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









The Problem...

In the past, applications where 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!™ Performance option.

Benefits vs. Dry Gauges...

- 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.

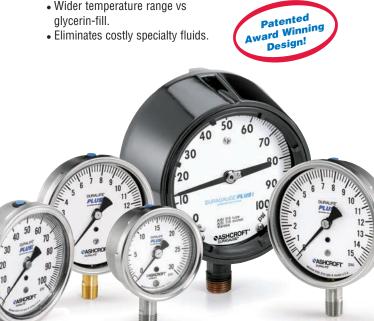
How'd They Do That?...

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.

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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 gauges.

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
- A Yes!
- 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!**^m 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!**[™]Performance 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.

ISO 9001

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



DURAGAUGE® PRESSURE GAUGE

ACCURACY 1/2% full scale

DIAL SIZE 4½, 6, 8½″

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

DIAL White painted aluminum

TYPE NUMBERS 1279 phenolic (4½,[~]) 1377 aluminum (4½,[~]6,[~]8½,[~]) 1379 aluminum (4½,[~]6,[~]8½,[°]) 2462 (6[~])

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TYPE 2279 DURATRAN® PRESSURE TRANSMITTER AND GAUGE

ACCURACY ½% full scale

OUTPUT 2 wire, 4-20mA

STABILITY ±0.25% full scale

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

DIAL SIZE 4½, 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

POINTER Micrometer adjustable

WEATHERPROOF NEMA 4 – Hermetic seal

AUTOCLAVABLE!



TYPE 1032 SANITARY GAUGE

ACCURACY 1.5%-2% depending on range DIAL SIZE 2½," 3½," 4½"

TUBE MATERIAL 316 SS

SENSING ELEMENT 316L SS diaphragm (12-20RA finish)

CONNECTION Standard: 1½[°] 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. Power*Flex™*

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 2¹/₂, "3¹/₂," 4¹/₂," 6" **TUBE MATERIAL**

316 SS (2½, 3½″) Bronze, 316 SS, monel, steel (4½″ 6″)

SENSING ELEMENT Bourdon tube, Helium leak test to 1 x 10 $^{\circ}$ 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, Power*Flex™* (2½, ~3½~) Stainless steel (4½, ~6~)

POINTER Adjustable

DIAL White painted aluminum

WINDOW Polycarbonate $(2^{1/2}, 3^{1/2})$ Glass $(4^{1/2} 6)$, safety glass optional

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

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

RANGES Vac. to 15,000 psi including compound

CASE MATERIAL 304 stainless steel

MOVEMENT Stainless steel, Power*Flex™*

POINTER Fixed

DIAL White painted aluminum

WINDOW Polycarbonate

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



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ISO 9001 REGISTERED FIRM
 Flex™
 Vac. to 30, compound

 CASE & RI
 304 Stainle

 II)
 relief plug

 (3½²)
 MOVEMEN