL01 PRESSURE LIMITING VALVE

The Ashcroft® pressure limiting valve-PL01 automatically closes when set pressure is realized. When the valve closes, the instrument assembly is isolated and protected during pressure excursion beyond the full scale range of the instrument.

KEY FEATURES

- / Isolates and protects instrument assembly from pressure surges beyond the full scale of the instrument
- / Prevents damage, loss of accuracy and / or rupture of sensing elements
- / For use with air and clean gases only
- / Brass or 316Ti stainless steel construction
- / Automatically resets after 30% drop in pressure from set point
- / Available set point from 10 mbar to 550 mbar
- / Material Traceability Reports available per EN 10204 3.1

SPECIFICATIONS

- / Process Connections: 1/2 NPT male, G 1/2B male
- / Instrument Connections: 1/2 NPT female, G 1/2 female
- / Maximum Pressure Rating 40 bar for brass, 100 bar for 316Ti
- / Maximum Temperature Rating 60 °C

/ ACCESSORIES

COOLING DEVICE

The Ashcroft® cooling device protects pressure instruments from the effects of elevated temperatures. A reduced orifice decreases the volume of the process media in the device allowing efficient heat transfer between the process and the device. The metallic fins maximize exposure to the ambient temperature for effective dissipation.

KEY FEATURES

- / Effectively protects instruments from elevated temperature
- / Cooling device and sensing instrument mount directly to the process or a diaphragm seal
- / Compatible with many process media
- / Use with gauges, switches, transducers and diaphragm seals

SPECIFICATIONS

- / Stainless steel 316L, Monel, Hastelloy C
- / Process / Instrument Connections: 1/4 NPT, 1/2 NPT, G 1/4, G 1/2, M20x1.5

/ ACCESSORIES

2198 MICROTUBE™ SIPHON

The Ashcroft® 2198 MicroTube™ Siphon protects pressure instruments from the effects of elevated temperatures. The reduced internal volume allows for superior temperature dissipation. The 2198 can also be used in conjunction with diaphragm seals.

KEY FEATURES

/ Effectively protects instruments from elevated temperatures
/ Siphon and sensing instrument mount directly to the process
/ 316L stainless steel compatible with many process media
/ Used with gauges, switches, transducers and diaphragm sea

SPECIFICATIONS

/ Process & Instrument Connections: 1/4, 1/2 NPT and G 1/4, G 1/2
/ Material: 316L stainless steel
/ Maximum allowable working pressure: 345 bar / 5.000 psi
/ Maximum process temperature: 427 °C / 800 °F

/ ACCESSORIES

V02-1V GAUGE VALVE

The Ashcroft® Gauge Valves-V02 are designed to mount directly to the instrument to isolate the instrument assembly during process shut downs and maintenance.

KEY FEATURES

/ Isolates process from instrument assembly
/ 316L Stainless Steel, Hastelloy C or Monel construction
/ Support mounting brackets available
/ Color-coded dust caps prevent dust ingress and identifies handle function
/ PTFE Packing (other materials available upon request)
/ Stem with cold rolled surface, back seat and non-rotating needle tip
/ Supplied with wetted parts according to NACE MR0175/MR0103
/ Material Traceability Report available per EN 10204 3.1

SPECIFICATIONS

/ Process Connections: 1/2 NPT male, 1/2 NPT female
/ Instrument Connection: 1/2 NPT female
/ Maximum Pressure Rating (PTFE) 6092 psi at 60 °C
/ Maximum Temperature Rating (PTFE) 200 °C at 324 bar

/ ACCESSORIES

V02-MV MULTIPORT VALVE

The Ashcroft® multiport valve-V02 is designed to mount directly to the instrument for the purpose of isolating up to three instruments simultaneously during process shut downs and maintenance.

KEY FEATURES

- / Isolates process from instrument assembly
- / 316L Stainless Steel, Hastelloy C or Monel construction
- / Support mounting brackets available
- / Color-coded dust caps prevent dust ingress and identifies handle function
- / PTFE Packing (other materials available upon request)
- / Stem with cold rolled surface, back seat and non-rotating needle tip
- / Supplied with wetted parts according to NACE MR0175/MR0103
- / Material Traceability Report available per EN 10204 3.1

SPECIFICATIONS

- / Process Connections: 1/2 NPT male, 1/2 NPT female
- / Instrument Connection: (3) 1/2 NPT female
- / Maximum Pressure Rating (PTFE) 420 bar at 60 °C
- / Maximum Temperature Rating (PTFE) 200 °C at 90 bar

/ ACCESSORIES

V02-2V 2 VALVE MANIFOLD

The Ashcroft® 2 valve manifolds-V02 are designed to mount directly to the instrument to isolate and bleed the instrument assembly during process shut downs and maintenance.

KEY FEATURES

- / Isolates and bleeds process from Instrument assembly
- / 316L stainless steel, Hastelloy C or Monel construction
- / Support mounting brackets available
- / PTFE packing (other materials available upon request)
- / L-shape, Y-shape or inline Body style Options available
- / Colour-coded dust caps prevent dust Ingress and identifies handle function
- / Stem with cold rolled surface, back seat and non-rotating needle tip
- / Supplied with wetted parts according to NACE MR0175/MR0103
- / Material Traceability Reports available per EN 10204 3.1

SPECIFICATIONS

- / Process Connections: Inline 1/2 NPT male or female / L-shape 1/2 NPT female / Y-shape 1/2 NPT female
- / Instrument Connections: 1/2 NPT female
- / Maximum Pressure Rating (PTFE) PN420 at 60°C
- / Maximum Temperature Rating (PTFE) 200°C at 324 bar

/ ACCESSORIES

V02-3V DIRECT & REMOTE MOUNT 3 VALVE MANIFOLDS

The Ashcroft® Direct & Remote Mount 3 Valve Manifolds-V02 are designed to isolate the instrument and equalize the pressure during process shut downs and maintenance.

KEY FEATURES

- / Isolates each port and equalize pressure for instrument maintenance
- / 316L stainless steel, Hastelloy C or Monel construction
- / Support mounting brackets available
- / PTFE packing (other materials available upon request)
- / Colour-coded dust caps prevent dust Ingress and identifies handle function
- / Stem with cold rolled surface, back seat and non-rotating needle tip
- / Supplied with wetted parts according to NACE MR0175/MR0103
- / Material Traceability Reports available per EN 10204 3.1

SPECIFICATIONS

- / Process connections: 1/2 NPT female
- / Instrument connections: Direct mount: IEC, type A / Remote mount: 1/2 NPT female
- / 54 mm from center-port to center-port
- / 1-3/4“ mounting kits available for direct mount only
- / Maximum Pressure Rating (PTFE) PN420 at 60 °C
- / Maximum Temperature Rating (PTFE) 200 °C at 324 bar

/ ACCESSORIES

V02-5V DIRECT & REMOTE MOUNT 5 VALVE MANIFOLDS

The Ashcroft® Direct & Remote Mount 5 Valve Manifolds-V02 are designed to connect to the instrument to isolate, bleed and equalize pressure in the instrument during process shut downs and maintenance.

