Accuracy:
Low Flow: + 0.0 / – .04" W.C.,
Full Flow: + 0.0 / – 0.4" W.C.

Flow Control Regulators

Selas Flow Control Regulators (Product No. 5105) are double diaphragm, spring-balanced flow ratio control regulators.

How It Works

Selas Flow Control Regulators (FCR) offer maximum control and fuel efficiency on gas-fired applications involving preheated air to the burners, or where burners fire against a varying back pressure.

The FCR monitors air mass flow by means of a pressure differential across an orifice plate flow meter. The signal from the orifice plate flow meter is applied across the regulator large top diaphragm; pressure differential automatically compensates for back pressure. Lower matching "gas" diaphragm is connected to suit the application. Three smaller diaphragms are used within the regulator to balance out dynamic and static forces in the control system.

Applications:

- **Hot air burner systems**
- **Varying back pressure systems**

Diverse Combustion Technologies. One Reliable Source.

Operating Principles

The FCR holds a constant air/fuel ratio from cold start-up through hot air application. All control components are on the cold side of the system and are unaffected by high combustion air temperatures, minimizing cost and maintenance and permitting initial start-up adjustment to be made on cold air at the high fire condition and adjusting gas to the desired ratio.

On oil or dual fuel applications, use a 6 PCR Pilot Control Regulator.

Features	Benefits
Operating temperatures to 150 °F	Designed for accurate control
Maximum inlet pressure: 2 psig	Delivers consistent air/fuel ratio
All units factory tested and sealed before shipment	“Plug and play” operation
Turndown: up to 10:1	Energy efficiency

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