

ASHCROFT®

PRESSURE & TEMPERATURE INSTRUMENT QUICK GUIDE



The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry, no matter how small, should be recorded to ensure the integrity of the financial statements. The second part covers the various methods used to record transactions, including the double-entry system and the use of journals and ledgers. It also discusses the importance of regular reconciliations to identify and correct any errors. The third part of the document deals with the classification of transactions into different accounts, such as assets, liabilities, and equity. It explains how these transactions affect the accounting equation and how they are recorded in the general ledger. The final part of the document discusses the preparation of financial statements, including the balance sheet, income statement, and statement of cash flows. It provides a step-by-step guide to the process, from gathering the data to the final presentation of the statements.

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®, Willy®, 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 of 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.

ASHCROFT® INC.



DIGITAL GAUGES

Type 2089, 2086, 2084 Test Gauge	7
Type 2074, 2174, 2274 Industrial Gauge	7
Type DG25 General Purpose Gauge	7
Type 2030 Digital Sanitary Gauge	7

TEST INSTRUMENTS, TEST GAUGES & EQUIPMENT

Type 1084 Test Gauge	9
Type 1082 Test Gauge	9
Type 2089, 2086, 2084 Digital Test Gauge	9
Type ATE-100 Portable Pressure/Temperature Calibrator	9
Type ST-2A Precision Benchtop Pressure/Temperature Gauge	10
Type 1305D Deadweight Tester	10
Type 1327D, 1327CM Gauge Comparator	10
Type PT LCD Precision Digital Pressure Indicator ..	10
Type AVC-1000 & 3000 Volume Controller	11
Type A4A Precision Dial Pressure Gauge	11

PROCESS GAUGES

Type 1279 Duragauge® Pressure Gauge	13
Type 1377 Duragauge® Pressure Gauge	13
Type 1379 Duragauge® Pressure Gauge	13
Type 2462 Pressure Gauge	13
Type 1259 Pressure Gauge	14
Type 1279, 1379, 1377, 2462 Receiver Gauges ...	14

STAINLESS STEEL CASE & INDUSTRIAL GAUGES

Type T5500 & 6500 Pressure Gauge	15
Type 1008S/SL Pressure Gauge 40 & 50mm	15
Type 1008S/SL Pressure Gauge 63 & 100mm	15
Type 1008S/SL 63 & 100mm1 Center Back Connect Gauge	15
Type 1009 Duralife® Pressure Gauge 2 1/2", 3 1/2"	16
Type 2008S/SL 63mm	16
Type 1009 Stainless Steel Case 4 1/2", 6"	16
Type 1109 General Service Gauge	16
Type 1009, 1010, 1017, 1220 Hydraulic Gauges ...	17
Type 1009, 1010, 1017, 1220 Receiver Gauges	17
Type 1009, 1010, 1017, 1220 Refrigeration Gauge ..	17
Type 1010 General Service Gauge	17
Type 1017 General Service Gauge	18
Type 1220 General Service Gauge	18
Type 1020S Xmas Tree Gauge	18
Type 1038, 1339 Duplex Gauge	18
Type 1150H Reid Vapor Gauge	21
Type 1122 Gauge	21
Type 1187, 1188, 1189 LP Bellows Gauge	21
Type 1490 LP Diaphragm Gauge	22
Type 1495 LP Receiver Gauge	22
Type 2074, 2174, 2274 Industrial Gauge	22
Type DG25 General Purpose Gauge	22

DIFFERENTIAL GAUGES

Type 1125, 1125A Differential Gauge	19
Type 1127, 1128 Differential Gauge	19
Type 1130 Differential Gauge	19
Type 1131 Differential Gauge	19
Type 1132 Differential Gauge	20
Type 1133 Differential Gauge	20
Type 1134 Differential Gauge	20
Type 5503 Differential Gauge	20
Type 5509 Differential Gauge	21

SANITARY GAUGES

Type 2030 Series Digital Sanitary Gauge	23
Type 1032 Fractional Sanitary Gauge	23
Type 1032 Sanitary Gauge	23
Type 1036 w/1037 Instrument Fitting	23

COMMERCIAL GAUGES

Type 1005P, 1005, 1005S	25
Type 1001T Panel Gauge	25
Type 1008A/AL General Service Gauge	25
Type 1005M, XRG Agricultural Ammonia	25
Type 1005P, XUL Sprinkler Service Gauge	26
Type 1007P, XOR Refrigeration Manifold	26
Type 2071 Contractor Gauge	26
Type 23 DDG Minigauge®	26
Type 12/15 DDG Direct Drive Gauge	27

DIAPHRAGM SEALS/ INSTRUMENT ISOLATORS

Type 100/200/300	29
Type 101/201/301	29
Type 400/401	29
Type 500/501	29
Type 740/741	29
Type 510	30
Type 510HP	30
Type 511	30
Type 511HP	30
Type 311	30
Type 312	31
Type 310/315	31
Type 330	31
Type 320/321	31
Type 104/204	31
Type 102/202/302	32
Type 103/203/303	32
Type 106/206	32
Type 402/403	32
Type 702/703	32
Type 105/205	33
Type 107/207	33
Type 108/208	33
Type 80/81	33
Type 85/86	33

TRANSDUCERS AND TRANSMITTERS

GC31 Type Rangeable Pressure	35
GC35 Type Rangeable Pressure	35
GC51 Type Rangeable Pressure Transmitter	35
GC55 Wet/Wet Differential Pressure Transmitter ...	35
A2 Heavy Industrial Explosion Proof Transmitters ..	36
AX2 Explosion/Flame Proof Pressure Transmitters ..	36
A4 Intrinsically Safe & Non-Incendive Pressure Transmitters	36
H2 Precision Pressure Transducer	36
T2 High Performance Pressure Transducer	37
G2 OEM Pressure Transducer	37
KM15 OEM Transducer	37
K1/K2 Series Industrial Transducer	37
K8 Series Transducer w/mV Signal	38
KX/KS Series Sanitary Transducers	38
GC30 Type Rangeable Pressure	38
GC52 Rangeable Wet/Wet DP Transmitter	38
CXLdp Series	39
DXLdp Series	39
RXLdp Series	39
XLdp Series	39
IXLdp Series	40
Type 2279 Duratran® Pressure Transmitters	40
Type DM61 Digital Panel Meter	40
Type 4080/4480 Pneumatic Transmitters	40

THERMOMETERS

EI, CI, EL Industrial Bimetal Thermometer	41
600A/600B Duratemp® Thermometer	41

PRESSURE & TEMPERATURE SWITCHES

B-Series Single Setpoint Watertight	43
B-Series Single Setpoint Explosion Proof	43
L-Series Dual Setpoint Watertight	43
P-Series Dual Setpoint Watertight	43
G-Series Watertight Stainless Steel	44
F-Series Compact Explosion Proof Pressure	44
A-Series Miniature Watertight Pressure Switches ..	44
A-Series Miniature Explosion Proof Pressure Switches	44
N-Series Electronic Pressure Switches	45
Differential Pressure Switch Actuator	45
ATEX Approval for Hazardous Locations	45
U.L. Listed Steam Limit Control	45
U.L. Listed Pressure Limit Control	46
DDS Differential Pressure Switch Diaphragm Sensing Element	46

**TYPES 2089, 2086, 2084
PRECISION DIGITAL
TEST GAUGE**


ACCURACY
±0.05%, 0.10% or 0.25% of span

CASE SIZE
3"

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

RANGES
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
CE, EN 50082-1 (1997), FM, CSA

LOOK FOR THESE MARKS ON OUR PRODUCTS



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.

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


ACCURACY:
±0.25% of span

CASE SIZE
3, 4 1/2"

CASE MATERIAL
(3") 300 series stainless steel
(4 1/2") fiberglass reinforced thermoplastic
(4 1/2") black painted aluminum

WETTED MATERIALS
17-4 PH stainless steel sensor;
316 stainless steel socket

SOCKET SIZE
1/4 NPT, 1/2 NPT (4 1/2" 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
(4 1/2") Two C alkaline batteries
Loop powered 4-20mA
Line powered, (12-36 Vdc, 1 amp)

BATTERY LIFE
(3") <1500 hrs.
(4 1/2") <2500 hrs.