KEY FEATURES

- / Isolates and bleeds the process for each port as well as equalized pressure for instrument maintenance
- / 316L stainless steel, Hastelloy C or Monel construction
- / Support mounting brackets available
- / PTFE packing (other materials available upon request)
- / Colour-coded dust caps prevent dust Ingress and identifies handle function
- / Stem with cold rolled surface, back seat and non-rotating needle tip
- / Supplied with wetted parts according to NACE MR0175/MR0103
- / Material Traceability Reports available per EN 10204 3.1

SPECIFICATIONS

- / Process connections: 1/2 NPT female
- / Instrument connections: Direct mount: IEC, type A / Remote mount: 1/2 NPT female
- / 54 mm from center-port to center-port
- / 1-3/4” mounting kits available for direct mount only
- / Maximum Pressure Rating (PTFE) PN420 at 60 °C
- / Maximum Temperature Rating (PTFE) 200 °C at 324 bar

/ ACCESSORIES

V02-BVA HIGH PRESSURE BALL VALVE

The Ashcroft® high pressure ball valve-V02 provides systems with a quick, safety shutoff to isolate the process from the instrument assembly during shutdown and maintenance periods.

KEY FEATURES

- / 316L stainless steel construction
- / 90° turn opens or closes valve quickly
- / 10 mm bore hole reduces clogging
- / Floating ball design provides bi-directional isolation
- / PTFE packing
- / Anti-blowout stem design
- / Supplied with wetted parts according to NACE MR0175/MR0103

SPECIFICATIONS

- / Process Connections: 1/2 NPT male or female
- / Instrument Connections: 1/2 NPT female
- / Maximum Pressure Rating (PTFE) 420 bar at 50 °C
- / Maximum Temperature Rating (PTFE) 175 °C at 50 bar

/ ACCESSORIES

V02-BVB LOW PRESSURE BALL VALVE

The Ashcroft® low pressure ball valve-V02 provides systems with a quick, safety shutoff to isolate the process from the instrument assembly during shutdown and maintenance periods.

KEY FEATURES

- / 316L stainless steel construction
- / 90° turn opens or closes valve quickly
- / 9.2 mm bore hole reduces clogging
- / Floating ball design provides bi-directional isolation
- / PTFE packing
- / Anti-blowout stem design
- / Supplied with wetted parts according to NACE MR0175/MR0103

SPECIFICATIONS

- / Process Connections: 1/2 NPT female
- / Instrument Connections: 1/2 NPT female
- / Maximum Pressure Rating (PTFE) 69 bar at 40°C
- / Maximum Temperature Rating (PTFE) 200°C at 0 bar

/ ACCESSORIES

GAUGE VALVES DIN 16272 TYPE A

The Gauge Valve DIN 16272 Type A isolates the instrument from the process and bleeds the assembly allowing for maintenance and integration.

KEY FEATURES

/ Compliant to DIN 16272
/ Optional with test flange
/ Optional with wall mounting bracket

SPECIFICATIONS

/ Pressure Rating: 250 bar (3,626 psi) (brass) / 400 bar (5,801 psi) (carbon steel and stainless steel)
/ Max. allowable Temperature (TS) of 120 °C (248 °F)
/ M20x1.5 bleed and test connection with protective cap
/ Material: Brass, Steel or Stainless steel 316Ti/1.4571

/ ACCESSORIES

VENT VALVE

The Ashcroft® Vent Valves are available with bleed screw or T-handle.

KEY FEATURES

/ Material: Stainless steel 316
/ Hex nipple with hose nipple, T-bar or vent screw
/ Hex plugs

/ ACCESSORIES

MDV SWIVEL ADAPTER

The Ashcroft® Swivel Gauge Adapters enable the easy positioning of the pressure instrument in any direction through 360°.

KEY FEATURES

/ Swivel Gauge Adapter for alignment of measuring instruments

SPECIFICATIONS

/ Material: Stainless steel 316, Monel or Hastelloy C
/ Pressure rating for NPT connection: 689 bar / 10.000 psi
/ Pressure rating for G connection 420 bar / 6.092 psi

/ ACCESSORIES

FLUSHING RING

The Ashcroft® Flushing ring is a solution for the cleaning of flanged diaphragm seal. This enables consistent readings from sensing instruments, and serves to extend service life. An ideal solution for satisfying applications with challenging requirements.

KEY FEATURES

/ Two flushing ports
/ Machined from bar stock
/ Optional with pipe plugs

SPECIFICATIONS

/ Standard according to ASME B16.5 or EN 1092-1
/ Size 1” to 4” or DN25 to DN100
/ Material stainless steel 316L, Duplex, Monel, Hastelloy C or Inconel
/ Pressure Ratings: 2.500 lbs or PN400

/ ACCESSORIES

1115A AND 1115P CAPILLARY LINE ASSEMBLIES

The Ashcroft® 1115A and 1115P capillary lines are utilized when instruments need to be removed from direct contact with the installation point due to elevated process temperature, pressure spikes or design specifications. Added between the measuring instrument and diaphragm seal, it protects from damage and/or accuracy degradation with slow heat transfer rate and dead-ended process fluid providing further protection. A good product solution for challenging applications.

KEY FEATURES

- / All-welded stainless steel construction
- / Material stainless steel 304 or 316L
- / 1.5 meter length (standard); alternate lengths available
- / Available capillary lengths: 0.1 to 30 meter
- / Optional with integrated gauge support according to DIN 16281

SPECIFICATIONS

- / Type: 1115A: armored capillary (standard) / 1115P: armored capillary with Teflon sheath (optional); maximizes corrosion resistance
- / Maximum working pressure: 690 bar / 10,000 psi
- / Temperature limits: -185 °C to 400 °C / -300 °F to 750 °F

/ ACCESSORIES

PIPE CONNECTOR

Straight Pipes and 90° Elbows are used when gauge siphons are not necessary due to the service conditions. The Straight Pipe is used for vertical installations. The 90° Elbow is used for horizontal installations.

KEY FEATURES

- / Pipe Connection for measuring instruments with welded connection
- / Staight or 90°
- / Material: Steel and stainless steel 316

SPECIFICATIONS

- / Size: d = 20 mm
- / Pressure range: Max. 250 bar / 3.600 psi

MOUNTING ACCESSORIES

The brackets are designed for panel, wall and 2” pipe mounting and give full clearance for ease of handle operation.

KEY FEATURES

- / Choice materials
- / Accessories for panel, wall and 2” pipe mounting

/ TEMPERATURE

Whether unusually cold or extremely hot, almost indestructible or highly accurate. Our temperature measurement solutions are suitable, always, everywhere.

/ ELECTRONIC

S10-RTD

The S10-RTD provides a reliable means for monitoring and controlling temperature. Designed to be used in conjunction with DIN 43772/T.2 thermowells. This model is an ideal solution when high accuracy and reliability are vital.

KEY FEATURES

/ Designed for DIN 43772 thermowells
/ Manufactured to IEC 60751
/ Available with and without transmitters

SPECIFICATIONS

/ Choice of single or dual RTDs
/ Sensor Types: Pt100, and Pt1000
/ Metric Stem Diameters: 3 mm, 4.5 mm, 6 mm and 8 mm
/ Head Types: DIN B, BBK, BUZ and BUZH
/ High accuracy sensors available
/ Wide selection of aluminum alloy or 316 SS connection heads
/ DIN Standard lag extension
/ Available stainless steel tags with customer specified information

/ ELECTRONIC

S10-TC THERMOCOUPLE

The S10-TC Thermocouple provides a reliable means for monitoring and controlling temperature. Designed to be used in conjunction with DIN 43772/T.2 thermowells. This model is ideal an solution when high accuracy and reliability are vital.

KEY FEATURES

/ Designed for DIN 43772 thermowells
/ Manufactured to 60584-2, or ANSI MC 96.1
/ Available with and without transmitters

SPECIFICATIONS

/ Choice of single or dual thermocouples
/ Sensor Types: E, J, K, and N thermocouples
/ Metric Stem Diameters: 3 mm, 4.5 mm, 6 mm and 8 mm
/ Head Types: DIN B, BBK, BUZ and BUZH
/ High accuracy sensors available
/ Wide selection of aluminum alloy 316 SS connection heads
/ DIN standard lag extension
/ Available stainless steel tags with customer specified information

/ ELECTRONIC

S50-RTD

The S50-RTD delivers a reliable method for monitoring and controlling temperature. Designed to be used in conjunction with ASME style thermowells.

