SASHCROFT®

PRESSURE & TEMPERATURE INSTRUMENT QUICK GUIDE



Ashcroft® Inc. – the experts in pressure and temperature measurement

Over 150 years ago, Edward
Ashcroft saw the need for
safer, more sophisticated
pressure and temperature
instruments for use in the
emerging steam industry.
In response, he introduced
a then-revolutionary new
Bourdon tube pressure gauge.

The rest is history.

Times continue to change and so do the needs of industry. Products manufactured by Ashcroft Inc. have become the benchmark in pressure and temperature measurement and include gauges, thermometers, switches, transducers, transmitters, instrument isolators and diaphragm seals and control and calibration equipment.

Specified around the world for the most demanding requirements, these instruments are widely recognized under the brand names Ashcroft, Heise, Milly, and Weksler. And you can find them in wastewater treatment facilities, biotech and pharmaceutical labs, medical applications, semiconductor facilities, refineries, power generation plants, food processing plants, pulp and paper mills, chemical manufacturing plants and the host of support companies that serve these industries.

Our team consists of experts ready to help resolve even the most difficult applications and technical issues. If you require broader specifications than our standard product line offers, our engineers, technical staff and product marketing specialists can work with you to custom fit the right product to the job. Our customer service representatives are highly trained to answer product application questions, offer competitive product cross references and work closely with you to help meet your goals.

We maintain an extensive network of field and in-house sales personnel, local representatives and distributors to ensure you receive quick product delivery and service. Along with our "partner" representatives we offer product training and education, facility surveys, calibration services, seal assembly and answers to your application questions.

Safety is a critical issue, and our instrument audit can improve the safety or your plant. Industry surveys indicate that 20% to 30% of customers' instruments are misapplied and fail prematurely due to pulsation and vibration, allowing the process media or liquid fill to escape and cause environmental damage or even harm those nearby. Experts from Ashcroft Inc. can help identify areas of concern before they become problems. This important service will help prevent accidents, avoid misapplications and save money and time.

As the leader in technology and innovation we design new products based on current and emerging market requirements as well as individual customer's requirements. As the industry leader our "firsts" lead the way with breakthrough new product features and value added benefits for the customer.









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Quick Guide Digital Gauges

TYPES 2089, 2086, 2084 Precision digital TEST GAUGE



ACCURACY

±0.05%, 0.10% or 0.25% of span

CASE SIZE

CASE MATERIAL

300 Series stainless steel

WETTED MATERIALS

316 stainless steel

SOCKET SIZE

1/4 NPT, 1/8 NPT (others on application)

CONNECTION

Lower (6 o'clock), top, side

Vac., 5 psi thru 7000 psi including compound and absolute

POWER SOURCE

Three AAA alkaline batteries

BATTERY LIFE

1000 hrs

OPERATING TEMPERATURE

Temperature corrected from 0/150°F (-18/63°C)

STORAGE TEMPERATURE -40/180°F (-40/82°C)

AGENCY APPROVALS

EN 50082-1 (1997), FM, CSA

LOOK FOR THESE MARKS ON OUR PRODUCTS





TYPES 2074, 2174, 2274 INDUSTRIAL DIGITAL GAUGE



ACCURACY: ±0.25% of span

CASE SIZE 3," 41/2

CASE MATERIAL

(3") 300 series stainless steel (41/2") fiberglass reinforced thermoplastic (4¹/2″) black painted aluminum

WETTED MATERIALS

17-4 PH stainless steel sensor: 316 stainless steel socket

SOCKET SIZE

1/4 NPT, 1/2 NPT (41/2" case only) Others on application

CONNECTION

Lower (6 o'clock), top, side

Vac. and 15 psi thru 20,000 psi including compound

POWER SOURCE

Battery (3") Two AA alkaline batteries (4¹/₂") Two C alkaline batteries Loop powered 4-20mA Line powered, (12-36 Vdc, 1 amp)

BATTERY LIFE

(3") <1500 hrs. (41/2") <2500 hrs.

OPERATING TEMPERATURE

14/140°F (-10/60°C)

STORAGE TEMPERATURE

-4/158°F (-20/70°C)

AGENCY APPROVALS

EN 50082-1 (1997) optional, FM, CSA,

LOOK FOR THESE MARKS ON OUR PRODUCTS





TYPE DG25 **GENERAL PURPOSE DIGITAL GAUGE**



ACCURACY

±0.5% of span or ±0.25% span

CASE SIZE 21/2

CASE MATERIAL

Polycarbonate/ABS

WETTED MATERIALS

17-4 PH stainless steel sensor: 316 stainless steel socket

SOCKET SIZE

1/4 NPT, 1/8 NPT, G1/4A, G1/4B, 9/16-18 UNF Others on application

CONNECTION

Lower

RANGES

Vac. thru 25,000 psi, including compound

POWER SOURCE

Two AA alkaline batteries

BATTERY LIFE

2000 hrs

OPERATING TEMPERATURE (Media)

-4/176°F (-20/80°C)

STORAGE TEMPERATURE (Batteries Removed)

-4/140°F (-20/00°C)

AGENCY APPROVALS

CE, EN 61326 (1998) CE, EN 61326 Annex A (heavy industrial) UL-61010-1

LOOK FOR THIS MARK ON OUR PRODUCT







TYPE 2030 SERIES DIGITAL SANITARY GAUGE



ACCURACY

±0.25% of span terminal point accuracy

DIAL SIZE

CASE MATERIAL/FINISH

(3´) 300 series SS, electropolished

WETTED MATERIALS

316L stainless steel

TRI-CLAMP CONNECTION

Direct, in-line 1.5", 2.0"; remote in-line (XRE)

RANGES

15 psi thru 1000 psi including metric, compound and vacuum

POWER SOURCE

2032 Battery 2132 4-20mA loop powered

2232 12-36 Vdc

BATTERY LIFE 500 hrs.

OPERATING TEMPERATURE

14°F/140°F (-10°C/60°C)

STORAGE TEMPERATURE

-4°F/158°F (-20°C/70°C)



LOOK FOR THIS MARK ON OUR PRODUCT

With total error band accuracy including temperature from 0/150°F (-18 to 63°C) applications include metrology labs, gas distribution and transmission and analog test gauge users. Available with optional (1) or (2) SPDT switches and 4-20mA output, this gauge is ideal for many industrial applications. This product eliminates the need for unnecessary piping, switches and transducers.

This product is an excellent choice for a wide variety of pressure measurement applications. When compared to mechanical gauges the DG25 offers overall enhanced value.

Sanitary pharmaceutical, biotech or food applications requiring Tri-Clover type fittings and highly polished stainless steel surfaces.



Quick Guide Test Instruments

1084, 3" Test gauge	1082, 4 ¹ / ₂ ,″ 6,″ 8 ¹ / ₂ ″ TEST GAUGE	TYPES 2089, 2086, 2084 Precision digital Test gauges	TYPE ATE-2 LCD Digital Calibrator
40 50 80 30 TEST CAUCH TO 20 80 10 90 90 90 90 90 90 90 90 90	90 100 100 100 100 100 100 100 100 100 1	NASHCROFT IN MUSIC PARTIES OF THE PA	C Un us LISTED
ASME B 40.100 Grade 2A (±0.5% of span)	ACCURACY ASME B 40.100 Grade 3A (±0.25% of span)	ACCURACY ±0.05%, 0.10% or 0.25% of span	PRESSURE MEASUREMENT ACCURACY ±0.025, 0.05 and 0.1% of span
DIAL SIZE 3"	DIAL SIZE 4½, 6, 8½	2″	PRESSURE RANGES 0/0.25 in.H₂O through 0/10,000 psi
CASE MATERIAL 300 series polished stainless steel	CASE MATERIAL Aluminum, phenolic, polypropylene	CASE MATERIAL 300 Series stainless steel	PRESSURE TYPES Gauge, compound, vacuum, absolute and
MATERIAL 316 stainless steel	WETTED MATERIAL Bronze/brass, Monel	WETTED MATERIALS 316 stainless steel	TEMPERATURE COMPENSATION
SENSING ELEMENT Bourdon tube	SENSING ELEMENT Bourdon tube	SOCKET SIZE 1/4 NPT, 1/8 NPT	20-120°F TEMPERATURE MEASUREMENT
CONNECTION 1/4 NPT lower only	CONNECTION 1/4 NPT (standard) and	(others on application) CONNECTION	Supports most common RTD-type tem- perature probes and thermocouples
RANGES Vac. to 1000 psi	1/2 NPT lower or back (optional) RANGES	Lower (6 o'clock), top, side RANGES	DIMENSIONS 8.7 in. (L) x 5.1 in. (W) x 3.8 in. (H)
	Vac. to 10,000 psi TEMPERATURE ERROR	Vac., 5 psi thru 7000 psi including compound and absolute	WEIGHT Max. 2.4 lbs. w/2 pressure modules installed
	<.005% per degree F above or below reference temperature of 68°F (20°C)	POWER SOURCE Three AAA alkaline batteries	CASE MATERIAL High impact PC-ABS
		BATTERY LIFE 1000 hrs.	SENSOR MODULE CAPACITY 2 bays for Ashcroft AM2 sensor modules
		OPERATING TEMPERATURE Temperature corrected from 0/150°F (-18/63°C) STORAGE TEMPERATURE	DISPLAY 1.5" x 2.5" graphic LCD display with backlight. Can display readings from 2
		_40/180°F (-40/82°C)	simultaneous modules ELECTRICAL CONNECTION
		AGENCY APPROVALS EN 50082-1 (1997), FM, CSA	4mm banana jacks (one set of test leads provided with each ATE-2)
		LOOK FOR THESE MARKS ON OUR PRODUCTS	UPDATE RATE 100 ms (nominal) with one module installed
		○ FM>	RESOLUTION ±0.0015% of span, 66,000 counts (max)
			DAMPING Programmable filtering levels one through 16
			SERIAL INTERFACE Type: USB
			AGENCY APPROVALS Standard: UL, FCC Optional: FM, CSA, ATEX
Ideal for use when a quality analog pocket test gauge is required.	1/4% full scale accuracy for test and laboratory applications.	Superior accuracy for test and laboratory applications.	Field or laboratory precision pressure standard for calibrating or setting other instruments and devices. Also used for high accuracy temperature or pressure measurement in critical processes.



Quick Guide Test Instruments

MODEL PT, DUAL DISPLAY LCD DIGITAL INDICATOR ST-2A LCD DIGITAL INDICATOR TYPE 1305D TYPE 1327D, 1327CM **DEADWEIGHT TESTER GAUGE COMPARATOR** PRESSURE MEASUREMENT ACCURACY **ACCURACY OPERATING PRESSURE** PRESSURE MEASUREMENT ACCURACY ±0.025, 0.05 and 0.1% of span ±0.1% of reading 0-10,000 psi (maximum) (0-60,000 kPa) ±0.025, 0.05 and 0.1% of span **OPERATING PRESSURE OPERATING MEDIA** PRESSURE RANGES PRESSURE RANGES 0/0.25 in.H₂O through 0/10,000 psi 15 psi to 10,000 psi Std.: SAE 20 weight automotive or 0/0.25 in.H₂O through 0/10,000 psi machine oil **OPERATING MEDIA** PRESSURE TYPES PRESSURE TYPES Opt.: Phosphate-based or glycol fluids Gauge, compound, vacuum, absolute and 1305D: SAE 20 weight automotive or Gauge, compound, vacuum, absolute and Distilled water for oxygen service machine oil **O-RING MATERIAL** TEMPERATURE COMPENSATION Standard: Buna N (D Series) TEMPERATURE MEASUREMENT Phosphate-based or glycol fluids Supports most common RTD-type 20-120°F Optional: Ethylene Propylene temperature probes (DH Series) TEMPERATURE MEASUREMENT **O-RING MATERIAL** 1305D: Buna-N (D series) DIMENSIONS Supports most common RTD-type tem-RESERVOIR VOLUME perature probes and thermocouples 7.72 in. (L) x 6 in. (W) x 2.95 in. (H) Approximately 1.5 pints (0.7 liter) PANEL CUTOUT Ethylene Propylene (DH Series) DIMENSIONS **SPECIFICATIONS TYPE 1327DG** 10.9 in. (L) x 6.74 in. (W) x 4.0 in. (H) 5.4 in. x 2.68 in. PISTON AND CYLINDER MATERIAL **ACCURACY** PANEL CUTOUT Stainless steel ±0.25% F.S Depending on configuration 6.56 in. x 3.53 in. WEIGHT MATERIAL **GAUGE TYPE** Max. <4 lbs. w/2 sensors and battery pack Non-magnetic die cast zinc Ashcroft 41/2 inch Type 1082 gauges with Max. 4.08 lbs. w/2 pressure modules CASE MATERIAL temperature compensation RESERVOIR VOLUME installed High impact ABS Approximately 1.5 pints (0.7 liter) Special "CD-4" Certification package avail-**CASE MATERIAL** SENSOR CAPACITY able (see Price Sheet TE/PS-1) 2 bays for Ashcroft PPT sensors High impact ABS SPECIFICATIONS TYPE 1327CM Special "CD-5" Certification package avail-SENSOR MODULE CAPACITY 2 bays for Ashcroft AQS "Quick Select®" able (see Price Sheet TE/PS-1) **ACCURACY** 5 digit, 2 line LCD, 0.38 in. height per line. sensor modules ±0.1% F.S. Can display simultaneous readings from 2 modules. **GAUGE TYPE** 2 line LCD, 0.37 in. height per line. Can Ashcroft 6-inch Type A4A with temperature OUTPUT Full function RS-232 display simultaneous readings from 2 compensation modules. TEMPERATURE COMPENSATION **ELECTRICAL CONNECTION** -25°F to +125°F (will maintain Backlit Display; Built-in NiCad Recharge-Standard banana jacks ±0.1% F.S. accuracy) able Batteries; Handle; Panel Mounting **Brackets OPERATING TEMPERATURE RANGE OPERATING TEMPERATURE RANGE** 32° to 120°F 32° to 120°F **UPDATE RATE** TEMPERATURE COMPENSATION 130 ms (nominal) with one sensor installed 20-120°F ±0.002% of span, 60,000 counts (max) **UPDATE RATE** 130 ms (nominal) with one sensor installed **ELECTRICAL MEASUREMENTS** RESOLUTION 0-20 mA or 0-30 Vdc ±0.002% of span, 60,000 counts (max)

Primary deadweight pressure standard and

hydraulic pressure source for calibration of

other pressure instruments

Laboratory precision pressure standard for

calibrating or setting other instruments and

devices. Also used for high accuracy temperature or pressure measurement in critical

processes

Primary deadweight pressure standard and

hydraulic pressure source for calibration of

other pressure instruments.

