

FAILURE is **NOT** AN OPTION



No matter the temperature extremes or other harsh operating conditions, Pressure-Reducing and Back-Pressure **Regulators** must deliver premium performance to ensure worker and site safety and system optimization.

Has your supplier adequately tested its regulators? First, note there's no universal standard for testing common/uniform performance characteristics across multiple industries, and testing equipment can vary significantly among manufacturers.

Now what?

Apply predictive modeling...then prove any derived theories via these methodologies:

- **Burst Testing** – Can your regulators maintain their integrity when operating at pressure? This is a means to learn if your components can yield steady results at working pressures several times a regulator's rated pressure.
- **Fluid Dynamic Testing** – Do your regulators have velocity traps or pressure buildup spots? This is a process used by makers to investigate pressure zones within the regulator to ensure that the device is accurately reading – and thereby controlling – outlet pressure per system specifications. In other words, does the true outlet pressure match the product rating?
- **Supply Pressure Effect Testing** – If the inlet pressure decreases or increases, is there a corresponding change in the outlet pressure? This is a method that determines the smallest and most precise possible value.
- **Life Cycle Elements Testing** – Have any idea how long your regulators should last across numerous actuation cycles? This is a procedure that puts a regulator through a range of cycle loads to see when and where it might begin to show wear and lose performance.
- **Thermal Testing** – How will you know if/when the seal has been compromised when your regulator is exposed to temperature extremes? This is an operation that assesses whether certain elastomeric materials swell or shrink/stiffen, thus greatly affecting performance, under very high and low temperatures.



Your surest route to a healthier overall Bottom Line:

When selecting and specifying regulators, consult with your vendors to fully understand just how their products are designed and tested to meet (or exceed) your most challenging real-world applications.

Swagelok General Industrial and High-Sensitivity Process Regulators deliver unparalleled, leak-tight performance in even the most challenging applications and operating environments.

Pressure-Reducing



SGRS

General-service, spring-loaded. Controls downstream pressure. Simple robust design.



SGRD

General-service, dome-loaded. Controls downstream pressure. Highly customizable.



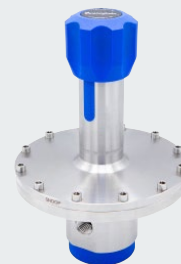
SGRA

General-service, ratio-loaded. Controls downstream pressure. Controllable with low-pressure feed.



SHRD

High-sensitivity, dome-loaded. Controls downstream pressure. Highly customizable. Ideal sensitivity for low-pressure applications.



SHRS

High-sensitivity, spring-loaded. Controls downstream pressure. Simple robust design. Ideal sensitivity for low-pressure applications.

Back-Pressure



SGBS

General-service, spring-loaded. Controls upstream pressure. Simple robust design.



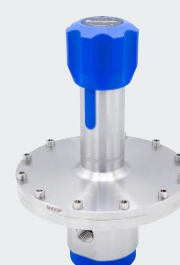
SGBD

General-service, dome-loaded. Controls upstream pressure. Highly customizable.



SGBA

General-service, ratio-loaded. Controls upstream pressure. Controllable with low pressure.



SHBS

High-sensitivity, spring-loaded. Controls upstream pressure. Simple robust design. Ideal sensitivity for low-pressure applications.



Swagelok General Industrial Process Regulators...

...can accommodate working pressures up to 6000 psig and 250 psig for our High-Sensitivity designs.

All Swagelok Regulators operate effectively in temperatures from -49°F to 356°F and are available with numerous 1/2" to 1 1/2" end connections.



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