OPERATING TEMPERATURE
14/140°F (-10/60°C)

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

AGENCY APPROVALS
CE, EN 50082-1 (1997) optional, FM, CSA,

LOOK FOR THESE MARKS ON OUR PRODUCTS



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.

**TYPE DG25
GENERAL PURPOSE
DIGITAL GAUGE**


*Protective Boot Optional

ACCURACY
±0.5% of span or ±0.25% span

CASE SIZE
2 1/2"

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



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.

**TYPE 2030 SERIES DIGITAL
SANITARY GAUGE**


Direct Mount



Remote Mount

ACCURACY
±0.25% of span terminal point accuracy

DIAL SIZE
3"

CASE MATERIAL/FINISH
(3") 300 series SS, electropolished

WETTED MATERIALS
316L stainless steel

TRI-CLAMP CONNECTION
Direct, in-line 1.5", 2.0"; Ashcroft 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)



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





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
			
ACCURACY ASME B 40.100 Grade 2A ($\pm 0.5\%$ of span)	ACCURACY ASME B 40.100 Grade 3A ($\pm 0.25\%$ of span)	ACCURACY $\pm 0.05\%$, 0.10% or 0.25% of span	PRESSURE MEASUREMENT ACCURACY ± 0.025 , 0.05 and 0.1% of span
DIAL SIZE 3"	DIAL SIZE 4 1/2", 6", 8 1/2"	CASE SIZE 3"	PRESSURE RANGES 0/0.25 in. H ₂ O 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 differential
MATERIAL 316 stainless steel	WETTED MATERIAL Bronze/brass, Monel	WETTED MATERIALS 316 stainless steel	TEMPERATURE COMPENSATION 20-120°F
SENSING ELEMENT Bourdon tube	SENSING ELEMENT Bourdon tube	SOCKET SIZE 1/4 NPT, 1/8 NPT (others on application)	TEMPERATURE MEASUREMENT Supports most common RTD-type temperature probes and thermocouples
CONNECTION 1/4 NPT lower only	CONNECTION 1/4 NPT (standard) and 1/2 NPT lower or back (optional)	CONNECTION Lower (6 o'clock), top, side	DIMENSIONS 8.7 in. (L) x 5.1 in. (W) x 3.8 in. (H)
RANGES Vac. to 1000 psi	RANGES Vac. to 10,000 psi	RANGES Vac., 5 psi thru 7000 psi including compound and absolute	WEIGHT Max. 2.4 lbs. w/2 pressure modules installed
	TEMPERATURE ERROR <.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)	DISPLAY 1.5" x 2.5" graphic LCD display with backlight. Can display readings from 2 simultaneous modules
		STORAGE TEMPERATURE -40/180°F (-40/82°C)	ELECTRICAL CONNECTION 4mm banana jacks (one set of test leads provided with each ATE-2)
		AGENCY APPROVALS CE, EN 50082-1 (1997), FM, CSA	UPDATE RATE 100 ms (nominal) with one module installed
		LOOK FOR THESE MARKS ON OUR PRODUCTS 	RESOLUTION $\pm 0.0015\%$ of span, 66,000 counts (max)
			DAMPING Programmable filtering levels one through 16
			SERIAL INTERFACE Type: USB
			AGENCY APPROVALS Standard: CE, 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.

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

**TYPE AVC-1000 & 3000
VOLUME CONTROLLER**

TYPE

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

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.

**TYPE A4A PRECISION
DIAL PRESSURE GAUGE**

ACCURACY
 $\pm 0.10\%$ of span – ASME B40.1, Grade 4A

CASE

Cast aluminum solid front

DIAL SIZE

6", 8 1/2", 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

RANGES

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

Usage requiring 1/2% 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.

**1279 DURAGAUGE®
PRESSURE GAUGE**


ACCURACY
ASME B 40.100 Grade 2A ($\pm 0.5\%$ of span)

DIAL SIZE
4½"

CASE MATERIAL
Phenolic

WETTED MATERIAL
316 stainless steel, bronze/brass, Monel

SENSING ELEMENT
Bourdon tube

CONNECTION
½ NPT (standard) lower or back
¼ NPT (optional)

RANGES
Vacuum, 15 to 30,000 psi, compound

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

**1377 DURAGAUGE®
PRESSURE GAUGE**


ACCURACY
ASME B 40.100 Grade 2A ($\pm 0.5\%$ of span)

DIAL SIZE
4½", 6", 8½"

CASE MATERIAL
Aluminum

WETTED MATERIAL
316 stainless steel, bronze/brass, Monel

SENSING ELEMENT
Bourdon tube

CONNECTION
½ NPT (standard) lower or back
¼ NPT (optional)

RANGES
Vacuum, 15 to 30,000 psi, compound

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

**1379 DURAGAUGE®
PRESSURE GAUGE**


ACCURACY
ASME B 40.100 Grade 2A ($\pm 0.5\%$ of span)

DIAL SIZE
4½", 6", 8½"

CASE MATERIAL
Aluminum

WETTED MATERIAL
316 stainless steel, bronze/brass, Monel, Inconel

SENSING ELEMENT
Bourdon tube

CONNECTION
½ NPT (standard) lower or back
¼ NPT (optional)
¼" HP connection over 30,000 psi

RANGES
Vacuum, 15 to 100,000 psi, compound

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

**2462 DURAGAUGE®
PRESSURE GAUGE**


ACCURACY
ASME B 40.100 Grade 2A ($\pm 0.5\%$ of span)

DIAL SIZE
6"

CASE MATERIAL
Polypropylene

WETTED MATERIAL
316 stainless steel, bronze/brass, steel, Monel

SENSING ELEMENT
Bourdon tube

CONNECTION
½ NPT (standard) lower or back
¼ NPT (optional)

RANGES
Vacuum, 15 to 30,000 psi, compound

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

**1259 PROCESS
PRESSURE GAUGE**

ACCURACY

 ASME B 40.100 Grade 2A ($\pm 0.5\%$ of span)

DIAL SIZE

4 1/2"

CASE MATERIAL

Polypropylene

WETTED MATERIAL

316 stainless steel, Monel

SENSING ELEMENT

Bourdon tube

CONNECTION

 1/2 NPT (standard) lower
1/4 NPT (optional)

RANGES

Vacuum, 15 to 20,000 psi, compound

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

**1279, 1379, 1377, 2462
RECEIVER GAUGES**

ACCURACY

 ASME B 40.100 Grade 2A ($\pm 0.5\%$ of span)

DIAL SIZES

 1279AS-XPR – 4 1/2"
1377AS-XPR – 4 1/2", 6", 8 1/2"
1379AS-XPR – 4 1/2", 6", 8 1/2"
2462AS-XPR – 6"

CASE MATERIAL

 1279AS-XPR – Phenolic
1377AS-XPR – Aluminum
1379AS-XPR – Aluminum
2462AS-XPR – Polypropylene

SENSING ELEMENT

Bourdon tube

CONNECTION

 1/2 NPT (standard)
1/4 NPT (optional)

CONNECTION LOCATION

 1279AS-XPR – Lower/Back, Back
1377AS-XPR – Back, Lower/Back
1379AS-XPR – Back, Lower/Back
2462AS-XPR – Lower/Back, Back

RANGES

3-15 psi & 3-27 psi

For use with pneumatic transmitters.

**T5500 & T6500
PRESSURE GAUGE**

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

RANGES

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

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

**1008S 40 & 50 mm
PRESSURE GAUGE**

ACCURACY

ASME B 40.100 Grade B ($\pm 3-2-3\%$ 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

RANGES

Vac. to 15,000 psi

Available dry and glycerin filled

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.