Consult factory for guidance in product selection. Phone 203-378-8281, visit our web site www.ashcroft.com or email: info@ashcroft.com.

Laboratory precision pressure standard for

calibrating or setting other instruments and

perature or pressure measurement in critical

devices. Also used for high accuracy tem-

processes



Quick Guide Test Instruments

TYPE AVC-1000 & 3000 VOLUME CONTROLLER

TYPE A4A PRECISION DIAL PRESSURE GAUGE



AVC-1000 / AVC-3000

RANGE (psi) vacuum-1000 / vacuum-3000

RESOLUTION (psi) 0.00025 / 0.0005

VOLUME CHANGE (cubic inches) 3.5 / 2.5

MECHANICAL ROTATION (turns) 31 / 61

PROOF PRESSURE (psi)

3000 / 6000

BURST PRESSURE (psi) 6000 min / 12,000 min

OPERATING TEMPERATURE RANGE 20-120°F / 20-120°F

OPERATING MEDIA

Clean, dry noncorrosive gas such as compressed air or nitrogen

CONSTRUCTION

Aluminum body, stainless steel, brass Teflon, Delrin and Buna N

ACCURACY

±0.10% of span - ASME B40.1, Grade 4A

Cast aluminum solid front

6", 81/2", 12" & 16"

POINTER TRAVEL

350° (15-30,000 psi) 300° (40,000-50,000 psi) 270° (60,000-100,000 psi)

BOURDON TUBE

Bleeder tipped

Gauge, compound, vacuum & absolute 0-15-0/100,000 psi

Added to any pneumatic calibration system, the VC works as a "fine tune" device to achieve specific test points not easily attained with the use of a regulator alone. Used in the calibration of any pneumatic pressure instrument up to 3000 psi.

0.1% full scale accuracy is ideal for test and laboratory applications.

Consult factory for guidance in product selection. Phone 203-378-8281, visit our web site www.ashcroft.com or email: info@ashcroft.com.



Quick Guide Process Gauges

1279 DURAGAUGE® PRESSURE GAUGE



ACCURACY

ASME B 40.100 Grade 2A (±0.5% of span)

DIAL SIZE

CASE TYPE

Solid front, pressure relief back

WETTED MATERIAL

(Optional) 316 stainless steel, bronze/brass, Monel

SENSING ELEMENT

Bourdon tube

CONNECTION

½ NPT (standard) lower or back ¼ NPT, others (optional)

RANGES

Vacuum, 15 to 30,000 psi, compound Alternate units & scales (optional)

Consult 1279 Duragauge Datasheet (Bulletin DU-1 1279) for full product details. Available at www.ashcroft.com

1377 DURAGAUGE® **PRESSURE GAUGE**



ACCURACY

ASME B 40.100 Grade 2A (±0.5% of span)

DIAL SIZE

41/2,"6,"81/2

CASE TYPE

Solid front, pressure relief back

WETTED MATERIAL

(Optional) 316 stainless steel, bronze/brass, Monel

SENSING ELEMENT

Bourdon tube

CONNECTION

½ NPT (standard) lower or back ¼ NPT, others (optional)

RANGES

Vacuum, 15 to 30,000 psi, compound Alternate units & scales (optional)

Consult 1377 Duragauge Datasheet (Bulletin DU-2 1377) for full product details. Available at www.ashcroft.com

1379 DURAGAUGE® **PRESSURE GAUGE**



ACCURACY

ASME B 40.100 Grade 2A (±0.5% of span)

DIAL SIZE

4½"6,"8½

CASE TYPE

Solid front, pressure relief back

WETTED MATERIAL

(Optional) 316 stainless steel, bronze/brass, Monel, Inconel

SENSING ELEMENT Bourdon tube

CONNECTION

½ NPT (standard) lower or back ¼ NPT, others (optional)

RANGES

Vacuum, 15 to 100,000 psi, compound Alternate units & scales (optional)

Consult 1379 Duragauge Datasheet (Bulletin DU-3 1379) for full product details. Available at www.ashcroft.com

2462 DURAGAUGE® PRESSURE GAUGE



ACCURACY

ASME B 40.100 Grade 2A (±0.5% of span)

DIAL SIZE

CASE TYPE

Solid front, pressure relief back

WETTED MATERIAL

(Optional) 316 stainless steel, bronze/brass, Monel,

SENSING ELEMENT

Bourdon tube

CONNECTION

½ NPT (standard) lower or back ¼ NPT, others (optional)

RANGES

Vacuum, 15 to 30,000 psi, compound Alternate units & scales (optional)

Consult 2462 Duragauge Datasheet (Bulletin DU-4 2462) for full product details. Available at www.ashcroft.com

Usage requiring 1/2% full scale accuracy in chemical, petrochemical, refinery, oil prodution, other process, power and general industry.

Usage requiring ½% full scale accuracy in chemical, petrochemical, refinery, oil prodution, other process, power and general industry.

Usage requiring ½% full scale accuracy in chemical, petrochemical, refinery, oil production, other process, power and general industry.

Usage requiring 1/2% full scale accuracy in chemical, petrochemical, refinery, oil production, other process, power and general industry.



Quick Guide Process Gauges

1259 PROCESS PRESSURE GAUGE

1279, 1379, 1377, 2462 RECEIVER GAUGES

1290 DIRECT DRIVE PRESSURE GAUGE



ACCURACY ASME B 40.100 Grade 2A (±0.5% of span)

DIAL SIZE

CASE TYPE

Solid front, pressure relief back

WETTED MATERIAL

(Optional) 316 stainless steel, Monel

SENSING ELEMENT

Bourdon tube

CONNECTION

½ NPT (standard) lower or back 1/4 NPT, others (optional)

Vacuum, 15 to 20,000 psi, compound Alternate units & scales (optional)

Consult 1259 Datasheet (Bulletin PR-1259) for full product details. Available at www.ashcroft.com



ACCURACY ASME B 40.100 Grade 2A (±0.5% of span)

DIAL SIZES

4½" - Type 1279, 1377, 1379 6" - Type 1377, 1379, 2462 8½" - Type 1377, 1379

CASE TYPE

Solid front, pressure relief back

WETTED MATERIAL Bronze/brass (standard)

SENSING ELEMENT Bourdon tube

CONNECTION

½ NPT (standard) lower or back ¼ NPT, others (optional)

RANGES

(Input) 3-15 psi & 3-27 psi (Optional) special indication scales

Consult Receiver Gauge Datasheet (Bulletin RG-1) for full product details. Available at www.ashcroft.com



ACCURACY

ASME B 40.100 Grade 2A (±0.5% of span)

CASE TYPE

Solid front, pressure relief back

WETTED MATERIAL

Inconel & 304 stainless steel

SENSING ELEMENT

Bourdon tube (direct drive)

CONNECTION

½ NPT (standard) lower or back ¼ NPT, others (optional)

Vacuum, 15 to 2000 psi, compound Alternate units & scales (optional)

Consult 1290 Datasheet (Bulletin DD-1 1290) for full product details. Available at www.ashcroft.com

Usage requiring 1/2% full scale accuracy in chemical, petrochemical, refinery, oil production, other process, power and general industry.

For use with pneumatic transmitters.

Unique movmentless system for harsh applications exhibiting severe vibration or pulsation effects.



T5500 & T6500 PRESSURE GAUGE (€ €x PLUS!

ACCURACY

Std. Class 1, 1% full scale

DIAL SIZE

100mm, 160mm

CASE MATERIAL

304 stainless steel, 316 stainless steel

MOVEMENT

304/303 stainless steel

SENSING ELEMENT

Bourdon tube

CONNECTION

T5500 – lower or back, open front T6500 – lower only, solid front

Vacuum, compound, pressure psi: -30in. Hg-0, 0-36,000 psi bar: -1-0, 0-2500 bar

1008S 40 & 50mm PRESSURE GAUGE



ACCURACY

ASME B 40.100 Grade B (±3-2-3% of span)

DIAL SIZE

40mm, 50mm

CASE MATERIAL

Stainless steel

WETTED MATERIAL

316 stainless steel

SENSING ELEMENT Bourdon tube

CONNECTION

1/8 NPT lower or back 1/4 NPT lower or back

Vac. to 15,000 psi

Available dry and glycerin filled

1008S/SL 63 & 100mm **PRESSURE GAUGE**



ACCURACY 1.6% F. S.

DIAL SIZE

63mm, 100mm

CASE MATERIAL Stainless steel

WETTED MATERIAL

316L stainless steel

SENSING ELEMENT

Bourdon tube

CONNECTION

1/8 NPT lower or lower back 1/4 NPT lower or lower back 1/4 NPT lower (100mm) 1/15, DIN, BSP sockets available

RANGES

Vac. to 15,000 psi

Available dry and glycerin filled

1008S/SL 63 & 100mm CENTER **BACK CONNECT GAUGES**



ACCURACY ASME B 40.100 Grade B (±3-2-3% of span)

DIAL SIZE

63mm, 100mm

CASE MATERIAL

Stainless steel

WETTED MATERIAL

316L stainless steel

SENSING ELEMENT Bourdon tube

CONNECTION 1/4 NPT center back

RANGES

Vac. to 20,000 psi

The Ashcroft® T5500 and T6500 all stainless steel process pressure gauge is one of the finest production gauges on the market for industrial use where precise indications are required

Applications include industrial compressors, valve indicators, firefighting equipment, measurement/control, metal working and hydraulic equipment. Especially suited for pneumatic controllers and transmitters located in corrosive environments

Applications include industrial compressors, firefighting equipment, measurement/control, metal working, hydraulic equipment and panel builders. Can be supplied EN837 compliant.

Applications include industrial compressors, firefighting equipment, measurement/control, metal working, hydraulic equipment and panel builders requiring center back connections.



1009 2½" & 3½" DURALIFE® Pressure gauge

ACCURACY

ASME B 40.100 Grade 1A (±1% of span)

21/2," 31/2"

CASE MATERIAL

Stainless steel

WETTED MATERIAL

316L stainless steel, Bourdon tube

SENSING ELEMENT

Bourdon tube

CONNECTION

1/8 NPT lower or lower back 1/4 NPT lower or lower back ½ NPT lower (3½″) JIS, DIN, BSP, tube stub

RANGES

Vac. to 15,000 psi

Stainless steel and aluminum bronze sockets

2008S/SL 63mm PANEL GAUGE



ACCURACY 1.6% F. S.

DIAL SIZE 63mm

CASE MATERIAL

Stainless steel

WETTED MATERIAL

316L stainless steel

SENSING ELEMENT Bourdon tube

CONNECTION

1/2 NPT only lower back

RANGES

Vac., Compound 0-15,000 psi

Available dry and glycerin filled, with **PLUS!** Performance

1009 41/2" & 6" STAINLESS STEEL CASE



ACCURACY

ASME B 40.100 Grade 1A (±1% of span)

DIAL SIZE

41/2," 6"

CASE MATERIAL

Stainless Steel

TUBE MATERIAL

Bronze, 316 stainless steel, Monel

SENSING ELEMENT

Bourdon tube

CONNECTION

1/4 NPT lower or back ½ NPT lower or back

RANGES

Vac. to 30.000 psi

1109 41/2" STAINLESS STEEL CASE



ACCURACY

ASME B 40.100 Grade 1A (±1% of span)

DIAL SIZE

CASE MATERIAL Stainless Steel

TUBE MATERIAL

316 stainless steel

SENSING ELEMENT

Bourdon tube

CONNECTION

½NPT lower, ¼ NPT lower (optional) 1/4 NPT lower high pressure

Vac. to 1500 psi / 2000-20,000 psi 50,000-100,000 psi

For use on fluid power equipment in oil and gas production, construction, mining, machine tools, logging, pulp and paper, general industrial applications and panel builders.

The Ashcroft 2008S/SL was designed specifically for the rugged requirements of panel installation. Oil, gas, offshore, environmentally and process challenged applications are the target for these gauge markets.

Stainless steel case Type 1009 applications include boilers, compressors, water blasting equipment, pharmaceutical and food processing equipment.

Stainless steel case Type 1109 applications include water jet or water blasting equipment, offshore platform, etc.



1009, 1010, 1017, 1220 HYDRAULIC GAUGES



1009, 1010, 1017, 1220 RECEIVER GAUGES

1009, 1010, 1017, 1220 REFRIGERATION GAUGE

1010 4½, "6, "8½, "12" GENERAL SERVICE GAUGE



ACCURACY

ASME B 40.100 Grade 1A (±1% of span)

DIAL SIZE

1009 – 4½″6″ 1010 - 4½"6,"8½,"12"

1017 - 41/2,"6"

1220 - 41/2," 6," 81/2"

CASE MATERIAL

Stainless steel, aluminum, phenolic

TUBE MATERIAL

Bronze, 316 stainless steel, Monel

SENSING ELEMENT

Bourdon tube

CONNECTION

1/4 NPT lower or back 1/2 NPT lower or back

RANGES

Vac. to 30,000 psi



ACCURACY

ASME B 40.100 Grade 1A (±1% of span)

DIAL SIZE

1009 – 4½,″6″

1010 – 4½″6″, 8½″12″ 1017 – 4½″6″

1220 - 41/2," 6," 81/2"

CASE MATERIAL

Stainless steel, aluminum, phenolic

TUBE MATERIAL

Bronze, 316 stainless steel, Monel

SENSING ELEMENT

Bourdon tube

CONNECTION

1/4 NPT lower or back 1/2 NPT lower or back

RANGES

3/15 and 3/27 psi



ACCURACY

ASME B 40.100 Grade 1A (±1% of span)

DIAL SIZE

1009 - 4½, 6″ 1010 - 4½, 6, 8½, 12″ 1017 - 4½, 6″

1220 - 41/2,"6,"81/2"

CASE MATERIAL

Stainless steel, aluminum, phenolic

TUBE MATERIAL

Bronze, stainless steel

SENSING ELEMENT

Bourdon tube

CONNECTION(1)

1/4 NPT lower or back 1/2 NPT lower or back

RANGES

30 in.Hg Vac/150 psi, 30 in.Hg Vac/300 psi

(1) 1017 back connect only



ACCURACY

ASME B 40.100 Grade 1A (±1% of span)

DIAL SIZE

41/2,"6,"81/2,"12"

CASE MATERIAL

Stainless steel, aluminum, phenolic

TUBE MATERIAL

Bronze, stainless steel, Monel

SENSING ELEMENT

Bourdon tube

CONNECTION

1/4 NPT lower or back 1/2 NPT lower or back

RANGES

Vac. to 30,000 psi

Uniquely designed for rigorous hydraulic

For monitoring pneumatic systems requiring percentage and/or square root readings.

