



Balanced Zero Regulators for High Temperature Service

The Selas BZR (Balanced Zero Regulator) is engineered for energy efficiency, reliability, and precision in gas flow control across various combustion systems. Featuring a robust, large diaphragm, this regulator operates seamlessly within a 650 to 18,100 SCFH flow range. These models are designed to function effectively in ambient temperatures up to 700°F.

How It Works

These zero pressure balanced regulators are used for precise control of heated gases or for equipment locations subjected to high ambient temperatures.

The **BZR-300** series is designed for continuous operation up to 300°F and to resist corrosion from high sulfur or other corrosive gases.

The **BZR-500** series is designed for continuous operation up to 500°F and to resist corrosion from high sulfur or other corrosive gases.

The **BZR-700** series is designed for continuous operation up to 700°F and for flow ratio control of high-temperature vaporized fuels. Its construction features a stainless steel main and balancing diaphragm and stainless steel valve disc with high-temperature gasketing.

The high temperature BZR lineup duplicates the precise control characteristics of the standard BZR balanced regulators. They automatically adjust valve position to hold a desired precise outlet pressure. Slight variations in inlet pressure do not affect the performance.

Applications:

- Proportional Premixers
- Nozzle Mixers
- Mixing Tees at positive or negative combustion chamber pressures



Model Overviews

BZR-300

- Designed for service in ambient temperatures up to 300°F (149°C).
- Maximum inlet pressure: 2.0 psig
- Eliminates need for remote location and compensation in reasonably high ambient temperature applications.

BZR-500

- Designed for service in ambient temperatures up to 500°F (260°C).
- Maximum inlet pressure: 5.0 psig
- An extension part raises the main diaphragm assembly 12 inches above the valve body.

BZR-700

- Designed for service in ambient temperatures up to 700°F (371°C).
- Maximum inlet pressure: 5.0 psig
- Flow ratio control of high-temperature vaporized fuel.
 - o J-P Series fuel
 - o Kerosene
 - o Naphtha

Benefits	Features
Energy Efficiency	Turndown up to 200:1
Wide Flow Range	Operates effectively within 650 to 18,100 SCFH, accommodating various applications.
High Temperature Tolerance	Model options for up to 700°F.
Precision Control	Maintains accurate gas flow at near-zero pressure, ensuring optimal combustion.



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