



Introducing

PLUS!™ Performance

Liquid-filled performance in a dry gauge!

THE PROBLEM ...

Until recently, 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.





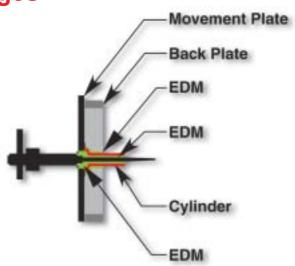
THE SOLUTION ...

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

- Fight vibration and pulsation without the headaches of liquid-filled gauges
- Twice the lifespan of traditional dry gauges

HOW'D THEY DO THAT? ...

The Patent Pending 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.



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Benefits vs Liquid-filled ...

- Dampens vibration and pulsation without the headaches of liquid-filled gauges.
- No liquid No leaks!
- Easier to read No fill lines!
- · Easier to recalibrate.
- Eliminates disposal & environmental issues.
- Wider temperature range vs glycerin-fill.

Benefits vs. Dry Gauges ...

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

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. *PLUS!* ™ Performance improves safety and saves money by allowing facilities to standardize on a convenient dry *PLUS!* ™ gauge that performs virtually like a liquid-filled gauge. This saves 20 % to 30 % annually by reducing misapplied gauges, as well as reducing the risk of spills, injury and damage to their facility.

Too Good to be True?

We have an impressive array of awards that will make you a believer. If you want the only true liquid gauge alternative on the market today, order your next gauge with the Ashcroft® *PLUS!™* Performance option. You'll never feel the same about liquid-filled gauges again!



Plant Engineering "Product of the Year Gold Award in Instrumentation"
Instrumentation and Automation News "Editor's Choice"
Food Manufacturing "Editor's Choice"
Processing "A Breakthrough Product of the Year"
Design News "Among the Best Products of 1998"



Any Questions?

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 ASME B40.1 level IV.

Q. What temperature range is possible? A. -40°F to 300°F, -40°C to 149°C.

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!*™

Q. Does our competition have anything similar?

A. No. One competitor evaluated a liquidless gauge with poor results prior to 1993. 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 *PLUSI**** 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.