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Trademarks

Ashcroft Inc. Trademarks

Ashcroft maintains a variety of globally Registered Trademarks and Service Marks, many of which appear in this Ordering Handbook. The following Trademarks and Service Marks are the property of Ashcroft Inc. and should not be used without its permission on any product or service:

Ashcroft[®]
 Duradrive[™] pressure gauge
 Duragauge[®] pressure gauge
 Duragauge[®] **PLUS!**[™] pressure gauge
 Duralife[®] pressure gauge
 Duralife[®] **PLUS!**[™] pressure gauge
 DuraShield[™] instrument assembly
 Duratemp[®] thermometer
 Duratube[™] system
 Easy Zero[™] adjustment
 Everyangle[™] connection
 FlutterGuard[™] option
 GloBand[™] display
 Heise[®]
 Maxivision[®] dial
 MicroSpan[®] adjustment
 MiniGauge[®] pressure gauge
PLUS![™] Performance option
 PowerFlex[™] movement
 Quick-Select[™] calibrator
 SQR[™] – Safe Quick Release
 Si-Glas[™] sensor
 SpoolCal[®] actuator
 True Zero[™] indication
 Weksler[®]
 Willy[®]

Ashcroft Inc. Service Marks

ActionLine[®]
 Ashcroft ActionLine[®]
 Ashcroft Gold Service[®]
 CASE[®] - Critical Application Solution Experts[®]
 CESSM
 Gold ServiceSM
 Heise ActionLine[®]
 Heise Gold ServiceSM

Other Trademarks

These non-Ashcroft trademarks are used throughout the book and are the property of their respective owners:

AMINCO [®]	Kynar [®]
Bendix [®]	Monel [®]
Carpenter [®] 20	Neobee [®] M-20
Cherry Burrell [®]	Neoprene [®]
Dacron [®]	Microbraze [®]
Decrin [®]	Noryl [®]
Duratherm 600 [®]	Skydrol [®] 500-4
Grafoil [®]	Syltherm [®]
Halar [®]	Teflon [®]
Halocarbon [®]	Tri-Clamp [®]
Hastelloy [®]	Ultrafil [®]
Hirschmann [®]	VCO [®]
Inconel [®]	VCR [®]
Kalrez [®]	Viton [®]

NACE

NACE International publishes standards governing materials selection in corrosive environments. NACE standard MR0175/ISO 15156 (Materials for use in H₂S-containing environments in oil and gas production) and MR0103/ISO 17945 (Metallic materials resistant to sulfide stress cracking in corrosive petroleum refining environments) are often cited when specifying instrument for sour oil and gas applications. These standards provide guidance on selecting materials that are resistant to stress cracking caused by exposure to hydrogen sulfide. Compliance with the standards may be required by law in certain jurisdictions.

Hydrogen Sulfide

A diaphragm seal should be used for high concentrations of hydrogen sulfide; for over 3% or 30,000 ppm, a seal is essential. Hastelloy C276 is recommended, and tantalum may be used, but is not compliant with MR0103. For oil and gas applications, MR0175 or MR0103 should be consulted.


Wastewater Applications

May also encounter trace amounts of hydrogen sulfide. Instruments specified per the NACE standards are suitable for hydrogen sulfide bearing waste water applications although the scope of the standards is limited to oil and gas production and refining.

Units of Measurement

psi = pounds per sq. inch
 psig = pounds per sq. inch gauge
 psia = pounds per sq. inch absolute
 psid = pounds per sq. inch differential
 inH₂O = inches of water
 IWC = inches of water column
 IWD = Inches of water differential
 mmH₂O = millimeters of water
 inHg = inches of mercury
 IMV = inches of mercury vacuum
 mPa = millipascal
 MPa = megapascal
 pa = pascal
 kPa = kilopascal
 mbar = millibar
 kg/cm² = kilograms per centimeter squared

Logos

PLUS![™] =  **PLUS!**[™] Performance Option – Dampens Vibration, Shock and Pulsation effects

Gold ServiceSM =  Expedited Delivery

RoHS =  RoHS Compliant

CRN =  Canadian Registration Number

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Products & Features



		1279	1377	1379	2462
Specifications	Dial Sizes	4½"	4½", 6", 8½"	4½", 6", 8½"	6"
	Accuracy	±0.5% of span (ASME B40.100 Grade 2A)	±0.5% of span (ASME B40.100 Grade 2A)	±0.5% of span (ASME B40.100 Grade 2A)	±0.5% of span (ASME B40.100 Grade 2A)
	Dampening	Glycerin, Silicone, Halocarbon [®] , PLUSI [™] Performance	Glycerin, Silicone, Halocarbon [®] , PLUSI [™] Performance	Glycerin, Silicone, Halocarbon [®] , PLUSI [™] Performance	Glycerin, Silicone, Halocarbon [®] , PLUSI [™] Performance
	Process Connection	¼ NPT, ½ NPT Male (see data sheet for more options)	¼ NPT, ½ NPT Male (see data sheet for more options)	¼ NPT, ½ NPT Male (see data sheet for more options)	¼ NPT, ½ NPT Male (see data sheet for more options)
	Process Connection Location	Lower, back	Lower, back	Lower, back	Lower, back
	Mounting Options	Stem, surface, flush	Stem, flush	Stem, surface, flush	Stem, surface, flush
Wetted Components	Bourdon Tube	Bronze, 316L SS, Monel [®]	Bronze, 316L SS, Monel [®]	Bronze, 316L SS, Monel [®] , Inconel [®]	Bronze, 316L SS, Monel [®]
	Process Connection	Brass, 316L SS, Monel [®] , Steel	Brass, 316L SS, Monel [®] , Steel	Brass, 316L SS, Monel [®] , Steel	Brass, 316L SS, Monel [®] , Steel
Non-Wetted Components	Case	Phenolic	Aluminum	Aluminum	Polypropylene
	Window	Glass, acrylic, safety glass, non-glare glass	Glass, acrylic, safety glass, non-glare glass	Glass, acrylic, safety glass, non-glare glass	Glass, acrylic, safety glass, non-glare glass
	Ring	Polycarbonate (meets UL 94 V-0)	Steel, black enamel	Polycarbonate (meets UL 94 V-0)	Polypropylene
	Pressure Relief Back	Polycarbonate (meets UL 94 V-0)	SS	Polycarbonate (meets UL 94 V-0)	Polypropylene
Process Temperature Limits	Dry	-20°F to 250°F (-29°C to 121°C)	-20°F to 250°F (-29°C to 121°C)	-20°F to 250°F (-29°C to 121°C)	-20°F to 250°F (-29°C to 121°C)
	PLUSI [™]	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)
	Glycerin Fill	20°F to 150°F (-7°C to 66°C)	20°F to 150°F (-7°C to 66°C)	20°F to 150°F (-7°C to 66°C)	20°F to 150°F (-7°C to 66°C)
	Silicone Fill	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)
	Halocarbon [®] Fill	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)
Ranges	Pressure	Vacuum, compound, 15 to 30,000 psi	Vacuum, compound, 15 to 30,000 psi	Vacuum, compound, 15 to 100,000 psi	Vacuum, compound, 15 to 30,000 psi
	Units	psi, bar, kg/cm ² , kPa	psi, bar, kg/cm ² , kPa	psi, bar, kg/cm ² , kPa	psi, bar, kg/cm ² , kPa
Weather Protection	Dry Case	Case not sealed, recommended for weather protected environment only	Case not sealed, recommended for weather protected environment only	Case not sealed, recommended for weather protected environment only	Case not sealed, recommended for weather protected environment only
	Liquid Filled	IP66 or NEMA 4X	IP66 or NEMA 4X	IP66 or NEMA 4X	IP66 or NEMA 4X
	Hermetically Sealed	IP66	IP66	IP66	IP66
Approvals		CRN	CRN	CRN	CRN

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		1259	1290	1109	1209
Specifications	Dial Sizes	4½"	4½"	4½"	4½"
	Accuracy	±0.5% of span (ASME B40.100 Grade 2A)	±0.5% of span (ASME B40.100 Grade 2A)	±0.5% of span (ASME B40.100 Grade 2A)	±0.5% of span (ASME B40.100 Grade 2A)
	Dampening	Glycerin, Silicone, Halocarbon®	NA	Glycerin, Silicone, Halocarbon®, PLUS! ™ Performance	Glycerin, Silicone, Halocarbon®, PLUS! ™ Performance
	Process Connection	¼ NPT, ½ NPT Male	¼ NPT, ½ NPT Male	¼ NPT, ½ NPT, ⅜-18 UNF-2B High pressure fitting	¼ NPT, ½ NPT Male
	Process Connection Location	Lower	Lower	Lower	Lower
	Mounting Options	Stem, surface, flush	Stem, surface, flush	Stem	Stem, surface
Wetted Components	Bourdon Tube	316L SS, Monel®	Inconel®	316L SS, Inconel® 718	316L SS
	Process Connection	316L SS, Monel®	316L SS	316L SS	316L SS, Monel®
Non-Wetted Components	Case	PBT Polybutylene Terephthalate (meets UL 94 V-0)	ABS	SS	316L SS
	Window Material	Glass, safety glass, acrylic	Acrylic, glass	Glass, safety glass, acrylic	Glass, safety glass, acrylic
	Ring	PBT Polybutylene Terephthalate (meets UL 94 V-0)	302 SS	300 SS	316L SS
	Pressure Relief Back	PBT Polybutylene Terephthalate (meets UL 94 V-0)	Polypropylene	304 SS	316L SS
Process Temperature Limits	Dry	-20°F to 250°F (-29°C to 121°C)	-20°F to 250°F (-29°C to 121°C)	-20°F to 250°F (-29°C to 121°C)	-20°F to 250°F (-29°C to 121°C)
	Glycerin Fill	20°F to 200°F (7°C to 93°C)	NA	NA	20°F to 200°F (7°C to 93°C)
	Silicone Fill	-40°F to 200°F (-40°C to 93°C)	NA	NA	-40°F to 200°F (-40°C to 93°C)
Ranges	Pressure	Vacuum, compound, 15 to 20,000 psi	15 to 2,000 psi	Vacuum, compound 15 to 100,000 psi	Vacuum, compound, 15 to 20,000 psi
	Units	psi, bar, kg/cm², kPa	psi, bar, kg/cm², kPa	psi, bar, mPa, kg/cm², kPa	psi, bar, mPa, kg/cm², kPa
Weather Protection	Dry Case	Case is not sealed, recommended for weather protected environment only	Case is not sealed, recommended for weather protected environment only	Case is not sealed, recommended for weather protected environment only	IP65
	Liquid Filled	IP65	NA	NA	IP65
	Hermetically Sealed	IP65	NA	IP65	IP65
Approvals		CRN		CRN	

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		T5500	T6500	T5500E
Specifications	Dial Sizes	100mm, 160mm	100mm, 160mm	100mm
	Accuracy	±1% of span (EN 837-1)	±1% of span (EN 837-1)	±0.50% of span (EN 837-1)
		0.5% of span (OPT.)	0.5% of span (OPT.)	NA
	Dampening	Glycerin, Silicone, Halocarbon [®] , PLUS! [™] Performance	Glycerin, Silicone, Halocarbon [®] , PLUS! [™] Performance	PLUS! [™] Performance
	Process Connection	¼ NPT, ½ NPT Male G ¼ B, G ½ B Male	¼ NPT, ½ NPT Male G ¼ B, G ½ B Male	¼ NPT, ½ NPT Male G ¼ B, G ½ B Male
	Process Connection Location	Lower, back	Lower	Lower
Mounting Options	Stem, surface, flush	Stem, surface	Front flange (available only with M1 connection)	
Wetted Components	Bourdon Tube	316L SS, Monel [®]	316L SS, Monel [®]	316L SS Tube 17-4 PH Sensor
	Process Connection	316 SS, Monel [®]	316 SS, Monel [®]	316 SS
Non-Wetted Components	Case	304 SS, 316 SS	304 SS, 316 SS	304 SS
	Window Material	Glass, safety glass, acrylic	Safety glass, acrylic	Safety glass, acrylic
	Ring	304 SS	304 SS	304 SS
	Pressure Relief Back	NA	SS	NA
Process Temperature Limits	Dry	-40°F to 392°F (-40°C to 200°C)	-40°F to 392°F (-40°C to 200°C)	-13°F to 185°F (-25°C to 85°C)
	PLUS! [™]	-40°F to 392°F (-40°C to 200°C)	-40°F to 392°F (-40°C to 200°C)	-13°F to 185°F (-25°C to 85°C)
	Glycerin Fill	19°F to 200°F (-7°C to 93°C)	19°F to 200°F (-7°C to 93°C)	NA
	Silicone Fill	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C) XQC option: -94°F to 174°F (-70°C to 70°C)	NA
	Halocarbon [®] Fill	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)	NA
	ATEX	-13°F to 140°F (-25°C to 60°C)	-13°F to 140°F (-25°C to 60°C)	NA
Ranges	Pressure	Vacuum, compound to 15,000 psi	Vacuum, compound to 15,000 psi	Vacuum, compound to 15,000 psi
	Units	psi, bar, kg/cm ² , kPa	psi, bar, kg/cm ² , kPa	psi, bar, kg/cm ² , kPa
Weather Protection	Dry Case	IP66 NEMA 4X, Weatherproof	IP66 NEMA 4X, Weatherproof	IP65
Approvals		CRN, ATEX (OPT.)	CRN, ATEX (OPT.)	