**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
1/2 NPT lower (100mm)
JIS, DIN, BSP sockets available

RANGES

Vac. to 15,000 psi

Available dry and glycerin filled

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

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

ACCURACY

ASME B 40.100 Grade B ($\pm 3-2-3\%$ 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

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	2008S/SL 63mm PANEL GAUGE	1009 4½" & 6" STAINLESS STEEL CASE	1109 4½" STAINLESS STEEL CASE
   	 	  	 
ACCURACY ASME B 40.100 Grade 1A (±1% of span)	ACCURACY 1.6% F. S.	ACCURACY ASME B 40.100 Grade 1A (±1% of span)	ACCURACY ASME B 40.100 Grade 1A (±1% of span)
DIAL SIZE 2½", 3½"	DIAL SIZE 63mm	DIAL SIZE 4½", 6"	DIAL SIZE 4½"
CASE MATERIAL Stainless steel	CASE MATERIAL Stainless steel	CASE MATERIAL Stainless Steel	CASE MATERIAL Stainless Steel
WETTED MATERIAL 316L stainless steel, Bourdon tube	WETTED MATERIAL 316L stainless steel	TUBE MATERIAL Bronze, 316 stainless steel, Monel	TUBE MATERIAL 316 stainless steel Inconel
SENSING ELEMENT Bourdon tube	SENSING ELEMENT Bourdon tube	SENSING ELEMENT Bourdon tube	SENSING ELEMENT Bourdon tube
CONNECTION ¼ NPT lower or lower back ¼ NPT lower or lower back ½ NPT lower (3½") JIS, DIN, BSP, tube stub	CONNECTION ¼ NPT only lower back	CONNECTION ¼ NPT lower or back ½ NPT lower or back	CONNECTION ½ NPT lower, ¼ NPT lower (optional) ¼ NPT lower high pressure
RANGES Vac. to 15,000 psi	RANGES Vac., Compound 0-15,000 psi Available dry and glycerin filled, with PLUS! Performance	RANGES Vac. to 30,000 psi	RANGES Vac. to 1500 psi / 2000-20,000 psi 50,000-100,000 psi
Stainless steel and aluminum bronze sockets			
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**


1010 GAUGE SHOWN

ACCURACY
ASME B 40.100 Grade 1A ($\pm 1\%$ of span)

DIAL SIZE
1009 – 4 1/2", 6"
1010 – 4 1/2", 6", 8 1/2", 12"
1017 – 4 1/2", 6"
1220 – 4 1/2", 6", 8 1/2"

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

Uniquely designed for rigorous hydraulic services.

**1009, 1010, 1017, 1220
RECEIVER GAUGES**


1220 GAUGE SHOWN

ACCURACY
ASME B 40.100 Grade 1A ($\pm 1\%$ of span)

DIAL SIZE
1009 – 4 1/2", 6"
1010 – 4 1/2", 6", 8 1/2", 12"
1017 – 4 1/2", 6"
1220 – 4 1/2", 6", 8 1/2"

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

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

**1009, 1010, 1017, 1220
REFRIGERATION GAUGE**


1010 GAUGE SHOWN

ACCURACY
ASME B 40.100 Grade 1A ($\pm 1\%$ of span)

DIAL SIZE
1009 – 4 1/2", 6"
1010 – 4 1/2", 6", 8 1/2", 12"
1017 – 4 1/2", 6"
1220 – 4 1/2", 6", 8 1/2"

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

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

**1010 4 1/2", 6", 8 1/2", 12"
GENERAL SERVICE GAUGE**


ACCURACY
ASME B 40.100 Grade 1A ($\pm 1\%$ of span)

DIAL SIZE
4 1/2", 6", 8 1/2", 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

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

**1017 4½," 6"
GENERAL SERVICE GAUGE**


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

DIAL SIZE
4½," 6"

CASE MATERIAL
Stainless steel, aluminum, phenolic

TUBE MATERIAL
Bronze, stainless steel, Monel

SENSING ELEMENT
Bourdon tube

CONNECTION
¼ NPT back
½ NPT back

RANGES
Vac. to 30,000 psi

General industrial applications, large dials for easier readings. used on pumps, air or oil monitoring, etc. for panel mount applications.

**1220 4½," 6," 8½"
GENERAL SERVICE GAUGE**


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

DIAL SIZE
4½," 6," 8½"

CASE MATERIAL
Stainless steel, aluminum, phenolic

TUBE MATERIAL
Bronze, stainless steel, Monel

SENSING ELEMENT
Bourdon tube

CONNECTION
¼ NPT lower or back
½ NPT lower or back

RANGES
Vac. to 30,000 psi

General industrial applications, large dials for easier readings. used on pumps, air or oil monitoring, etc.

**1020S 4½"
XMAS TREE GAUGE**


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

DIAL SIZE
4½"

CASE MATERIAL
Stainless steel

TUBE MATERIAL
316 stainless steel

SENSING ELEMENT
Bourdon tube

CONNECTION
Lower

RANGES
Up to 20,000 psi – ½ NPT, ¼ NPT

Uniquely designed to meet rugged oil field applications.

**1038, 1339 3½," 4½,"
DUPLEX GAUGE**


1038 GAUGES SHOWN

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

DIAL SIZE
3½," 4½"

CASE MATERIAL
Aluminum, cast iron

TUBE MATERIAL
Bronze

SENSING ELEMENT
Bourdon tube

CONNECTION
Lower/back

RANGES
1038A – 3½," 4½," – ¼ NPT 30/1000 psi
1339A – 4½," – ¼ NPT 30/1000 psi
Back conn. only

Uniquely designed to indicate two related pressures on the same dial.

1125, 1125A 4½" DIFFERENTIAL GAUGE


ACCURACY
ASME B 40.100 Grade A ($\pm 2-1-2\%$ of span)

DIAL SIZE
4½", 6"

CASE MATERIAL
Aluminum

TUBE MATERIAL
Bronze

SENSING ELEMENT
Bourdon tube

CONNECTION
Lower/back

RANGES
1125 – 4½", 6"⁽¹⁾ – ¼ NPT 20/1000 psi
1125A – 4½", 6"⁽¹⁾ – ¼ NPT 10/0/10 psi-
500/0/500 psi

⁽¹⁾ Lower connect only

Application include filter monitoring, flow, leak and level measurements.

1127, 1128 4½", 6" DIFFERENTIAL GAUGE


ACCURACY
ASME B 40.100 Grade A ($\pm 2-1-2\%$ of span)

DIAL SIZE
4½", 6"

CASE MATERIAL
Aluminum

TUBE MATERIAL
316 stainless steel

SENSING ELEMENT
Bourdon tube

CONNECTION
Lower

RANGES
1127 – 4½", 6" – ¼ NPT 10/1000 psi
1128 – 4½", 6" – ¼ NPT 10/0/00 psi-
400/0/400 psi

Application include filter monitoring, flow, leak and level measurements.

1130 2", 2½", 3½", 4", 4½", 6" DIFFERENTIAL GAUGE


ACCURACY
 $\pm 2\%$ ascending

DIAL SIZE
2", 2½", 3½", 4", 4½", 6"

CASE MATERIAL
Stainless steel

BODY MATERIAL
Aluminum, brass, stainless steel

SENSING ELEMENT
Piston

CONNECTION
In-line, lower, back

RANGES
0-5 psid to 150 psid

Applications include filter monitoring, flow, leak and level measurement. High pressure, high differential with migration.

1131 2½", 3½", 4", 4½", 6" DIFFERENTIAL GAUGE


ACCURACY
 $\pm 2\%$ ascending

DIAL SIZE
2½", 3½", 4", 4½", 6"

CASE MATERIAL
Stainless steel

BODY MATERIAL
Aluminum, brass, stainless steel

SENSING ELEMENT
Rolling diaphragm

CONNECTION
In-line, lower, back

RANGES
0-5 psid to 100 psid

Applications include filter monitoring, flow, leak and level measurement. High pressure, high differential, no migration.

**1132 2½", 3½", 4", 4½", 6"
DIFFERENTIAL GAUGE**

**EXPLOSION PROOF
SWITCH ENCLOSURES
AVAILABLE**



ACCURACY
±2% ascending

DIAL SIZE
2½", 3½", 4", 4½", 6"

CASE MATERIAL
Stainless steel

BODY MATERIAL
Aluminum, brass, stainless steel

SENSING ELEMENT
Convolute diaphragm

CONNECTION
In-line, lower, back

RANGES
0-1 psid to 60 psid
(including inches of water ranges)

Applications include filter monitoring, flow, leak and level measurement. High pressure, high differential, no migration.