For use on refrigeration equipment utilizing ammonia, freon or other refrigerants.

General industrial applications requiring larger dials. Applications include oil monitoring, repair and compressors, etc.



1017 4½, "6" General Service Gauge	1220 4½, "6," 8½" General Service Gauge	1020S 4½" XMAS TREE GAUGE	1038, 1339 3½,″ 4½,″ DUPLEX GAUGE
40 50 50 20 80 10 90 10 100 10 100 100	40 50 60 30 -20 80 -10 90 -10 90	300 MAASTHEE 800 900 900 900 900 900 900 900 900 900	15 20 15 15 05 15 15 15 15 15 15 15 15 15 15 15 15 15
ACCURACY ASME B 40.100 Grade 1A (±1% of span)	ACCURACY ASME B 40.100 Grade 1A (±1% of span)	ACCURACY ASME B 40.100 Grade 1A (±1% of span)	- ACCURACY ASME B 40.100 Grade A (±2-1-2% of span)
DIAL SIZE 4½,"6"	DIAL SIZE 4½," 6," 8½,"	ASIME B 40.100 Graue TA (±1 % 01 Spail)	DIAL SIZE 3½," 4½,"
CASE MATERIAL Stainless steel, aluminum, phenolic	CASE MATERIAL Stainless steel, aluminum, phenolic	CASE MATERIAL Stainless steel	CASE MATERIAL Aluminum, cast iron
TUBE MATERIAL Bronze, stainless steel, Monel	TUBE MATERIAL Bronze, stainless steel, Monel	TUBE MATERIAL 316 stainless steel	TUBE MATERIAL Bronze
SENSING ELEMENT Bourdon tube	SENSING ELEMENT Bourdon tube	SENSING ELEMENT Bourdon tube	SENSING ELEMENT Bourdon tube
CONNECTION ¼ NPT back ½,NPT back	CONNECTION ½ NPT lower or back ½NPT lower or back	CONNECTION ¼ NPT lower ½,NPT lower	CONNECTION 1/4 NPT lower or back RANGES
RANGES Vac. to 30,000 psi	RANGES Vac. to 30,000 psi	RANGES Up to 20,000 psi – ½,NPT, ¼ NPT	1038A – 3½," 4½," – ¼ NPT 30/1000 psi 1339A – 4½," – ¼ NPT 30/1000 psi Back conn. only
General industrial applications, large dials for easier readings. used on pumps, air or oil monitoring, etc. for panel mount applications.	General industrial applications, large dials for easier readings. used on pumps, air or oil monitoring, etc.	Uniquely designed to meet rugged oil field applications.	Uniquely designed to indicate two related pres sures on the same dial.



1125, 1125A 4½"	1127, 1128 4½,″6″	1130 2," 2½," 3½," 4," 4½," 6"	1131 2½, 3½, 4, 4½, 6
Differential gauge	Differential gauge	DIFFERENTIAL GAUGE	Differential gauge
40 50 60 70 88 90 100 100 100 100 100 100 100 100 100	15 20 25 30 30 30 30 30 30 30 30 30 30 30 30 30	PSID SS PSID S	PSID SHENOFT O
ACCURACY	ACCURACY	ACCURACY	ACCURACY
ASME B 40.100 Grade A (±2-1-2% of span)	ASME B 40.100 Grade A (±2-1-2% of span)	±2% ascending	±2% ascending
DIAL SIZE	DIAL SIZE 4½,"6"	DIAL SIZE	DIAL SIZE
4½,″6″		2," 2½," 3½," 4," 4½," 6"	2½,"3½,"4,"4½,"6″
CASE MATERIAL	CASE MATERIAL	CASE MATERIAL	CASE MATERIAL
Aluminum	Aluminum	Stainless steel	Stainless steel
TUBE MATERIAL	TUBE MATERIAL	BODY MATERIAL Aluminum, brass, stainless steel	BODY MATERIAL
Bronze	316 stainless steel		Aluminum, brass, stainless steel
SENSING ELEMENT Bourdon tube	SENSING ELEMENT Bourdon tube	SENSING ELEMENT Piston	SENSING ELEMENT Rolling diaphragm
CONNECTION	CONNECTION	CONNECTION	CONNECTION
1/4 NPT lower or back	1/4 NPT lower	In-line, lower, back	In-line, lower, back
RANGES 1125 – 4½,",6",1") – ½ NPT 20/1000 psi 1125A – 4½,",6",1") – ½ NPT 10/0/10 psi- 500/0/500 psi	RANGES 1127 – 4½,"6" – ½ NPT 10/1000 psi 1128 – 4½,"6" – ½ NPT 10/0/00 psi- 400/0/400 psi	RANGES 0-5 psid to 150 psid	RANGES 0-5 psid to 100 psid
(*) Lower connect only		EXPLOSION PROOF SWITCH ENCLOSURES AVAILABLE	EXPLOSION PROOF SWITCH ENCLOSURES AVAILABLE
Applications include filter monitoring, flow, leak and level measurements.	Applications include filter monitoring, flow, leak and level measurements.	Applications include filter monitoring, flow, leak and level measurement. High pressure, high differential with migration.	Applications include filter monitoring, flow, leak and level measurement. High pressure, high differential, no migration.



1132 2½, 3½, 4, 4½, 6 Differential Gauge	1133 3½," 4," 4½," 6" Differential gauge	1134 4½" Differential gauge	5503 100mm &160mm Differential gauge
A P IN HO	AP IN. H ₂ O	AP sides of eality AP sid	0,4 0,6 0,2 0,8 0,8 0,2 0,8
ACCURACY ±2% ascending	ACCURACY ±2% ascending	ACCURACY ±3% ascending	ACCURACY ±1.6% of span
DIAL SIZE 2½," 3½" 4," 4½," 6"	DIAL SIZE 3½," 4," 4½" 6"	DIAL SIZE 4½"	DIAL SIZE 100mm, 160mm
CASE MATERIAL Stainless steel	CASE MATERIAL Stainless steel	CASE MATERIAL Stainless steel	CASE MATERIAL Stainless steel
BODY MATERIAL Aluminum, brass, stainless steel	BODY MATERIAL Aluminum, stainless steel	BODY MATERIAL Glass filled nylon	SENSING MATERIAL 316 stainless steel
SENSING ELEMENT Convoluted diaphragm	SENSING ELEMENT Convoluted diaphragm	SENSING ELEMENT Convoluted diaphragm	SENSING ELEMENT Diaphragm
CONNECTION In-line, lower, back	CONNECTION In-line, lower, back	CONNECTION Dual (In-line or back)	CONNECTION 1/4 NPT lower
RANGES 0-1 psid to 60 psid (including inches of water ranges)	RANGES 0-1 IWD to 25 IWD	RANGES 0-0.6 IWD to 60 IWD	1/2 NPT lower RANGES 0-16 IWD to 400 psid
EXPLOSION PROOF SWITCH ENCLOSURES AVAILABLE			
Applications include filter monitoring, flow, leak and level measurement. High pressure, high differential, no migration.	Applications include filter monitoring, flow, leak and level measurement. High pressure, high differential, no migration.	Applications include fume hoods, air handlers, filter monitoring, flow and level. Inches of water with no migration.	Applications include filter monitoring, flow, leak and level measurement requiring high recovery, all stainless steel.



1150H 4½" Reid vapor gauge 1187, 1188, 1189 LOW PRESSURE BELLOWS GAUGES 5509 100mm &160mm 1122, 2½" GAUGE **DIFFERENTIAL GAUGE** 1188 GAUGE SHOWN **ACCURACY ACCURACY** ACCURACY ACCURACY ASME B 40.100 Grade 2A (±0.5% of span) ASME B 40.100 Grade A (±2-1-2% of span) Available with optional ASME B40.100 ASME B 40.100 Grade A (±2-1-2% of span) ±2.5% of span **DIAL SIZE** DIAL SIZE Grade 1A (1% of span) 100mm, 160mm DIAL SIZE **CASE MATERIAL CASE MATERIAL CASE MATERIAL** 1187⁽¹⁾ – 4½" 1188 – 4½" 1189⁽²⁾ – 4½," 6" Stainless steel Aluminum Stainless steel **SENSING MATERIAL TUBE MATERIAL TUBE MATERIAL** 316 stainless steel 316 stainless steel Stainless steel **CASE MATERIAL** Aluminum, phenolic SENSING ELEMENT SENSING ELEMENT SENSING ELEMENT Diaphragm Bourdon tube Bourdon tube TUBE MATERIAL Brass, 316 stainless steel, Monel CONNECTION CONNECTION CONNECTION 1/4 NPT lower 1/4 NPT lower 1/4 NPT lower SENSING ELEMENT ½ NPT lower Bellows RANGES RANGES **RANGES** 15/600 psi 15/1000 psi CONNECTION 0-10 IWD to 400 psid 1187 – ¼, ½ NPT back 1188 – ¼, ½ NPT lower or back 1189 - 1/4, 1/2 NPT lower 10 in.H₂O to 10 psi including vacuum and compound (1) Back connect only (2) Lower connect only Applications include filter monitoring, flow, Uniquely designed for testing petroleum prod-Applications include compressors, pumps Low pressure monitoring for general industrileak and level measurement requiring high ucts with the Reid vapor process. al applications on air, liquids or gases. and turbines. recovery, all stainless steel.



1490, 2½,"3½"LOW PRESSURE DIAPHRAGM GAUGE

1495, 2½, "3½" LOW PRESSURE RECEIVER GAUGE

TYPES 2074, 2174, 2274 **INDUSTRIAL DIGITAL GAUGE**

TYPE DG25 **GENERAL PURPOSE** DIGITAL GAUGE



ACCURACY

ASME B 40.100 Grade A (±2-1-2% of span) Available with optional ASME B40.100 Grade 1A (1% of span)

DIAL SIZE 21/2,"31/2,

CASE MATERIAL

Polysulfone

WETTED MATERIAL

Copper, Brass, Polysulfone, RTV, Silicone

SENSING ELEMENT

Diaphragm

CONNECTION

1/8 NPT lower or center back 1/4 NPT lower or center back Hose barb

RANGES

0/10 in.H₂O to 0/15 psi including vacuum and compound



ACCURACY

ASME B 40.100 Grade A (±2-1-2% of span) Available with optional ASME B40.100 Grade 1A (1% of span)

DIAL SIZE

21/2," 31/2,"

CASE MATERIAL

Polysulfone

WETTED MATERIAL

Copper, Brass, Polysulfone, RTV, Silicone

SENSING ELEMENT

Diaphragm

CONNECTION

1/8 NPT lower or center back 1/4 NPT lower or center back Hose barb

RANGES

0-100%, 0-10 sq rt 0/10 sq rt /0-100 linear



ACCURACY:

±0.25% of span

CASE SIZE

3."41/2."

CASE MATERIAL

(3") 300 series stainless steel (4½°) fiberglass reinforced thermoplastic

(4¹/₂") black painted aluminum

WETTED MATERIALS 17-4 PH stainless steel sensor:

316 stainless steel socket

SOCKET SIZE

1/4 NPT, 1/2, NPT (41/2" case only) Others on application

CONNECTION

Lower (6 o'clock), top, side

RANGES

Vac. and 15 psi thru 20,000 psi including compound

POWER SOURCE

Battery (3") Two AA alkaline batteries (4½,") Two C alkaline batteries Loop powered 4-20mA Line powered, (12-36 Vdc, 1 amp)

BATTERY LIFE

(3″) 500 hrs. (4½″) 2500 hrs.

OPERATING TEMPERATURE

14/140°F (-10/60°C)

STORAGE TEMPERATURE -4/158°F (-20/70°C)

AGENCY APPROVALS

EN 50082-1 (1997) optional, FM, CSA

LOOK FOR THESE MARKS ON OUR PRODUCTS







ACCURACY

±0.5% of span or ±0.25% span

CASE SIZE

CASE MATERIAL

Polycarbonate/ABS

WETTED MATERIALS

17-4 PH stainless steel sensor: 316 stainless steel socket

SOCKET SIZE

1/4 NPT, 1/8 NPT, G1/4A, G1/4B, 9/16-18 UNF

CONNECTION

Lower (6 o'clock) (others on application)

RANGES

Vac. thru 25,000 psi, including compound

POWER SOURCE

Two AA alkaline batteries

BATTERY LIFE

2000 hrs.

OPERATING TEMPERATURE (Media)

-4/176°F (-20/80°C)

STORAGE TEMPERATURE

(Batteries Removed) -4/140°F (-20/00°C)

AGENCY APPROVALS

CE, EN 61326 (1998)

CE, EN 61326 Annex A (heavy industrial) UL-61010-1A







Low pressure monitoring of gases including ovens, burners or medical applications.

Low pressure monitoring of pneumatic or air handling systems requiring linear or square root readings.

Available with optional (1) or (2) SPDT switches and 4-20mA output, this gauge is ideal for many industrial applications. This product eliminates the need for unnecessary instrument T's, when switches and/or 40-20mA output is a requirement.

This product is an excellent choice for a wide variety of pressure measurement applications. When compared to mechanical gauges the DG25 offers overall enhanced value.