KEY FEATURES

/ Designed for ASME style thermowells
/ Manufactured to IEC 60751

SPECIFICATIONS

/ Choice of single or dual RTDs
/ Sensor Types: Pt100, and Pt1000
/ Metric Stem Diameters: 3 mm, 4.5 mm, 6 mm, 8 mm, 1/8”, 3/16” and 1/4”
/ Head Types: DIN B, BUZ, BUZH, Ex d, SCCI and SCCA
/ High accuracy sensors available
/ Wide selection of aluminum alloy or 316 SS connection heads
/ ASME style lag extensions
/ Available stainless steel tags with customer specified information

/ ELECTRONIC

S50-TC THERMOCOUPLE

The S50-TC Thermocouple provides a reliable means for monitoring and controlling temperature. Designed to be used in conjunction with ASME thermowells. This model is ideal an solution when high accuracy and reliability are vital.

KEY FEATURES

/ Designed for ASME thermowells
/ Manufactured to 60584-2, or ANSI MC 96.1

SPECIFICATIONS

/ Choice of single or dual thermocouples
/ Sensor Types: E, J, K, and N thermocouples
/ Metric Stem Diameters: 3 mm, 4.5 mm, 6 mm, 8 mm, 1/8“, 3/16“ and 1/4“
/ Head Types: DIN B, BUZ, BUZH, Ex d, SCCI and SCCA
/ High accuracy sensors available
/ Wide selection of aluminum alloy 316 SS connection heads
/ ASME style lag extensions
/ Available stainless steel tags with customer specified information

/ ELECTRONIC

S70-TC THERMOCOUPLE

The S70-TC Skin Type Thermocouple offers a reliable and economical solution for monitoring process temperature without the use of a thermowell. Skin type sensors accurately and reliably measures the temperature of a surface that the process media is in contact with without ever coming in contact the media. This product is ideal for applications were the sensor or thermowell cannot come in contact with the process media.

KEY FEATURES

- Weldable sensor head
- Available with and without transmitters
- Integrated expansion loop allows for expansion and contraction within temperature changes

SPECIFICATIONS

- Manufactured to IEC 60584-2 or ANSI MC 96.1
- Sensor Types: J and K
- Metric Stem Diameters: 6 mm, 8 mm and 3/8”
- Head Types: DIN B, BUZ, BUZH, Ex d, and SCCI
- Aluminum alloy 316 SS connection heads
- Threaded process connection or ANSI flanged process connection
- Available stainless steel tags with customer specified information

/ ELECTRONIC

OEM TEMPERATURE SENSORS ITS

With the INDUSTRIAL TEMPERATURE SENSOR (ITS) product line, Ashcroft offers a matched range of products specifically designed for temperature measurement in the industrial OEM industry. Our temperature sensors are so variable that we can customise them to suit your application. With Ashcroft ITS you can choose from 5 sensor types to create the perfect solution for your application.

KEY FEATURES

- Measuring Element: Pt1000, Pt100, NTC, KTY and specific solutions
- Probe sheat: Stainless steel in various lengths and diameters, optional with coating or thermowell
- Electrical connection: With or without extension cable, optional with plug connection

/ ELECTRONIC

ITT1 INDUSTRIAL TEMPERATURE TRANSMITTER FOR RESISTANCE TEMPERATURE SENSORS (RTD)

With our innovative, patented technologies, we make signal conditioning smarter and simpler. ITT1 complies with or surpass the highest industry standards, ensuring reliability in even the harshest of environments and provides the highest level of signal integrity from the measurement point to your control system.

THE MAIN ADVANTAGES

- / Easy install and programming
- / High accuracy in your measurement setup
- / Programmable error value correction of sensor
- / RTD or Ohm input

PERFORMANCE FEATURES

- / Linearization of temperature measurement of Pt100 … Pt1000 or Ni100 … Ni1000 sensors
- / Reliable conversion of a resistance value change into a standard analog current signal
- / Cable compensation for 3-wire inputs
- / Optional 4-wire input available
- / Suitable for various head types
- / Easy and fast programmable
- / Programmable sensor error detection

/ ELECTRONIC

ITT2 INDUSTRIAL TEMPERATURE TRANSMITTER FOR THERMOCOUPLE SENSORS (TC)

With our innovative, patented technologies, we make signal conditioning smarter and simpler. ITT2 complies with or surpass the highest industry standards, ensuring reliability in even the harshest of environments and provides the highest level of signal integrity from the measurement point to your control system.

THE MAIN ADVANTAGES

- / Easy install and programming
- / High accuracy in your measurement setup
- / Programmable error value correction of sensor
- / mV or TC signal input

PERFORMANCE FEATURES

- / Linearization of temperature measurement of all thermocouple types
- / Reliable amplification of the bipolar mV or TC signal into a standard analog current signal
- / Cold junction compensation with a built-in temperature sensor
- / Suitable for various head types
- / Easy and fast programmable
- / Programmable sensor error detection

/ ELECTRONIC

ITT3 INDUSTRIAL TEMPERATURE TRANSMITTER FOR TEMPERATURE SENSORS WITH IO-LINK

With our innovative, patented technologies, we make digital signal conditioning smarter and simpler. ITT3 complies with or surpass the highest industry standards, ensuring reliability in even the harshest of environments and provides the highest level of signal integrity from the measurement point to your control system.

THE MAIN ADVANTAGES

- / Easy install and programming
- / High accuracy in your measurement setup
- / Programmable I/O-Link interface
- / RTD or TC input

PERFORMANCE FEATURES

- / Linearization of temperature measurement of Pt100 3-wire sensors
- / Linearization of temperature measurement of thermocouple types J, K and N
- / Measurement rate up to 10-times per second
- / I/O Link signal with 16 bit resolution
- / Diagnostic data available
- / Easy and fast programmable
- / Event messages for sensor error detection

/ ELECTRONIC

PRESSISION TEMPERATURE SENSOR

The ASHCROFT® PRESSISION temperature sensor measures the pressure of an inert gas contained in a gas cartridge to determine the temperature. All PRESSISION temperature sensors are tailored to the specific needs of the customer. Size, shape and material of the temperature sensor, as well as the length of the connection of the stainless steel capillaries are always customer-specific.

THE MAIN ADVANTAGES

- / Best possible accuracy for temperature measurement <= 0.1 % of the measuring span
- / Safety - No electricity in the process
- / Measurement of the averaged temperature (along a length, over a diameter)
- / Short response time: Up to 5x faster than a mineral-insulated sensor
- / Alternative measuring principle to traditional measuring methods like Pt100 and thermocouples

PERFORMANCE FEATURES

- / Averaged temperature over the temperature sensor
- / Customised temperature sensors up to several metres
- / Alternative to RTD‘s and thermocouples
- / High stability, very low drift
- / Constant volume gas thermometer with high-precision pressure transmitter
- / Inert gas filling, pressure transmission via stainless steel capillary
- / Compensation of ambient temperature

/ TEMPERATURE SWITCHES

T-SERIES NEMA 4X TEMPERATURE SWITCH

The Ashcroft® T4 Temperature Switch is designed for use on virtually all OEM and Industrial applications. Providing repeatability, reliability and compatibility to meet your application requirements. This model is ideal for satisfying the requirements for temperature control, shutdown or alarm operations.