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		1187	1188	1189
Specifications	Dial Sizes	4½"	4½"	4½", 6½"
	Accuracy	±2-1-2% of span (ASME B40.100 Grade A)	±2-1-2% of span (ASME B40.100 Grade A)	±2-1-2% of span (ASME B40.100 Grade A)
	Dampening	Throttle screw, dampeners, capillary, diaphragm seals and snubbers	Throttle screw, dampeners, capillary, diaphragm seals and snubbers	Throttle screw, dampeners, capillary, diaphragm seals and snubbers
	Process Connection	¼ NPT, ½ NPT Male	¼ NPT, ½ NPT Male	¼ NPT, ½ NPT Male
	Process Connection Location	Back	Lower, back	Lower
	Mounting Options	Flush	Stem, surface, flush	Stem, surface
Wetted Components	Bellows	Brass, 316 SS, Monel®	Brass, 316 SS, Monel®	Brass, 316 SS, Monel®
	Process Connection	Brass, 316 SS, Monel®	Brass, 316 SS, Monel®	Brass, 316 SS, Monel®
Non-Wetted Components	Case	Aluminum, black epoxy coated	Phenolic	Aluminum, black epoxy coated
	Window Material	Glass, safety glass, acrylic	Glass, safety glass, acrylic	Glass, safety glass, acrylic
	Ring	Steel, black epoxy coated	Polycarbonate	Polypropylene
	Back Cover	Polypropylene	Polypropylene	Polypropylene
Process Temperature Limits	Dry	-20°F to 150°F (-29°C to 66°C)	-20°F to 150°F (-29°C to 66°C)	-20°F to 150°F (-29°C to 66°C)
Ranges	Pressure	0/10 IWC to 10 psi	0/10 IWC to 10 psi	0/10 IWC to 10 psi
	Units	IWC, psi	IWC, psi	IWC, psi
Weather Protection	Dry Case	Case is not sealed, recommended for weather protected environment only	Case is not sealed, recommended for weather protected environment only	Case is not sealed, recommended for weather protected environment only

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		1008	1008 - Center Back	1008
Specifications	Dial Sizes	63mm, 100mm	63mm, 100mm	40mm, 50mm
	Accuracy	Dry: ±1.6% of span Liquid filled: ±2% of span	±3-2-3% of span (ASME B40.100 Grade B)	±3-2-3% of span (ASME B40.100 Grade B)
	Dampening	Liquid Filled and PLUS! [™] Performance, (see data sheet for more options)	Liquid Filled and PLUS! [™] Performance, (see data sheet for more options)	Liquid Filled and PLUS! [™] Performance, (see data sheet for more options)
	Process Connection	1/8 NPT, 1/4 NPT, 1/2 NPT Male (see data sheet for more options)	1/8 NPT, 1/4 NPT Male (see data sheet for more options)	1/8 NPT, 1/4 NPT Male (see data sheet for more options)
	Process Connection Location	Lower, lower back (see data sheet for more options)	Center back (see data sheet for more options)	Lower, center back (see data sheet for more options)
	Mounting Options	Stem, surface, flush	Stem, flush	Stem, flush
Wetted Components	Bourdon Tube	316L SS	316 SS	316L SS
	Process Connection	316 SS	316 SS	316 SS
Non-Wetted Components	Case	304 SS or 316L SS	304 SS with Buna-N O-Ring Seal	304 SS or 316L SS
	Window Material	Polycarbonate	Polycarbonate	Polycarbonate
	Ring	304 SS, Crimped or 316L SS	304 SS, Crimped	316 SS, Crimped
Process Temperature Limits	Dry	-40°F to 250°F (-40°C to 121°C)	-40°F to 250°F (-40°C to 121°C)	-40°F to 250°F (-40°C to 121°C)
	PLUS! [™]	-40°F to 200°F (-40°C to 93°C)	NA	NA
	FlutterGuard [™]	NA	-40°F to 250°F (-40°C to 121°C)	-40°F to 250°F (-40°C to 121°C)
	Glycerin Fill	20°F to 200°F (-7°C to 93°C)	20°F to 200°F (-7°C to 93°C)	20°F to 200°F (-7°C to 93°C)
	Silicone Fill	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)
	Halocarbon [®] Fill	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)
Ranges	Pressure	Vacuum, compound, 15 to 15,000 psi	Vacuum, compound, 15 to 20,000 psi	40mm: Vacuum, compound, 15 to 15,000 psi 50mm: Vacuum, compound, 15 to 20,000 psi
	Units	psi, bar, kg/cm ² , kPa	psi, bar, kg/cm ² , kPa	psi, bar, kg/cm ² , kPa
Weather Protection		Plug closed: IP65/NEMA 4 Plug vented: IP54	Plug closed: IP65/NEMA 4 Plug vented: IP54/NEMA 3	IP66/NEMA 4
Approvals		CRN, RoHS, PED	CRN, RoHS, PED	CRN, RoHS, PED

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		1009 Duralife®	1009	2008
Specifications	Dial Sizes	2½", 3½"	4½", 6"	63mm
	Accuracy	Dry: ±1% of span (ASME B40.100 Grade 1A) Liquid filled: ±1.5% of span	±1% of span (ASME B40.100 Grade 1A)	Dry: ±1.6% of span Liquid filled: ±2% of span
	Dampening	Liquid Filled and PLUS! ™ Performance, (see data sheet for more options)	Liquid Filled and PLUS! ™ Performance, (see data sheet for more options)	Liquid Filled and PLUS! ™ Performance, (see data sheet for more options)
	Process Connection	⅛ NPT, ¼ NPT, ½ NPT Male (see data sheet for more options)	¼ NPT, ½ NPT Male (see data sheet for more options)	⅛ NPT, ¼ NPT, Male (see data sheet for more options)
	Process Connection Location	Lower, lower back (see data sheet for more options)	Lower, lower back (see data sheet for more options)	Lower back (see data sheet for more options)
	Mounting Options	Stem, surface, flush	Stem, surface, flush	Panel
Wetted Components	Bourdon Tube	316L SS	Bronze, 316L SS, Monel®	316L SS
	Process Connection	Aluminum Bronze, 316L SS	Brass, 316L SS, Monel®	316L SS
Non-Wetted Components	Case	304 SS or 316L SS	304 SS	304 SS or 316L SS
	Window	Polycarbonate, safety glass, polysulfone	Glass, polycarbonate, safety glass	Polycarbonate
	Ring	304 SS or 316L SS	304 SS, Bayonet	304 SS or 316L SS
Process Temperature Limits	Dry	-40°F to 250°F (-40°C to 121°C)	-40°F to 250°F (-40°C to 121°C)	-40°F to 250°F (-40°C to 121°C)
	PLUS! ™	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)
	Glycerin Fill	20°F to 200°F (-7°C to 93°C)	20°F to 150°F (-7°C to 66°C)	20°F to 200°F (-7°C to 93°C)
	Silicone Fill	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)
	Halocarbon® Fill	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)
Ranges	Pressure	Vacuum, compound, 15 to 15,000 psi	Vacuum, compound, 15 to 30,000 psi	Vacuum, compound, 15 to 15,000 psi
	Units	psi, bar, kg/cm², kPa	psi, bar, kg/cm², kPa	psi, bar, kg/cm², kPa
Weather Protection		Plug closed: IP65/NEMA 4 Plug vented: IP54	Liquid filled: IP65/NEMA 4 Dry case: IP54	Plug closed: IP65/NEMA 4 Plug vented: IP54
Approvals		CRN, RoHS, PED	CRN, PED	RoHS

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		1017	1220	1010
Specifications	Dial Sizes	4½", 6"	4½", 6", 8½"	4½", 6", 8½", 12"
	Accuracy	±1% of span (ASME B40.100 Grade 1A)	±1% of span (ASME B40.100 Grade 1A)	±1% of span (ASME B40.100 Grade 1A)
	Dampening Options	PLUSI™ Performance (see data sheet for more options)	PLUSI™ Performance (see data sheet for more options)	PLUSI™ Performance (see data sheet for more options)
	Process Connection	¼ NPT, ½ NPT (see data sheet for more options)	¼ NPT, ½ NPT (see data sheet for more options)	¼ NPT, ½ NPT (see data sheet for more options)
	Process Connection Location	Back (see data sheet for more options)	Lower, lower back (see data sheet for more options)	Lower, lower back (see data sheet for more options)
	Mounting Options	Stem, flush	Stem, surface, flush	Stem, surface, flush
Wetted Components	Bourdon Tube	Bronze, 316L SS, Monel®	Bronze, 316L SS, Monel®	Bronze, 316L SS, Monel®
	Process Connection	Bronze, 316L SS, Monel®	Bronze, 316L SS, Monel®	Bronze, 316L SS, Monel®
Non-Wetted Components	Case Material	Black epoxy coated aluminum, solid front	4½": Black phenolic, solid front 6": Black polypropylene, solid front 8½": Black aluminum, solid front	Black epoxy coated aluminum, solid front
	Window Material	Glass, acrylic, safety glass	Glass, acrylic, safety glass	Glass, acrylic, safety glass
	Ring	4½", 6": Aluminum - black textured enamel, hinged	4½": Threaded polycarbonate 6": Bayonet lock, polypropylene 8½": Hinged steel, black enamel	4½", 6": Reinforced polypropylene, threaded 8½": Black epoxy coated, hinged 12": Black epoxy coated steel, slip fit
Process Temperature Limits	Dry	-20°F to 250°F (-29°C to 121°C)	-20°F to 250°F (-29°C to 121°C)	-20°F to 250°F (-29°C to 121°C)
	PLUSI™	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)
Ranges	Pressure	Vacuum, compound 15 to 20,000 psi	Vacuum, compound 15 to 30,000 psi	Vacuum, compound 15 to 30,000 psi
	Units	psi, bar, kg/cm², kPa	psi, bar, kg/cm², kPa	psi, bar, kg/cm², kPa
Weather Protection		Case not sealed, recommended for weather protected environment only	Case not sealed, recommended for weather protected environment o	Case not sealed, recommended for weather protected environment o
Approvals		CRN	CRN	CRN

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		1038 Duplex	1339A	1490	1495
Specifications	Dial Sizes	4½"	4½"	2½", 3½"	2½", 3½"
	Accuracy	±2-1-2% of span (ASME B40.100 Grade A)	±2-1-2% of span (ASME B40.100 Grade A)	±2-1-2% of span (ASME B40.100 Grade A)	±2-1-2% of span (ASME B40.100 Grade A)
	Dampening Options	NA	NA	FlutterGuard™	FlutterGuard™
	Process Connection	¼ NPT Male	¼ NPT Male	½ NPT, ¼ NPT Male See data sheet for more options	½ NPT, ¼ NPT Male
	Process Connection Location	Lower, lower back	Back only	Lower, center back, top, right, left	Lower, center back, top, right, left
	Mounting Options	Stem, surface	Stem, flush	Stem, flush, U-Clamp	Stem, flush, U-Clamp
Wetted Components	Bourdon Tube	Grade A phosphor bronze	Grade A phosphor bronze	Beryllium copper diaphragm, brass, polysulfone, RTV Silicone	Beryllium copper diaphragm, brass, polysulfone, RTV Silicone
	Process Connection	Brass	Brass	Brass	Brass
Non-Wetted Components	Case Material	Black epoxy coated aluminum	Black epoxy coated aluminum	Black, glass filled polysulfone	Black, glass filled polysulfone
	Window Material	Glass	Glass	Polycarbonate - threaded ¼ turn	Polycarbonate - threaded ¼ turn
	Ring	Black epoxy coated aluminum	Black epoxy coated aluminum	NA	NA
Process Temperature Limits	Dry	-20°F to 250°F (-29°C to 121°C)	-20°F to 250°F (-29°C to 121°C)	-20°F to 200°F (-29°C to 93°C)	-20°F to 200°F (-29°C to 93°C)
Ranges	Pressure	Lowest range 30 psi, compound to 1,000 psi	Lowest range 30 psi, compound to 1,000 psi	Vacuum, compound, 0/10 IWC to 15 psi	0/100% percent, 0/10 square root, 0/100 linear, 3-15# input
	Units	psi, bar, kg/cm², kPa	psi, bar, kg/cm², kPa	psi, IWC, cmWC, ozWC, kPa	psi
Approvals		CRN	CRN		