**1133 3½", 4", 4½", 6"
DIFFERENTIAL GAUGE**


ACCURACY
±2% ascending

DIAL SIZE
3½", 4", 4½", 6"

CASE MATERIAL
Stainless steel

BODY MATERIAL
Aluminum, stainless steel

SENSING ELEMENT
Convolute diaphragm

CONNECTION
In-line, lower, back

RANGES
0-1 IWD to 25 IWD

Applications include filter monitoring, flow, leak and level measurement. High pressure, high differential, no migration.

**1134 4½"
DIFFERENTIAL GAUGE**


ACCURACY
±3% ascending

DIAL SIZE
4½"

CASE MATERIAL
Stainless steel

BODY MATERIAL
Glass filled nylon

SENSING ELEMENT
Convolute diaphragm

CONNECTION
Dual (In-line or back)

RANGES
0-0.6 IWD to 60 IWD

Applications include fume hoods, air handlers, filter monitoring, flow and level. Inches of water with no migration.

**5503 100mm & 160mm
DIFFERENTIAL GAUGE**


ACCURACY
±1.6% of span

DIAL SIZE
100mm, 160mm

CASE MATERIAL
Stainless steel

SENSING MATERIAL
316 stainless steel

SENSING ELEMENT
Diaphragm

CONNECTION
Lower

RANGES
0-16 IWD to 400 psid

Applications include filter monitoring, flow, leak and level measurement requiring high recovery, all stainless steel.

**5509 100mm & 160mm
DIFFERENTIAL GAUGE**


ACCURACY
±2.5% of span

DIAL SIZE
100mm, 160mm

CASE MATERIAL
Stainless steel

SENSING MATERIAL
316 stainless steel

SENSING ELEMENT
Diaphragm

CONNECTION
Lower

RANGES
0-10 IWD to 400 psid

Applications include filter monitoring, flow, leak and level measurement requiring high recovery, all stainless steel.

1150H 4½" REID VAPOR GAUGE


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

DIAL SIZE
4½"

CASE MATERIAL
Aluminum

TUBE MATERIAL
316 stainless steel

SENSING ELEMENT
Bourdon tube

CONNECTION
¼ NPT lower

RANGES
15/600 psi

Uniquely designed for testing petroleum products with the Reid vapor process.

1122, 2½" GAUGE


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

DIAL SIZE
2½"

CASE MATERIAL
Stainless steel

TUBE MATERIAL
Stainless steel

SENSING ELEMENT
Bourdon tube

CONNECTION
¼ NPT lower

RANGES
15/1000 psi

Applications include compressors, pumps and turbines.

**1187, 1188, 1189 LOW
PRESSURE BELLOWS GAUGES**


1188 GAUGE SHOWN

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
1187⁽¹⁾ - 4½"
1188 - 4½"
1189⁽²⁾ - 4½", 6"

CASE MATERIAL
Aluminum, phenolic

TUBE MATERIAL
Brass, 316 stainless steel, Monel

SENSING ELEMENT
Bellows

CONNECTION
1187 - ¼, ½ NPT back
1188 - ¼, ½ NPT lower or back
1189 - ¼, ½ NPT lower

RANGES
10 in.H₂O to 10 psi including vacuum and compound

⁽¹⁾ Back connect only
⁽²⁾ Lower connect only

Low pressure monitoring for general industrial applications on air, liquids or gases.

**1490, 2½," 3½" LOW
PRESSURE DIAPHRAGM 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
2½," 3½"

CASE MATERIAL
Polysulfone

WETTED MATERIAL
Copper, Brass, Polysulfone, RTV, Silicone

SENSING ELEMENT
Diaphragm

CONNECTION
¼ NPT lower or center back
¼ NPT lower or center back
Hose barb

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

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

**1495, 2½," 3½" LOW
PRESSURE RECEIVER 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
2½," 3½"

CASE MATERIAL
Polysulfone

WETTED MATERIAL
Copper, Brass, Polysulfone, RTV, Silicone

SENSING ELEMENT
Diaphragm

CONNECTION
¼ NPT lower or center back
¼ NPT lower or center back
Hose barb

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

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

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


ACCURACY:
 $\pm 0.25\%$ of span

CASE SIZE
3," 4½"

CASE MATERIAL
(3") 300 series stainless steel
(4½") fiberglass reinforced thermoplastic
(4½") black painted aluminum

WETTED MATERIALS
17-4 PH stainless steel sensor;
316 stainless steel socket

SOCKET SIZE
¼ NPT, ½ NPT (4½" 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
CE, EN 50082-1 (1997) optional, FM, CSA

LOOK FOR THESE MARKS ON OUR PRODUCTS



Available with optional (1) or (2) SPDT switch-
es 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.

**TYPE DG25
GENERAL PURPOSE
DIGITAL GAUGE**


ACCURACY
 $\pm 0.5\%$ of span or $\pm 0.25\%$ span

CASE SIZE
2½"

CASE MATERIAL
Polycarbonate/ABS

WETTED MATERIALS
17-4 PH stainless steel sensor;
316 stainless steel socket

SOCKET SIZE
¼ NPT, ½ NPT, G¼A, G¼B, ⅝-18 UNF

CONNECTION
Lower (6 o'clock), 3, 9 and 12 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

LOOK FOR THIS MARK ON OUR PRODUCT



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.

**TYPE 2030 SERIES DIGITAL
SANITARY GAUGE**


ACCURACY
±0.25% of span terminal point accuracy

DIAL SIZE
3"

CASE MATERIAL/FINISH
(3") 300 series SS, electropolished

WETTED MATERIALS
316L stainless steel

TRI-CLAMP CONNECTION
Direct, in-line 1.5", 2.0"; Ashcroft 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)



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

**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 (¾" Tri-Clamp®) only

RANGES
30# thru 600#, including compound

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. Can be autoclaved. Standard window glass.

**TYPE 1032
SANITARY GAUGE**


ACCURACY
2½", 3½", 4½" – ±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
2½", 3½", 4½"

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 (1½" 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 standard

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

**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
3½"

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 (1½" 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 with zero deadleg and highly polished stainless steel surfaces.

TYPE 1005P/1005/1005S	TYPE 1001T PANEL GAUGE	TYPE 1008A/AL GENERAL SERVICE GAUGE	TYPE 1005M, XRG AGRICULTURAL AMMONIA
			
ACCURACY ASME B 40.100 Grade B (± 3 -2-3% of span)	ACCURACY ASME B 40.100 Grade B (± 3 -2-3% of span)	ACCURACY ASME B 40.100 Grade B (± 3 -2-3% of span)	ACCURACY ASME B 40.100 Grade B (± 3 -2-3% of span)
DIAL SIZE 1½", 2", 2½", 3½" (4½" available with steel case/ring and plastic window, Type 1000)	DIAL SIZE 1½", 2", 2½", 3½"	DIAL SIZE 63mm (2½"), 100mm (4")	DIAL SIZE 2½"
CASE MATERIAL 1005P – ABS, black 1005 – Black painted steel 1005S – Stainless steel (1½" & 2" only) <i>Optional, color other than black, vent hole, panel mount sleeve for 1005P back connect</i>	CASE MATERIAL Black painted steel	CASE & RING MATERIAL 304 stainless steel, dry, liquid filled or field fillable	CASE MATERIAL Black painted steel
WETTED MATERIAL Bronze/brass. <i>Optional sockets, nickel plated, Teflon taped, top or side connections, throttle plugs</i>	WETTED MATERIAL Bronze/brass.	WETTED MATERIAL Bronze/brass	WETTED MATERIAL 316 stainless steel/steel
SENSING ELEMENT Bourdon tube; Ashcroft patented PowerFlex™ movement	SENSING ELEMENT Bourdon tube; Ashcroft patented PowerFlex™ movement	SENSING ELEMENT Bourdon tube; Ashcroft patented PowerFlex™ movement	SENSING ELEMENT Bourdon tube; Ashcroft patented PowerFlex™ movement
CONNECTION ½" and ¼" NPT back and lower (1½" 1005S available in ½" NPT back only; 1½" 1005/1005P available in ½" NPT lower and back; 4½" Type 1000 available in ¼" NPT only)	CONNECTION ½" NPT back, ¼" NPT back (1½" not available in ¼" NPT)	CONNECTION ¼" NPT lower and back <i>Optional, metric and SAE connection</i>	CONNECTION ¼" NPT lower <i>Optional, 0.020" orifice stainless steel throttle plug</i>
RANGES Vac.-6000 psi and compound*	RANGES Vac.-6000 psi and compound*	RANGES Vac.-15,000 psi and compound	RANGES 0/60 psi, 0/150 psi, 0/400 psi
<small>*All ranges listed may not be available in all sizes/connections. Please consult individual spec sheets.</small>	<small>Note: For panel mount refrigeration gauge (recovery, recycling) specify 1001T, XRR gauge</small> <small>*All ranges may not be available in all ranges/connections. Please consult individual spec sheets.</small>		
<p>Applications include compressors, filter regulators, medical equipment, automotive diagnostic, beverage dispensing, industrial machinery and a variety of other applications.</p>	<p>Applications include instrument panels, air-conditioning equipment, air and gas compressors, machine tools and a variety of other applications.</p>	<p>Applications include hydraulic systems, machine tools, pressure washers/sprayers and a variety of other applications.</p>	<p>This product was designed to withstand rugged agricultural applications. Features include stainless tube and socket, in addition to glass window, necessary for anhydrous ammonia applications.</p>