KEY FEATURES

- / Choice of temperature ranges from -40 … 16 °C to 260 … 400 °C
- / Fixed or limited adjustable deadband
- / Direct or remote reading thermal systems
- / Adjustable setpoints from 15%-100% of range
- / Internal set point locking screw

SPECIFICATIONS

- / IP66 (NEMA 4X) aluminum enclosure
- / Accuracy: ±1% full scale
- / Single setpoint
- / Optional UL and CSA listed
- / SPDT or DPDT switching option

/ TEMPERATURE SWITCHES

T-SERIES NEMA 7/9 TEMPERATURE SWITCH

The Ashcroft® T7 Explosion Proof Temperature Switch is designed for use on many hazardous applications. Providing repeatability, reliability and compatibility. This model is ideal for satisfying the requirements for temperature control, shutdown or alarm operations.

KEY FEATURES

- / Choice of temperature ranges from -40 … 16 °C to 260 … 400 °C
- / Adjustable setpoint from 15%-100% of range
- / Fixed or limited adjustable deadband
- / Direct or remote reading thermal systems
- / Explosion-proof enclosure ensures uncompromising protection
- / External locking screw (ATEX / IECEx approval only)

SPECIFICATIONS

- / NEMA 7/9 (IP66) enclosure
  Epoxy-coated aluminum (standard)
  316 Stainless steel (option XYW)
- / Accuracy: ±1% full scale
- / Single setpoint
- / SPDT or DPDT switching option

/ TEMPERATURE SWITCHES

GT-SERIES NEMA 4 TEMPERATURE SWITCH

The Ashcroft® GT temperature switch is designed for use on tough applications requiring a 316L stainless steel enclosure. The simple design allows for easy field installation, while proven technology provides switch that is repeatable and reliable. This switch is ideal for temperature control, shutdown or alarm operations.

KEY FEATURES

- / Fixed or adjustable deadbands
- / Choice of temperature ranges from -40 … 16 °C thru 260 … 400 °C)
- / Direct or remote reading thermal systems
- / Wide choice of switch elements
- / Adjustable setpoints from 15%-100% of range

SPECIFICATIONS

- / IP65 (NEMA 4X) 316L stainless steel enclosure
- / Accuracy: ±1% full scale
- / Single or dual setpoints

/ TEMPERATURE SWITCHES

VT-SERIES PNEUMATIC TEMPERATURE SWITCH

The Ashcroft® VT pneumatic temperature switch was designed for use with harsh applications where uncompromising protection is required. The features of this switch along with its proven technology provide a stable, long-lasting product; ideal for satisfying temperature control, shutdown or alarm operations.

KEY FEATURES

- / Choice of temperature ranges from -40 … 16 °C thru 260 … 400 °C
- / Adjustable setpoint from 15%-100% of range
- / Fixed deadband
- / Direct or remote reading thermal systems
- / 5/2 way pneumatic valve

SPECIFICATIONS

- / Accuracy: 1% full scale
- / IP65, aluminum enclosure epoxy coated
- / Single setpoint

MODEL A BIMETAL THERMOMETER

The Ashcroft® model A bimetallic thermometer provides high quality and performance. An ideal choice for accurate temperature measurement.

KEY FEATURES

- / Robust, hermetically sealed stainless steel case
- / Optional external adjustment allows quick, limited span adjustments; reduces maintenance and recalibration costs
- / Optional case silicone oil filled
- / Optional 316L stainless steel case and ring

SPECIFICATIONS

- / Accuracy: Class 1 according to EN 13190
- / Dial size: 100 mm or 160 mm
- / Everyangle, rear and lower connections
- / Silicone dampened coil
- / NEMA 4X/IP66 enclosure

ART BIMETAL THERMOMETER

The Ashcroft® model ART bimetallic thermometer with stepped stem provides high quality and performance. An ideal choice for accurate temperature measurement.

KEY FEATURES

- / Robust, hermetically sealed stainless steel case
- / Stepped stem provides strong stem outlet
- / Optional external adjustment allows quick, limited span adjustments; reduces maintenance and recalibration costs
- / Optional case silicone oil filled
- / Optional 316L stainless steel case and ring

SPECIFICATIONS

- / Accuracy: Class 1 according to EN 13190
- / Dial size: 100 mm or 160 mm
- / Everyangle, rear and lower connections
- / Silicone dampened coil
- / NEMA 4X/IP66 enclosure

/ INDICATING THERMOMETERS

EI BIMETAL THERMOMETER

The Ashcroft® EI bimetallic thermometer provides high quality and performance. An ideal choice foraccurate temperature measurement.

KEY FEATURES

- / Robust, hermetically sealed stainless steel case
- / External adjustment allows quick, limited span adjustments; reduces maintenance and recalibration costs
- / Maxivision® dial for easy readability and parallax elimination
- / Optional 316 stainless steel for 5“ Everyangle design

SPECIFICATIONS

- / Accuracy: ±1% full scale ASME B40.200 (B40.3 Grade A)
- / Dial size: 2“, 3“ and 5“
- / Everyangle™, rear and lower connections
- / Silicone dampened coil
- / NEMA 4X / IP66 enclosure

/ INDICATING THERMOMETERS

EL BIMETAL THERMOMETER

The Ashcroft® EL liquid filled bimetallic thermometer provides high quality and performance. An ideal choice for accurate temperature measurement.

KEY FEATURES

- / Robust, hermetically sealed stainless steel case
- / External adjustment allows quick, limited span adjustments; reduces maintenance and recalibration costs
- / Maxivision® dial for easy readability and parallax elimination
- / Optional 316 stainless steel for 5“ Everyangle design

SPECIFICATIONS

- / Accuracy: ±1% full scale ASME B40.200 (B40.3 Grade A)
- / Dial size: 3” and 5”
- / Everyangle™, and rear connections
- / Silicone dampened coil
- / NEMA 4X / IP66 enclosure

/ INDICATING THERMOMETERS

ERT BIMETAL THERMOMETER

The Ashcroft® ERT bimetallic thermometer with stepped stem provides high quality and performance. An ideal choice for accurate temperature measurement.

KEY FEATURES

- / Robust, hermetically sealed stainless steel case
- / Stepped stem provides strong stem outlet
- / External adjustment allows quick, limited span adjustments; reduces maintenance and recalibration costs
- / Maxivision® dial for easy readability and parallax elimination
- / Optional 316 stainless steel for 5“ Everyangle design

SPECIFICATIONS

- / Accuracy: ±1% full scale ASME B40.200 (B40.3 Grade A)
- / Dial size: 5“
- / Everyangle™, rear and lower connections
- / Silicone dampened coil
- / NEMA 4X / IP66 enclosure

/ INDICATING THERMOMETERS

CI BIMETAL THERMOMETER

The Ashcroft® CI bimetallic thermometer provides high quality and performance. An ideal choice for economical accurate temperature measurement.

KEY FEATURES

- / Robust, hermetically sealed case
- / Tamper-proof
- / Maxivision® dial for easy readability and parallax elimination

SPECIFICATIONS

- / Accuracy: ±1% full scale ASME B40.200 (B40.3) Grade A
- / Dial size: 2”, 3” and 5”
- / Rear and lower connections
- / IP66 / NEMA 4X enclosure

/ INDICATING THERMOMETERS

S5500 GAS ACTUATED THERMOMETER

The Ashcroft® S5500 gas actuated thermometer is a direct or remote mounted instrument providing performance while being highly resistant to shock and vibration. This product is extremely versatile for use on many applications. Usually used with a thermowell, the S5500 is ideal for applications with vibration and very high or low temperature.