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		8008A	1008A/AL	1005/1005P/1005S	1005P-XUL
Specifications	Case Size	63mm 100mm	63mm 100mm	1½", 2" (1005S) 1½", 2", 2½", 3½" (1005) 1½", 2", 2½", 3½" (1005P)	3½"
	Accuracy	63mm: ±1.6% of span per (EN837-1) ±1% of span per (EN837-1) ±2-1-2% of span (ASME B40.100 Grade A) 100mm: ±1% of span per (EN837-1)	±3-2-3% of span (ASME B40.100 Grade B)	±3-2-3% of span (ASME B40.100 Grade B)	±3-2-3% of span (ASME B 40.100 Grade B)
	Dampening Options	Liquid filled, FlutterGuard™, restrictors	FlutterGuard™, restrictors	FlutterGuard™, restrictors	
	Process Connection	63mm: ⅛ NPT, ¼ NPT Male, G ¼ B Male, ¼ BSPT, SAE-4 ⅞-20, M14 x 1.5 100mm: ¼ NPT, ½ NPT Male, G ¼ B, G ½ B Male, ¼ BSPT, M20 x 1.5	¼ NPT Male, JIS, DIN, others on application	⅛ NPT, ¼ NPT Male	¼ NPT Male
	Process Connection Location	63mm: Lower, center back 100mm: Lower, lower back	Lower, center back	Lower, center back, left (9 o'clock), right (3 o'clock), top	Lower
Wetted Components	Bourdon Tube	Bronze, 316 SS	Bronze, 316 SS	Bronze	Bronze
	Process Connection	Brass	Brass, with O-Ring case seal	Brass	Brass
	Restrictor	Brass, orifice size from 0.007" to 0.063"	Brass, 0.013" orifice (except for vacuum to 15 psi ranges) Optional: 0.007" to 0.063"	Brass, 013" orifice on ranges >1,000 psi (only 1005/1005P) Optional: 0.007" to 0.063"	
Non-Wetted Components	Case Material	304 SS	304 SS	1005: Black painted steel 1005P: Black ABS 1005S: SS	ABS (Polycarbonate blend)
	Window	Polycarbonate, glass, safety glass	Polycarbonate	Polycarbonate	Polycarbonate
	Ring	304 SS, crimped	304 SS, crimped		
Process Temperature Limits	Dry	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 150°F (-40°C to 66°C)	-40°F to 150°F (-40°C to 66°C)
	Glycerin Fill	-4°F to 158°F (-20°C to 70°C)	-4°F to 158°F (-20°C to 70°C)		
	Silicone Fill	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)		
Ranges	Pressure	Bronze: Vacuum, compound to 8,700 psi 316 SS: 10,000 to 15,000 psi	Bronze: Vacuum, compound to 6,000 psi 316L SS: 10,000 to 15,000 psi	1½": Vacuum to 1,000 psi 2" to 3½": Vacuum, compound to 6,000 psi	0 to 300 psi (water) 0-80 retard to 250 psi (air) 0 to 600 psi
	Units	psi, bar, kPa, MPa, kg/cm² (available in single or dual scale)	psi, Options: bar, kPa, kg/cm² (metric ranges)	psi, Options: bar, kPa, kg/cm²	psi, bar, kPa, (single, dual or triple scale)
	Weather Protection	IP66; NEMA 4 for water and dust ingress	Weather resistant	Weather resistant	Weather resistant
Approvals	RoHS, PED, REACH, CRN	CRN	CRN, Options: 1005/1005P (2): UL404 High pressure gas, 1,000-4,000 psi UL252 Compressed gas regulator accessories, 30-300 psi	UL 393 listed, UL Canada listed, FM approved	

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		1000/2071A	12DDG/15DDG	23DDG
Specifications	Case Size	4½"	12DDG: 1¼" 15DDG: 1½"	23mm
	Accuracy	1000: ±3-2-3% of span (ASME B 40.100 Grade B) 2071A: ±2-1-2% (ASME B40.100 Grade A)	±2% at setpoint (setpoint is normally 50% of span) UL Listed – 3.5% of span in middle three fifths of scale	±5% of span
	Dampening Options	FlutterGuard™, restrictors	Silicone dampened tube, restrictors	Silicone dampened tube, restrictors
	Process Connection	¼ NPT Male	⅜ NPT, ¼ NPT Male	⅜ NPT Male
	Process Connection Location	Lower	Center back	Center back
Wetted Components	Bourdon Tube	Bronze	Beryllium copper coil	Beryllium copper coil
	Process Connection	Brass	Brass	Brass
	Restrictors	Options: Brass, 0.007" to 0.063"	Safety plug on UL gauges 1,500 to 4,000 psi Options: Brass, 0.007" to 0.063"	Options: Brass, 0.007" to 0.063"
Non-Wetted Components	Case Material	1000: Black painted steel 2071A: Black painted aluminum with back flange	SS	ABS blend
	Window Material	1000: Polycarbonate 2071A: Glass	Polycarbonate	Polycarbonate
	Ring	1000: Black painted steel 2071A: Chrome plated steel		
Process Temperature Limits	Dry	-40°F to 150°F (-40°C to 65°C)	-40°F to 150°F (-40°C to 65°C)	-40°F to 150°F (-40°C to 65°C)
Ranges	Pressure	1000: Vacuum, compound to 6,000 psi 2071: Vacuum, compound to 600 psi	*0/60, 0/100, 0/160, 0/200, 0/300, 0/700, 0/1200, 0/1500, 0/2000, 0/3000, 0/4000 psi *Reference individual data sheet for pressure range dial arc	*0/60, 0/100, 0/160, 0/200, 0/300 psi *Reference individual data sheet for pressure range dial arc
	Units	psi, Options: bar, kPa, kg/cm²	psi, Options: bar, kPa, kg/cm²	psi, Options: bar, kPa, kg/cm²
	Weather Protection	Weather resistant	Weather resistant	Weather resistant
Approvals		CRN Options: UL 404, High pressure gas (1,500 to 4,000 psi)	CRN	CRN

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		1001T	1001T-Refrigerant Gauge	1007P-Refrigerant Gauge
Specifications	Case Size	U-Clamp mount: 1½", 2", 2½", 3 1½" Front flange mount: 2", 2½"	2½", 3½"	2½"
	Accuracy	±3-2-3% of span (ASME B 40.100 Grade B)	±1% at zero, ±2% three fourths of scale, ±5% last fourth of scale	±1% at zero, ±2% three fourths of scale, ±5% last fourth of scale
	Dampening Options	FlutterGuard™, restrictors	FlutterGuard™, restrictors	FlutterGuard™, restrictors
	Process Connection	½ NPT, ¼ NPT Male	½ NPT, ¼ NPT Male	½ NPT Male
	Process Connection Location	Center back	Center back	Lower
Wetted Components	Bourdon Tube	Bronze	Bronze	Bronze
	Process Connection	Brass	Brass	Brass
	Restrictors	Brass, 0.013" orifice in gauges 1,000 psi and above, Options: 0.007" to 0.063"	Brass, 0.013", Options: 0.007" to 0.063"	Brass, 0.020", Options: 0.007" to 0.063"
Non-Wetted Components	Case Material	Steel	Black painted steel	Blue ABS (low pressure) Red ABS (high pressure)
	Window Material	Polycarbonate	¼ turn thread, polycarbonate	Threaded polycarbonate
Process Temperature Limits	Dry	-40°F to 150°F (-40°C to 65°C)	-40°F to 150°F (-40°C to 65°C)	-40°F to 150°F (-40°C to 65°C)
Ranges	Pressure	1½": Vacuum to 1,000 psi 2" to 3½": Vacuum, compound to 6,000 psi	Refrigerants R502/R22/R12/R134A: 30 inHg vac./0/120 psi retard to 250 psi; 0 to 500 psi; Refrigerant 410A: 30 inHg vac./0/350 psi retard to 500 psi; 0 to 800 psi	Refrigerants R502/R22/R12/R134A: 30 inHg vac./0/120 psi retard to 250 psi; 0 to 500 psi; Refrigerant 410A: 30 inHg vac./0/350 psi retard to 500 psi; 0 to 800 psi
	Units	psi, Options: bar, kPa, kg/cm²	psi	psi
	Weather Protection	Weather resistant	Weather resistant	Weather resistant
Approvals		CRN	CRN	CRN

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		DG25	2084, 2086, 2089
Specifications	Dial Sizes	2½"	3"
	Accuracy	±0.5% of span (ASME B40.7 Grade 2A) ±0.25% of span (ASME B40.7 Grade 3A) (OPT.)	2089: ±0.05% of span 2086: ±0.10% of span 2084: ±0.25% of span
	Display	5 digit LCD	5 digit LCD
	Process Connection	½ NPT, ¼ NPT (see data sheet for more options)	¼ NPT
	Process Connection Location	Lower	Lower, left, right, top
	Mounting	Stem	Stem, panel (OPT.)
	Battery Life	2,000+ hours	1,000 hours
	Shock	MIL-STD-202G, Method 201A	NA
	Vibration	MIL-STD-202G, Method 213B, Test Condition K	NA
Wetted Components	Diaphragm	17-4PH	316 SS
	Process Connection	316L SS	316 SS
	Joints	Laser welded	
Non-Wetted Components	Case/Back Cover	Polycarbonate/ABS	304 SS
	Window	Polycarbonate	
Process Temperature Limits	Battery Installed	-4°F to 140°F (-20°C to 60°C)	0°F to 150°F (-18°C to 65°C) Fully temperature compensated
Ranges	Pressure	Vacuum, compound, gauge to 25,000 psi	Vacuum, compound, gauge, absolute to 7,000 psi
	Units	psi, bar, inHg, cmHg, mmHg, kPa, MPa, kg/cm ² , custom	psi, bar, inHg, inH ₂ O, cmH ₂ O, mmH ₂ O, mmHg, kPa, MPa, mbar, ftSW, kg/cm ²
Overpressure Rating (F.S.)	Proof	15 to ≤2,000 psi: 2X ≥3,000 to ≤5,000 psi: 1.5X ≥7,500 to ≤20,000 psi: 1.2X	Vac to ≤300 psi: 2X Range ≥300 to ≤3,000 psi: 2X Range ≥5,000 to ≤7,000 psi: 2X Range
	Burst	15 to ≤2,000 psi: 8X ≥3,000 to ≤5,000 psi: 3X ≥7,500 to ≤20,000 psi: 1.5X	Vac to ≤300 psi: 3X Range ≥300 to ≤3,000 psi: 5X Range ≥5,000 to ≤7,000 psi: 2X Range
Weather Protection	Enclosure Rating	IP67	IP65
Approvals		CRN, CE, UL 61010, cUL	CRN, FM/CSA Intrinsically Safe

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		2074, 2174, 2274
Specifications	Dial Sizes	3", 4½"
	Accuracy	±0.25% of span, terminal point
	Display	5 digit LCD
	Process Connection	¼ NPT (see data sheet for more options)
	Process Connection Location	Lower, left, right, top
	Battery Life	3": >450 hours 4½": >2,500 hours
	Power Requirements	2074: Battery powered 2174: Loop Powered 4-20 mA (12-36 Vdc) 2274: DC line powered (12-36 Vdc)
Wetted Components	Diaphragm	17-4PH
	Process Connection	316 SS
	Joints	Laser welded
Non-Wetted Components	Case	3": 304 SS 4½": Fiberglass reinforced thermoplastic or black epoxy coated aluminum
Process Temperature Limits	Dry	14°F to 140°F (-10°C to 60°C)
Ranges	Pressure	Vacuum to 20,000 psi
	Units	psi, inH ₂ O (with three temp. OPT.: 20°C, 60°F, 4°C), ftH ₂ O, mPa, mbar, kPa, kg/cm ² , bar, inHg and mmHg (Units available are based on F.S. range of gauge)
Overpressure Rating (F.S.)	Proof	15 to ≤2,000 psi: 2X ≥3,000 to ≤5,000 psi: 1.5X ≥7,500 to ≤20,000 psi: 1.2X
	Burst	15 to ≤2,000 psi: 8X ≥3,000 to ≤5,000 psi: 3X ≥7,500 to ≤20,000 psi: 1.5X
Weather Protection	Enclosure Rating	IP65, Weatherproof
Approvals		CRN, FM/CSA Intrinsically Safe

