





35 Vantage Point Drive // Rochester, NY 14624 // Call 1.800.800.5001

PLUS!™ Performance... Liquid-filled performance in a dry gauge!



DURAGAUGE'PLUS!

Gauge Life

heavy vibration and pulsation were present required the use of either a conventional dry gauge with a hard to read pointer and a limited life span, or, a costly liquid-filled gauge and all the headaches that come with them.



The Solution...

An exclusive, breakthrough technology developed for Ashcroft pressure gauges providing virtually liquid-filled performance in a dry gauge, the Ashcroft® PLUS!TM Performance option.



- Dampens vibration and pulsation
- Steady pointer Easier to read!
- 100% longer life
- Reduce purchases by 50%!

Benefits vs Liquid-filled...

- Dampens vibration and pulsation without the headaches of liquidfilled gauges.
- No liquid No leaks!
- Easier to read...no fill lines!
- Easier to recalibrate.
- Wider temperature range vs alvcerin-fill.
- Eliminates costly specialty fluids.

How'd They Do That?...

The Patented Ashcroft® PLUS!™ Performance option utilizes a unique cartridge to surround the pinion with an engineered dampening agent to dynamically dampen the pointer and movement, thereby providing a dry gauge which acts liquid-filled.

IMPROVED PLANT SAFETY

Safety is a critical issue and the **PLUS!**™ performance option can improve the safety of your plant. Industry surveys indicate that 20% to 30% of customer's gauges are misapplied and prematurely fail due to pulsation and vibration. If a Bourdon tube fails due to excessive pulsation, the process media will escape causing possible environmental damage, process contamination and more importantly, possible injury, fire or explosion.







Q. Are PLUS!™ Performance gauges "new" gauges?

A. No. We simply enhanced the industry leading Ashcroft products you've grown to trust with a fluid clutch dampener. The mechanical system is unchanged.

Q. Does PLUS!™ Performance affect accuracy?

A. No. The only difference is that the response time is similar to liquid-filled

Q. Can these gauges be oxygen cleaned?

A. Yes. Our process cleans the system to meet AMSE B40.1 level IV.

Q. What temperature range is possible?

A. -40°F to 200°F or 250°F depending on window material.

Q. Can I use PLUS!™ Performance instead of Halocarbon fill

Q. Can this be used in paint applications or others requiring no silicone?

A. The standard PLUS!™ Performance cannot be used in silicone-free applications. However, **PLUS!**™ is available in a silicone-free version. Order as XNS for silicone-free.

Q. Does the throttle plug do all the work?

A. No. Throttle plugs are designed only to fight pulsation. Vibration requires either a liquid-filled gauge or **PLUS!** The Performance.

Q. Does our competition have anything similar?

A. No. One competitor evaluated a liquidless gauge with poor results. Their design utilized a dashpot which caused premature failures versus even dry gauges. Gauges with **PLUS!™**Performance utilize a completely different approach overcoming their design problem.

Q. Will this gauge last forever?

A. No gauge will last forever under conditions of severe pulsation and vibration. The **PLUS!** MPerformance gauges simply last significantly longer than traditional dry gauges with the benefits outlined above. There are a few applications, chiefly severe high frequency pulsation, where a liquid-filled gauge or a remote mounted gauge is necessary. With a few exceptions, Beta site customers have found the performance to rival liquid-filled gauges in life expectancy without any of the headaches of liquid-filled gauges.

Q. How Do I Order?

A. The product variation "XLL" designates PLUS!™ Performance in all Duragauge®, Duralife®, 1008S and 1032 pressure gauges and Duratran® transmitters.