Quick Guide Sanitary Gauges

TYPE 2030 SERIES DIGITAL **SANITARY GAUGE**



ACCURACY

±0.25% of span terminal point accuracy

DIAL SIZE

CASE MATERIAL/FINISH

(3") 300 series SS, electropolished

WETTED MATERIALS

316L stainless steel

TRI-CLAMP CONNECTION

Direct, in-line 1.5", 2.0"; remote in-line (XRE)

15 psi thru 1000 psi including metric, compound and vacuum

POWER SOURCE

2032 Battery 2132 4-20mA loop powered 2232 12-36 Vdc

BATTERY LIFE

OPERATING TEMPERATURE

14°F/140°F (-10°C/60°C)

STORAGE TEMPERATURE

-4°F/158°F (-20°C/70°C)



LOOK FOR THIS MARK ON OUR PRODUCT

TYPE 1032 FRACTIONAL SANITARY GAUGE



ACCURACY

±3% upscale accuracy; up to ±5% downscale accuracy

DIAL SIZE

2"only

CASE & RING MATERIAL

300 series stainless steel

TUBE & SOCKET MATERIAL

316 stainless steel

WETTED PARTS

Electropolished 12 to 20RA surface finish 316 stainless steel

MOUNTING CONNECTION

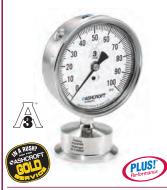
Lower (3/4"Tri-Clamp®) only

RANGES

30# thru 600#, including compound

Meets EN 10204: 2004 3.1 requirement for material traceability; documents provided as standard

TYPE 1032 SANITARY GAUGE



ACCURACY

 $2\frac{1}{2}$ ", $3\frac{1}{2}$ ", $4\frac{1}{2}$ " – ± 1.5 % F.S. for pressure ranges 100 psi and above, ±2.0% F.S. for vacuum, compound and ranges below 100 psi

DIAL SIZE

21/2", 31/2", 41/2"

CASE & RING MATERIAL

300 series stainless steel

TUBE & SOCKET MATERIAL

316 stainless steel

WETTED PARTS

Electropolished 12 to 20 RA surface finish 316 stainless steel

MOUNTING CONNECTION

Lower and back (11/2" or 2"Tri-Clamp®)

RANGES

15# thru 1000#, including compound and vacuum

Meets EN 10204: 2004 3.1 requirement for material traceability; documents provided as

TYPE 1036 SANITARY GAUGE with TYPE 1037 SANITARY INSTRUMENT FITTING



TYPE 1036 SANITARY GAUGE

ACCURACY

±1.5% F.S. for pressure ranges 100 psi and above. ±2.0% F.S. for vacuum, compound and ranges below 100 psi

DIAL SIZE

31/2"

CASE & RING MATERIAL

300 series stainless steel

TUBE & SOCKET MATERIAL

316 stainless steel

WETTED PARTS

Electropolished 12 to 20 RA surface finish 316 stainless steel

MOUNTING CONNECTION

Lower, back (11/2"Tri-Clamp®)

RANGES

15# thru 1000#, including compound and vacuum

TYPE 1037 INSTRUMENT FITTING

CONSTRUCTION

316 L stainless steel

WETTED PARTS

Electropolished 12 to 20RA surface finish

MOUNTING CONNECTION

(½"thru 2"Tri-Clamp®)

HEAT NUMBER

Stamped on fitting

Meets EN 10204: 2004 3.1 requirement for material traceability; documents provided as standard

Sanitary pharmaceutical, biotech or food applications requiring Tri-Clamp® type fittings and highly polished stainless steel surfaces.

Sanitary pharmaceutical, biotech or food applications requiring Tri-Clamp® type fittings and highly polished stainless steel surfaces. Can be autoclaved. Standard window glass.

Sanitary pharmaceutical, biotech or food applications requiring Tri-Clamp® type fittings and highly polished stainless steel surfaces. Can be autoclaved with polysulfone window.

Sanitary pharmaceutical, biotech or food applications requiring Tri-Clamp® type fittings with zero deadleg and highly polished stainless steel surfaces.



Quick Guide Commercial Gauges

addition to glass window, necessary for

anhydrous ammonia applications.

TYPE 1001T TYPE 1008A/AL TYPE 1005M, XRG TYPE 1005P/1005/1005S AGRICULTURAL AMMONIA PANEL GAUGE **GENERAL SERVICE GAUGE ACCURACY ACCURACY ACCURACY** ASME B 40.100 Grade B (±3-2-3% of span) **DIAL SIZE DIAL SIZE** DIAL SIZE 1½," 2", 2½," 3½" (4½" available with steel case/ring and plastic window, Type 1000) 11/2," 2," 21/2," 31/2" 63mm (2½"), 100mm (4") **CASE MATERIAL CASE & RING MATERIAL CASE MATERIAL CASE MATERIAL** 304 stainless steel, dry, liquid filled or field Black painted steel Black painted steel 1005P – ABS, black 1005 – Black painted steel 1005S – Stainless steel (1½" & 2" only) WETTED MATERIAL WETTED MATERIAL WETTED MATERIAL Bronze/brass. 316 stainless steel/steel Optional, color other than black, vent hole, panel Bronze/brass SENSING ELEMENT SENSING ELEMENT mount sleeve for 1005P back connect **SENSING ELEMENT** Bourdon tube; Ashcroft patented Power Flex* Bourdon tube; Ashcroft patented PowerFlex** Bourdon tube; Ashcroft patented PowerFlex™ movement WETTED MATERIAL Bronze/brass. Optional sockets, nickel plated, Teflon taped, top or side 1/8 NPT back, 1/4 NPT back (11/2" not available CONNECTION 1/4 NPT lower connections, throttle plugs in 1/4 NPT) 1/4 NPT lower and back Optional, 0.020" orifice stainless steel Optional, metric and SAE connection SENSING ELEMENT throttle plug **RANGES** Bourdon tube; Ashcroft patented PowerFlex™ Vac.-6000 psi and compound* RANGES RANGES movement Vac.-15,000 psi and compound 0/60 psi, 0/150 psi, 0/400 psi **Note:** For panel mount refrigeration gauge (recovery, recycling) specify 1001T, XRR gauge CONNECTION $rac{1}{2}$ and $rac{1}{4}$ NPT back and lower (1 $rac{1}{2}$ *All ranges may not be available in all ranges/connec-1005S available in 1/8 NPT back only; 11/2" 1005/1005P available in 1/8 NPT lower and back; 41/2 "Type 1000 available in 1/4 NPT only) tions. Please consult individual spec sheets **RANGES** Vac.-6000 psi and compound* *All ranges listed may not be available in all sizes/ connections. Please consult individual spec sheets. This product was designed to withstand rugged agricultural applications. Features include stainless tube and socket, in Applications include compressors, filter Applications include hydraulic systems. Applications include instrument panels, regulators, medical equipment, automotive machine tools, pressure washers/sprayers air-conditioning equipment, air and gas

and a variety of other applications.

compressors machine tools and a variety

of other applications.

diagnostic, beverage dispensing, industrial

machinery and a variety of other applications.



Quick Guide Commercial Gauges

TYPE 1005P, XUL Sprinkler Service Gauge



ACCURACY

ASME B 40.100 Grade B (±3-2-3% of span)

DIAL SIZE

21/6"

CASE MATERIAL

ABS/polycarbonate blend

WETTED MATERIAL

Bronze/brass

SENSING ELEMENT

Bourdon tube; Ashcroft patented Power Flex**
movement

CONNECTION

1/4 NPT lower

RANGES

0-300 psi (water), 0-80 psi retard to 250 psi (air), 0-600 psi Optional, dual and triple scale metric dials

TYPE 1007P, XOR REFRIGERATION MANIFOLD



ACCURACY

 $\pm 1\%$ at zero, $\pm 2\%$ three fourths of scale, $\pm 5\%$ last fourth of scale

DIAL SIZE

21/2"

CASE MATERIAL

ABS, red (high pressure) ABS, blue (low pressure) Optional, black, ABS

WETTED MATERIAL

Bronze/brass

SENSING ELEMENT

Bourdon tube; Ashcroft patented PowerFlex™ movement with FlutterGuard™

CONNECTION

1/8 NPT lower

RANGES

Vac/0/120 psi retard to 250 psi, 0/500 psi Vac/0/500 psi retard to 800 psi, 0/800 psi Optional, alternate refrigerant ranges

Note: for panel mount refrigeration gauges (recovery, recycling) see Type 1001T gauge. Specify 1001T, XRR gauge

TYPE 2071 CONTRACTOR GAUGE



ACCURACY

ASME B 40.100 Grade A (±2-1-2% of span)

DIAL SIZE

41/5"

CASE & RING MATERIAL

Aluminum with back-flange case, painted black; chrome plated ring

WETTED MATERIAL Bronze/brass soldered, siphon required for steam service

SENSING ELEMENT

Bourdon tube; Ashcroft patented Power Flex**
movement

CONNECTION

1/4 NPT lower Optional, throttle plugs

RANGES

Vac-600 psi and compound

TYPE 23DDG MINIGAUGE® PRESSURE GAUGE



ACCURACY ±5% of span

DIAL SIZE

23mm (0.906")

CASE MATERIAL ABS blend, black

WETTED MATERIAL

Beryllium copper tube/brass socket

SENSING ELEMENT

Spiral wound Bourdon tube

CONNECTION

1/8 NPT back with 15mm (9/16) wrench flats. Optional, throttle plugs, PT 1/8" (JIS) and R 1/8" (BSPT) threads

RANGES

60 psi-100 psi (180° dial arc) 160 psi-300 psi (235° dial arc)

Consult factory for high cycle life applications

These gauges are UL-393 listed, UL of Canada listed and FM approved for fire protection sprinkler service for either water or air systems.

Typical applications include checking or servicing refrigerant levels in automotive, residential or industrial air-conditioning units; refrigerant recovery and reclamation units; refrigerant transport systems and large scale air-conditioning and chilling equipment.

These gauges are designed to meet the needs of heating, ventilating, plumbing and air-conditioning contractors.

These gauges are perfect for a multitude of applications where a 1½ conventional size gauge is too large, such as mini-FRL's, pneumatic stack valves, air compressors and accessories.



Quick Guide Commercial Gauges

TYPE 12DDG/15DDG DIRECT DRIVE GAUGE



ACCURACY

Standard: ±2% at setpoint (setpoint is normally 50% of range) UL listed: ±3.5% of span of middle three-fifths of scale

DIAL SIZE

11/4," 11/2"

CASE MATERIAL

WETTED MATERIAL

Beryllium copper tube/brass socket

SENSING ELEMENT

Spiral wound Bourdon tube Optional, silicone dampened tube, silicone-filled tube

CONNECTION

1/8 NPT back, safety plug in 1500 psi-4000 psi ranges. Optional, 1/4 NPT back, throttle plugs

RANGES
0/60 psi (180° arc)
0/100 psi, 0/160 psi, 0/200 psi,
0/300 psi, (235° arc)
0/700 psi (200° arc)
0/1,200 psi (180° arc)
0/1,500 psi 0/2,000 psi, 0/3,000 psi, 0/4,000 psi (165° arc)

Consult factory for high cycle life applications

Applications include pumps, air compressors, portable tire inflators, portable oxygen equipment, self-contained breathing apparatus, portable industrial gas cylinders and a variety of other applications.



Specification Matrix

Ashcroft Diaphragm Seals & Pressure Instrument Isolators

F = Female

• = AVAILABLE







READED





F = Female M = Male ■ = AVAI	LABLE					
Process Connect	tion Type	Threaded	Threaded w/Flushing Connection	Threaded or Threaded	Threaded or Threaded	Low Pressure Threaded or
Model No.	Code	100/200/300(1)	101/201/301 ⁽¹⁾	w/Flushing Connection 400/401(1)	w/Flushing Connection 500/501(1)	Threaded w/Flushing Conn.* 740/741(1)
Process Connection Size	Female Male	100/200/000	101/201/001	400/401	000/001	140/141
1/4	25 02	F/M	F/M	F/M	F/M	F
1/2	50 04	F/M	F/M	F/M	F/M	F
3/4	75 06	F/M	F/M	F/M	F/M	F
1	10 08	F/M	F/M	F/M	F/M	F
11/2	15					
2	20					
3	30					
4	40					
6	60					
8	80					
Diaphragm Materials						
316L stainless steel	S	100 & 200	101 & 201	•	•	•
304L stainless steel	С	100 & 200	101 & 201			
Monel 400	Р	100 & 200	101 & 201	•		•
Nickel	N	100 & 200	101 & 201			
Carpenter 20	D	100 & 200	101 & 201			
Tantalum	U	100 & 200	101 & 201	•	•	•
Hastelloy B	G	100 & 200	101 & 201			•
Hastelloy C 22	J	100 & 200	101 & 201	•		•
Hastelloy C 276	Н	100 & 200	101 & 201			•
Teflon	Т	200 & 300	201 & 301			
Viton	Y	200 & 300	201 & 301			
Kalrez	К	200 & 300	201 & 301			
Titanium	TI	200	201			
Halar Coated Monel	R	100	101			
Bottom Housing Materials						
Steel	В	•	•			
304L stainless steel	С	•	•			
316L stainless steel	S	•	•			
Hastelloy B	G	•				
Hastelloy C 22	J	•				
Hastelloy C 276	Н	•				•
Carpenter 20	D					
Monel 400	M	•				
Inconel 600	W	•				
Nickel	N					
PVC	V	Only 1/4 or 1/2 NPT				
Kynar	KY	Only 1/4 or 1/2 NPT				
Titanium	TI	• •	•			
Pressure Ratings (1)	.,					
500 psi		Viton or Kalrez diaph.	Viton or Kalrez diaph.		•	
2500 psi		Metal & Teflon® diaph.	Metal & Teflon® diaph.			750 psi
4400 psi		wetar & renon diapn.	ivicial & Ichon diaph.			7 30 psi
5000 psi	HP	100 & 200 metal diaph.	101 & 201 metal diaph.	401		
9000 psi	HP	100 & 200 metar diapn.	101 & 201 metardiapii.	400		
Instrument Connection Size	111			400		
1/4	02T	•			•	
1/2	02T	•		•		
Filling Fluid	U4 I					
Glycerin	CG					•(4)
Silicone (direct to 10' capillary)		•				6(-7)
	DJ	•	•		•	
Silicone (over 10' capillary) Halocarbon	CF	•	•	•	•	•
		•	•	•	•	•
Syltherm	HA	•	•	•	•	•
Food Grade Silicone	CZ	•	•	•	•	:
Distilled Water	FJ			•		
Ethylene Glycol & Water	CT	•	•	•	•	•
Propylene Glycol	CV	•	•	•	•	•

⁽i) See Table A on pages 170-171 of OH-1 for instrument compatibility. Minimum pressure is determined by the instrument that will be attached to the diaphragm seal.

⁽⁴⁾ Glycerin not recommended for vacuum, compound or inches of water.