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		1130	1131	1132	1133	1134
Specifications	Dial Size	2", 2½", 3½", 4", 4½", 6"	2½", 3½", 4", 4½", 6"	2½", 3½", 4", 4½", 6"	3½", 4", 4½", 6"	4½"
	Accuracy	±2% ascending (FSD)	±2% ascending (FSD)	±2% ascending (FSD)	±2% ascending (FSD)	±3% ascending (FSD)
	Process Connection	¼ NPT Female	¼ NPT Female	¼ NPT Female	¼ NPT Female	¼ NPT Female
	Process Connection Location	In-Line, lower, back	In-Line, lower, back	In-Line, lower, back	In-Line, lower, back	Dual In-Line, back
	Mounting Options	Inline, panel, surface, pipe	Inline, panel, surface, pipe	Inline, panel, surface, pipe	Inline, panel, surface, pipe	Inline, panel, surface, pipe
	Migration	Minor	Zero	Zero	Zero	Zero
Wetted Material	Actuator	Teflon piston, ceramic magnet, SS spring	Rolling diaphragm, ceramic magnet, SS spring	Convolute diphragm, ceramic magnet, SS spring	Convolute diphragm, ceramic magnet, SS spring	Convolute diphragm, ceramic magnet, SS spring
	O-Ring/Diaphragm	Buna-N (optional material available)	Buna-N (optional material available)	Buna-N (optional material available)	Buna-N (optional material available)	Buna-N (optional material available)
	Body Material	Aluminum, brass, SS	Aluminum, brass, SS	Aluminum, brass, SS	Aluminum, SS	Glass filled nylon
Non-Wetted Material	Case Material	SS	SS	SS	SS	SS
	Window	Glass	Glass	Glass	Glass	Glass
Process Temperature	Dry	175°F (80°C)	175°F (80°C)	175°F (80°C)	175°F (80°C)	140°F (60°C)
	Glycerine	150°F (66°C)	150°F (66°C)	150°F (66°C)	150°F (66°C)	140°F (60°C)
	Silicone	175°F (80°C)	175°F (80°C)	175°F (80°C)	175°F (80°C)	140°F (60°C)
Ranges	Differential Pressure Ranges	0-5 psid to 150 psid	0-5 psid to 100 psid	0-1 psid to 60 psid	0-1 IWD to 25 IWD	0.6-1 IWD to 60 IWD
	Static Pressure	up to 6,000 psi	3,000 psi	1,500 psi	500 psi	35 psi

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		1125 & 1125A	1127 & 1128	5503	F5509 & F6509
Specifications	Dial Sizes	4½", 6"	4½", 6"	4" (100mm), 6" (160mm)	4" (100mm), 6" (160mm)
	Accuracy	±2-1-2% of span (ASME B40.100 Grade A)	±2-1-2% of span (ASME B40.100 Grade A)	±1.6% of span	±1.6% of span
	Process Connection	¼ NPT Male	¼ NPT Male	¼, ½ NPT Male or Female, G½B Male	¼, ½ NPT Male or Female, G½B Male
	Process Connection Location	Lower, back	Lower, back	Lower	Lower
	Mounting Options	Stem, surface	Stem, surface	Stem, wall, pipe	Stem, wall, pipe
Wetted Material	Bourdon Tube	Grade A Phospor bronze	316 SS	NA	NA
	Process Connection	Bronze	316 SS	316 SS	316 SS
	Diaphragm	NA	NA	316 SS, Duratherm 600 [®] , Inconel [®] , Hastelloy [®] , Monel [®]	316 SS, Duratherm 600 [®]
	Housing	NA	NA	316 SSL, Hastelloy [®] C276	316 SSL
Non-Wetted Materials	Case Material	Cast aluminum, black epoxy coated	Cast aluminum, black epoxy coated	304 SS, 316 SS (OPT.)	316 SS
	Window	Glass	Glass	Shatterproof glass	Shatterproof glass
	Ring	Aluminum	Aluminum	Bayonet	Bayonet
Process Temperature Limits	Dry	-20°F to 250°F (-29°C to 121°C)	-20°F to 250°F (-29°C to 121°C)	-4°F to 185°F (-20°C to 85°C)	-4°F to 185°F (-40°C to 100°C)
	Glycerine Fill	NA	NA	-20°F to 150°F (-7°C to 66°C)	-20°F to 150°F (-7°C to 100°C)
	Silicone Fill	NA	NA	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 100°C)
Ranges	Differential Pressure	1125: 10 to 1,000 psid 1125A: 5 to 500 psid	1127: 10 to 1,000 psid 1128: 5 to 500 psid	1 to 600 psid	1 to 400 psid
	Static Pressure	Range dependent See details on product page or data sheet	Range dependent See details on product page or data sheet	1,450 psi 3,625 psi for ranges <10 psi (OPT.) 5,801 psi for ranges >10 psi (OPT.)	232 psi for ranges from 1 to 4 psi 580 psi for range of 6 psi to 400 psi
	Units	psid, kg/cm², bar, kPa	psid, kg/cm², bar, kPa	psid, mbar, bar, IW	psid, mbar, bar, IW
Weather Protection		Case not sealed, recommended for weather protected environment only	Case not sealed, recommended for weather protected environment only	Dry: IP65 Hermetically sealed/Liquid: IP66	IP66
Approvals				CRN, CE, ATEX (OPT.)	

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		1032 Sanitary	1032 Fractional	1036 Gauge/1037 Fitting	2030 Series
Specifications	Dial Size	2½", 3½", 4½"	2"	3½"	3"
	Display Type	Analog	Analog	Analog	Digital - Full 5 Digit LCD
	Accuracy	±1.5% of span (pressure ranges > 100 psi) ±2% of span (Vacuum, compound to 100 psi)	Upscale: ±3% of span Downscale: ±5% of span	±1.5% of span (pressure ranges > 100 psi) ±2% of span (Vacuum, compound to 100 psi)	±0.25% of span, terminal point
	Power Supply	NA	NA	NA	2032, 2036: Battery 2132, 2136: 4-20 mA Loop 2232, 2236: 12-36 Vdc
	Switches	NA	NA	NA	2232, 2236: 1 or 2 SPDT (OPT.)
	Dampening Options	PLUS! ™ Performance or liquid filled case.	FlutterGuard™	PLUS! ™ Performance or liquid filled case.	Settings per 100ms: None, average, 2, 4, 6, 8
	Process Connection	1½" Tri-Clamp® and 2" Tri-Clamp®	¾" Tri-Clamp®	1½" Tri-Clamp®	2032, 2132, 2232: Tri-Clamp® 2036, 2136, 2236: Inline
	Process Connection Location	Lower, lower back	Lower	Lower	Lower, top, right, left
	Mounting Options	Capillary with Tri-Clamp®	Capillary with Tri-Clamp®	1036: Tri-Clamp® mates with: 1037: ½" to 2" inline sanitary fitting	Tri-Clamp®
Wetted Components	Diaphragm	316L SS, Electropolished	316L SS, Electropolished	316L SS, Electropolished	316L SS, Electropolished
	Seal Housing	316L SS, Electropolished	316L SS, Electropolished	316L SS, Electropolished	316L SS, Electropolished
	Seal Surface Finish	12-20 RA	12-20 RA	12-20 RA	12-20 RA
Non-Wetted Components	Case	304 SS, Electropolished	304 SS, Electropolished	304 SS, Electropolished	304 SS, Tumbled
	Window	Polycarbonate, glass safety glass, polysulfone	Glass, safety glass, polycarbonate	Polycarbonate, polysulfone, safety glass	NA
	Ring	304 SS, Electropolished, bayonet, removeable	304 SS, Electropolished, friction fit	304 SS, Electropolished	NA
	Assembly Fill Fluid	Distilled water, USP food grade glycerin, food grade silicone, Neobee® M-20, mineral oil	USP food grade glycerin, Neobee® M-20, mineral oil	Distilled water, USP food grade glycerin, food grade silicone, Neobee® M-20, mineral oil	USP food grade glycerin, food grade silicone, mineral oil
Ranges	Pressure	Vacuum, compound, 15 to 1,000 psi	Compound, 30 to 600 psi	Vacuum, compound, 15 to 1,000 psi	Vacuum, compound, gauge to 7,000 psi
	Units	psi, bar, kg/cm², kPa	psi, bar, kg/cm², kPa	psi, bar, kg/cm², kPa	psi, bar, kg/cm², kPa
Weather Protection					IP65
Approvals		CRN, RoHS, 3A	CRN, RoHS	CRN, RoHS, 3A	CRN

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		A4A	1082	1084
Specifications	Dial Size	6", 8½", 12", 16"	4½", 6", 8½"	3"
	Accuracy	±0.1% of span (ASME B40.100 Grade 4A)	±0.25% of span (ASME B40.100 Grade 3A)	±0.5% of span (ASME B40.100 Grade 2A)
	Process Connection	¼ NPT, ½ NPT, others available see data sheet	¼ NPT, ½ NPT	¼ NPT
	Process Connection Location	Back, bottom	Lower, back	Lower
	Mounting Options	Stem	Stem, flush	Stem
	Pointer	Black painted aluminum pointer	Aluminum with red-painted, knife-edge tip	Aluminum with red-painted knife edge tip
	Pointer Travel	350°: up to 30,000 psi 300°: 40,000 to 50,000 psi 270°: 60,000 to 100,000 psi	270°	270°
	Movement	Hardened clock brass	400 Series SS	SS
	Window	6", 8½", 12": Plexiglass 16": Plate glass	Glass	Polycarbonate
Wetted Materials	Bourdon Tube	Beryllium copper, 403 SS	Bronze, Monel®	316 SS
	Process Connection Materials	303 SS	Brass, Monel®	316 SS
Non-Wetted Materials	Case Material	Aluminum	Aluminum	316 SS
	Enclosure Rating		Case is not sealed, recommended for weather protected environment only	Hinged steel, black wrinkle finish

See data sheets at www.ashcroft.com for complete product specifications.

PRESSURE SWITCHES

PRESSURE & DIFFERENTIAL PRESSURE SWITCHES

A-Series Watertight & Explosion Proof	22
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F Series	23
DDS Series	23
N Series	23

Products & Features



		A-Series Pressure	B-Series Pressure & Differential Pressure	L-Series / G-Series Pressure & Differential Pressure
Specifications	Accuracy	±2% of span	±1% of span	±1% of span
	Enclosure Rating	Watertight: IP67, NEMA 6 Explosion Proof: IP67, NEMA 4X, 7, 9	B4: Watertight: IP66, NEMA 3, 4, 4X, 13 B7: Explosion Proof: IP66, NEMA 7, 9	Watertight L-Series: IP66, NEMA 4, 4X G-Series: IP65, NEMA 4, 4X
	Switch Elements	SPDT, DPDT	SPDT, DPDT	SPDT, 2 SPDT, DPDT (OPT.)
	Setpoint	Single - Factory set, or field adjustable	Single - Factory set, or field adjustable	Single or dual (independently adjustable) field adjustable or factory set
	Deadband	Fixed	Fixed, variable	Adjustable (SPDT only) Fixed SPDT or 2 SPDT
	Process Connection Size	NPT Male or Female, SAE, G Style, VCR, VCO, Tri-Clamp®	NPT Male or Female, Tri-Clamp®	NPT Male or Female, Tri-Clamp®
	Mounting	Direct	Direct, surface, pipe	Direct, surface, pipe
Wetted Material	Process Connection	316 SS	Pressure: 316 SS, Monel® or epoxy coated carbon steel, Differential: nickel plated brass or 316 SS	Pressure: 316 SS, Monel® or epoxy coated carbon steel, Differential: nickel plated brass or 316 SS
	Actuator Seal	316 SS Welded Diaphragm 316 SS Piston & Buna-N O-Ring 316 SS Piston & Viton® O-Ring 316 SS Piston & HBNR O-Ring	316L SS, Monel®, Buna-N, Viton®, Teflon®	316L SS, Monel®, Buna-N, Viton®, Teflon®
Non-Wetted Materials	Case Material	316 SS	Epoxy coated aluminum 316 SS (OPT.)	L-Series: Epoxy coated aluminum G-Series: 316 SS
Ranges	Pressure	Vacuum, compound to 15,000 psi	Vacuum, compound to 3,000 psi	Vacuum, compound to 3,000 psi
	Differential Pressure	NA	10 IWC to 600 psi	30 IWC to 400 psi
	Units	psi, bar, kPa, kg/cm ²	IWC, psi, bar, kPa, kg/cm ²	IWC, psi, bar, kPa, kg/cm ²
Approvals	Watertight	UL, CSA, CE, CRN, SIL 3 capable, RoHS	UL, CSA, FM, CE, CRN, SIL 3 Capable, RoHS	UL, CSA, CE, RoHS, FM (L-Series only) CRN
	Explosion Proof	UL, CSA, CE, CRN, SIL 3 capable, RoHS, FM, ATEX, IECEx, Dual Seal	UL, ATEX, IECEx, CSA, CE, CRN, SIL 3 capable, RoHS	

See data sheets at www.ashcroft.com for complete product specifications.