TYPE 1005P, XUL SPRINKLER SERVICE GAUGE	TYPE 1007P, XOR REFRIGERATION MANIFOLD	TYPE 2071 CONTRACTOR GAUGE	TYPE 23DDG MINIGAUGE® PRESSURE GAUGE
 <p>UL LISTED FM APPROVED LOOK FOR THESE MARKS ON OUR PRODUCTS</p>	 <p>FlutterGuard standard feature of this product</p>		
ACCURACY ASME B 40.100 Grade B (± 3 -2-3% of span)	ACCURACY $\pm 1\%$ at zero, $\pm 2\%$ three fourths of scale, $\pm 5\%$ last fourth of scale	ACCURACY ASME B 40.100 Grade A (± 2 -1-2% of span)	ACCURACY $\pm 5\%$ of span
DIAL SIZE 3 1/2"	DIAL SIZE 2 1/2"	DIAL SIZE 4 1/2"	DIAL SIZE 23mm (0.906")
CASE MATERIAL ABS/polycarbonate blend	CASE MATERIAL ABS, red (high pressure) ABS, blue (low pressure) <i>Optional, black, ABS</i>	CASE & RING MATERIAL Aluminum with back-flange case, painted black; chrome plated ring	CASE MATERIAL ABS blend, black
WETTED MATERIAL Bronze/brass	WETTED MATERIAL Bronze/brass	WETTED MATERIAL Bronze/brass soldered, siphon required for steam service	WETTED MATERIAL Beryllium copper tube/brass socket
SENSING ELEMENT Bourdon tube; Ashcroft patented PowerFlex™ movement	WETTED MATERIAL Bronze/brass	SENSING ELEMENT Bourdon tube; Ashcroft patented PowerFlex™ movement	SENSING ELEMENT Spiral wound Bourdon tube
CONNECTION 1/4 NPT lower	SENSING ELEMENT Bourdon tube; Ashcroft patented PowerFlex™ movement with FlutterGuard™	CONNECTION 1/4 NPT lower <i>Optional, throttle plugs</i>	CONNECTION 1/8 NPT back with 15mm (9/16") wrench flats. <i>Optional, throttle plugs, PT 1/8" (JIS) and R 1/8" (BSPT) threads</i>
RANGES 0-300 psi (water), 0-80 psi retard to 250 psi (air), 0-600 psi <i>Optional, dual and triple scale metric dials</i>	CONNECTION 1/8 NPT lower	RANGES Vac-600 psi and compound	RANGES 60 psi-100 psi (180° dial arc) 160 psi-300 psi (235° dial arc)
<p>These gauges are UL-393 listed, UL of Canada listed and FM approved for fire protection sprinkler service for either water or air systems.</p>	<p>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.</p> <p>Note: for panel mount refrigeration gauges (recovery, recycling) see Type 1001T gauge. Specify 1001T, XRR gauge</p>	<p>These gauges are designed to meet the needs of heating, ventilating, plumbing and air-conditioning contractors.</p>	<p>These gauges are perfect for a multitude of applications where a 1 1/2" conventional size gauge is too large, such as mini-FRL's, pneumatic stack valves, air compressors and accessories.</p> <p>Consult factory for high cycle life applications</p>

**TYPE 12DDG/15DDG
DIRECT DRIVE GAUGE**

ACCURACY

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

DIAL SIZE

1 1/4", 1 1/2"

CASE MATERIAL

Stainless steel, sealed

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.

T H R E A D E D

Specification Matrix

Ashcroft Diaphragm Seals & Pressure Instrument Isolators

F = Female • = AVAILABLE
M = Male



Process Connection Type			Threaded	Threaded w/Flushing Connection	Threaded or Threaded w/Flushing Connection	Threaded or Threaded w/Flushing Connection	Low Pressure Threaded or Threaded w/Flushing Conn.*
Model No.	Code		100/200/300 ⁽¹⁾	101/201/301 ⁽¹⁾	400/401 ⁽¹⁾	500/501 ⁽¹⁾	740/741 ⁽¹⁾
Process Connection Size	Female	Male					
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
1 1/2	15						
2	20						
3	30						
4	40						
6	60						
8	80						
Diaphragm Materials							
316L stainless steel	S		100 & 200	101 & 201	•	•	•
304L stainless steel	C		100 & 200	101 & 201			
Monel 400	P		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	H		100 & 200	101 & 201	•	•	•
Teflon	T		200 & 300	201 & 301			
Viton	Y		200 & 300	201 & 301			
Kalrez	K		200 & 300	201 & 301			
Titanium	TI		200	201	•	•	•
Halar Coated Monel	R		100	101			
Bottom Housing Materials							
Steel	B		•	•			•
304L stainless steel	C		•	•			
316L stainless steel	S		•	•	•	•	•
Hastelloy B	G		•	•	•	•	•
Hastelloy C 22	J		•	•	•	•	•
Hastelloy C 276	H		•	•	•	•	•
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					•		
5000 psi	HP		100 & 200 metal diaph.	101 & 201 metal diaph.	401		
9000 psi	HP				400		
Instrument Connection Size							
1/4	02T		•	•	•	•	
1/2	04T		•	•	•	•	•
Filling Fluid							
Glycerin	CG		•	•	•	•	• ⁽⁴⁾
Silicone (direct to 10' capillary)	CK		•	•	•	•	•
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.

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

T H R E A D E D
Specification Matrix

 Ashcroft Diaphragm Seals &
Pressure Instrument Isolators

 F = Female ● = AVAILABLE
M = Male


Process Connection Type			Diaphragm Seal	Diaphragm Seal	Diaphragm Seal (w/Flushing Connection)	Diaphragm Seal (w/Flushing Connection)	Female & Male Threaded
Model No.	Code		510 ⁽¹⁾	510HP ⁽¹⁾	511	511HP	311
Process Connection Size	Female	Male					
1/4	25	02					F/M
1/2	50	04	M	M	M	M	F/M
3/4	75	06					F/M
1	10	08					F/M
1 1/2	15						
2	20						
3	30						
4	40						
6	60						
8	80						
Diaphragm Materials							
316L stainless steel	S		•	•	•	•	•
304L stainless steel	C						
Monel 400	P		•	•	•	•	
Nickel	N						
Carpenter 20	D						
Tantalum	U						•
Hastelloy B	G						
Hastelloy C 22	J						
Hastelloy C 276	H		•	•	•	•	•
Teflon	T						
Viton	Y						
Kalrez	K						
Titanium	TI						
Halar Coated Monel	R						
Bottom Housing Materials							
Steel	B						
304L stainless steel	C						
316L stainless steel	S		•	•	•	•	•
Hastelloy B	G						
Hastelloy C 22	J						
Hastelloy C 276	H		•	•	•	•	•
Carpenter 20	D						
Monel 400	M		•	•	•	•	
Inconel 600	W						
Nickel	N						
PVC	V						
Kynar	KY						
Titanium	TI						
Pressure Ratings ⁽¹⁾							
500 psi							
1000 psi							•
1500 psi			•		•		
2500 psi							
5000 psi	HP			•		•	
9000 psi	HP						
Instrument Connection Size							
1/4	02T						•
1/2	04T		•	•	•	•	•
Filling Fluid							
Glycerin	CG		•	•	•	•	•
Silicone (direct to 10' capillary)	CK		•	•	•	•	•
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" process size.