			т	HREADE	D —	
Specification Ma Ashcroft Diaphragm Se Pressure Instrument Isola	als & ators					
F = Female M = Male	ABLE		[1]	386.	386	
Process Connect		Diaphragm Seal	Diaphragm Seal	Diaphragm Seal (w/Flushing Connection)	Diaphragm Seal (w/Flushing Connection)	Female & Male Threaded
Model No. Process Connection Size	Code. Female Male	510 ⁽¹⁾	510HP ⁽¹⁾	511	511HP	311
1/4	25 02					F/M
1/2	50 04	М	M	M	M	F/M
3/4	75 06					F/M
1	10 08					F/M
1½ 2	15 20					
3	30					
4	40					
6	60					
8	80					
Diaphragm Materials						
316L stainless steel	S	•	•	•	•	•
304L stainless steel	С					
Monel 400	P	•	•	•	•	
Nickel	N					
Carpenter 20 Tantalum	D U					
Hastelloy B	G					•
Hastelloy C 22	J					
Hastelloy C 276	Н	•		•		•
Teflon	Т					
Viton	Υ					
Kalrez	K					
Titanium	TI					
Halar Coated Monel	R					
Bottom Housing Materials	P					
Steel 304L stainless steel	B C					
316L stainless steel	S	•				
Hastelloy B	G					
Hastelloy C 22	J					
Hastelloy C 276	Н	•	•	•	•	•
Carpenter 20	D					
Monel 400	М	•	•	•	•	
Inconel 600	W					
Nickel	N V					
PVC Kynar	V KY					
Titanium	TI					
Pressure Ratings (1)		<u> </u>		<u> </u>		<u>' </u>
500 psi						
1000 psi						•
1500 psi		•		•		
2500 psi	LID					
5000 psi 9000 psi	HP HP		•		•	
Instrument Connection Size	nr nr					
1/4	02T					•
1/2	04T	•	•	•	•	•
Filling Fluid						
Glycerin	CG	•		•	•	•
Silicone (direct to 10' capillary)	СК	•	•	•	•	•
Silicone (over 10' capillary)	DJ	•	•	•	•	•
Halocarbon	CF	•	•	•	•	•
Syltherm Food Grade Silicone	HA CZ	•	•	•	•	•
Distilled Water	FJ	•				
Ethylene Glycol & Water	CT	•		•	•	•
Propylene Glycol	CV	•				•
		+	+		+	+

⁽i) See Table A on pages 170-171 of OH-1 for instrument compatibility.

Minimum pressure is determined by the instrument that will be attached to the diaphragm seal.

Type 300 series not available with metallic diaphragms.

Type 302/303 not available with 1" process size.



Specification Matrix

Ashcroft Diaphragm Seals & Pressure Instrument Isolators

F = Female

A = AVAII ARI F









THREADED







= Female				SHCROFT SHEET			2
Process Connect	ion Type		Female Threaded (w/Flushing Connection)	Male/Female Threaded Mini (w/Flushing Connection)	1″ Male Flush Mini	Quick Connect	In-line Threaded
Model No.	Co	de	312	310/315*	330	320/321	104/204
Process Connection Size	Female	Male					
1/4	25	02	F	F/M			F
1/2	50	04	F	F/M			F
3/4	75	06		M			
1	10	08		M	М		
1½	15						
2	20					•	
3	30						
4	40						
6	60						
8	80						
Diaphragm Materials							
316L stainless steel		S	•	•	•	•	•
304L stainless steel	(0					•
Monel 400	F	P					•
Nickel	1	N					•
Carpenter 20	1)					•
Tantalum		J	•				•
Hastelloy B		3 3					
		J		-			-
Hastelloy C 22							·
Hastelloy C 276		H -	•	•			•
Teflon		Г					204
Viton		Y					204
Kalrez	H	K					204
Titanium	1	ГΙ					•
Halar Coated Monel	F	R					104
Sottom Housing Materials							
Steel		В					•
304L stainless steel		0					•
316L stainless steel		S			•		
Hastelloy B		3 3	-			-	-
Hastelloy C 22		J					•
Hastelloy C 276		Н	•	•			•
Carpenter 20		D					•
Monel 400		M		•			•
Inconel 600	٧	V					•
Nickel	1	N					•
PVC	١	V					
Kynar	K	Y					
Titanium		ГІ					
ressure Ratings (1)							
500 psi							Viton or Kalrez diaph.
							VILUII UI Kailez ulapii.
1000 psi			•			•	
2500 psi				•			Metal & Teflon® diaph.
3000 psi					•		
5000 psi		IP					
9000 psi	Н	IP					
strument Connection Size							
1/4	02	2T	•	•	•	•	•
1/2	04	4T	•	•	•	2" only	•
illing Fluid						_ 5,	
Glycerin	0	G	•		•	•	•
			•	•	•	•	•
Silicone (direct to 10' capillary)		K					
Silicone (over 10' capillary))J	•	•	•	•	•
Halocarbon		F	•	•	•	•	•
Syltherm		IA	•	•	•	•	•
		-			•	•	
Food Grade Silicone	C	iZ					
		;Z ⁻ J	•	•	•	•	•
Food Grade Silicone	F						•

⁽¹⁾ See Table A on pages 170-171 of OH-1 for instrument compatibility.

Minimum pressure is determined by the instrument that will be attached to the diaphragm seal.

(2) Type 300 series not available with metallic diaphragms.

⁽³⁾ Type 302/303 not available with 1" process size.



Specification Matrix

Ashcroft Diaphragm Seals & Pressure Instrument Isolators

F = Female

• = AVAILABLE







FLANGED





Media No. Guide	I = Male	E					
No.	Process Connection	п Туре	Raised Face Flange	Raised Face Flange w/Flushing Connection	In-Line Flanged	Raised Face Flange *w/Flushing Connection	Low Pressure Flanged *w/Flushing Connection
15	Model No.	Code	102/202/302(1,2)	103/203/303(1,2)	106/206		
1	rocess Connection Size						
14 75							
1			•	•	•	•	•
1½ 15 2 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			•	•	•	•	•
2 20			•	•	•	•	•
3 30			•	•	•	•	•
4 40		20	•	•	•	•	•
B B0			•	•	•	•	•
B	4	40			•		
					•		
314L stainless steel S		80			•		
Sold-stainless steel	Diaphragm Materials						
Monel 400 P 102 & 202 103 & 203	316L stainless steel		102 & 202	103 & 203	•	•	•
Nickel N 102 & 202 103 & 203	304L stainless steel	С	102 & 202	103 & 203	•		
Carpenter 20			102 & 202	103 & 203	•	•	•
Tantalum U	Nickel	N	102 & 202	103 & 203	•		
Hastelloy B G 102 & 202 103 & 203 	Carpenter 20		102 & 202	103 & 203	•		
Hastelloy C 22	Tantalum		102 & 202	103 & 203	•	•	•
Hastelloy C 276 H 102 & 202 103 & 203	Hastelloy B	G	102 & 202	103 & 203	•	•	•
Telion T	Hastelloy C 22	J	102 & 202	103 & 203	•	•	
Vion Y	Hastelloy C 276	Н	102 & 202	103 & 203	•	•	•
Kairez K 202 & 302 203 & 303 206	Teflon	T	202 & 302	203 & 303	206		
Titanium Ti 202 203 206	Viton	Υ	202 & 302	203 & 303	206		
Halar Coated Mone R	Kalrez	K	202 & 302	203 & 303	206		
Steel B	Titanium	TI	202	203	206	•	•
Steel B	Halar Coated Monel	R	102	103	106		
304L stainless steel S	Sottom Housing Materials						
316L stainless steel S	Steel	В	•	•	•		
Hastelloy C 22	304L stainless steel	С	•	•	•		
Hastelloy C 22	316L stainless steel	S	•	•	•	•	•
Hastelloy C 276	Hastelloy B	G	•	•	•	•	•
Carpenter 20	Hastelloy C 22	J	•	•	•	•	•
Monel 400 M	Hastelloy C 276	Н	•	•	•	•	•
Incone 600 W	Carpenter 20	D	•	•	•		•
Nickel N	Monel 400	M	•	•	•	•	•
PVC	Inconel 600	W	•	•			
Kynar KY	Nickel	N	•	•			
Titanium TI	PVC	V	1, 1½, 2				
Solition Companies Compa	Kynar	KY	1, 1½, 2				
Solicone Capillary Capillary DJ Capillary Capillary DJ Capillary Capillary DJ Capillary Capillary	Titanium	TI	•	•		•	•
2500 psi	ressure Ratings ⁽¹⁾						
Silicone (direct to 10' capillary)	500 psi						
150, 300, 600, 900 or 1500 150, 300, 600	2500 psi						
1/2 02T	lange Class						
1/4 02T • <td>150, 300, 600, 900 or 1500</td> <td></td> <td>•</td> <td>•</td> <td>150</td> <td>•</td> <td>150, 300, 600</td>	150, 300, 600, 900 or 1500		•	•	150	•	150, 300, 600
½ 04T •	nstrument Connection Size						
Silicone (direct to 10' capillary)	1/4	02T	•	•	•	•	•
Glycerin CG	1/2	04T	•	•	•	•	•
Glycerin CG	illing Fluid						
Silicone (direct to 10' capillary)		CG	•	•	•	•	•
Silicone (over 10' capillary) DJ • <th< td=""><td></td><td></td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></th<>			•	•	•	•	•
Halocarbon CF • <th< td=""><td></td><td></td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></th<>			•	•	•	•	•
Syltherm HA •			•	•	•	•	•
Food Grade Silicone CZ •			•	•	•	•	•
Distilled Water FJ •	·		•	•	•	•	•
Ethylene Glycol & Water CT • • • • • • •							
							•
PTODVIENE CIVCOL GV	Propylene Glycol	CV		•	•		

 ⁽¹⁾ See Table A on pages 170-171 of OH-1 for instrument compatibility.
 Minimum pressure is determined by the instrument that will be attached to the diaphragm seal.
 (2) Type 300 series not available with metallic diaphragms.
 (3) Type 302/303 not available with 1" process size.



Specification Matrix

Ashcroft Diaphragm Seals & Pressure Instrument Isolators

F = Female M = Male

• = AVAILABLE









)			
		Saddle	In-line Socket Weld	In-line Butt Weld	Isolation Ring
		105/205	107/207	108/208	80/81
Process Connection Size		103/203	101/201	100/200	
	0.5		•	•	Pipe Size (inches)
1/4	25				2.0 Type 80 only
1/2	50		•	•	3.0 12.0
3/4	75		•	•	4.0 14.0
1	10		•	•	5.0 16.0
11/2	15		•	•	6.0 18.0
2	20		•	•	8.0 20.0
3	30	3″			10.0
4	40	4" and larger			
6	60	Ü			
8	80				
Diaphragm Materials	00				Inner Flexible Wall
316L stainless steel	S	•		•	Buna N (E)
		•	·		
304L stainless steel	С	•	•		Teflon (T)
Monel 400	Р	•	•	•	Viton (Y)
Nickel	N	•	•	•	Natural Rubber (NP)
Carpenter 20	D	•	•	•	Silicone (S)
Tantalum	U	•	•	•	
Hastelloy B	G	•	•	•	
Hastelloy C 22	J	•	•	•	
Hastelloy C 276	Н	•	•	•	
Teflon	T	205	207	208	
Viton	Y	205	207	208	
Kalrez	K	205	207	208	
	TI				
Titanium		205	207	208	
Halar Coated Monel	R	105	107	108	
Bottom Housing Materials					Ass'y. Flanges / Code
Steel	В	•	•	•	Carbon Steel (B)
304L stainless steel	С	•	•	•	316 SS (S)
316L stainless steel	S	•	•	•	CPVC (CP)
Hastelloy B	G	•	•	•	Teflon Enveloped (CT)
Hastelloy C 22	J	•	•	•	Polypropylene (P)
Hastelloy C 276	Н	•	•	•	
Carpenter 20	D	•	•	•	
Monel 400	M	•	•	•	
Inconel 600	W			•	
Nickel	N				
PVC	V			-	
Kynar	KY				
Titanium	TI				
Pressure Ratings (1)					
500 psi		Viton or Kalrez diaph. only	Viton or Kalrez diaph. only	Viton or Kalrez diaph. only	
2500 psi		Metal & Teflon® diaph.	Metal & Teflon® diaph.	Metal & Teflon® diaph.	
Flange Class					
150, 300, 600, 900 or 1500					150 or 300
Instrument Connection Size					
1/4	02T	•	•	•	1/4 NPT (02T)
1/2	04T	•		•	1/2 NPT (04T)
Filling Fluid					()
Glycerin	CG	•	•		
Silicone (direct to 10' capillary)	СК		•	•	•
Silicone (over 10' capillary)	DJ	•	•	•	•
Halocarbon	CF	•	•		•
Syltherm	HA	•	•	•	•
Food Grade Silicone	CZ	•	•	•	•
Distilled Water	FJ	•	•	•	•
Ethylene Glycol & Water	CT	•	•	•	•
Propylene Glycol	CV	•	•	•	•

⁽¹⁾ See Table A on pages 170-171 of OH-1 for instrument compatibility.

Minimum pressure is determined by the instrument that will be attached to the diaphragm seal.
(2) Type 300 series not available with metallic diaphragms.
(3) Type 302/303 not available with 1 r process size.