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		P-Series Pressure & Differential Pressure	F-Series Pressure	N-Series Pressure	DDS Differential Pressure
Specifications	Accuracy	±1% of span	±1% of span	±0.50% of span	±1% of span
	Enclosure Ratings	Explosion Proof: IP66, NEMA 7, 9	Explosion Proof: IP66, NEMA 3, 4, 7, 9	Watertight: IP65, NEMA 3, 4, 4X, 13	Watertight NEMA 4X, 12 Explosion proof housing
	Switch Elements	SPDT, 2 SPDT with independent setpoints	SPDT, DPDT	SPDT	SPDT, DPDT
	Setpoint	Single or dual (independently adjustable) field adjustable or factory set	Single - Factory set or field adjustable	Single - Factory set or field adjustable	Single - Factory set or field adjustable
	Deadband	Adjustable (SPDT only) Fixed SPDT, 2 SPDT	Fixed	Adjustable	Fixed
	Process Connection	NPT Male or Female, Tri-Clamp [®]	¼ NPT, ½ NPT	NPT Male or Female, Tri-Clamp [®] ¼-18 UNF, 2B Female high pressure	¼ NPT
	Mounting	Direct, surface or pipe	Direct	Direct, surface	Direct
	Indicating Display	NA	NA	Yes	NA
Wetted Material	Process Connection	Pressure: 316 SS, Monel [®] or epoxy coated carbon steel Differential: nickel plated plated brass, 316 SS	316 SS	316 SS	Aluminum, 316 SS
	Actuator Seal	316L SS, Monel [®] , Buna-N, Viton [®] , Teflon [®]	316L SS, Buna-N, Viton [®] Teflon [®] , SS with Viton [®] O-Ring	17-4PH SS	Buna-N, Viton [®] , Teflon [®]
Non-Wetted Materials	Case Material	Epoxy coated aluminum	Anodized aluminum	Epoxy coated aluminum	Cast aluminum
Ranges	Pressure	Vacuum, compound to 3,000 psi	Vacuum to 4,000 psi	60 to 20,000 psi	NA
	Differential Pressure	30 IWC to 400 psi	NA	NA	1.5 to 150 IWC (Static pressure capability from 50 to 1,500 psi)
	Units	IWC, psi, bar, kPa, kg/cm ²	psi, bar, kPa, kg/cm ²	psi, bar, kPa, kg/cm ²	IWC, mmH ₂ O, mBar, kPa
Approvals	Explosion Proof	UL, CSA, CRN	UL, CSA	CRN	UL

See data sheets at www.ashcroft.com for complete product specifications.

See data sheets at www.ashcroft.com for complete product specifications.



TRANSDUCERS/ TRANSMITTERS

PRESSURE TRANSDUCERS

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Products & Features



		G2 & T2	G3	KM41/KM45	KM15
Reference Temperature		72°F ±2°F (22°C±1°C)	72°F ±2°F (22°C±1°C)	72°F ±2°F (22°C±1°C)	73°F ±2°F (23°C±1°C)
Performance	Accuracy	±1% of span: -4°F to 185°F (-20°C to 85°C) ±1.5% of span: 185°F to 257°F (85°C to 125°C) -40°F to -4°F (-40°C to -20°C)	±1.5% of span: -4°F to 185°F (-20°C to 85°C) ±2.0% of span: 185°F to 257°F (85°C to 125°C) -40°F to -4°F (-40°C to -20°C)	±1.5% of span: -4°F to 185°F (-20°C to 85°C) ±2.0% of span: 185°F to 257°F (85°C to 125°C)	±3.0% of span: -22°F to 250°F (-30°C to 120°C)
	Accuracy Statement	Total Error Band Method Includes: combined effects of temperature, non-linearity, hysteresis, non-repeatability, zero offset & span setting errors	Total Error Band Method Includes: combined effects of temperature, non-linearity, hysteresis, non-repeatability, zero offset & span setting errors	Total Error Band Method Includes: combined effects of temperature, non-linearity, hysteresis, non-repeatability, zero offset & span setting errors	Terminal Point Method Includes: hysteresis, non-repeatability, zero offset and span setting errors
	BSFL	±0.25% of span	±0.50% of span	±0.50% of span	±0.50% of span ≤75 psi ±1.00% of span ≥100 psi
	Stability	≤±0.25% of span/year at reference conditions	≤±0.25% of span/year at reference conditions	≤±0.25% of span/year at reference conditions	≤±0.25% of span/year at reference conditions
Ranges	Compound	Vac to 300 psi	Vac to 300 psi	Vac to 300 psi	Vac to 300 psi
	Gauge	30 to 20,000 psi	5 to 300 psi	5 to 20,000 psi	15 to 10,000 psi
	Absolute	NA	15 to 300 psia	15 to 600 psia (KM45)	NA
Overpressure (F.S.)	Proof	Up to 2X depending on full scale pressure ranges	Up to 2X depending on full scale pressure ranges	Up to 2X depending on full scale pressure ranges	Up to 2X depending on full scale pressure ranges
	Burst	Up to 10X depending on full scale pressure ranges	Up to 5X depending on full scale pressure ranges	Up to 5X depending on full scale pressure ranges	Up to 10X depending on full scale pressure ranges
Output	Electrical	0-5 Vdc, 0-10 Vdc, 1-5 Vdc, 1-6 Vdc, 0.5-4.5 Vdc, 0.5-4.5 Vdc (Ratiometric), 4-20 mA	0-5 Vdc, 0-10 Vdc, 1-5 Vdc, 1-6 Vdc, 0.5-4.5 Vdc, 0.5-4.5 Vdc (Ratiometric), 4-20 mA	4-20 mA, 0-5 Vdc, 1-5 Vdc, 1-6 Vdc, 0-10 Vdc, 0.5-4.5 Vdc (Ratiometric), 4-20 mA	0-5 Vdc, 1-5 Vdc, 0.5-4.5 Vdc (Ratiometric)
Wetted Material	Diaphragm or Sensor	17-4PH SS	316L SS	KM41: 17-4PH SS KM45: 316L SS	17-4PH SS
	Connection	304L SS	316L SS	KM41: 304L SS KM45: 316L SS	304L SS
Enclosure Rating	Ingress Protection	IP65, IP67	IP65, IP67	IP65, IP67	IP67
Approvals		CE, UL, RoHS	CE, UL, RoHS	CE, RoHS	CE, RoHS
Hazardous Location Rating					

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		A2 & A4	A2X	SL17
Reference Temperature		70°F (21°C)	70°F (21°C)	70°F (21°C)
Performance	Accuracy	±0.25%, ±0.5%, ±1.00% of span	±0.25%, ±0.5%, ±1.00% of span	±0.25%, ±0.50% of span
	Accuracy Statement	Terminal Point Method Includes: hysteresis, non-repeatability, zero offset and span setting errors	Terminal Point Method Includes: hysteresis, non-repeatability, zero offset and span setting errors	Terminal Point Method Includes: hysteresis, non-repeatability, zero offset and span setting errors
	BSFL	±0.20%, ±0.40%, ±0.5% of span (add ±0.5% ranges > 5,000 psi)	±0.20%, ±0.40%, ±0.5% of span (add ±0.5% ranges > 5,000 psi)	NA
	Stability	≤±0.25% of span/year at reference conditions	≤±0.25% of span/year at reference conditions	≤±0.25% of span/year
Ranges	Compound	Vac to 60 psi	Vac to 60 psi	NA
	Gauge	1.5 to 10,000 psi	1.5 to 10,000 psi	1.5 to 300 psi
	Absolute	15 to 7,500 psia	15 to 7,500 psia	NA
Overpressure (F.S.)	Proof	Vac to 300 psi: 1.5X 500 to 10,000 psi: 1.2X	Vac to 300 psi: 1.5X 500 to 10,000 psi: 1.2X	<10 psi: 3X 15-30 psi: 2X 75 psi: 1.87X >150 psi: 2X
	Burst	Vac to 300 psi: 2X 500 to 10,000 psi: 1.5X	Vac to 300 psi: 2X 500 to 10,000 psi: 1.5X	<5 psi: 5X 10 psi: 7.5X 15-30 psi: 5X 75 psi: 4.7X 150 psi: 4X 300 psi: 3X
Output	Electrical	4-20 mA, 0-5 Vdc, 0-10 Vdc, 1-5 Vdc, 1-6 Vdc	4-20 mA, 0-5 Vdc, 0-10 Vdc, 1-5 Vdc, 1-6 Vdc	4-20 mA
Wetted Material	Diaphragm or Sensor	316L SS	316L SS	316L SS
	Connection	316L SS	316L SS	Housing 316L SS, cable polyurethane
Enclosure Rating	Ingress Protection	IP65, IP67 (selected electrical connections) NEMA 4X, 6	IP65, NEMA 7, 9	NEMA 6P, IP 68
Approvals		CE, CSA, FM, RoHS	CE, UL, ATEX, RoHS	CE, RoHS
Hazardous Location Rating		Intrinsically Safe - FM/CSA	Explosion Proof - UL & ATEX	

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		GC31	GC35	GC51
Reference Temperature		73°F (23°C)	73°F (23°C)	73°F (23°C)
Performance	Accuracy	±1.0% of span	±1.0% of span	±0.25% of span
	Accuracy Statement	Includes: hysteresis, linearity, non-repeatability, zero offset and span setting errors	Includes: hysteresis, linearity, non-repeatability, zero offset and span setting errors	Includes: hysteresis, linearity, non-repeatability, zero offset and span setting errors
	Stability		≤±0.25% of span/year	≤±0.25% of span/year
Ranges	Compound	Vac to 300 psi	Vac to 300 psi	Vac to 50 psi
	Gauge	0 to 1,500 psi	0 to 7,500 psi	50 to 7,500 psi
Overpressure	Proof	<500 psi: 2X >1,000 psi: 1.5X	<1,500 psi: 4X >3,000 psi: 2.5X	<1,500 psi: 2X 3,000 to 5,000 psi: 1.5X 7,500 psi: 1.2X
	Burst	8X	<1,500 psi: 10X 3,000 psi to 5,000 psi: 5X >5,000 psi: 3X	<1,500 psi: 5X 3,000 to 5,000 psi: 3X 7,500 psi: 1.5X
Output	Electrical	1-5 Vdc	4-20 mA	4-20 mA
	Switch Output	NPN: 30 Vdc/80 mA (Max.) PNP: 1 Vdc/80 mA (Max.)	NPN: 30 Vdc/80 mA (Max.) PNP: 1 Vdc/80 mA (Max.)	NA
Wetted Material	Media Compatibility	Fluids and gases compatible with 304 SS (sensor housing) and 17-4pH SS (sensor diaphragm) RTV	Fluids and gases compatible with 316 SS pressure connection and 17-4pH SS (sensor diaphragm)	Fluids and gases compatible with 316 SS and 17-4pH SS
Enclosure Rating	Ingress Protection	IP40	IP65: <150 psi IP67: >300 psi	IP65, NEMA 4
Approvals		CE, RoHS	CE, RoHS	CE, RoHS

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		GC55	GC30	GC52	GL42
Reference Temperature		73°F (23°C)	73°F (23°C)	73°F (23°C)	77°F (25°C)
Performance	Accuracy	±0.5% of span	±1.5% of span	±0.5% of span (URL)	±0.5%, ±1.0% of span
	Accuracy Statement	Includes: hysteresis, linearity, non-repeatability, zero offset and span setting errors	Includes: hysteresis, linearity, non-repeatability, zero offset and span setting errors	Includes: hysteresis, linearity, non-repeatability, zero offset and span setting errors	Terminal Point Method Includes: hysteresis, non-repeatability, zero offset and span setting errors
	Stability			≤±0.25% of span/year	≤±0.50% of span/year
Ranges	Unidirectional	75 to ≤300 psid	0.25 to 25 IWD	4 IWD to ≤ 400 IWD	0.10 to 25 IWD
	Bidirectional	NA	±25 IWD ±0.25 to ±25	±4 to ±200 IWD	±0.10 IWD to ±15 IWD
Overpressure	Proof (static)	75 to ≤300 psi: 2X	7.5 psi (50 kPa)	300 psi	NA
	Proof (differential)	75 to ≤300 psid: 2X	7.5 psid (50 kPa)	≤8 IWD, ±4 IWD: 30 psid ≥20 IWD, ±8 IWD: 100 psid"	15 psid
	Burst (differential)	75 to ≤300 psi: 10X	25 psig (170 kPa)	≤8 IWD, ±4 IWD: 130 psid ≥20 IWD, ±8 IWD: 130 psid"	25 psid
	Max Line Pressure	Range of unit	7.5 psi (50 kPa)	NA	25 psi
Output	Electrical	4-20 mA, 1-5 Vdc	1-5 Vdc	4-20 mA	4-20 mA
	Switch Output	TTL/CMOS up to 40 Vdc/200 mA	NPN: 30 Vdc/80 mA (Max.) PNP: 1 Vdc/80 mA (Max.)	NA	NA
Wetted Material	Media Compatibility	Fluids and gases compatible with 304 SS (sensor housing) and 17-4 pH SS (sensor diaphragm)	Clean, dry air/gases compatible with Aluminum, ABS, Ceramic, Silicon, and Silicone RTV	Fluids and gases compatible with 316L SS, Viton® and Alumina Ceramic	Clean, dry and noncorrosive gas NOT FOR USE ON LIQUIDS
Enclosure Rating	Ingress Protection	IP66	IP40	IP65, NEMA 4	IP65
Approvals			CE, RoHS	CE, RoHS	CE, RoHS