KEY FEATURES

- Rugged stainless steel construction
- Fast Response
- Protection IP65
- High repeatability and small hysteresis
- Dry or liquid filled
- Rigid stem or bulb with capillary
- Optional with magnetic spring contacts or inductive proximity switches

SPECIFICATIONS

- Accuracy: ±1% full scale
- Standard: EN 13190
- Case: 100 mm or 160 mm stainless steel 304; optional stainless steel 316L
- Range: -200 … 50 °C to 0 … 800 °C
- Capillary length up to 100 m

/ INDICATING THERMOMETERS

C-600A-01 DURATEMP THERMOMETER

The Ashcroft® C-600A-01 Duratemp® thermometer is a remote mounted instrument providing performance while being highly resistant to shock and vibration. This product is extremely versatile for use on many applications. Usually used with a thermowell, the Duratemp® is ideal for applications with vibration and very high or low temperature.

KEY FEATURES

- Exclusive movementless design; eliminates wear and increases product life
- No head or elevation error due to bulb position
- Maxivision® dial for easy readability and eliminates parallax
- Wide selection of temperature ranges, line lengths and bulb styles
- Impact-resistant stainless steel case
- Bayonet ring for easy glass replacement or pointer adjustment

SPECIFICATIONS

- Accuracy: ±1% full scale (Grade A)
- 4 1/2” stainless steel case
- Surface and flush panel mount models

/ INDICATING THERMOMETERS

C-600A-02 DURATEMP THERMOMETER

The Ashcroft® C-600A-02 Duratemp® thermometer is a panel mounted instrument providing performance while being highly resistant to shock and vibration. This product is extremely versatile for use on many applications. Usually used with a thermowell, the Duratemp® is ideal for applications with vibration and very high or low temperature.

KEY FEATURES

/ Exclusive movementless design; eliminates wear and prolongs product life
/ No head or elevation error due to bulb position
/ Maxivision® dial for easy readability and eliminates parallax
/ Wide selection of temperature ranges, line lengths and bulb styles
/ Hinged ring for easy glass replacement or pointer adjustment

SPECIFICATIONS

/ Accuracy: ±1% full scale (Grade A)
/ 4 1/2“ (114 mm), 6“ (152 mm) and 8 1/2“ (215 mm) aluminum case
/ Flush panel mount design

/ INDICATING THERMOMETERS

C-600A-03 DURATEMP THERMOMETER

The Ashcroft® 600A-03 Duratemp® thermometer is a remote mounted instrument providing performance while being highly resistant to shock and vibration. This product is extremely versatile for use on many applications. Usually used with a thermowell, the Duratemp® is ideal for applications with vibration and very high or low temperature.

KEY FEATURES

/ Exclusive movementless design; eliminates wear and prolongs product life
/ No head or elevation error due to bulb position
/ Maxivision® dial for easy readability and eliminates parallax
/ Wide selection of temperature ranges, line lengths and bulb styles
/ Impact-resistant aluminum case
/ Threaded ring allows easy glass replacement or pointer adjustment

SPECIFICATIONS

/ Accuracy: ±1% full scale (Grade A)
/ 4 1/2” and 6” aluminum case
/ Surface mount design

/ INDICATING THERMOMETERS

C-600A-04 DURATEMP THERMOMETER

The Ashcroft® C-600A-04 Duratemp® thermometer is a remote mounted instrument providing performance while being highly resistant to shock and vibration. This product is extremely versatile for use on many applications. Usually used with a thermowell, the Duratemp® is ideal for applications with vibration and very high or low temperature.

KEY FEATURES

- / Exclusive movementless design; eliminates wear and prolongs product life
- / No head or elevation error due to bulb position
- / Maxivision® dial for easy readability and eliminates parallax
- / Wide selection of temperature ranges, line lengths and bulb styles
- / Snap ring allows easy glass replacement or pointer adjustment

SPECIFICATIONS

- / Accuracy: ±1% full scale (Grade A)
- / 4 1/2“ and 6“ phenol case
- / Surface and flush mount design

/ INDICATING THERMOMETERS

C-600H-45 DURATEMP THERMOMETER

The Ashcroft® C-600H-45 Duratemp® thermometer is a remote mounted instrument providing performance while being highly resistant to shock and vibration. The hermetically sealed case design enables its use on applications where extreme moisture or dust exist. Usually used with a thermowell, the Duratemp® Thermometer is ideal for applications with vibration and very high or low temperature.

KEY FEATURES

- / Hermetically sealed case
- / Exclusive movementless design; eliminates wear and prolongs product life
- / No head or elevation error due to bulb position
- / Maxivision® dial for easy readability and eliminates parallax
- / Wide selection of temperature ranges, line lengths and bulb styles

SPECIFICATIONS

- / Accuracy: ±1% full scale (Grade A)
- / 4 1/2” (114 mm) phenol case
- / Surface mount design

/ INDICATING THERMOMETERS

C-600B DURATEMP THERMOMETER

The Ashcroft® C-600B Duratemp® thermometer is a direct-mount instrument providing performance while being highly resistant to shock and vibration. Its high temperature range capability exceeds that of most bimetallic thermometers, making it ideal for use on many applications. Usually used with a thermowell, the Duratemp® is ideal for applications with vibration and very high or low temperature.

KEY FEATURES

- / Exclusive movementless design; eliminates wear and prolongs product life
- / Maxivision® dial for easy readability and eliminates parallax
- / Display can be rotated 360-degrees for easy readability
- / Wide selection of temperature ranges and stem lengths

SPECIFICATIONS

- / Accuracy: ±1% full scale (Grade A)
- / 4 1/2“ stainless steel case
- / Everyangle, direct mount design

/ THERMOWELLS

THREADED THERMOWELLS

The Ashcroft® threaded thermowells are utilized when pressure, high velocity and corrosive process media exist. This serves to isolate and protect the sensing instrument, and permits removal of a sensing instrument without shutting down the process. A perfect solution for protecting the process and extending product service life.

KEY FEATURES

/ Straight, Stepped or Tapered designs
/ One piece bar stock
/ Wide selection of sizes, material and dimensions
/ Stamped with date code, material and heat numbers

SPECIFICATIONS

/ Process connection: 1/2“, 3/4“ and 1“ NPT
/ Bore size: 6,6 mm (0,260“), 9,8 mm (0,385“), 6 mm, 8 mm

/ THERMOWELLS

FLANGED THERMOWELLS

The Ashcroft® flanged thermowell is used when pressure, high velocity and corrosive process media exist. This serves to isolate and protect the sensing instrument, and permits removal of a sensing instrument without shutting down the process. Thermowells are offered in a wide selection of materials, sizes and dimensions; a perfect solution for protecting the process and extending product service life.

KEY FEATURES

/ One piece bar stock
/ Wide selection of materials
/ Selection of shank styles
/ Stamped with date code, material and heat numbers

SPECIFICATIONS

/ Raised face, flat face and ring joint versions (ASME B16.5)
/ Process connection: 1”, 1 1/2” and 2”
/ Bore size: 6,6 mm (0,260”), 9,8 mm (0,385”), 6 mm to 10 mm
/ Flange ratings: 150, 300, 600, 900, 1500 and 2500 class

VAN STONE THERMOWELLS

The Ashcroft® Van Stone thermowell is used when pressure, high velocity and corrosive process media exist. Designed to mate between two existing flanges. Serving to isolate and protect, it also allows the sensing instrument to be removed without requiring process shut down. An ideal solution for ensuring system operation.