Quick Guide Transducers & Transmitters

MODEL GC31 ULTRA-COMPACT DIGITAL PRESSURE SENSOR

ACCURACY: ±1.0% Span

ANALOG OUTPUT: (1-5Vdc)

50 to 1500 psia

Proof Pressure:

Burst Pressure:

SWITCH CONTACTS:

(sensor diaphragm)

AGENCY APPROVALS: CE

10X range

STANDARD RANGES (Gauge):

2X range: 500 psi & below

1.5X range: 1000 psi & above

DISPLAY TYPE: 3½ digit, 10mm LED

STANDARD RANGES (Compound): -15 to 15 psig thru -15 to 300 psig

(2) NPN or PNP open collector outputs

MEDIA: Fluids and gases compatible with

304SS (sensor housing) and 17-4 pH SS

ENVIRONMENTAL RATING: IP40



MODEL GC35 ULTRA-COMPACT

DIGITAL PRESSURE SENSOR

ACCURACY: ±1.0% Span ANALOG OUTPUT: (4-20mA) DISPLAY TYPE: 4 digit, 8mm LED

STANDARD RANGES (Gauge): 50 to 7500 psig

STANDARD RANGES (Compound): -15 to 75 psig thru -15 to 300 psig **Proof Pressure**:

Ranges 1500 psig & below: 4X range Ranges 3000 psig & above: 2.5X range **Burst Pressure:**

Ranges 1500 psi & below: 10X range Ranges 3000 psi & below: 5X range Ranges 5000 psi & above: 3X range

SWITCH CONTACTS:

(2) NPN or PNP open collector outputs MEDIA: Fluids and gases compatible with 304SS (sensor housing) and 17-4 pH SS (sensor diaphragm)

ENVIRONMENTAL RATING: IP40

AGENCY APPROVALS: CE



TYPE GC51 RANGEABLE PRESSURE TRANSMITTER



ACCURACY: ±0.25% Span (URL)0 ANALOG OUTPUT: 4-20mA (2-wire)

DISPLAY TYPE: 4 digit, 10mm LCD with LED backlight

STANDARD RANGES (Compound): -15 to 15 psi thru -15 to 50 psi

STANDARD RANGES (Gauge):

50 to 7500 psig **Overpressure (Span):** Proof Burst 1500 psi and below 200% 500% 3000, 5000 psi 150% 300%

120%

150%

ENVIRONMENTAL RATING: IP65 / NEMA 4X

MEDIA: Fluids and gases compatible with 316SS and pH17-4 stainless steel

AGENCY APPROVALS:

7500 psi

TYPE GC55 WET/WET DIFFERENTIAL PRESSURE TRANSDUCER



ACCURACY: ± 0.5% Span

ANALOG OUTPUT: (4-20mA or 1-5Vdc)

DISPLAY TYPE: 3½ digits

STANDARD RANGES (Differential):

75 to 300 psid Pressure Range

Burst Proof 2X Span (URL)

10X Span (URL) Static (Line) Pressure Effects: None

Single Side (Differential Limits): Pressure Range

Proof **Burst** 2X Span (URL) 10X Span (URL)

MEDIA: Fluids and gases compatible with 304SS (sensor housing) and 17-4 pH SS (sensor diaphragm)

ENVIRONMENTAL RATING: IP66

This ultra-compact pressure sensor is used on a wide variety of applications where consistent, reliable pressure measurement is essential. The GC31 features an integral display, user scalable analog ouput and two independent switches. Ideal for monitoring and control of pneumatic and hydraulic systems where high cycle life and functionality is required.

Ultra-compact digital pressure sensor, ideal for monitoring pressures within hydraulic presses/stamping equipment and lifts, water/wastewater pressure control and cooling / lubrication systems. This versatile sensor offers a highly visible LED display for local indication. Product features allow the user to configure the analog scaling to any range within the full scale of the sensor range while integrated switches offer actuation and deadband to any points within the full scale range.

Compact pressure transmitter used to monitor wet/dry media pressures within process automation, hydraulic systems, compressors, pumps and tank level applications.

Compact high-differential pressure transducer for filter monitoring on HVAC hydronic cooling/heating systems and pump controls. Model contains two polysilicon thin film sensors with welded Stainless Steel wetted components to accommodate wet or dry pressure media. The product features a bright LED front panel display for local indication and button to allow the user to select between the dP value and line pressure readings from either sensor.



Quick Guide Transducers & Transmitters

A2 HEAVY INDUSTRIAL AND EXPLOSION PROOF TRANSMITTERS



ACCURACY: ±0.25, ±0.5, ±1.0% Span

OUTPUT: 4-20mA. 0-5Vdc. 0-10Vdc. 1-5Vdc, 1-6Vdc, 0.5-4.5Vdc (ratiometric)

STANDARD RANGES:

15 to 7500 psi absolute, 1.5 to 10,000 psig, compound to 100 psig

Overpressure: (Varies w/pressure range) Proof: up to 2 x Span Burst: up to 4 x Span

ENVIRONMENTAL RATING: IP65, IP67*, NEMA 4X, 6, 7, 9

AGENCY APPROVALS: CE

*varies with pressure range



A2X EXPLOSION/FLAME PROOF PRESSURE TRANSMITTER



ACCURACY: ±0.25, ±0.5, ±1.0% Span

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

STANDARD RANGES:

15 to 7500 psi absolute, 1.5 to 10,000 psig, compound to 100 psig

Overpressure: (Varies w/pressure range) Proof: up to 2 x Span Burst: up to 4 x Span

ENVIRONMENTAL RATING:

Ingress Protection Rating: IP65; NEMA 7,9

AGENCY APPROVALS: Explosion Proof – cUL (USL/CNL):

Flame Proof – ATEX: Intrinsically Safe – FM (4-20mA) - CE

LOOK FOR THESE MARKS ON OUR PRODUCTS











A4 INTRINSICALLY SAFE & NON-INCENDIVE PRESSURE TRANSMITTER



ACCURACY: ±.25, ±0.5, ±1.0% Span

OUTPUT: 4-20mA

STANDARD RANGES:

15 to 7500 psi absolute, 1.5 to 10,000 psig, compound to 100 psig

Overpressure: (Varies w/pressure range)

Proof: up to 2 x Span up to 4 x Span Burst:

ENVIRONMENTAL RATING:

Basic IP65, NEMA 4X All Welded* IP67, NEMA 6 (varies with pressure range)

*(w/o Z/S)

AGENCY APPROVALS: CE

Non-Incendive - FM/CSA:







T2 HIGH PERFORMANCE PRESSURE TRANSMITTER



ACCURACY: ±0.25% of Span

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

STANDARD RANGES:

Pressure Ranges (Span): 30 to 20,000 psig, compound to 300 psig

Overpressure: (Varies w/pressure range)

up to 3 x Span Proof: Burst:

ENVIRONMENTAL RATING: NEMA 4X. IP65

AGENCY APPROVALS: CE



A highly configurable transmitter designed for hazardous location and heavy industrial applications. High performance accuracy and thermal capability over -20/85°C (-4/185°F) with additional option of zero and span pots. 316L SS wetted materials are standard.

The Ashcroft® A2X is ideal for a broad spectrum of pressure sensing applications where explosion/flameproof hazardous location ratings are required. The A2X pressure transmitter offers all 316L SS wetted materials and features excellent accuracy and stability for reliable measurements over the life of the instrument.

The Ashcroft® A4 pressure transmitter is ideal for a broad spectrum of pressure sensing requirements where Intrinsically Safe or Non-Incendive hazardous location ratings are required. Designed / manufactured to provide the user with accurate, reliable, and stable output data using an on-board microprocessor programmed during a unique digital compensation process; providing a product that supplies extremely linear and precise performance. 316L SS wetted materials are standard.

A robust pressure transducer designed for industrial applications featuring Ashcroft's proven polysilicon thin film pressure sensing element. Product features include voltage and current outputs, a variety of pressure ports and electrical terminations to international standards with excellent accuracy and performance over -40 to 125° C, (-40 to 257° F).



TYPE G2 OEM PRESSURE TRANSDUCER



ACCURACY:

±1% Span: through –20/85°C (–4/185°F) ±1.5% Span: through –40/–20°C and (–40/–4°F) and 85/125°C (185/257°F).

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

ENVIRONMENTAL RATING:

NEMA 4X, IP65 and IP67

STANDARD RANGES:

Pressure Ranges (Span): 30 to 20,000 psig, compound to 300 psig

Overpressure: (Varies w/pressure range)
Proof: up to 3 x Span
Burst: up to 10 x Span

AGENCY APPROVALS: CE



KM15 HIGH VOLUME OEM PRESSURE TRANSDUCER



ACCURACY:

±0.5% Span, 100 psig and above ±1.0% Span, 75 psig and below

OUTPUT: 1-5Vdc, 1-6Vdc, 0.5-4.5Vdc (ratiometric)

ENVIRONMENTAL RATING: IP67

STANDARD RANGES:

Pressure Ranges (Span): 15 to 7500 psig/s, compound to 300 psig

 Overpressure (Span):
 Proof
 Burst

 ≤ 3000 psig
 2 x Span
 5 x Span

 5000 psig
 1.5 x Span
 5 x Span

 7500 tpsig
 1.2 x Span
 5 x Span

AGENCY APPROVALS: CE



LOOK FOR THIS MARK ON OUR PRODUCT

K1/K2 SERIES INDUSTRIAL TRANSDUCER



ACCURACY: ±0.5%, ±1.0% Span

OUTPUT:

K1: 4-20mA, 1,5Vdc, 1-6Vdc, 1-11Vdc K2: 2, 3, 10, 20 mV/V

ENVIRONMENTAL RATING:

NEMA 1, NEMA 4X

STANDARD RANGES:

Pressure Ranges (Span): 15 to 20,000 psig. compound to 60 psig Overpressure (Span): Proof Burst

 Verpressure (Span):
 Proof
 Burst

 ≤ 2000 psig
 2 x Span
 8 x Span

 3000 to 5000 psig
 1.5 x Span
 3 x Span

 7500 to 20,000 psig
 1.2 x Span
 1.5 x Span

 1.5 x Span
 1.5 x Span
 1.5 x Span

AGENCY APPROVALS:

Intrinsically Safe – FM (consult factory)



K8 SERIES TRANSDUCER w/mV SIGNAL



ACCURACY: ±0.5%, ±1.0% Span

STANDARD RANGES:

OUTPUT: Varies from 6-18 mV/V at Span ratiometric

Tallottiellic

 Pressure Ranges (Span): 45 to 20,000 psig

 Overpressure (Span): Proof Surst

 ≤ 2000 psig
 2 x Span

 3000 to 5000 psig
 1.5 x Span

 7500 to 20,000 psig
 1.2 x Span

 1.5 x Span
 1.5 x Span

ENVIRONMENTAL RATING: NEMA 4X

A robust pressure transducer designed for OEM applications featuring Ashcroft's proven polysilicon thin film pressure sensing element. Product features include voltage and current outputs, a variety of pressure ports and electrical terminations to international standards with excellent accuracy and performance over —40 to 125°C. (—40 to 257°F).

An economical transducer designed for the high volume OEM. Product features include voltage outputs, a variety of pressure ports and electrical terminations to international standards with excellent accuracy and performance over –30 to 120°C (–25 to 250°F). IP67 ingress rating and 100V/m EMC immunity.

A versatile and proven industrial transducer with an extensive installed base. Wide range of pressure fittings and electrical terminations along with FM hazardous area approvals.

A pressure transducer for applications that can incorporate an unconditioned mV/V output and require the proven benefits of the polysilicon thin film pressure sensing element. A broad range of pressure fittings allow the user design flexibility in packaging.



KX/KS SERIES SANITARY TRANSDUCERS



ACCURACY: ±1.0% Span

OUTPUT:

KS: 4-20mA, 1-5Vdc, 1-6Vdc; 2, 3, 10, 20 mV/V ratiometric KX: 4-20mA, 1-5Vdc, 1-6Vdc

STANDARD RANGES:

Pressure Ranges (Span): KS: 30 to 1000 psig, compound to 100 psig Kx: 100 to 5000 psig

Overpressure (Span): Proof Rurst < 2000 psia 2 x Span 8 x Span 3000 to 5000 psig 1.5 x Span 3 x Span

ENVIRONMENTAL RATING: NEMA 4X

MODEL GC30 ULTRA-COMPACT DIFFERENTIAL PRESSURE SENSOR



ACCURACY: ±1.5% Span ANALOG OUTPUT: (1-5Vdc)

DISPLAY TYPE: 31/2 digit, 10mm LED

STANDARD RANGES (Gauge): 0.25" I.W.C. to 25" I.W.C

STANDARD RANGES (Compound): ±0.25" I.W.C. to ±25" I.W.C.

MEDIA: Clean, dry air/gases compatible with Aluminum, ABS, Ceramic, Silicon, and

SWITCH CONTACTS:

(2) NPN or PNP open collector outputs

ENVIRONMENTAL RATING: IP40 AGENCY APPROVALS: CE



TYPE GC52 RANGEABLE WET/WET DIFFERENTIAL PRESSURE TRANSMITTER



ACCURACY: ±0.50% Span (URL)

OUPUT SIGNAL: 4-20mA (2 Wire)

DISPLAY TYPE: 4 digit, 10mm LCD with LED backlight

STANDARD RANGES (Bi-Directional, Inches W.C.): ±4 to ±200 i.w.c.

STANDARD RANGES

(Uni-Directional, Inches W.C.): Ò to 4 thru 400 i.w.c.

STANDARD RANGES

Static (Line) Pressure:

Pressure Ránge **Proof** <u>Burst</u> 800 psi 300 psi

Static (Line) Pressure Effects:

Pressure Range Effect
≥20″W.C., ±8″W.C. ±0.3% Span/100 psi
8″W.C., ±4″W.C. ±0.7% Span/100 psi ±1.5% Span/100 psi 4"W.C.

Single Side (Differential) Limits:

<u>Proof</u> 30 psid Pressure Range **Burst** ≤8″W.C., ±4″W.C. 130 psid ≥20"W.C., ±8"W.C. 100 psid 130 psid

MEDIA: Fluids and gases compatible with 316SS, Viton and Coramic

ENVIRONMENTAL RATING:

IP65 / NEMA 4X

AGENCY APPROVALS:

GL42 LOW DIFFERENTIAL INDICATING PRESSURE TRANSMITTER



ACCURACY: ±0.50% or ± 1.00% Span

OUTPUT: 4-20mA (2 wire)

STANDARD RANGES:

Unidirectional: 0.10 to 0/25 I.W.C. Bidirectional: ±0.10 to ±15 I.W.C.

Overpressure Proof Pressure: 15 psi Burst Pressure: 25 psi

ENVIRONMENTAL RATING: NEMA 4X, IPG5

AGENCY APPROVALS: CE

For use in sanitary, waste-water, food processing and pharmaceutical applications. The KS Series features a 316L stainless steel electropol-ished Tri-Clamp style diaphragm while the KX Series features several options designed for harsh applications – flush mounted diaphragm, PMC adapter or weldnuts. The polysilicon thin film pressure sensing element offers proven performance and stability.

Ultra-compact pressure sensor is exceptional when monitoring differential pressures in clean rooms, filters, fan speed control and vacuum/suction pressure sensing & control. Consistent, reliable pressure measurement is provided due to the highly reliable SiGlas™ Sensor. The GC30 offers an analog ouput with two independent, user configurable switches.