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		CXLdp	DXLdp	IXLdp	RXLdp	XLdp
Reference Temperature		70°F ± 2°F (21°C ± 1°C)	70°F ± 2°F (21°C ± 1°C)	70°F ± 2°F (21°C ± 1°C)	70°F ± 2°F (21°C ± 1°C)	70°F ± 2°F (21°C ± 1°C)
Performance	Accuracy	±0.25%, ±0.4%, ±0.8% of span	±0.25%, ±0.5%, ±1.0% of span	±0.25%, ±0.5% of span	±1.0% of span	±0.25%, ±0.5% of span
	Accuracy Statement	Terminal Point Method Includes: hysteresis, non-repeatability, zero offset and span setting errors	Terminal Point Method Includes: hysteresis, non-repeatability, zero offset and span setting errors	Terminal Point Method Includes: hysteresis, non-repeatability, zero offset and span setting errors	Terminal Point Method Includes: hysteresis, non-repeatability, zero offset and span setting errors	Terminal Point Method Includes: hysteresis, non-repeatability, zero offset and span setting errors
	Stability	≤±0.25% of span/year at reference conditions	≤±0.25% of span/year at reference conditions	≤±0.25% of span/year at reference conditions	≤±0.25% of span/year at reference conditions	≤±0.25% of span/year at reference conditions
Ranges	Unidirectional	0.10 to 25 IWD	0.10 to 50 IWD	0.10 to 200 IWD	0.10 to 50 IWD	0.10 to 50 IWD
	Bidirectional	±0.10 to ±15 IWD	±0.05 to ±25 IWD	±0.05 to ±100 IWD	±0.10 to ±50 IWD	±0.05 to ±50 IWD
Overpressure	Proof (differential)	15 psid	15 psid	20 psid	15 psid	15 psid
	Burst (differential)	25 psid	25 psid	50 psid	25 psid	25 psid
	Max Line Pressure	25 psi	25 psi	100 psi	25 psi	25 psi
Output	Electrical	0-10 Vdc (user select- able 0-5 Vdc), 4-20 mA	0-5 Vdc, 1-5 Vdc, 1-6 Vdc, 0-10 Vdc, 4-20 mA	0-5 Vdc, 1-5 Vdc, 1-6 Vdc, ± 2.5 Vdc, ±5.0 Vdc, 4-20 mA	0-5 Vdc, 1-5 Vdc, 1-6 Vdc, 0-10 Vdc, 4-20 mA	1-5 Vdc, 1-6 Vdc, 4-20 mA
Wetted Material	Media Compatibility	Clean, dry and noncorrosive gas NOT FOR USE ON LIQUIDS	Clean, dry and noncorrosive gas NOT FOR USE ON LIQUIDS	Clean, dry and noncorrosive gas NOT FOR USE ON LIQUIDS	Clean, dry and noncorrosive gas NOT FOR USE ON LIQUIDS	Clean, dry and noncorrosive gas NOT FOR USE ON LIQUIDS
Enclosure Rating	Ingress Protection	NEMA 1	NEMA 1	NEMA 4X	NEMA 1	NEMA 2
Approvals		CE, RoHS	CE, RoHS	FM	CE, RoHS	CE, RoHS

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		K1	K2	KX	KS	K8
Reference Temperature		68°F (20°C)	68°F (20°C)	68°F (20°C)	68°F (20°C)	68°F (20°C)
Performance	Accuracy	±0.5%, ±1.00% of span	±0.5%, ±1.00% of span	±1.00% of span	±1.00% of span	±0.5%, ±1.00% of span
	Accuracy Statement	Terminal Point Method Includes: hysteresis, non-repeatability, zero offset and span setting errors	Terminal Point Method Includes: hysteresis, non-repeatability, zero offset and span setting errors	Terminal Point Method Includes: hysteresis, non-repeatability, zero offset and span setting errors	Terminal Point Method Includes: hysteresis, non-repeatability, zero offset and span setting errors	Terminal Point Method Includes: hysteresis, non-repeatability, zero offset and span setting errors
	BSFL	±0.25%, ±0.40% of span	±0.25%, ±0.40% of span	±0.75% of span	±0.75% of span	±0.25%, ±0.40% of span
	Stability	≤±0.50% of span/year at reference conditions	≤±0.50% of span/year at reference conditions	≤±0.50% of span/year at reference conditions	≤±0.50% of span/year at reference conditions	≤±0.50% of span/year at reference conditions
Ranges	Compound	Vac to 100 psi	Vac to 100 psi	Vac to 100 psi	NA	Vac to 100 psi
	Gauge	15 to 20,000 psi	15 to 20,000 psi	15 to 5,000 psi	30 to 1,000 psi	45 to 20,000 psi
Overpressure (F.S.)	Proof	Vac to 2,000 psi: 2X 3,000 to 5,000 psi: 1.5X 7,500 to 20,000 psi: 1.2X	Vac to 2,000 psi: 2X 3,000 to 5,000 psi: 1.5X 7,500 to 20,000 psi: 1.2X	Vac to 2,000 psi: 2X 3,000 to 5,000 psi: 1.5X	30 to 1,000 psi: 2X	Vac to 2,000 psi: 2X 3,000 to 5,000 psi: 1.5X 7,500 to 20,000 psi: 1.2X
	Burst	Vac to 2,000 psi: 8X 3,000 to 5,000 psi: 3X 7,500 to 20,000 psi: 15X	Vac to 2,000 psi: 8X 3,000 to 5,000 psi: 3X 7,500 to 20,000 psi: 15X	Vac to 2,000 psi: 8X 3,000 to 5,000 psi: 3X	30 to 1,000 psi: 8X	Vac to 2,000 psi: 8X 3,000 to 5,000 psi: 3X 7,500 to 20,000 psi: 15X
Output	Electrical	4-20 mA, 0.1-10 Vdc, 1-5 Vdc, 1-6 Vdc, 1-11 Vdc	2, 3, 10, 20 mV/V	4-20 mA, 0.1-10 Vdc, 1-5 Vdc, 1-6 Vdc, 1-11 Vdc	4-20 mA, 0.1-10 Vdc, 1-5 Vdc, 1-6 Vdc, 1-11 Vdc, 2, 3, 10, 20 mV/V	6-18 mV/V (Ratiometric)
Wetted Material	Diaphragm or Sensor	17-4PH SS	17-4PH SS	316 SS	316 SS	17-4PH SS
	Connection	304 SS	304 SS	316 SS	316 SS	304 SS
Enclosure Rating	Ingress Protection	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	
Approvals		FM (OPT.)			3A	
Hazardous Location Ratings		Intrinsically Safe for use in: Class I, II, III, Div. 1, Groups A, B, C, D, F and G				

See data sheets at www.ashcroft.com for complete product specifications.



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	100, 200, 300			101, 201, 301			400, 401		500, 501		510, 511		510HP, 511HP	
Process Connection														
NPT														
¼	Female/Male			Female/Male			Female/Male		Female/Male					
½	Female/Male			Female/Male			Female/Male		Female/Male		Male		Male	
¾	Female/Male			Female			400: F/M, 401: F		500: F/M, 501: F					
1	Female/Male			Female			400: F/M, 401: F		500: F/M, 501: F					
Diaphragm Material														
316L SS	•	•		•	•		•		•		•		•	
304L SS	•	•		•	•									
Monel® 400	•	•		•	•		•		•		•		•	
Nickel	•	•		•	•									
Carpenter 20®	•	•		•	•									
Tantalum	•	•		•	•		•		•					
Hastelloy® B	•	•		•	•		•		•					
Hastelloy® C-22	•	•		•	•		•		•					
Hastelloy® C-276	•	•		•	•		•		•		•		•	
Teflon®		•	•		•	•								
Viton®		•	•		•	•								
Kalrez®		•	•		•	•								
Titanium		•			•		•		•					
Gold Plated/316L	•			•										
Halar Coated Monel®	•			•										
Bottom Housing Material														
Steel		•			•									
304L SS		•			•									
316L SS		•			•		•		•		•		•	
Hastelloy® B		•			•		•		•					
Hastelloy® C-22		•			•		•		•					
Hastelloy® C-276		•			•		•		•		•		•	
Carpenter® 20		•			•									
Monel® 400		•			•		•		•		•		•	
Inconel®		•			•									
Nickel		•			•									
PVC	¼ or ½ NPT Female													
Kynar®	¼ or ½ NPT Female													
Titanium		•			•		•		•					
Pressure Ratings														
500 psi	Viton® or Kalrez® Diaphragm			Viton® or Kalrez® Diaphragm			400	401					510HP	511HP
1,500 psi											•			
2,500 psi	Metal & Teflon® Diaphragm			Metal & Teflon® Diaphragm										
5,000 psi	100 & 200 Metal Diaphragm			100 & 200 Metal Diaphragm					•					
9,000 psi									•					
10,000 psi							•					•		
Instrument Connection Size														
¼	•			•			•		•		•		•	
½	•			•			•		•		•		•	
Approvals														
CRN														

Products & Features



	310, 315		311	312	330	740, 741	
Process Connection							
NPT							
1/8"	310: Male						
1/4"	310: F/M, 315: F		Female/Male	Female		Female	
1/2"	310: F/M, 315: F		Female/Male	Female		Female	
3/4"	Male		Female/Male			Female	
1"	Male		Female/Male		Male	Female	
Diaphragm Material	310	315				740	741
316L SS		•	•	•	•		•
Monel® 400		•					•
Tantalum		•	•	•			•
Hastelloy® B		•					•
Hastelloy® C-22							•
Hastelloy® C-276		•	•	•			•
Titanium							•
Bottom Housing Material							
Steel							•
316L SS	•		•	•	•		•
Hastelloy® B	•						•
Hastelloy® C-22							•
Hastelloy® C-276	•		•	•			•
Carpenter® 20							•
Monel® 400	•						•
Titanium							•
Pressure Ratings							
750 psi							•
1,000 psi			•	•			
2,500 psi	•						
3,000 psi					•		
Approvals	CRN		CRN	CRN	CRN		CRN
Instrument Connection Size							
1/4"	•		•	•	•		
1/2"	•		•	•	•		•

	Code	320
Process Connection	15	1 1/2
	20	2
Diaphragm and Bottom Housing Material	S	316L SS
Instrument Connection Size	02T	1/4"
	04T	1/2" (2" Only)
Approvals		CRN



See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



	102 202 302			103 203 303			402 403		702 703		DF	106 206	
Process Connection													
1/2	•			•			•		•			•	
3/4	•			•			•		•			•	
1	•			•			•		•		•	•	
1 1/2	•			•			•		•		•	•	
2	•			•			•		•		•	•	
3	•			•			•		•		•	•	
4											•	•	
6												•	
8												•	
Diaphragm Material													
	102	202	302	103	203	303						106	206
316L SS	•	•		•	•		•		•				•
304L SS	•	•		•	•		•		•				•
Monel® 400	•	•		•	•		•		•				•
Nickel	•	•		•	•		•		•				•
Carpenter 20®	•	•		•	•		•		•				•
Tantalum	•	•		•	•		•		•				•
Hastelloy® B	•	•		•	•		•		•				•
Hastelloy® C 22	•	•		•	•		•		•				•
Hastelloy® C 276	•	•		•	•		•		•				•
Teflon®		•	•		•	•							•
Viton®		•	•		•	•							•
Kalrez®		•	•		•	•							•
Titanium		•			•								•
Halar Coated 316L SS									•				
Halar Coated Monel®	•			•								•	
Teflon®-Coated 316L SS									•				
Gold-Plated 316L SS	•			•					•				
Bottom Housing Material													
Steel		•			•								•
304L SS		•			•								•
316L SS		•			•		•		•				•
Hastelloy® B		•			•		•		•				•
Hastelloy® C 22		•			•		•		•				•
Hastelloy® C 276		•			•		•		•				•
Carpenter® 20		•			•		•		•				•
Monel® 400		•			•		•		•				•
Inconel®		•			•								
Nickel		•			•								
PVC		1, 1 1/2, 2											
Kynar®		1, 1 1/2, 2											
Titanium		•			•		•		•				
Flange Class													
150		•			•		•		•		•		•
300		•			•		•		•		•		•
600		•			•		•		•		•		•
900		•			•		•		•		•		•
1,500		•			•		•		•		•		•
Instrument Connection Size													
1/4		•			•		•		•		•		•
1/2		•			•		•		•		•		•
Approvals	CRN			CRN			CRN		CRN		CRN	CRN	