PLUS!™ Performance... Liquid-filled performance in a dry gauge



DURAGAUGE® PRESSURE GAUGE

ACCURACY

1/2% full scale

DIAL SIZE 41/2," 6," 81/2"

TUBE MATERIAL

Bronze, 316 SS, Monel, Inconel

SENSING ELEMENT

Bourdon tube

CONNECTION

1/4 NPT. 1/2.NPT. JIS. DIN. BSP. All lower or back

RANGES

Vac. to 100.000 psi

CASE MATERIAL

Phenolic, aluminum, polypropylene

MOVEMENT

Stainless steel, rotary design, Teflon® S coated pinion and bearings

POINTER

Micrometer adjustable

White painted aluminum

TYPE NUMBERS

1279 phenolic (4½,") 1377 aluminum (4½," 6," 8½,") 1379 aluminum (4½," 6," 8½,") 2462 (6")



TYPE 2279 DURATRAN® PRESSURE TRANSMITTER AND GAUGE

ACCURACY

1/2% full scale

OUTPUT

2 wire, 4-20mA

STABILITY

±0.25% full scale

SUPPLY VOLTAGE

24 Vdc nominal, 16V min., 40V max

DIAL SIZE

41/2," analog dial

TUBE MATERIAL

316 SS. Monel

SENSING ELEMENT

Bourdon tube

CONNECTION

1/2 NPT - lower

RANGES

Vacuum, 12 to 20,000 psi

CASE MATERIAL

Phenolic

MOVEMENT

Stainless steel

Micrometer adjustable

WEATHERPROOF

NEMA 4 - Hermetic seal

AUTOCLAVABLE!



TYPE 1032 SANITARY GAUGE

ACCURACY

1.5%-2% depending on range

DIAL SIZE

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

TUBE MATERIAL

316 SS

SENSING ELEMENT

316L SS diaphragm (12-20RA finish)

CONNECTION

Standard: 11/2" or 2"Tri-Clamp,® others on request Location: lower, back, side or top

RANGES

From 15# to 1000# including vacuum and compound

CASE & RING MATERIAL

304 stainless steel

MOVEMENT

Stainless steel. PowerFlex™

POINTER

Adjustable Pointer (all) Easy Zero Ext. Adjust (3½")

DIAL

White painted aluminum

WINDOW

Polycarbonate, Polysulfone (optional)

CLEAN & STEAM IN PLACE

Temperature limits to 300°F (140°C)

AUTOCLAVE OR STERILIZE

Temperature limits to 300°F (140°C) with polysulfone window

SYSTEM FILL

Glycerin (Std)

Food Grade Silicone (Opt)

AGENCY APPROVAL

Meets 3A Standard 74-03



TYPE 1009 PRESSURE GAUGE

ACCURACY

1% full scale

DIAL SIZE

 $2^{1}\!/\!_{2}, "3^{1}\!/\!_{2}, "4^{1}\!/\!_{2}, "6"$

TUBE MATERIAL

316 SS (2½," 3½") Bronze, 316 SS, monel. steel (41/2"6")

SENSING ELEMENT

Bourdon tube, Helium leak test to 1 x 10⁻⁶ ATM ^{CC}/sec

CONNECTION

1/8 NPT. 1/4 NPT. 1/2 NPT. 7/16" x 20 SAE lower or lower back, other threads on application

RANGES

Vac. to 30.000 psi including compound

CASE & RING MATERIAL

304 Stainless steel with ventable relief plug

MOVEMENT

Stainless steel, PowerFlex™ (2½, "3½") Stainless steel (4½, 6")

POINTER

Adjustable

ΠΙΔΙ White painted aluminum

WINDOW

Polycarbonate (21/2," 31/2") Glass (4½"6"), safety glass optional

- ASME B40.100
- EN837.1 compliance available
- RO HS compliant
- CRN approved



TYPE 1008S STAINLESS STEEL METRIC CASE

ACCURACY

1.6% full scale

DIAL SIZE

63mm, 100mm

TUBE MATERIAL 316 SS

SENSING ELEMENT

Bourdon tube

CONNECTION 1/4 NPT lower or lower back ½ NPT lower (100mm), JIS, DIN available

RANGES

Vac. to 15,000 psi including compound

CASE MATERIAL

304 stainless steel

MOVEMENT

Stainless steel, PowerFlex™

POINTER

Fixed

DIAL

White painted aluminum

WINDOW

Polycarbonate

- ASME B40.100 • EN837.1 compliance available
- RO HS compliant



CRN approved