Uniquely compact wet/wet differential pressure transmitter, ideal for flow and tank level applications where reliable, low dP measurements are required. This instrument can be adjusted to rearrange the transmitter and offers flow measurement/ square root extraction where the flow rate can be displayed and analog signal can be output. Equipped with the patented SiGlas™ 316 Stainless Steel isolated sensor, it can monitor a wide variety of wet or dry media



CXLdp SERIES DIN/PANEL/WALL MOUNT



ACCURACY: 0.8% or 0.4% Span

OUTPUT SIGNAL:

4-20mA, (12-36Vdc) 0-5, 0-010Vdc (24Vac/Vdc)

PRESSURE RANGES (Inches W.C.)

Unidirectional: 0.10 to 0/25 I.W.C. Bidirectional: ±0.10 to ±15 I.W.C.

Overpressure Proof Pressure

15 psi Burst Pressure: 25 psi

ENVIRONMENTAL RATING: NEMA 1

MOUNTING: DIN rail or panel mount

MEDIA: Clean, dry and non-corrosive gas

NOT FOR USE ON LIQUIDS

ENVIRONMENTAL RATING: NEMA 1

AGENCY APPROVALS: CE



DXLdp SERIES DIN MOUNT



ACCURACY: 0.25%, 0.50% or 1.00% Span

OUTPUT SIGNAL:

4-20mA, (12-36Vdc), 1-5Vdc, 1-6Vdc, 0-5Vdc, 0-10Vdc

PRESSURE RANGES (Inches W.C.): Unidirectional: 0.10 to 100 I.W.C. Bidirectional: ±0.05 to ±100 I.W.C.

Overpressure

Proof Pressure: Burst Pressure: 25 psi Max. static (line) pressure: 25 psi

MOUNTING: DIN rail mount:

EN50022 EN50035 EN50045

MEDIA

Clean, dry and non-corrosive gas (consult factory for use on other media)

NOT FOR USE ON LIQUIDS

ENVIRONMENTAL RATING: NEMA 1

AGENCY APPROVALS: CE



RXLdp SERIES REDUCED SIZE



ACCURACY: 1.00% Span

OUTPUT SIGNAL:

4-20mA, (12-36Vdc), 1-5Vdc, 1-6Vdc, 0-5Vdc, 0-10Vdc

PRESSURE RANGES (Inches W.C.): Unidirectional: 0.10 to 50 I.W.C.

Bidirectional: ±0.05 to ±50 I.W.C.

Overpressure

Proof Pressure: Burst Pressure: 25 psi Max. static (line) pressure: 25 psi

Clean, dry and non-corrosive gas (consult factory for use on other media)

NOT FOR USE ON LIQUIDS

ENVIRONMENTAL RATING: NEMA 1

AGENCY APPROVALS: CE (optional)



XLdp SERIES HIGH PERFORMANCE



ACCURACY: 0.25% or 0.50% Span

OUTPUT SIGNAL:

4-20mA, (12-36Vdc), 1-5Vdc, 1-6Vdc

PRESSURE RANGES (Inches W.C.): Unidirectional: 0.10 to 100 I.W.C.

Bidirectional: ±0.05 to ±100 I.W.C.

Overpressure

Proof Pressure: 15 psi Burst Pressure: 25 psi Max. static (line) pressure: 25 psi

Clean, dry and non-corrosive gas (consult factory for use on other media)

NOT FOR USE ON LIQUIDS

ENVIRONMENTAL RATING: NEMA 2

AGENCY APPROVALS: CE (optional)



Static or velocity pressure measurement for flow stations, ducts, building pressure, filter efficiency, van boxes or room pressurization. Designed for ease of installation and system calibration, the DXLdp is ideal for pharmaceutical plants and other installations where large numbers of air flow and dp measurements are being monitored.

A compact transmitter for comfort control and other HVAC applications.

High performance dp transmitter with proven reliability and stability. Excellent for air handling applications including fume hood control and room pressurization.



IXLdp SERIES INDUSTRIAL



ACCURACY: 0.25% or 0.50% Span

OUTPUT SIGNAL:

4-20mA, 1-5Vdc, 1-6Vdc, ±5Vdc, ±2.5Vdc

PRESSURE RANGES (Inches W.C.): Unidirectional: 0.10 to 200 I.W.C. Bidirectional: ±0.05 to ±100 I.W.C. Overpressure

Proof Pressure: Burst Pressure: Max. static (line) pressure: 100 psi

Clean, dry and non-corrosive gas (consult factory for use on other media)

NOT FOR USE ON LIQUIDS

ENVIRONMENTAL RATING: NEMA 4X

AGENCY APPROVALS: FM



TYPE T5500E PROCESS GAUGE WITH OUTPUT



ACCURACY:

OUTPUT SIGNAL:

PRESSURE RANGES:

DIAL SIZE:

CASE MATERIAL:

SENSING ELEMENT:

WETTED MATERIAL:

AGENCY APPROVALS:



TYPE DM61 DIGITAL PANEL METER



ACCURACY: 0.10% of span

DISPLAY: 6 Digit

POWER: 12 or 24 V Power Supply

INPUTS: Field Selectable: 0-20, 4-20mA, ±10 Vdc, 0-5 Vdc, 1-5 Vdc, 0-10 Vdc, Modbus PV (slave)

BUTTONS/DISPLAY & MIN/MAX VALUES: User-Programmable and User-Defined

ENVIRONMENTAL:

Operating Temperature Range: -40°C to 65°C (-40°F to 149°F) Storage Temperature Range: -40°C to 85°C (-40°F to 185°F) Relative Humidity: 0-90% R.H. non-condensing

ENCLOSURE: 1/8 DIN, high impact plastic, UL 94V-0

CONNECTIONS:

Removable screw terminal blocks accept 12 to 22 AWG wire, RJ45 for external relays, digital I/O, and serial communication adapters

ALARM POINTS: 2 or 4 SPDT (Form C) internal and/or 4 SPST (Form À) external

ALARM DEADBAND: 0-100%, User-Selectable

OPTION:

Expansion Modules For Relays, Digital I/O and USB, RS-232 and RS-485 Communications Adapters



LOOK FOR THIS MARK ON OUR PRODUCT

TYPE 4080, 4480 PNEUMATIC TRANSMITTER



OUTPUT RANGES, PSI: 3-15 & 3-27 (see note below for vacuum application)

SUPPLY AIR REQUIREMENTS:

18-20 psi for 3-15 psi range; 30-35 psi for 3-27 psi range

AIR CONSUMPTION SCFM: 0.1

SPEED OF RESPONSE: Time constant of 4 seconds per 500 ft of tubing

AIR CONNECTION: 1/4 NPT Female

ACCESSORIES: See optional features and accessories

TRANSMISSION DISTANCE: 1000 ft

MOUNTING WEIGHT: Approximate weight 9 lb

REPEATABILITY % OF SPAN: 0.15

ACTUATION: Bourdon Tube

INPUT SENSING ELEMENT MATERIAL:

AMBIENT TEMPERATURE EFFECT: 1/2% per 50°F

PROCESS CONNECTION:

½ NPT (ordering code 04L)

Note: Vacuum application: The transmitted air pressure increases as the measured vacuum approaches zero

A rugged low pressure transmitter in cast 300 series stainless steel enclosure. A good choice for dp monitoring in pollution control, combustion control, and other applications where precision sensing is needed in a tough environment.

Product combines a reliable, local, analog pressure indication with 4-20mA transmitter. The wide selection of system materials and corrosion-proof housing meet a variety of demanding applications including those with vibration and pulsation.

The new Digital Panel Meter is a multi-purpose meter used to control and/or monitor transmitter applications involving level, flow or pressure. The user-friendly/ field-programmable device offers a 6 digit LED display, min./max. capability, relay/ alarm functions and password protection; all which complement the expanding Ashcroft transducer line.

The Ashcroft transmitter is a self-nulling motion-balance instrument, using a pneumatic relay operating on the nonbleed force balance principle for converting input pressures into proportional low air pressure signals for transmittal to remote indicators or controllers



Quick Guide Temperature Instruments

EI, CI & EL INDUSTRIAL **BIMETAL THERMOMETERS**

ACCURACY

ASME B 40.3 Grade A (±1% of span)

DIAL SIZE

EI, CI 2, 3, 5" (EL 3, 5")

STEM/BULB DESIGN

Rigid stem 0.250" dia

RECALIBRATOR

(El, EL external), (Cl none)

SEALING DESIGN

Hermetically sealed; EL liquid filled

DAMPENING

Silicone-dampened bimetal coil; EL liquid filled

CONNECTION LOCATION

El rear, lower, Everyangle™ mount CI rear, lower EL rear, Everyangle mount

CONNECTION SIZES (NPT)

Plain

1/4 (2" sizes only) ½ and ½ fixed or union (3,"5" sizes only)

STEM LENGTH 21/2"-60"

RANGES

-80°F to 1000°F, -50°C to 500°C EL -40°F to 550°F, -20°C to 300°C

CASE/RING MATERIAL

Stainless steel

CASE/BULB MATERIAL

Stainless steel

WINDOW

EI, CI glass (EL Polycarbonate)

General industrial temperature applications including gases, liquids, and other processes. All stainless steel construction.

600A & 600B DURATEMP® **THERMOMETERS**



ACCURACY

ASME B 40.3 Grade A (±1% of span)

600A – 4½", 6" 600B – 4½"

STEM/BULB DESIGN

Rigid stem 0.375" dia. (600B) Bendable 0.375" dia. (600A)

RECALIBRATOR

Adjustable pointer

Weatherproof

SEALING DESIGN

DAMPENING

Silicone-encapsulated helical Bourdon tube

CONNECTION LOCATION

600A – rear, lower – remote mount 600B – Everyangle – direct mount

CONNECTION SIZES (NPT)

1/2" fixed or union

STEM LENGTH

6"-36" - 600B

CAPILLARY LENGTH

5′-80′ - 600A

RANGES

-320°F to 1200°F -200°C to 650°C

CASE/RING MATERIAL

Stainless steel, aluminum, phenol

CASE/BULB MATERIAL

Stainless stee

CAPILLARY MATERIAL

600A-300 Series stainless steel

including remote monitoring.

WINDOW

Glass

Rugged applications including gases, liquids and other processes. Wide temperature ranges

AR10 & AT10 STANDARD PROCESS RTD's & THERMOCOUPLES



SPECIFICATIONS

- 1. Ashcroft Series: AR10 & AT10
- 2. Insert Stem Diameter:
- 3 mm. 4.5 mm. 6 mm. 8mm

3. Stem Length:

Minimum: 0.05 m (2 in.) Maximum: 100 m (3937 in.)

4. Sensor Type & Measuring Range: AR10 RTDs

Pt 100: -200 to +600°C Pt 1000: -40 to +600°C

AT10 Thermocouples

Type J: -40 to +750°C Type E: -200 to +800°C

Type K: -200 to +1100°C Type N: -200 to +1100°C

5. Wiring Configuration

AR10 RTDs

2 wire 3 wire

4 wire

AT10 Thermocouple

2 wire

6. Accuracy Class: AR10 RTDs (IEC 60751)

Class A

Class B

1/2 Class B

1/3 Class B

AT10 Thermocouples (IEC 60584-2)

Class 1 Class 2

Class 3

AT10 Thermocouples (ANSI MC96.1)

Standard Special

7. Process Connection

G 1/2 A male G 3/4 A male

M14 x 1.5 male

M18 x 1.5 male

1/2 NPT male

APPLICATIONS INCLUDE

- Process temperature measurements for liquefied natural gas systems, and power generation systems.
- Exhaust gas temperature measurements for hazardous environments
- Reactor measurements in petrochemical

AR20 and AT20 PROCESS RTD's THERMOCOUPLES



SPECIFICATIONS

- 1. Ashcroft Series: AR20 & AT20
- 2. Insert Stem Diameter: 3 mm, 4.5 mm, 6 mm. 8mm. 1/8." 3/16." 1/4"
- 3. Stem Length:

Minimum: 0.05 m (2 in.)

Maximum: 100 m (3937 in.)

4. Sensor Type & Measuring Range: AR20 RTDs

Pt 100: -200 to +600°C Pt 1000: -40 to +600°C

AT20 Thermocouples

Type J: -40 to +750°C

Type E: -200 to +800°C Type K: -200 to +1100°C

Type N: -200 to +1100°C

5. Wiring Configuration

AR20 RTDs 2 wire

3 wire

4 wire

AT20 Thermocouple

2 wire 6. Accuracy Class:

AR20 RTDs (IEC 60751) Class A

Class B 1/2 Class B

1/3 Class B

AT20 Thermocouples (IEC 60584-2)

Class 1 Class 2

Class 3

AT20 Thermocouples (ANSI MC96.1)

Standard Special

7. Process Connection

1/2 NPT male

APPLICATIONS INCLUDE

- · Process temperature measurements for power generation.
- Exhaust gas temperature measurements for diesel engines.
- Bearing temperature measurements for
- Oven temperature measurements for industrial drying ovens.



Quick Guide Temperature Instruments

THREADED FLANGED AT30 SKIN TYPE THERMOCOUPLES THERMOWELLS THERMOWELLS KEY FEATURES KEY FEATURES SPECIFICATIONS • Straight, stepped or tapered designs • One piece bar stock • Straight, stepped or tapered designs 1. Ashcroft Series: AT30 One piece bar stock 2. Insert Stem Diameter: 6 mm. 8mm. 3/8" · Wide selection of sizes, material and · Wide selection of sizes, material and 3. Stem Length: dimensions dimensions Minimum: 0.25 m (9.84 in.) · Stamped with date code, material and · Stamped with date code, material and Maximum: 550 m (2165 in.) heat numbers heat numbers 4. Sensor Type & Measuring Range: · Full penetration weld AT30 Thermocouples SPECIFICATIONS SPECIFICATIONS Type J -200 to +750°C Process connection: 1/2, 3/4 and 1 NPT Type K -200 to +1100°C Bore size: .260", .385" Process connection: Raised face, flat & ring joint flanges Instrument connection: 5. Wiring Configuration 1/2 NPSM Ratings: 150#, 300#, 600#, 900#, 1500#, & 2500# 1/2 NPSM **AT30 Thermocouples** 1/2 NPT 2 wire Others on request for all above Instrument connection: 6. Accuracy Class: specifications ½ NPSM AT30 Thermocouples (IEC 60584-2) MATERIALS: MATERIALS: Class 1 Others on request for all above 304 stainless steel Class 2 specifications 316 stainless steel Class 3 MATERIALS: AT30 Thermocouples (ANSI MC96.1) Carbon steel 304 stainless steel Standard Many other alternate materials available 316 stainless steel Special on request. Brass 7. Process Connection Carbon steel TESTS & CERTIFICATIONS: Many other alternate materials available 1½ NPT male Hydrostatic testing Flanged

APPLICATIONS

- Surface temperature measurements for steam lines in power generation processes.
- reactor vessels in chemical and petrochemical processes.