Products & Features



	104 204		105 205		107 207		108 208	
Process Connection								
NPT								
¼	Female						•	
½	Female						•	
¾							•	
1							•	
1½							•	
2							•	
3							•	
4			3"					
			4" & larger					
Diaphragm Material	104	105	105	205	107	207	108	208
316L SS	•	•	•	•	•	•	•	•
304L SS	•	•	•	•	•	•	•	•
Monel® 400	•	•	•	•	•	•	•	•
Nickel	•	•	•	•	•	•	•	•
Carpenter 20®	•	•	•	•	•	•	•	•
Tantalum	•	•	•	•	•	•	•	•
Hastelloy® B	•	•	•	•	•	•	•	•
Hastelloy® C 22	•	•	•	•	•	•	•	•
Hastelloy® C 276	•	•	•	•	•	•	•	•
Teflon®		•		•		•		•
Viton®		•		•		•		•
Kalrez®		•		•		•		•
Titanium	•			•		•		•
Halar Coated Monel®	•		•		•		•	
Bottom Housing Material								
Steel		•		•		•		•
304L SS		•		•		•		•
316L SS		•		•		•		•
Hastelloy® B		•		•		•		•
Hastelloy® C 22		•		•		•		•
Hastelloy® C 276		•		•		•		•
Carpenter® 20		•		•		•		•
Monel® 400		•		•		•		•
Inconel®		•		•		•		•
Nickel		•		•		•		•
Titanium		•						
Pressure Ratings								
500 psi	Viton® or Kalrez® Diaphragm		Viton® or Kalrez® Diaphragm		Viton® or Kalrez® Diaphragm		Viton® or Kalrez® Diaphragm	
2,500 psi	Metal & Teflon® Diaphragm		Metal & Teflon® Diaphragm		Metal & Teflon® Diaphragm		Metal & Teflon® Diaphragm	
Instrument Connection Size								
¼	•		•		•		•	
½	•		•		•		•	
Approvals	CRN		CRN		CRN		CRN	

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



	80	81	82
Process Connection			
1/2			•
1		•	•
1 1/2		•	•
2	•	•	•
3	•	•	
4	•	•	
6	•	•	
8	•	•	
10	•	•	
12	•		
14	•		
16	•		
18	•		
20	•		
Inner Flexible Wall			
Buna-N	•	•	•
PTFE	•	•	•
Viton®	•	•	•
EPDM	•	•	•
Natural Rubber	•	•	•
End Plate Material			
Carbon Steel	•	•	•
316L SS	•	•	•
CPVC		•	
PVDF	•	•	•
Body Material			
Carbon Steel	•	•	•
316L SS	•	•	•
Instrument Removal Option			
Direct Connection	•	•	•
Valve/Needle	•	•	•
SQR™ (Safe Quick Release)	•	•	•
Needle/Valve with SQR™ (Safe Quick Release)	•	•	•
Pressure Class			
150	•	•	
300	•	•	
Instrument Connection Size			
1/4	•	•	•
1/2	•	•	•
Approvals	CRN	CRN	

See data sheets at www.ashcroft.com for complete product specifications.

Fill Fluid	Temperature	Viscosity (cSt at RT)	Variation Code	Notes
Syltherm [®] XLT	-150°F to 500°F (-100°C to 260°C)	1.4	CC	Low temperature applications
Glycerin (food grade)	0°F to 400°F (-18°C to 204°C)	1,300	CG	Direct-mounting only. Not for use with vacuum service
50cSt Silicone	-40°F to 500°F (-40°C to 260°C)	50	CK	
Halocarbon [®] 4.2	-80°F to 390°F (60°C to 200°C)	4.2	CF	For use with oxygen/oxidizing process media
50/50 Ethylene Glycol/Water	-25°F to 190°F (-32°C to 88°C)	2.9	CT	
Polypropylene Glycol	-50°F to 325°F (-46°C to 163°C)	54	CV	
Silicone (food grade)	-40°F to 500°F (-40°C to 260°C)	350	CZ	
10cSt Silicone	-40°F to 500°F (-40°C to 260°C)	10	DJ	
Distilled Water	40°F to 185°F (4°C to 85°C)	0.9	FJ	
Ethylene Glycol	20°F to 325°F (-7°C to 163°C)	14	FK	
50/50 Glycerin/Water	15°F to 200°F (-9°C to 93°C)	30	GH	
80/20 Glycerin/Water	15°F to 225°F (-9°C to 107°C)	270	GR	
Syltherm [®] 800	-40°F to 750°F (-40°C to 400°C)	10	HA	High temperature applications
Calflo [®] AF	-20°F to 600°F (-29°C to 316°C)	60	KF	
Mineral Oil	10°F to 400°F (-12°C to 204°C)	75	MY	
Neobee [®] M-20	5°F to 400°F (-15°C to 204°C)	9.5	NM	Food grade
95/5 Water/Propylene Glycol	40°F to 185°F (4°C to 85°C)	1.0	PY	

See data sheets at www.ashcroft.com for complete product specifications.



TEMPERATURE INSTRUMENTS

BIMETAL THERMOMETERS

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GAS ACTUATED THERMOMETERS

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RTDS & THERMOCOUPLES

AR10, AR20 RTDs..... 45

AT10, AT20, AT30 Thermocouples 45

Products & Features



		CI, EI & EL	C-600A, C-600H	C-600B
Specifications	Dial Size	2", 3", 5"	4½", 6", 8½"	4½"
	Accuracy	±1% of span (ASME B40.200)	±1% of span (ASME B40.3 Grade A)	±1% of span (ASME B40.3 Grade A)
	Weather Protection	IP66 / NEMA 4X		
	Process Connection	¼ NPT Male Fixed, ½ NPT Male Fixed, Union, Adjustable Union	½ NPT Union with rigid or bendable extension	½ NPT Union
	Process Connection Location	Every angle, rear or lower (2" dial rear only)	Lower or rear	Every angle
	Stem Length	CI: 2" to 24" / EI: 2" to 60" / EL: 2" to 36"	NA	6" to 36"
	Stem Diameter	0.250" 0.385" (OPT.)	0.385"	0.385"
	Line Length	NA	5' to 80'	NA
	Bulb Diameter	NA	0.385"	0.385"
	Mounting	Every angle, rear or lower	Surface or flush	Direct mount - every angle
Wetted Material	Stem	304 SS / 316 SS (OPT.)	NA	316 SS
	Bulb	NA	316 SS	316 SS
	Capillary/Armor	NA	Capillary: 316 SS Armor: 302 SS	NA
	Process Connection	304 SS, 316 SS	316 SS	316 SS
Non-Wetted Materials	Case Material	304 SS 316 SS (OPT.)	Multiple options available (see data sheet)	SS
	Window Material	Glass, safety glass, plastic, polycarbonate (OPT.)	Glass, safety glass, non-glare glass, plastic	Glass, safety glass, non-glare glass, plastic
	Ring	304 SS 316 SS (OPT.)	Multiple options available (see data sheet)	SS, bayonet
Process Temperature	Dry	Range dependent	Range dependent	Range dependent
	Silicone Fill	EL version up to 550°F	NA	NA
Ranges	Temperature	-80/120°F to 200/1,000°F (-60/50°C to 100/550°C)	-320°F to 1200°F (-200°C up to 650°C)	-320°F to 1200°F (-200°C up to 650°C)

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		Flanged	Van Stone	Socket Weld	Weld-In	Sanitary	Threaded
Specifications	Process Connection	1", 1½", 2"	1", 1½"	¾", 1"	1½"	1", 1½", 2"	½", ¾", 1" NPT
	U-Process Insertion Length	4" to 22"	2" to 22"	2½" to 22½"	2½" to 22½"	2½" to 22½"	1⅝" to 22½"
	Lagging	Optional	Optional	Optional	Optional	Optional	Yes
	Instrument Connection	½ NPSM ½ NPT Female (OPT.)	½ NPSM ½ NPT Female (OPT.)	½ NPSM ½ NPT Female (OPT.)	½ NPSM ½ NPT Female (OPT.)	½ NPSM ½ NPT Female (OPT.)	½ NPSM ½ NPT Female (OPT.)
	Shank Style	Stepped, straight, tapered	Stepped, straight, tapered	Stepped, straight, tapered	Tapered	Stepped, straight, tapered	Stepped, straight, tapered
	Bore Size	0.260", 0.385"	0.260", 0.385"	0.260", 0.385"	0.260", 0.385"	0.260", 0.385"	0.260", 0.385"
	Flange Facing	Flat, raised, ring joint	Lap joint	NA	NA	Tri-Clamp®	NA
	Flange Rating / Class	150, 300, 600, 900, 1500, 2500	Optional	NA	NA	NA	NA
Wetted Material	Standard Materials	304 SS, 316 SS	304 SS, 316 SS	304 SS, 316 SS	304 SL, 316 SL	304 SS, 316 SS	304 SS, 316 SS
	Monel® (OPT.)	•	•	•	•	•	•
	Hastelloy®	•	•	•	•	•	•
	Carpenter® 20 (OPT.)	•	•	•	•	•	•
	Chrome Molly	•	•	•	•	•	•
	Duplex 2205 SS (OPT.)	•	•	•	•	•	•
	Super Duplex S32750, Inconel® (OPT.)	•	•	•	•	•	•
	Titanium (OPT.)	•	•	•	•	•	•
	Brass (OPT.)						•
	Carbon Steel (OPT.)	•	•	•	•	•	•
Optional Testing	Wake Frequency Calc.	•	•	•	•	•	•
	Hydrostatic Test (Int./Ext.)	•	•	•	•	•	•
	Liquid Dye Penetrant Test	•					
	Cleaned for Oxygen Service	•	•	•	•	•	•
Certificates	Actual Physical & Chemical Material Test Report (MTRs)	•	•	•	•	•	•
	Positive Material Identification (PMI)	•	•	•	•	•	•

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		T4 & T7	LT & GT	PT
Specifications	Accuracy	±1% of span	±1% of span	±1% of span
	Enclosure Ratings	Watertight: IP66, NEMA 3, 4, 4X & 13 Explosion Proof: IP66, NEMA 7 & 9	Watertight L-Series: IP66, NEMA 4, 4X G-Series: IP65, NEMA 4, 4X	Explosion Proof: IP66, NEMA 7 & 9
	Switch Elements	SPDT, DPDT	SPDT, 2 SPDT, DPDT (OPT.)	SPDT, 2 SPDT
	Setpoint	Single factory set or field adjustable	Single or dual (independently adjustable), field adjustable or factory set	Single or dual (independently adjustable), field adjustable or factory set
	Deadband	Fixed	Adjustable (SPDT only) Fixed SPDT or 2 SPDT	Adjustable (SPDT only) Fixed SPDT or 2 SPDT
	Process Connection	Direct Mount: ½ NPT Male Remote Mount: ½ NPT Union (XBX)	Direct Mount: ½ NPT Male Remote Mount: ½ NPT Union (XBX)	Direct Mount: ½ NPT Male Remote Mount: ½ NPT Union (XBX)
	Bulb Diameter	0.385"	0.385"	0.385"
Mounting	Direct Mount	Stem Length: 2¾" to 12"	Stem Length: 2¾" to 12"	Stem Length: 2¾" to 12"
		Stem Diameter: 0.385"	Stem Diameter: 0.385"	Stem Diameter: 0.385"
	Remote Mount	Line Length: 5' to 25'	Line Length: 5' to 25'	Line Length: 5' to 25'
		Bulb Length: 3"	Bulb Length: 3"	Bulb Length: 3"
Wetted Material	Stem	316 SS	316 SS	316 SS
	Bulb	316 SS	316 SS	316 SS
	Capillary	302 SS	302 SS	302 SS
	Process Connection	316 SS	316 SS	316 SS
Non-Wetted Materials	Case Material	Epoxy coated aluminum 316 SS (OPT.)	L-Series: Epoxy coated aluminum G-Series: 316 SS	Epoxy coated aluminum
Ranges	Temperature	-40°F to 750°F (-40°C to 400°C)	-40°F to 750°F (-40°C to 400°C)	-40°F to 750°F (-40°C to 400°C)
	Units	Fahrenheit or Celsius	Fahrenheit or Celsius	Fahrenheit or Celsius
Approvals	Watertight	UL, CSA, CE, ROHS	UL, CSA, CE, ROHS	
	Explosion Proof	UL, CSA, ATEX, IECEX, CE, CRN, RoHS		UL, CSA