THREADED

Specification Matrix

Ashcroft Diaphragm Seals & Pressure Instrument Isolators

F = Female ● = AVAILABLE
M = Male



Process Connection Type			Female Threaded (w/Flushing Connection)	Male/Female Threaded Mini (w/Flushing Connection)	1" Male Flush Mini	Quick Connect	In-line Threaded
Model No.	Code		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	M		
1 1/2	15					•	
2	20					•	
3	30						
4	40						
6	60						
8	80						
Diaphragm Materials							
316L stainless steel	S		•	•	•	•	•
304L stainless steel	C						•
Monel 400	P			•			•
Nickel	N						•
Carpenter 20	D						•
Tantalum	U		•				•
Hastelloy B	G			•			•
Hastelloy C 22	J						•
Hastelloy C 276	H		•	•			•
Teflon	T						204
Viton	Y						204
Kalrez	K						204
Titanium	TI						•
Halar Coated Monel	R						104
Bottom Housing Materials							
Steel	B						•
304L stainless steel	C						•
316L stainless steel	S		•	•	•	•	•
Hastelloy B	G			•			•
Hastelloy C 22	J						•
Hastelloy C 276	H		•	•			•
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.
1000 psi			•			•	
2500 psi				•			Metal & Teflon® diaph.
3000 psi					•		
5000 psi	HP						
9000 psi	HP						
Instrument Connection Size							
1/4	02T		•	•	•	•	•
1/2	04T		•	•	•	2" only	•
Filling Fluid							
Glycerin	CG		•	•	•	•	•
Silicone (direct to 10' capillary)	CK		•	•	•	•	•
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" process size.

FLANGED
Specification Matrix

 Ashcroft Diaphragm Seals &
Pressure Instrument Isolators

 F = Female • = AVAILABLE
M = Male


Process Connection Type		Raised Face Flange	Raised Face Flange w/Flushing Connection	In-Line Flanged	Raised Face Flange *w/Flushing Connection	Low Pressure Flanged *w/Flushing Connection
Model No.	Code	102/202/302 ^(1,2)	103/203/303 ^(1,2)	106/206	402/403*	702/703*
Process Connection Size						
¼	25					
½	50	•	•	•	•	•
¾	75	•	•	•	•	•
1	10	•	•	•	•	•
1½	15	•	•	•	•	•
2	20	•	•	•	•	•
3	30	•	•	•	•	•
4	40			•		
6	60			•		
8	80			•		
Diaphragm Materials						
316L stainless steel	S	102 & 202	103 & 203	•	•	•
304L stainless steel	C	102 & 202	103 & 203	•		
Monel 400	P	102 & 202	103 & 203	•	•	•
Nickel	N	102 & 202	103 & 203	•		
Carpenter 20	D	102 & 202	103 & 203	•		
Tantalum	U	102 & 202	103 & 203	•	•	•
Hastelloy B	G	102 & 202	103 & 203	•	•	•
Hastelloy C 22	J	102 & 202	103 & 203	•	•	•
Hastelloy C 276	H	102 & 202	103 & 203	•	•	•
Teflon	T	202 & 302	203 & 303	206		
Viton	Y	202 & 302	203 & 303	206		
Kalrez	K	202 & 302	203 & 303	206		
Titanium	TI	202	203	206	•	•
Halar Coated Monel	R	102	103	106		
Bottom Housing Materials						
Steel	B	•	•	•		
304L stainless steel	C	•	•	•		
316L stainless steel	S	•	•	•	•	•
Hastelloy B	G	•	•	•	•	•
Hastelloy C 22	J	•	•	•	•	•
Hastelloy C 276	H	•	•	•	•	•
Carpenter 20	D	•	•	•		
Monel 400	M	•	•	•	•	•
Inconel 600	W	•	•			
Nickel	N	•	•			
PVC	V	1, 1½, 2				
Kynar	KY	1, 1½, 2				
Titanium	TI	•	•		•	•
Pressure Ratings ⁽¹⁾						
500 psi						
2500 psi						
Flange Class						
150, 300, 600, 900 or 1500		•	•	150	•	150, 300, 600
Instrument Connection Size						
¼	02T	•	•	•	•	•
½	04T	•	•	•	•	•
Filling Fluid						
Glycerin	CG	•	•	•	•	•
Silicone (direct to 10' capillary)	CK	•	•	•	•	•
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" process size.

IN-LINE

Specification Matrix

Ashcroft Diaphragm Seals & Pressure Instrument Isolators

F = Female ● = AVAILABLE
M = Male




		Saddle	In-line Socket Weld	In-line Butt Weld	Isolation Ring	Isolation Spool
		105/205	107/207	108/208	80/81	85/86
Process Connection Size					Pipe Size (inches)	Pipe Size (inches)
1/4	25		●	●	2.0 Type 80 only	1.0
1/2	50		●	●	3.0 12.0	1.5
3/4	75		●	●	4.0 14.0	Type 86 only
1	10		●	●	5.0 16.0	2.0
1 1/2	15		●	●	6.0 18.0	
2	20		●	●	8.0 20.0	
3	30	3"			10.0	
4	40	4" and larger				
6	60					
8	80					
Diaphragm Materials					Inner Flexible Wall	Inner Flexible Wall
316L stainless steel	S	●	●	●	Buna N (E)	Buna N (E)
304L stainless steel	C	●	●	●	Teflon (T)	Teflon (T)
Monel 400	P	●	●	●	Viton (Y)	Viton (Y)
Nickel	N	●	●	●	Natural Rubber (NP)	Natural Rubber (NP)
Carpenter 20	D	●	●	●	Silicone (S)	Silicone (S)
Tantalum	U	●	●	●		
Hastelloy B	G	●	●	●		
Hastelloy C 22	J	●	●	●		
Hastelloy C 276	H	●	●	●		
Teflon	T	205	207	208		
Viton	Y	205	207	208		
Kalrez	K	205	207	208		
Titanium	TI	205	207	208		
Halar Coated Monel	R	105	107	108		
Bottom Housing Materials					Ass'y. Flanges / Code	Ass'y. Flanges / Code
Steel	B	●	●	●	Carbon Steel (B)	Carbon Steel (B)
304L stainless steel	C	●	●	●	316 SS (S)	316 SS (S)
316L stainless steel	S	●	●	●	CPVC (CP)	CPVC (CP)
Hastelloy B	G	●	●	●	Teflon Enveloped (CT)	Teflon Enveloped (CT)
Hastelloy C 22	J	●	●	●	Polypropylene (P)	Polypropylene (P)
Hastelloy C 276	H	●	●	●		
Carpenter 20	D	●	●	●		
Monel 400	M	●	●	●		
Inconel 600	W	●	●	●		
Nickel	N	●	●	●		
PVC	V					
Kynar	KY					
Titanium	TI					
Pressure Ratings ⁽¹⁾					Pressure Rating Type 85	
500 psi		Viton or Kalrez diaph. only	Viton or Kalrez diaph. only	Viton or Kalrez diaph. only		2000 psi
2500 psi		Metal & Teflon [®] diaph.	Metal & Teflon [®] diaph.	Metal & Teflon [®] diaph.		
Flange Class					150 or 300	150 or 300
150, 300, 600, 900 or 1500						
Instrument Connection Size					1/4 NPT (02T)	1/4 NPT (02T)
1/4	02T	●	●	●		
1/2	04T	●	●	●	1/2 NPT (04T)	1/2 NPT (04T)
Filling Fluid						
Glycerin	CG	●	●	●	●	●
Silicone (direct to 10' capillary)	CK	●	●	●	●	●
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" process size.