KEY FEATURES

/ Wide selection of materials
/ Stamped with date code, material and heat numbers

SPECIFICATIONS

/ Fits: 1“ and 1 1/2“ lap joint flanges
/ Bore size: 6,6 mm (0,260“), 9,8 mm (0,385“), 6 mm to 10 mm

SANITARY THERMOWELLS

The Ashcroft® sanitary thermowell is utilized when pressure, high velocity and corrosive process media exist. This serves to isolate and protect the sensing instrument, and permits removal of a sensing instrument without shutting down the process. Thermowells are offered in a wide selection of materials, sizes and dimensions; a perfect solution for protecting the process and extending product service life.

KEY FEATURES

/ Wide selection of materials
/ Selection of shank styles
/ Stamped with date code, material and heat numbers

SPECIFICATIONS

/ Tri-Clamp® process connection: 1”, 1 1/2” and 2”
/ Bore size: 6,6 mm (0,260”), 9,8 mm (0,385”), 6 mm to 10 mm
/ Surface finish:
8-12 Ra (standard)
4-12 Ra (optional)

/ THERMOWELLS

WELD-IN THERMOWELLS

The Ashcroft® weld-in thermowell is used when pressure, high velocity and corrosive process media exist. Serving to isolate and protect, it also allows the sensing instrument to be removed without requiring process shut down. An ideal solution for ensuring system operation.

KEY FEATURES

/ Wide selection of materials
/ Stamped with date code, material and heat numbers

SPECIFICATIONS

/ Process connection: 1“, 1 1/2“ diameter
/ Bore size: 6,6 mm (0,260“), 9,8 mm (0,385“), 6 mm to 10 mm

/ THERMOWELLS

SOCKET WELD THERMOWELLS

The Ashcroft® socket weld thermowell is used when pressure, high velocity and corrosive process media exist. Serving to isolate and protect, it also allows the sensing instrument to be removed without requiring process shut down. An ideal solution for ensuring system operation.

KEY FEATURES

/ One piece bar stock
/ Wide selection of materials
/ Stamped with date code, material and heat numbers
/ Optional lagging configuration

SPECIFICATIONS

/ Process connection: 3/4” and 1”
/ Bore size: 6,6 mm (0,260”), 9,8 mm (0,385”), 6 mm to 10 mm

/ LEVEL

Not too much and not too less. Level is more than a metric.

/ LEVEL TRANSMITTER

GC35 INDICATING PRESSURE TRANSDUCER WITH SWITCH OUT-PUTS

The Ashcroft® GC35 is a compact indicating transducer with analog scaling and switch outputs. Incorporating field-proven thin film sensor, this model can monitor a wide variety of applications. An ideal choice for optimizing instrument costs.

KEY FEATURES

/ Compact footprint
/ 3-in-1 capability: digital pressure gauge, switch and transducer
/ Programmable switch setting and analog scaling
/ Min./max. feature records low and high pressure events
/ Simple “push button“ operation
/ GloBand display provides 360-degree visibility

SPECIFICATIONS

/ Accuracy: ±1% span
/ Pressure Ranges: Vacuum to 600 bar; compound ranges up to 20 bar
/ LED display (4 digit)
/ IP65/67 aluminum enclosure
/ Wetted material: all-welded stainless steel

/ LEVEL TRANSMITTER

GC51 RANGEABLE INDICATING PRESSURE TRANSMITTER

The Ashcroft® GC51 rangeable pressure transmitter incorporates field-proven thin film technology, and can be used for monitoring a wide variety of wet or dry media. A perfect choice for pressure measurement.

KEY FEATURES

/ Compact, robust design
/ Min./max. feature records low and high pressure events
/ Analog scaling
/ Simple internal “push button“ configurability
/ “Loop check“ allows easy display of user-defined units and verification without applying pressure
/ Key lock prevents inadvertent changes to settings

SPECIFICATIONS

/ Accuracy: ±0.25% span
/ Pressure Ranges: 0 … 3.4 to 0 … 500 bar; compound ranges to -1 … 3,4 bar
/ IP65 (NEMA 4X) aluminum enclosure
/ Wetted material: all-welded stainless steel
/ Backlit / rotatable LED display (4 digit)
/ Output signal: 4-20 mA

/ LEVEL TRANSMITTER

GC52 RANGEABLE WET/WET DIFFERENTIAL PRESSURE TRANSMITTER

The Ashcroft® GC52 wet/wet differential pressure transmitter where consistent, reliable low DP measurement is essential. The unit can monitor a wide variety of wet or dry media. An ideal choice for optimizing instrument costs when multi-functionality is needed.

KEY FEATURES

- / Compact, robust design
- / Min./max. feature records low and high pressure events
- / Analog scaling
- / Simple internal “push button“ configurability
- / Flow measurement/square root extraction where the momentary flow rate can be displayed and analog signal can be output
- / “Loop check“ allows easy display of user-defined units and verification without applying pressure

SPECIFICATIONS

- / Accuracy: ±0.5% span
- / Differential Pressure Ranges: 10 mbar to 1 bar
- / Max. static pressure 20 bar
- / IP65/NEMA 4X aluminum enclosure
- / Wetted material: all-welded stainless steel
- / Backlit / rotatable LED display (4 digit)
- / Output signal: 4-20 mA

/ LEVEL SWITCH

LS LEVEL SWITCH

The Ashcroft® level switch series LS is designed to measure liquid levels in both unpressurised and pressurised tanks. They are the most economical and reliable solution for level control in tanks and vessels. All switches are available in a variety of materials and designs that are suitable for a wide range of liquids to be controlled.

KEY FEATURES

- / Wetted parts and floats available in Stainless steel or PVDF or PVC
- / Up to 6 independent switch levels
- / Available with IP6X protection
- / Optional ATEX approved
- / Optional with high temperature execution
- / Precise, reliable and cost efficient
- / Easy to install and maintain

SPECIFICATIONS

- / Setpoint accuracy: ±2 mm
- / Stem length: up to 3 meters
- / Working pressure: from 4 up to 60 bar
- / Process connection: threaded from G 1/8 … G 2, flanged
- / Electrical contacts: reed switch SPST or SPDT

/ SUBMERSIBLE PRESSURE SENSOR

SL17 – SUBMERSIBLE PRESSURE TRANSMITTER

The Ashcroft® SL17 submersible transmitter provides a highly reliable platform for accurate pressure, level control and monitoring. An ideal sensor when durability and performance are crucial for proper process management.

KEY FEATURES

- / Predefined and custom cable lengths
- / Small OD diameter designed to fit narrow bore applications

SPECIFICATIONS

- / Accuracy: ±0.25% for ranges > 100 mbar, ±0.5% for 100 mbar
- / Pressure Ranges: 0 … 100 mbar to 0 … 20 bar or equivalent units
- / Housing: IP68, NEMA 6P
- / Wetted materials: 316L stainless steel housing and sensor with polyurethane cable
- / Output signal: 4-20 mA

/ INTERNET OF THINGS

Networking and communication, because we can do more than just reading measuring points.

IoT PRODUCTS

/ PAGE 181-182

/ INTERNET OF THINGS

AIRCOM TRANSMITTER

The choice of the optimal communication channel to ensure reliability, speed and security is therefore absolutely essential. With Aircom™ we offer a transmission technology that can operate over a distance of 40 km with military encryption, completely independent of GSM and without power supply at the measuring point.