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



	AR10 AR20	AT10 AT20	AT30	
Specifications	Accuracy	Class A: $\pm(0.15 + 0.0020 * It)$ Class B: $\pm(0.30 + 0.0050 * It)$ ½ Class B: $\pm(0.15 + 0.0025 * It)$ ⅓ Class B: $\pm(0.10 + 0.0017 * It)$	IEC 60584-2: Class 1, Class 2, Class 3 ANSI MC 96.1: Standard, Special	IEC 60584-2: Class 1, Class 2, Class 3 ANSI MC 96.1: Standard, Special
	Manufacturing Standard	IEC 60751	ANSI MC 96.1, IEC 60584-2	ANSI MC 96.1, IEC 60584-2
	Designed for Thermowells	DIN 43772 (AR10 only)	DIN 43772	DIN 43772
	Head Type	AR10: DIN B, BBK, BUZ, BUZH AR20: DIN B, BUZ, BUZH, Ex d, SCCI, SCCA	AT10: DIN B, BBK, BUZ, BUZH AT20: DIN B, BUZ, BUZH, Ex d, SCCI, SCCA	DIN B, BUZ, BUZH, Ex d, SCCI
	Wiring Configuration	2, 3, 4 Wire (AR10 only)	2 Wire	2 Wire
	Insert Stem Diameter	AR10: 3, 4.5, 6, 8mm AR20: 3, 4, 5, 6, 8mm or ⅛", ⅜", ¼"	AT10: 3, 4.5, 6, 8mm AT20: 3, 4, 5, 6, 8mm or ⅛", ⅜", ¼"	6, 8mm or ⅜"
	Stem Length	0.05 m/2' to 100 m/3,937'	0.05 m/2' to 100 m/3,937'	0.05 m/2' to 100 m/3,937'
	Sensor Type & Measuring Range	Pt 100: -200°C to 600°C Pt 1000: -40°C to 600°C	Type J: -40°C to 750°C Type E: -200°C to 800°C Type K: -200°C to 1,100°C Type N: -200°C to 1,100°C	Type J: -40°C to 750°C Type K: -200°C to 1,100°C
	Process Connection	AR10: G ½ A, G ¾ A, M14 X 1.5, M18 X 1.5, ½ NPTM, G ½ A Compression fitting, ½ NPTM Compression fitting, no process connection AR20: ½ NPTM, ½ NPTM Compression fitting, no process connection	AT10: G ½ A, G ¾ A, M14 X 1.5, M18 X 1.5, ½ NPTM, G ½ A Compression fitting, ½ NPTM Compression fitting, no process connection AT20: ½ NPTM, ½ NPTM Compression fitting, no process connection	1½ NPTM, Flanged or no process connection
Mounting	Direct	Direct	Skin	
Wetted Material	Stem	316L SS	316 SS, Inconel®	316 SS, 466 SS, Inconel® 600
	Lag Extension (Nipple / Union)	316 SS	316 SS	316 SS
Non-Wetted Materials	Case Material	AR10: Aluminum alloy, plastic AR20: Aluminum, 316 SS	AT10: Aluminum alloy, plastic AT20: Aluminum, 316 SS	Aluminum alloy, 316 SS
Approvals		ATEX, IECEx	ATEX, IECEx	ATEX, IECEx

See data sheets at www.ashcroft.com for complete product specifications.



TEST INSTRUMENTS

ATE-2 Hand Held Calibrator	48
ST-2A Digital Tester	48
PT-1 Pressure Tester	49
1305D, 1305DH	49
1327CM, 1327D	49

Products & Features



		ATE-2 Hand Held Calibrator
Specifications	Sensor Input	Two interchangeable pressure and temperature module bays, banana jack inputs for DC voltage or current monitoring
	Pressure Modules	Pressure ranges from 0.25 IWC up to 10,000 psi Accuracy from $\pm 0.025\%$ to $\pm 0.1\%$ of span
	LCD Display	2.5" (W) x 1.5" (H) displays 3 simultaneous measurements, bar graph
	Update Rate	100ms with one module installed
	Resolution	$\pm 0.001\%$ span; 99,999 counts
	Programmable Filtering (Damping)	Levels 1 through 16
	Serial Interface	USB Micro-B connector type
	Field Calibration	Base Unit and pressure modules may be field-calibrated via keypad commands
	Data Logging	For up to 16,000 records
	Battery Life	Up to 40 hours
Electrical	Electrical Connection	4mm Banana Jacks – 1 set of test leads included
	Loop Power Supply	24 Vdc-35 mA Max. (non I.S. only)
	Electrical Measurements	0-20 mA or 0-30 Vdc
	Temperature Effect /Electrical Measurement	$\pm 0.001\%$ of span per °F over compensated range from reference temperature of 70°F $\pm 3^\circ\text{F}$
	Power Requirements	(4) AA Batteries or via USB power supply
Temperature	Operating	-4°F to 120°F (-20°C to 49°C)
Approvals	Certification	NIST traceable certification document provided for base unit and Quick-Select™ sensor modules
	Agency	CE, FCC (CFR47), UL 61010-1
	Optional	FM Intrinsic Safety CL 1, Div 1, Gr A, B, C, D CSA Intrinsic Safety CL 1, Div 1, Gr A, B, C, D ATEX Ex ia IIC T4 Ga -20°C<Ta<+50°C

		ST-2A Digital Indicator
Specifications	Sensor Input	Two interchangeable pressure and temperature module bays, banana jack connections for 0-30 Vdc or 0-50 mA
	Pressure Modules	Pressure ranges from 0.25 IWC (inH ₂ O) up to 10,000 psi Accuracy from $\pm 0.025\%$ to $\pm 0.1\%$ of span
	Enclosure	High impact ABS
	LCD Display	Alphanumeric LCD, 0.37" height, 2 lines, 16 characters per line
	Update Rate	130 ms with one module installed
	Resolution	$\pm 0.002\%$ span; 60,000 counts
	Programmable Filtering (Damping)	Average from 1-16 consecutive readings
	Serial Interface	9 pin D type, 300, 1200, 2400, 9600 baud
	Field Calibration	Base Unit and pressure modules may be field calibrated via keypad commands
	Data Logging	Optional up to 714 measurements
Electrical	Battery Life	Up to 20 hours
	Electrical Connection	4mm Banana Jacks
	Electrical Measurements	0-50 mA or 0-30 Vdc
	Temperature Effect/Electrical Measurement	$\pm 0.004\%$ of span per °F over compensated range from reference temperature of 70°F $\pm 3^\circ\text{F}$
	Power Requirements	9 Vdc
Temperature	Operating	32°F to 120°F (0°C to 49°C)
Certifications		NIST traceable certification document provided for base unit and Quick-Select™ sensor modules

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		1305D & 1305DH	1327CM & 1327D
Type/Description		Deadweight Tester	Gauge Comparator
Specifications	Accuracy	±0.1% of reading	1327CM: ±0.1% of gauge span 1327D: ±0.25% of gauge span
	Operating Pressure	15 psi to 10,000 psi	0 to 10,000 psi
	Pump Body Materials	Aluminum alloy	Aluminum alloy
	Piston & Cylinder Materials	Piston: 440C SS Cylinder: 416 SS	NA
	Operating Fluid	1305D: SAE 20 automotive or machine oil 1305DH: Phosphate or glycol base hydraulic fluids,	1327CMS: SAE 20 automotive or machine oil 1327CMH: Phosphate or glycol base hydraulic fluids 1327CMO: Distilled water 1327D: SAE 20 automotive or machine oil 1327DH: Phosphate ester or Glycol based hydraulic fluids 1327DO: Distilled water
	Weight Material	Non-magnetic die cast zinc alloy, ASTM AC41A	
O-Ring Seals	1305D: Buna-N 1305DH: Ethylene Propylene	1327CMS, 1327CMO, 1327D & 1327DO: Buna-N 1327CMH & 1327DH: Ethylene Propylene	

		PT-1 Pressure Tester
Specifications	Pressure Sensor	Two interchangeable pressure and temperature module bays, banana jack connections for 0-30 Vdc or 0-50 mA
	Process Connection	1/8 NPT Female
	Calibration	NIST traceable Calibration Certification included
	Repeatability	±0.01% of span (all psi ranges) ±0.01% of span (ranges of 1 through 200 IWC) ±0.02% of span (ranges below 1 IWC)
	Overpressure	IWC ranges / 50 psi positive, 15 psi negative psi ranges 2X for ranges of 5 through 1,000 psi 1.5X for ranges of 1,500 psi and above
	Resolution	±0.002% of span (Max.)
	Power Requirements	9 Vdc
	Display	LCD
Case Material	High Impact ABS, black	
Temperature	Operating	32°F to 120°F (0°C to 49°C)
	Storage	-4°F to 158°F (-20°C to 70°C)
	Temperature Effect	±0.004% per °F from a reference temp. 70 ±3°F
	Compensation (OPT.)	20°F to 120°F (-7°C to 49°C) Eliminates temperature error from 20° to 120°F. Available only on PPM2 sensors.
Wetted Material	Media Compatibility	PPM1: Clean, dry, non-conductive, non-corrosive gas PPM2: Any medium compatible with 316 SS



See data sheets at www.ashcroft.com for complete product specifications.



Products & Features



		V01 & V02 Gauge Valve	2 Valve Manifold V01 & V02	3 Valve Manifold V01, V02 & V03	5 Valve Manifold V01, V02 & V03
Specifications	Process Connection	½ NPT	½ NPT	¼ NPT, ½ NPT	¼ NPT, ½ NPT
	Instrument Connection	½ NPT	½ NPT	¼ NPT, ½ NPT	¼ NPT, ½ NPT
	Construction	316 SS	316 SS	316 SS	316 SS
	Max. Allowable Working Pressure	6,092 psi at 100°F (38°C)	6,092 psi at 100°F (38°C)	6,092 psi at 100°F (38°C)	6,092 psi at 100°F (38°C)
Wetted Components	Material	316 SS with PTFE packing	316 SS with PTFE packing	316 SS with PTFE packing	316 SS with PTFE packing
Non-Wetted Components	Material	304 SS/316 SS	304 SS/316 SS	304 SS/316 SS	304 SS/316 SS



		Low Pressure Ball Valve V02	High Pressure Ball Valve V02	Multiport Valve V02	Pressure Limiting Valve PL02
Specifications	Process Connection	½ NPT	½ NPT	½ NPT	¼ NPT, ½ NPT
	Instrument Connection	½ NPT	½ NPT	½ NPT	¼ NPT, ½ NPT
	Construction	316 SS	316 SS	316 SS	316Ti SS
	Max. Allowable Working Pressure	1,000 psi at 104°F (40°C)	6,092 psi at 347°F (175°C)	6,092 psi at 100°F (38°C)	14,500 psi at 175°F (80°C)
Wetted Components	Material	316 SS, PTFE	316 SS, PTFE	316L SS, 316Ti SS, PTFE	304 SS, 316L SS, 316Ti SS, FKM
Non-Wetted Components	Material	304 SS, Vinyl	316 SS, Vinyl, A4	SS	

See data sheets at www.ashcroft.com for complete product specifications.

Products & Features



		1198 Siphon	2198 Siphon	1098 & 1100 Siphons	1106 Pulsation Dampener	1112 Pressure Snubber
Specifications	Process Connection	¼ NPT, ½ NPT	¼ NPT, ½ NPT G ¼ B, G ½ B	¼ NPT, ½ NPT	¼ NPT, ½ NPT	¼ NPT, ½ NPT
	Instrument Connection	¼ NPT, ½ NPT	¼ NPT, ½ NPT G ¼ B, G ½ B	¼ NPT, ½ NPT	¼ NPT, ½ NPT	¼ NPT, ½ NPT
	Material	316L SS, Monel®	316L SS	SS, Brass, Steel	SS, Brass	Bold housing/Filter disc Brass, SS, Monel®
	Max. Allowable Working Pressure	3,000 psi at 700°F (371°C)	5,000 psi at 800°F (427°C)	1098: 9,550 psi at 400°F (204°C)	5,000 psi	15,000 psi



7001L & 7004L Steel Needle Valves

Specifications	Process Connection	¼ NPT ½ NPT
	Instrument Connection	¼ NPT, ½ NPT
	Material	Carbon steel, 316 SS
	Max. Pressure/ Temperature Rating	10,000 psi at 100°F (37.8°C)



1115A & 1115P Capillary Lines

Specifications	Process Conn. Size	¼ NPT, ½ NPT
	Instrument Connection	¼ NPT ½ NPT
	Diameter	Outer: 0.125", Inner: 0.062"
	Max. Allowable Working Pressure	10,000 psi at -300°F to 750°F (-184°C to 399°C)
Wetted Components		304 SS



1093, 1094 & 1096 Gauge Cocks

Specifications	Weight	1093: 3 oz., 1094: 10 oz., 1096: 4 oz.
	Process Connection	¼ NPT
	Material	Brass
	Max. Allowable Working Pressure	80 psi (STD.) (air only) 200 psi (OPT.) (air only)



2265 Electric Warning Contacts

Specifications	Dial Sizes	4½", 6"
	Contact Arrangement	High and Low
	Switch Capacity	30W DC Max. switch power 50VA AC Max. switching power 1A Max. current
	Electrical Contact	250V Max. voltage

See data sheets at www.ashcroft.com for complete product specifications.



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