**MODEL GC31
ULTRA-COMPACT DIGITAL
PRESSURE SENSOR**


ACCURACY: $\pm 1.0\%$ Span
ANALOG OUTPUT: (1-5Vdc)
DISPLAY TYPE: 3½ digit, 10mm LED
STANDARD RANGES (Gauge):
 50 to 1500 psig
STANDARD RANGES (Compound):
 -15 to 15 psig thru -15 to 300 psig
Proof Pressure:
 2X range: 500 psi & below
 1.5X range: 1000 psi & above
Burst Pressure:
 10X 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




LOOK FOR THIS MARK ON OUR PRODUCT

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 output and two independent switches. Ideal for monitoring and control of pneumatic and hydraulic systems where high cycle life and functionality is required.

**MODEL GC35 ULTRA-COMPACT
DIGITAL PRESSURE SENSOR**


ACCURACY: $\pm 1.0\%$ 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



LOOK FOR THIS MARK ON OUR PRODUCT


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.

**TYPE GC51 RANGEABLE
PRESSURE TRANSMITTER**


ACCURACY: $\pm 0.25\%$ Span (URL)0
ANALOG OUTPUT: 4-20mA (2-wire)
DISPLAY TYPE: 4 digit, 10mm LCD with LED backlight
STANDARD RANGES (Compound):
 -15 to 15psi thru -15 to 50psi
STANDARD RANGES (Gauge):
 50 to 7500 psig
Overpressure (Span):

Proof	Burst
1500psi and below	200% 500%
3000, 5000psi	150% 300%
7500psi	120% 150%

ENVIRONMENTAL RATING:
 IP65 / NEMA 4X
MEDIA: Fluids and gases compatible with 316SS and pH17-4 stainless steel
AGENCY APPROVALS: CE



LOOK FOR THIS MARK ON OUR PRODUCT

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

**TYPE GC55
WET/WET DIFFERENTIAL
PRESSURE TRANSDUCER**


ACCURACY: $\pm 0.5\%$ Span
ANALOG OUTPUT: (4-20mA or 1-5Vdc)
DISPLAY TYPE: 3½ digits
STANDARD RANGES (Differential):
 75 to 300 psid
Pressure Range

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

Static (Line) Pressure Effects: None
Single Side (Differential Limits):
Pressure Range

Proof	Burst
All	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

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.

**A2 HEAVY INDUSTRIAL AND
EXPLOSION PROOF TRANSMITTERS**

ACCURACY: ± 0.25 , ± 0.5 , $\pm 1.0\%$ 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



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

**A2X EXPLOSION/FLAME PROOF
PRESSURE TRANSMITTER**

ACCURACY: ± 0.25 , ± 0.5 , $\pm 1.0\%$ 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


The Ashcroft® A2X is ideal for a broad spectrum of pressure sensing applications where explosion/flareproof 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.

**A4 INTRINSICALLY
SAFE & NON-INCENDIVE
PRESSURE TRANSMITTER**

ACCURACY: $\pm .25$, ± 0.5 , $\pm 1.0\%$ 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
Burst: up to 4 x Span

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:


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.

**H2 PRECISION
PRESSURE TRANSDUCER**

ACCURACY: ± 0.15 , $\pm 0.20\%$ Span

OUTPUT: 4-20mA, 0-5Vdc, 0-10Vdc

STANDARD RANGES:
Gauge: 15 psig to 25,000 psig,
Vac/15 psig to Vac/300 psig,
Absolute: 15 psia to 150 psia

ENVIRONMENTAL RATING:
IP65: ≤ 300 psi
IP67: Ranges >300 psi

AGENCY APPROVALS:
CE Compliance: EN61326-1 2006,
EN61326-2-3 2006
EU RoHS Compliance


The Ashcroft® H2 precision pressure transducer is ideal for measuring and controlling challenging hydraulic and pneumatic operations. The high accuracy and performance, combined with rugged construction, provides a highly reliable and safe sensor platform.

**T2 HIGH PERFORMANCE
PRESSURE TRANSDUCER**


ACCURACY: $\pm 0.25\%$ 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)
Proof: up to 3 x Span
Burst: up to 10 x Span

ENVIRONMENTAL RATING:
NEMA 4X, IP65

AGENCY APPROVALS: CE



LOOK FOR THIS MARK
ON OUR PRODUCT

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:
 $\pm 1\%$ Span: through $-20/85^{\circ}\text{C}$ ($-4/185^{\circ}\text{F}$)
 $\pm 1.5\%$ Span: through $-40/-20^{\circ}\text{C}$ and $(-40/-4^{\circ}\text{F})$ and $85/125^{\circ}\text{C}$ ($185/257^{\circ}\text{F}$).

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



LOOK FOR THIS MARK
ON OUR PRODUCT

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).

**KM15 HIGH VOLUME
OEM PRESSURE TRANSDUCER**


ACCURACY:
 $\pm 0.5\%$ Span, 100 psig and above
 $\pm 1.0\%$ 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

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.

**K1/K2 SERIES
INDUSTRIAL TRANSDUCER**


ACCURACY: $\pm 0.5\%$, $\pm 1.0\%$ 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**
 ≤ 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

AGENCY APPROVALS:
Intrinsically Safe – FM (consult factory)



LOOK FOR THIS MARK
ON OUR PRODUCT

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.

**K8 SERIES
TRANSDUCER w/mV SIGNAL**


ACCURACY: ±0.5%, ±1.0% Span

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

STANDARD RANGES:
Pressure Ranges (Span): 45 to 20,000 psig
Overpressure (Span): **Proof Burst**
≤ 2000 psig 2 x Span 2 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

ENVIRONMENTAL RATING: NEMA 4X

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 Burst**
≤ 2000 psig 2 x Span 8 x Span
3000 to 5000 psig 1.5 x Span 3 x Span

ENVIRONMENTAL RATING: NEMA 4X

For use in sanitary, waste-water, food processing and pharmaceutical applications. The KS Series features a 316L stainless steel electropolished 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.

**MODEL GC30
ULTRA-COMPACT DIFFERENTIAL
PRESSURE SENSOR**


ACCURACY: ±1.5% Span

ANALOG OUTPUT: (1-5Vdc)

DISPLAY TYPE: 3½ 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 Silicone RTV

SWITCH CONTACTS:
(2) NPN or PNP open collector outputs

ENVIRONMENTAL RATING: IP40

AGENCY APPROVALS: CE



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 output with two independent, user configurable switches.

**TYPE GC52 RANGEABLE
WET/WET DIFFERENTIAL
PRESSURE TRANSMITTER**


ACCURACY: ±0.50% Span (URL)

OUTPUT 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.):
0 to 4 thru 400 i.w.c.

STANDARD RANGES

Static (Line) Pressure:
Pressure Range Proof Burst
All 300 psi 800 psi

Static (Line) Pressure Effects:
Pressure Range Effect
≥20" W.C., ±8" W.C. ±0.3% Span/100psi
8" W.C., ±4" W.C. ±0.7% Span/100psi
4" W.C. ±1.5% Span/100psi

Single Side (Differential) Limits:
Pressure Range Proof Burst
≤8" W.C., ±4" W.C. 30 psid 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: CE