PRODUCT FEATURES

- / Free communication infrastructure via LoRaWAN
- / 40+ km transmission range (urban areas reduce range)
- / Ability to communicate globally with the 'Internet of Things' (IoT)
- / ATEX Zone 0 applications
- / Protection class IP65 (higher protection class on request)
- / 4 digital inputs, 2 analogue inputs and 2 serial inputs
- / Supplies the connected measuring instruments with energy
- / Integrated I.S. barriers for each channel
- / Up to 10+ years battery life (depending on protocol / transmission rate)
- / Battery can be changed in hazardous areas
- / Device setup and confi guration via mobile Bluetooth application (iOS and Android)
- / ARM microcontroller offers a wide range of intelligent monitoring options
- / Encrypted data protocol ensures secure transmission

/ INTERNET OF THINGS

ITT3 INDUSTRIAL TEMPERATURE TRANSMITTER FOR TEMPERATURE SENSORS WITH IO-LINK

With our innovative, patented technologies, we make digital signal conditioning smarter and simpler. ITT3 complies with or surpass the highest industry standards, ensuring reliability in even the harshest of environments and provides the highest level of signal integrity from the measurement point to your control system.

THE MAIN ADVANTAGES

- / Easy install and programming
- / High accuracy in your measurement setup
- / Programmable I/O-Link interface
- / RTD or TC input

PERFORMANCE FEATURES

- / Linearization of temperature measurement of Pt100 3-wire sensors
- / Linearization of temperature measurement of thermocouple types J, K and N
- / Measurement rate up to 10-times per second
- / I/O Link signal with 16 bit resolution
- / Diagnostic data available
- / Easy and fast programmable
- / Event messages for sensor error detection

/ CALIBRATION

Instruments, Calibration and Repair Service.

ATE-2 HANDHELD CALIBRATOR

The Ashcroft® ATE-2 handheld calibrator is an exceptional instrument performing precision measurement of pressure, temperature, current or voltage. The base unit includes application-specific firmware for convenient instrument calibration and logging of associated data. In addition, the ATE-2 has the ability to interface the system with a computer, data acquisition system or dumb terminal via the standard USB interface. An ideal product when calibration and traceability are needed.

KEY FEATURES

- Large LCD display (1.5“ x 2.5“)
- Dual sensor module bay for interchangeable modules
- Data logging capability up to 16,000 records
- Many Standard firmware features – min./max., tare, programmable damping, percent function, and switch test
- AQS pressure and temperature modules can be upgraded to work with the ATE-2

SPECIFICATIONS

- Pressure Measurement Accuracy: ±0.025%, ±0.05% – ±0.7% or ±0.1%
- Enclosure: IP65 (NEMA 4X); high-impact PC-ABS
- Pressure Ranges: 60 Pa to 700 bar

/ TEST GAUGES

1084 TEST GAUGE

The Ashcroft® 1084 pocket test gauge is used for inspection, test and validation of key installation points. An ideal choice for satisfying pressure measurement when highly-reliable precision is needed.

KEY FEATURES

- / Compact design
- / MicroSpan™ adjustment eases span calibration
- / Mirror-band dial and knife-edge pointer eliminates paralax error while assuring easy readability of precise measurements
- / Teflon®-coated, stainless steel movement
- / Integral span adjustment

SPECIFICATIONS

- / Accuracy: ±0.5% full scale (grade 2A)
- / Pressure Ranges: Vacuum to 70 bar
- / Dial size: 3“
- / Case: stainless steel; open-front

/ TEST GAUGES

1082 PRECISION PRESSURE GAUGE

The Ashcroft® 1082 test gauge is a precise instrument acclaimed for dependability, safety and performance. Used for test and validation, its manufacture is continuously monitored to assure uncompromising standards and material integrity. An ideal choice for satisfying most applications and installation requirements needing highly-reliable precision instruments.

KEY FEATURES

- / MicroSpan™ adjustment eases span calibration
- / Mirror-band dial and knife-edge pointer eliminates paralax error
- / Solid-front case design for safety
- / Teflon®-coated, 400 stainless steel movement
- / Epoxy-coated system for corrosion resistance

SPECIFICATIONS

- / Accuracy: ±0.25% full scale (ASME B40.100 Grade 3A)
- / Pressure Ranges: Vacuum to 700 bar
- / Dial size: 4 1/2”, 6” and 8 1/2”
- / Case: aluminum; solid-front safety design

/ TEST GAUGES

CC PRECISION PRESSURE GAUGE

HEISE

The HEISE® CC precision dial pressure gauge is known for high accuracy and performance. An ideal product for use with test, calibration and validation systems.

KEY FEATURES

- / Mirror-band dial and knife-edge pointer eliminates parallax error while assuring easy readability of precise measurements
- / Solid-front case design and blow-out safety back protect users from extreme overpressure
- / Zero adjustment at the front
- / Optional Thermal Compensation – to maintain accuracy over a wide temperature range from -32° to +52°C

SPECIFICATIONS

- / Accuracy: ±0.1% full scale (ASME B40.100 Grade 4A)
- / Pressure Ranges: Vacuum to 1600 bar
- / Dial size: 8 1/2“, 12“ and 16“; aluminum solid-front case

/ TEST GAUGES

CM PRECISION PRESSURE GAUGE

HEISE

The HEISE® CM precision dial pressure gauge is known for high accuracy and performance. An ideal product for use with test, calibration and validation systems.

KEY FEATURES

- / Mirror-band dial and knife-edge pointer eliminates parallax error while assuring easy readability of precise measurements
- / Solid-front case design and blow-out safety back protect users from extreme overpressure
- / Zero adjustment at the front
- / Optional Thermal Compensation – to maintain accuracy over a wide temperature range from -32° to +52°C
- / Flushing Connection on tube standard
- / 350° pointer arc
- / Easy access for calibration

SPECIFICATIONS

- / Accuracy: ±0.1% full scale (ASME B40.100 Grade 4A)
- / Pressure Ranges: Vacuum to 7000 bar
- / Dial size: 6”, 8 1/2”, 12” and 16”; aluminum solid-front case

CMM PRECISION PRESSURE GAUGE

HEISE

The HEISE® CMM precision dial pressure gauge is known for high accuracy and performance. An ideal product for use with test, calibration and validation systems.

KEY FEATURES

- / Mirror-band dial and knife-edge pointer eliminates paralax error while assuring easy readability of precise measurements
- / Solid-front case design and blow-out safety back protect users from extreme overpressure
- / Zero adjustment at the front
- / Optional Thermal Compensation – to maintain accuracy over a wide temperature range from -25° to +125°F
- / Flushing Connection on tube standard
- / Pointer travels 2 revolutions (660° arc)

SPECIFICATIONS

- / Accuracy: ±0.1% full scale (ASME B40.100 Grade 4A)
- / Pressure Ranges: 0 … 2 bar to 0 … 600 bar
- / Dial size: 6”, 8-1/2“, 12“ and 16“; aluminum solid-front case

/ HAND PUMPS AND CONTROLLERS

DPPV-KIT COMBINATION PRESSURE & VACUUM PUMP

The Ashcroft® DPPV-KIT combination pressure and vacuum pumps are hand-operated devices used for generating system pressure. Used for calibrating measurement devices, the simple operation and easy portability make them versatile for field applications.

KEY FEATURES

/ Lightweight and portable
/ Vernier control; fine adjustment

SPECIFICATIONS

/ Hoses: two – 1 meter lengths with quick-release ends
/ Adapter termination: 1/8“ NPT male and 1/4“ NPT male
/ Pressure Ranges: -0.7 bar to 8.6 bar

/ HAND PUMPS AND CONTROLLERS

DCAP-KIT PNEUMATIC HAND PUMP

The DCAP is a rugged all metal pneumatic hand pump capable of generating up to 650 psi (45 bar). This portable device is ideal for field pressure calibration.

