

Fuel Gas Applications: Natural Gas Pressure Regulators and Complete Solutions for Burners and Furnaces

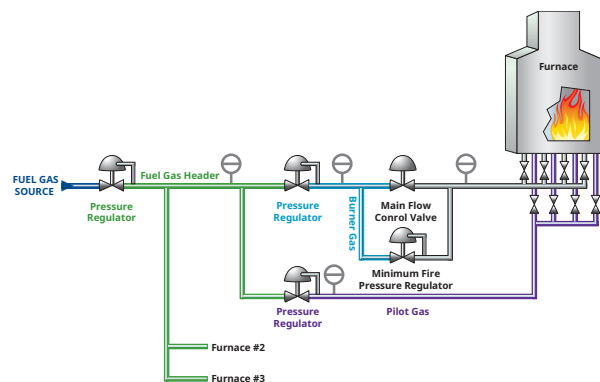
Fuel Gas Applications

Furnaces, boilers, and fired heaters are essential components of most industries such as power generation facilities, petroleum refineries, chemical plants, steel plants, glass and ceramic industries, etc.

Whether helping to safely operate a furnace or produce steam or heat hydrocarbons, the fundamentals of fuel gas supply system are relatively standard across a wide range of such heating applications.

Key Challenges

- Certified safety and compliance
- Accurate pressure & flow control
- Fast response for changing conditions
- Plug-and-play solutions



Emerson Solutions

- Modular solutions for standard and custom design
- Designed for OEM platforms
- High repeatability and consistent performance
- Customized solutions and engineering support throughout development
- Application expertise for all the order phase



Solutions Overview

Individual Components

Natural Gas Pressure Regulators

- Suitable for standardized OEM platforms
- High accuracy and pressure stability
- **Slam-shut valve** for overpressure protection
- **Direct-operated regulators** for faster action
- **Pilot-operated regulators** for:
 - Higher flow rates
 - Higher pressure
- Wide range of pressures and capacities

Complete Fuel Gas Trains

OEM-ready Gas Ramps

- Engineered to OEM specifications
- Fully assembled and factory-tested
- Modular architecture for customization
- Designed to simplify integration
- Version with aluminum filter
- Version for H2/NG blend (10-25%)
- Version for Hydrogen (100%)




Industries

Main applications are Aluminum, Ceramic, Chemical, Food & Beverage, Glass, Steel, Oil & Gas, Power Generation, Refineries.

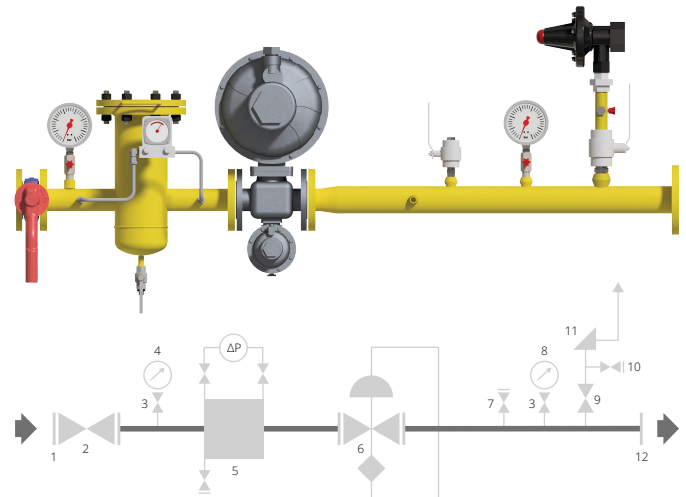
Benefits

- Reduce project complexity and respect deadlines thus complying to all applicable regulations and standards
- Ensure the use of the latest technology available
- Work directly with the product and technology experts
- Drop in place solution to help address ageing workforce and lack of specialized resources
- Optimizing supply chain

Contact our OEM Power experts for technical collaboration and project support.

Pressure Regulators		
Direct-Operated		Pilot-Operated
CSR Series	LSR Series	FL Series
		
Fisher™ CSR Series Pressure Reducing Regulator	Fisher LSR200 Series Regulators	Tartarini™ BFL Series Pressure Reducing Regulator

Complete Gas Fuel Train



Legends:

- | | | |
|-------------------------|--------------------------------|------------------|
| 1. Inlet flange | 5. Filter | 9. Ball valve |
| 2. Inlet valve | 6. Pressure regulator with SSV | 10. Needle valve |
| 3. Needle valve | 7. Valve for regulator setting | 11. Relief valve |
| 4. Inlet pressure gauge | 8. Outlet pressure gauge | 12. Outlet spool |

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