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	DXLdp SERIES DIN MOUNT	RXLdp SERIES REDUCED SIZE	XLdp SERIES HIGH PERFORMANCE
 <p>3 YEAR WARRANTY</p>	 <p>3 YEAR WARRANTY</p>	 <p>3 YEAR WARRANTY</p>	 <p>3 YEAR WARRANTY</p>
ACCURACY: 0.8% or 0.4% Span	ACCURACY: 0.25%, 0.50% or 1.00% Span	ACCURACY: 1.00% Span	ACCURACY: 0.25% or 0.50% Span
OUTPUT SIGNAL: 4-20mA, (12-36Vdc), 0-5, 0-010Vdc (24Vac/Vdc)	OUTPUT SIGNAL: 4-20mA, (12-36Vdc), 1-5Vdc, 1-6Vdc, 0-5Vdc, 0-10Vdc	OUTPUT SIGNAL: 4-20mA, (12-36Vdc), 1-5Vdc, 1-6Vdc, 0-5Vdc, 0-10Vdc	OUTPUT SIGNAL: 4-20mA, (12-36Vdc), 1-5Vdc, 1-6Vdc
PRESSURE RANGES (Inches W.C.) Unidirectional: 0.10 to 0/25 I.W.C. Bidirectional: ±0.10 to ±15 I.W.C.	PRESSURE RANGES (Inches W.C.): Unidirectional: 0.10 to 100 I.W.C. Bidirectional: ±0.05 to ±100 I.W.C.	PRESSURE RANGES (Inches W.C.): Unidirectional: 0.10 to 50 I.W.C. Bidirectional: ±0.05 to ±50 I.W.C.	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	Overpressure Proof Pressure: 15 psi Burst Pressure: 25 psi Max. static (line) pressure: 25 psi	Overpressure Proof Pressure: 15 psi Burst Pressure: 25 psi Max. static (line) pressure: 25 psi	Overpressure Proof Pressure: 15 psi Burst Pressure: 25 psi Max. static (line) pressure: 25 psi
ENVIRONMENTAL RATING: NEMA 1	MOUNTING: DIN rail mount:	MEDIA	MEDIA
MOUNTING: DIN rail or panel mount	EN50022 EN50035 EN50045	Clean, dry and non-corrosive gas (consult factory for use on other media)	Clean, dry and non-corrosive gas (consult factory for use on other media)
MEDIA: Clean, dry and non-corrosive gas	MEDIA Clean, dry and non-corrosive gas (consult factory for use on other media)	NOT FOR USE ON LIQUIDS	NOT FOR USE ON LIQUIDS
NOT FOR USE ON LIQUIDS	NOT FOR USE ON LIQUIDS	ENVIRONMENTAL RATING: NEMA 1	ENVIRONMENTAL RATING: NEMA 2
ENVIRONMENTAL RATING: NEMA 1	ENVIRONMENTAL RATING: NEMA 1	AGENCY APPROVALS: CE (optional)	AGENCY APPROVALS: CE (optional)
AGENCY APPROVALS: CE	AGENCY APPROVALS: CE	 LOOK FOR THIS MARK ON OUR PRODUCT	 LOOK FOR THIS MARK ON OUR PRODUCT
 LOOK FOR THIS MARK ON OUR PRODUCT	 LOOK FOR THIS MARK ON OUR PRODUCT	 LOOK FOR THIS MARK ON OUR PRODUCT	 LOOK FOR THIS MARK ON OUR PRODUCT
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**

**3 YEAR
WARRANTY**
ACCURACY: 0.25% or 0.50% Span

OUTPUT SIGNAL:
4-20mA, 1-5Vdc, 1-6Vdc, ± 5 Vdc, ± 2.5 Vdc

PRESSURE RANGES (Inches W.C.):

 Unidirectional: 0.10 to 200 I.W.C.
 Bidirectional: ± 0.05 to ± 100 I.W.C.

Overpressure

 Proof Pressure: 20 psi
 Burst Pressure: 50 psi
 Max. static (line) pressure: 100 psi

MEDIA

 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


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.

**2279 DURATRAN
PRESSURE TRANSMITTER**

**PLUS!
Performance**
ACCURACY: $\pm 0.50\%$ of span

OUTPUT SIGNAL: 4-20mA

PRESSURE RANGES:

Vacuum and compound, 12 to 20,000 psi

DIAL SIZE: 4 1/2" analog

CASE MATERIAL: Phenolic

SENSING ELEMENT: Bourdon tube

WETTED MATERIAL: 316 SS, Monel

AGENCY APPROVALS: FM


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.

**TYPE DM61
DIGITAL PANEL METER**

NEW
**3 YEAR
WARRANTY**
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 A) external

ALARM DEADBAND: 0-100%, User-Selectable

OPTION:

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



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.

**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:
 316 SS

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

PROCESS CONNECTION:
 1/2 NPT (ordering code 04L)

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

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.

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


ACCURACY
ASME B 40.3 Grade A ($\pm 1\%$ of span)

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

STEM/BULB DESIGN
Rigid stem 0.250" dia.

RECALIBRATOR
(EI, EL external), (CI none)

SEALING DESIGN
Hermetically sealed; EL liquid filled

DAMPENING
Silicone-dampened bimetal coil;
EL liquid filled

CONNECTION LOCATION
EI rear, lower, Everyangle™ mount
CI rear, lower
EL rear, Everyangle mount

CONNECTION SIZES (NPT)
Plain
1/4 (2" sizes only)
1/2 and 3/4 fixed or union (3", 5" sizes only)

STEM LENGTH
2 1/2"-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 ($\pm 1\%$ of span)

DIAL SIZE
600A - 4 1/2", 6"
600B - 4 1/2"

STEM/BULB DESIGN
Rigid stem 0.375" dia. (600B)
Bendable 0.375" dia. (600A)

RECALIBRATOR
Adjustable pointer

SEALING DESIGN
Weatherproof

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 steel

CAPILLARY MATERIAL
600A- 300 Series stainless steel

WINDOW
Glass

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

**SINGLE SETPOINT
WATERTIGHT ENCLOSURES**

B-SERIES


FEATURES

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

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

Wetted Materials:
Stainless steel and Buna, *Teflon® or Viton® (or)
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 600 psid
H-Series Pressure: 1000 – 7500 psi

U.L. and CSA LISTED

*Registered trademark of E. I. DuPont

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.

**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

Ranges:
Pressure: vac. thru 3000 psi
Temperature: -40°F thru 750°F
Differential Pressure: 30 in.H₂O diff. thru 600 psid

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



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.

**DUAL SETPOINT
WATERTIGHT ENCLOSURES**

L-SERIES


FEATURES

Enclosure:
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:
Stainless steel and Buna, Teflon® or Viton® (or)
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



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.

**DUAL SETPOINT EXPLOSION
PROOF ENCLOSURES**

P-SERIES


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

Wetted Materials:
Stainless steel and Buna, Teflon® or Viton® (or)
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. or CSA LISTED

Dual Seal Rating now available

LOOK FOR THESE MARKS ON OUR PRODUCTS



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.

**WATERTIGHT STAINLESS
STEEL ENCLOSURES**
G-SERIES

FEATURES
Enclosure:

Watertight 316 stainless steel NEMA 4, 4X, IP65

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® (or)
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



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 EXPLOSION
PROOF PRESSURE**
F-SERIES

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 choice of:
Buna N, Teflon® or Viton® diaphragm and O-ring (or)
All-welded 316 stainless steel diaphragm

Ranges:

Pressure: vac. thru 4000 psi

U.L. and CSA LISTED

LOOK FOR THESE MARKS ON OUR PRODUCTS



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.

**MINIATURE WATERTIGHT
PRESSURE SWITCHES**
A-SERIES

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-adjustable 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 7500 psi.

U.L. and CSA LISTED

SIL 3 capable

LOOK FOR THESE MARKS ON OUR PRODUCTS



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.

**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” actuator) with <100 psi range

Ranges:

Vac thru 7500 psi.

U.L. and CSA LISTED

AM, ATEX, IECE, SIL 3 capable

LOOK FOR THESE MARKS ON OUR PRODUCTS



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.

**ELECTRONIC PRESSURE
SWITCHES**
N-SERIES

FEATURES

Enclosure:
NEMA 4X watertight or NEMA 7/9
explosionproof, 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 output now
available.

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.

**STANDARD DIFFERENTIAL
PRESSURE SWITCH**


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 APPROVAL
FOR HAZARDOUS LOCATIONS**


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.

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



LOOK FOR THIS MARK
ON OUR PRODUCTS

**U.L. LISTED STEAM
LIMIT CONTROL**


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

**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.



LOOK FOR THIS MARK
ON OUR PRODUCTS

LISTED

**DDS-SERIES DIFFERENTIAL
PRESSURE SWITCH
DIAPHRAGM SENSING ELEMENT**


250 psi DDS-Series
Differential Pressure Switch

15000 psi DDS-Series
Differential Pressure Switch

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:

180°F

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
ON OUR PRODUCTS

LISTED

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

ASHCROFT®

Measurably Better

Global Headquarters

Ashcroft Inc.

250 East Main St.

Stratford, CT 06614-5145

Phone: 203-378-8281

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sales offices, distributors & reps visit:
www.ashcroftinc.com