KEY FEATURES

/ Fine adjustment allows the operator ro vary applied pressure within 0.1 mbar
/ Soft sealed bleed valve allows for precisely controlled pressure relief
/ Two outlets ports with quick test adapters installed in the pump body lightweight and portable

SPECIFICATIONS

/ Hoses: two – 1 meter lengths with quick-release ends
/ Adapter termination: 1/8” NPT male and 1/4” NPT male
/ Pressure ranges: 0 … 45 bar

/ HAND PUMPS AND CONTROLLERS

QTHP-KIT HYDRAULIC HAND PUMP

The QTHP is a portable hydraulic hand operated pump capable of generating up to 5,000 psi (345 bar) using liquid media including water, alcohol, oils and hydraulic fluids.

KEY FEATURES

- / Fine adjustment allows the operator to vary applied pressure within 1 mbar
- / Two outlet ports with quick test adapters installed in pump body
- / Pressue media fluid must be compatiable with wetted parts that are made from Buna-N, Teflon, polysulfone, brass, aluminum and stainless steel

SPECIFICATIONS

- / Hoses: two – heavy duty 1 meter lengths
- / Adapter terminations: 1/8 NPT male and 1/4 NPT male
- / Pressure ranges: 0 bar up to 345 bar

/ HAND PUMPS AND CONTROLLERS

AVC-1000 AND AVC-3000 PRESSURE VOLUME CONTROLLER

The Ashcroft® AVC-1000 and AVC-3000 pressure volume controllers provide a means to precisely set pressures within a closed pneumatic system. Providing quick-and-easy operation, models are paired with test gauges, creating a reliable standard for calibration and test purposes.

KEY FEATURES

- / Mechanical rotation is directly proportional to volume change due to piston travel
- / Integral balance valve equalizes pressure and acts as pressure-relief valve
- / Do not require compressed air source

SPECIFICATIONS

- / Resolution:
  Type AVC-1000: 0.017 mbar
  Type AVC-3000: 0.034 mbar
- / Mechanical rotation:
  Type AVC-1000: 31
  Type AVC-3000: 61
- / Pressure Ranges:
  Type AVC-1000: Vacuum to 70 bar
  Type AVC-3000: Vacuum to 210 bar

/ SERVICE
CALIBRATION

Ashcroft Instruments GmbH is since 1982 a full active member of the German Calibration Service (DKD). The DKD organization was transfered to DAkkS in 2010. We offer our calibration services for mechanical and electronic pressure gauges for all brands within the ranges from -1 up to 4000 bar and calibration certificates according to DAkkS or in-house standards.

WE OFFER FOLLOWING SERVICES

- / DAkkS-calibration, including certificate and calibration sticker
- / Calibration according to in-house standards including certificate and calibration sticker
- / Files of calibration history
- / Calibration according to in-house standards for electric output signal of pressure and temperature transmitters
- / Special calibrations on request

/ SERVICE
REPAIR

We check and repair all ASHCROFT® and HEISE® pressure and temperature measurement devices.

Please, inform our service department in advance if you want to return goods.
It is requested to confirm cleanness of the instrument when it was used on process with the document what can be downloaded on the website.

CONTACT

service@ashcroft.com
+49-2401-808-888

/ TRANSMITTER SERVICE

Competence center for diaphragm seals and diaphragm seal systems with state-of-the-art manufacturing and calibration capacities.

DIAPHRAGM SEAL EXPERTISE

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/ DIAPHRAGM SEAL EXPERTISE

Not only do we manufacture pressure, temperature and level instruments at our European manufacturing facility, but we also maintain our centre of excellence for diaphragm seals and diaphragm seal systems there.

Here we combine our research and development expertise with state-of-the-art manufacturing and calibration capabilities.
Our diaphragm seals and diaphragm seal systems are the result of our many years of development work and application experience.

MANUFACTURING & METHODOLOGY

In dialogue with our customers, we develop application and user-specific solutions. We also rely on software-based simulations to calculate diaphragm performance based on finite element methodology.

A smart production line with modern welding technology and in-house developed filling stations enable technically and economically interesting product solutions while ensuring fast and reliable delivery times.

TYPES OF MOUNTING

Various types of mounting are possible, such as:
/ Direct mounting
/ Attachment with capillary
/ Asymmetrical systems (for differential pressure measurement)

MATERIALS & SPECIAL MATERIALS

The standard material of our flanges and diaphragms is 316L dual grade stainless steel.

The welding technology used also offers a maximum range of special materials for the diaphragm, which is applied to the standard stainless steel flange or a flange made of special material.

Thus we offer diaphragm seal systems with the following materials:
/ Stainless steel / Duplex / Monel / Hastelloy / Inconel / Tantalum
/ Gold plated / Titanium / PTFE coated / ECTFE coated

FILLING FLUIDS

A complete portfolio of different filling fluids makes our diaphragm seal systems suitable for applications in
/ Low and high temperature applications
/ Food industry
/ Pharmaceutical industry
/ Processes with highly reactive media

Furthermore, the filling fluids used optimise the dynamic response of the diaphragm seal system.
Our design is always tamper-proof and process-safe due to the use of fully welded components.

CALIBRATION

We calibrate the entire system, taking into account the overall geometric situation in the subsequent application. We also take into account the specified process and ambient temperatures and calculate the system response time and the possible temperature influence.

PRODUCT SOLUTIONS

We realise our diaphragm seal systems for our own as well as third-party products and create solutions for:

/ Pressure gauges
/ Pressure switches
/ Transmitters
/ Pressure transmitters
/ Digital pressure gauges

SERVICE / MAINTENANCE / REPAIR

Our services do not only concentrate on new systems. We are also able to maintain and repair an existing system in a professional and reliable manner. We can also reliably calibrate an existing system thanks to the expertise of our DAkkS accredited test laboratory.

/ SECTORS

Our products ensure reliable operation in numerous industries worldwide.

THINK CUSTOMER FIRST

Every measure, every plan and every project is aimed first and foremost at you, our customer. We see the world through your eyes.

NEVER SETTLE / CHALLENGE THE STATUS QUO

What was true yesterday is not necessarily true today. At Ashcroft, we challenge each other to never be indifferent, to keep improving ourselves and the company.

RESPECT EACH OTHER

We celebrate our diversity, share our ideas and intensify our collective thinking. We act and discuss in mutual respect and thus find better solutions.

THINK BEYOND BORDERS

Across geographical borders. Beyond the factory. Beyond your own area of responsibility. Beyond the personal comfort zone.

WIN AS A TEAM

The common goal is more important to us than our own.

/ CORE VALUES

Our corporate values are not abstract, but are lived by us.

/ THIS IS ASHCROFT

Times have changed, but not our mission.

DEVELOPMENT OUT OF TRADITION

When Edward Ashcroft founded our company in 1852, his mission was to protect the steam-powered industry and its workers by using more sophisticated and reliable instruments. Times have changed, but not our attitude. With a history of more than 165 years, of which more than 40 years with our own production in Europe, we have experienced and learned a lot. Together with our customers, we have mastered three industrial revolutions, survived global and regional conflicts and crisis's. We look forward to accompanying our customers with our products in the fourth industrial revolution as well.

GLOBAL - REGIONAL - LOCAL

Globally positioned - regionally represented and locally available for you.
With local contacts who speak your language and are ready to solve your challenges.

OUR GREATEST STRENGTH

All of Ashcroft's products and services are the result of our exceptional people. We are all passionate about our common goal, the best customer satisfaction. Ashcroft is inspired of a common commitment to our work and to each other. Combining the talents of our diverse workforce makes us more competitive, resilient and better able to respond to the ever-changing needs of our customers and markets.

OUR MOTIVATION

As a customer and partner, you are the focus of our attention. We are passionate about designing and producing the most innovative, high quality pressure and temperature measuring instruments on our planet.