MTR's

PMI

NACE

Wake frequency calculations

- in industrial processes.

on request.

TESTS & CERTIFICATIONS:

Hydrostatic testing MTR's

PMI

NACE

Wake frequency calculations

Dye penetrant test

SOCKET-WELD **THERMOWELLS**



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: ¾ and 1 pipe sizes Bore size: .260", .385"

Instrument connection:

1/2 NPT

Others on request for all above specifications

MATERIALS:

304 stainless steel

316 stainless steel

Carbon steel

Many other alternate materials available on request.

TESTS & CERTIFICATIONS:

Hydrostatic testing MTR's

NACE

Wake frequency calculations

- · Wall temperature measurements for
- Flat surface temperature measurements



Ouick Guide Pressure and Temperature Switches

SINGLE SETPOINT WATERTIGHT ENCLOSURES

B-SERIES



FEATURES

Enclosure:

Watertight epoxy-coated aluminum NEMA 4, 4X, IP66

Switch Function:

Single setpoint, fixed deadband, SPDT Single setpoint, fixed deadband, (2) SPDT (DPDT action)

Wetted Materials:

Stainless steel and Buna, *Teflon® or Viton®

All-welded stainless steel (or) All-welded Monel

Ranges:

Pressure: vac. thru 3000 psi Temperature: –40°F thru 750°F Differential Pressure: 30 in.H₂O diff. thru

H-Series Pressure: 1000 - 7500 psi

U.L. and CSA LISTED

*Registered trademark of E. I. DuPont

LOOK FOR THESE MARKS ON OUR PRODUCTS











SINGLE SETPOINT EXPLOSION PROOF ENCLOSURES

B-SERIES



FEATURES

Enclosure:

Explosion proof, NEMA 7/9, IP66

Switch Function:Single setpoint, fixed deadband, SPDT (or) Single setpoint, fixed deadband, (2) SPDT (DPDT action)

Wetted Materials:

Stainless steel, Buna, Teflon® or Viton® (or) All-welded stainless steel (or) All-welded Monel

Pressure: vac. thru 3000 psi Temperature: -40°F thru 750°F Differential Pressure: 30 in. H_2O diff. thru

U.L. or CSA LISTED, ATEX and IECEx models for Hazardous locations now available

Dual Seal Rating now available

LOOK FOR THESE MARKS ON OUR PRODUCTS









DUAL SETPOINT WATERTIGHT ENCLOSURES

L-SERIES



FEATURES

Watertight epoxy-coated aluminum NEMA 4, 4X, IP66

Switch Function:

Single setpoint, fixed deadband, SPDT contacts (or) Single setpoint, fixed deadband,(2) SPDT contacts (DPDT action) (or)
Single setpoint, adjustable deadband, SPDT contacts (or) Dual setpoint, fixed deadband, (2) SPDT contacts, (DPDT action)

Wetted Materials:

All-welded Monel

Stainless steel and Buna, Teflon® or Viton® All-welded stainless steel (or)

Ranges:

Pressure: vac. thru 3000 psi Temperature: –40°F thru 750°F Differential Pressure: 30 in.H₂0 diff. thru 400 nsid

III and CSA LISTED

LOOK FOR THESE MARKS ON OUR PRODUCTS









DUAL SETPOINT EXPLOSION PROOF ENCLOSURES



FEATURES

Enclosure:

Watertight epoxy-coated aluminum explosion-proof NEMA 7/9, IP66

Switch Function:

Single setpoint, fixed deadband, SPDT contacts (or) Single setpoint, fixed deadband (2) SPDT contacts (DPDT action) (or) Single setpoint, adjustáble deadband, SPDT contacts (or)
Dual setpoint, fixed deadband (2) SPDT contacts. (DPDT action)

Wetted Materials:

Stainless steel and Buna. Teflon® or Viton® All-welded stainless steel (or) All-welded Monel

Ranges:

Pressure: vac. thru 3000 psi Temperature: -40°F thru 750°F Differential Pressure: 30 in.H2O diff. thru

U.L. or CSA LISTED

Dual Seal Rating now available

LOOK FOR THESE MARKS ON OUR PRODUCTS





General purpose switches for most industrial and process applications. Models are available for steam and fuel pressure-limit controls on boilers and burners. Ideal for compressors, turbines, filters, blowers, etc.

Ashcroft 700 series has been developed for most applications found in process plants U.L. or CSA LISTED.

All models have similar performance characteristics to the popular Ashcroft B400 Series switch line, which has been used throughout the world's plants and mills for over 25 years. They feature rugged, reliable diaphragm-sealed piston actuators, snap-acting contacts and all-popular wetted materials and process connections. Dual Seal Rating models available. Optional hermetically sealed contacts, Monel or fire-safe actuators and scores of options allow you to choose a model for any application.

Easy-to-use L-Series switches are specifically suited for the OEM seeking more features in a snap-acting switch. Single or dual setpoints and fixed or adjustable deadband models with many wetted materials and electrical ratings are offered. This snap-acting switch also replaces older mercury models and is cost effective.

L-Series switches are ideal for blowers. generators, scrubbers, precipitators, compressors and turbines.

More varieties and more features are available in the highly reliable P-Series switch which is especially suited for process and refinery applications. Dual chamber design allows setpoint changes to be made safely, even with power connected. Features include NEMA 4X/ NEMA 7/9 enclosure, with single or dual setpoints, fixed or adjustable deadbands, with many wetted materials and electrical ratings. Dual Seal Rating models available. Optional, all-welded stainless steel or Monel actuators are ideal for applications requiring NACE or fire-safe conformance. Optional UL listed, hermetically sealed switch contacts improve safety and reliability.



Quick Guide Pressure and Temperature Switches

WATERTIGHT STAINLESS STEEL ENCLOSURES

COMPACT EXPLOSION



G-SERIES



FEATURES

Enclosure:

Watertight 316 stainless steel NEMA 4, 4X,

Switch Function:

Single setpoint, fixed deadband, SPDT contacts (or) Single setpoint, fixed deadband (2) SPDT contacts (DPDT action) (or) Single setpoint, adjustable deadband, SPDT contacts (or) Dual setpoint, fixed deadband (2) SPDT contacts (DPDT action)

Wetted Materials:

Stainless steel and Buna. Teflon® or Viton® All-welded stainless steel (or)

All-welded Monel

Ranges:

Pressure: vac. thru 3000 psi Temperature: -40°F thru 750°F Differential Pressure: 30 in H₂O diff. thru 400 psid

U.L. and CSA LISTED

LOOK FOR THESE MARKS ON OUR PRODUCTS









PROOF PRESSURE



FEATURES

Enclosure (Body): Explosion-proof, anodized aluminum NEMA 7/9, IP66

Switch Function:

Single setpoint, field-adjustable fixed deadband, SPDT contacts (or) Single setpoint, field-adjustable fixed deadband, (2) SPDT contacts (DPDT action)

Wetted Materials:

316 stainless steel pressure connection and Buna N, Teflon® or Viton® diaphragm and

O-ring (or)
All-welded 316 stainless steel diaphragm

Ranges:

Pressure: vac. thru 4000 psi

III and CSA LISTED







MINIATURE WATERTIGHT **PRESSURE SWITCHES**



FEATURES

Enclosure:

NEMA 4X watertight, IP67

Switch Function:

Single setpoint, fixed deadband, factory set SPDT or DPDT contacts, not field adjustable (or)

Single setpoint, fixed deadband, field-ad-justable SPDT or DPDT contacts

Wetted Material:

316 stainless steel piston w/Buna N or Viton® or 316 stainless steel welded diaphragm actuator) Single Switch – SPDT
Dual Switch DPDT (not available with "S" actuator) with <100 psi range

Ranges:

Vac thru 15,000 psi

U.L. and CSA LISTED

SIL 3 capable













MINIATURE EXPLOSION **PROOF PRESSURE SWITCHES**

A-SERIES





FEATURES

Enclosure:

NEMA 7/9 explosion proof, IP66

Switch Function:

Single setpoint, fixed deadband, factory set SPDT or DPDT contacts, not field adjustable (or) Single setpoint, fixed deadband, field-adjustable SPDT or DPDT contacts

Wetted Material:

Stainless steel (Buna N, Viton® or welded diaphragm actuator) Single Switch - SPDT Dual Switch DPDT (not available with "S"

Ranges:

Vac thru 15,000 psi.

U.L. and CSA LISTED

AM, ATEX, IECE, SIL 3 capable

actuator) with <100 psi range

LOOK FOR THESE MARKS ON OUR PRODUCTS











The stainless steel enclosure offers greater corrosion protection for this high-performance switch in breweries, dairies, chemical and petrochemical plants, offshore rigs and pulp and paper mills. Our standard diaphragm-sealed piston actuators and a variety of wetted materials are available in these pressure, temperature and differential pressure switches.

Compact size facilitates mounting in panels and other installations where space is a premium.

Standard hermetically sealed switch element and sealed conduit connection eliminate the possibility of condensation entering the enclosure from the conduit. Standard 1/2 NPTF pressure connection makes retrofit on existing installations quick and easy

You should consider Ashcroft A-Series pressure switches for use on heavy vehicles, engines and compressors, electronics processing and medical equipment, food and beverage processing equipment, garbage compactors, machine tools, or any equipment where space is a consideration. This series is especially suitable for OEM configuration.

You should consider Ashcroft A-Series pressure switches for use on heavy vehicles, engines and compressors, electronics processing and medical equipment, food and beverage processing equipment, garbage compactors, machine tools, or any equipment where space is a consideration. This series is especially suitable for OEM configuration.



Quick Guide Pressure and Temperature Switches

ELECTRONIC PRESSURE SWITCHES

STANDARD DIFFERENTIAL PRESSURE SWITCH

ATEX APPROVAL FOR HAZARDOUS LOCATONS

U.L. LISTED STEAM LIMIT CONTROL





FEATURES

Enclosure:

NEMA 4X watertight or NEMA 7/9 explosion proof, IP66

Switch Function:

Single setpoint with adjustable deadband

Wetted Material:

Stainless steel

Ranges

60 thru 20,000 psi. Deadbands as low as 0.1% of range.

Optional process and setpoint indication and 4-20mA transmitter ouput now available



Small size and high overpressure capability make our differential pressure switch ideal for most process and industrial applications. Minimum static working pressures of 500 psi allow use on the most difficult filter applications.

We use a unique combination of diaphragm-sealed piston actuators to get our high static pressure performance in 12 ranges.

For inches of water ranges, we use a large diaphragm for sensitivity which results in lower, more conventional working pressure. Consult the factory for application assistance on differential pressure switch selection.



ATEX is a European designation that deals with standards for equipment and protective systems intended for use in potentially explosive atmospheres. This approval is required for switches intended for use in hazardous locations, especially important to OEMs who export to Europe and contractors specifying or purchasing products for European applications.

European applications.

XCN option adds special features to
Ashcroft 700-Series switch enclosures that
meet the requirements for the highest levels
of security and danger, such as:

- Special locking device requiring an Allen wrench to remove cover
- Special vents that blow out should the diaphragm rupture, thus preventing pressure build-up in the enclosure
- Special conduit plug requiring an Allen wrench for removal
- Available on pressure, temperature and d/p models
- Meets explosion class Ex d IIC T6
- IECEx models available
- Dual Seal Rating models available





The Ashcroft steam-limit control switch is designed for use on boilers equipped with electrically operated burners. The limit control is an adjustable pressure-operated switch set to stop burner operation when the recommended safe boiler working pressure is exceeded.

We recommend a stainless steel diaphragm for steam service. A pigtail siphon should also be used to reduce the possibility of high temperature affecting switch performance. This listing is available for setpoints up to 300 psi.



LOOK FOR THIS MARK ON OUR PRODUCTS

The Ashcroft N-Series electronic pressure switch combines the popular K-Series polysilicon thin film pressure transducer sensor and rugged, epoxy-coated enclosures. The result is a highly reliable pressure switch that is ideal for high cycle, high pressure, or difficult deadband applications.

Typical applications include: machine tools, injection molding machines, presses, pumps, hydraulic systems, turbines, and compressors.



Quick Guide Pressure and Temperature Switches

U.L. LISTED PRESSURE LIMIT CONTROL



The Ashcroft medium-pressure gas and oil limit control switch is designed for use with air, LP gas, natural gas, #1 and #2 fuel oil and #6 oil preheated to 240°F. This limit control is an adjustable pressure-operated switch with a secondary chamber to prevent fuel from entering the switch enclosure in the unlikely event that the diaphragm develops a leak. The control shuts down a fuel pump in high or low pressure conditions



DDS-SERIES DIFFERENTIAL PRESSURE SWITCH DIAPHRAGM SENSING ELEMENT



FEATURES

Ranges:

0-6 IWD TO 0-150 IWD

Static Pressure Ranges: 250 PSI or 1500 PSI

Rugged:

NEMA 4X & 12 Housing Std. Class I, Div. I, Gr. C & D Available SPDT or **DPDT Contacts**

Maximum Ambient Temperature:

Minimum Ambient Temperature:

-20°F

Pressure Connection:

1/4 NPT Female

Electrical Connection: 3/4 NPT Female

Housing:

Cast Aluminum

Deadband: Fixed

Sensitivity:

1% of range Drift:

<1% of range (100,000 operations)

Weight:

Approximately 6 lbs.

Contact Ratings: 15A-125, 250, 480 VAC (general purpose other micro switches available)

Contact Listings:

UL Listed

Port Material:

Aluminum or Stainless Steel

Diaphragm Material:

Buna N, Viton or Teflon

Setpoint Adjustment:

Screw type, field adjustable



LOOK FOR THIS MARK

The Ashcroft DDS-Series differential pressure switch is designed to sense low differential pressures between high pressure sources.



Global Headquarters

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For access to our global web sites, additional products/specifications and a complete list of our operations, sales offices, distributors & reps visit: www.ashcroft.com



