

# High Pressure Transmission and Distribution Pressure Control



**FISHER™**

## EZH and EZHSO Series Pressure Reducing Regulators

### Introduction

EZH (Spring-to-Close) and EZHSO (Spring-to-Open) Series regulators are accurate pilot-operated, pressure balanced, soft-seated regulators. They are designed for use in high pressure natural gas transmission/city gate stations, large capacity distribution systems, power plant feeds and turbine fuel supply applications. They provide smooth, reliable operation, tight shutoff and long life.

### Features

- **No Atmospheric Bleed**—Eliminates nuisance and wasteful bleed gas to atmosphere by utilizing a self-contained control system, which bleeds 100% of the gas to the downstream system.
- **Bubble-Tight Shutoff**—A knife-edged metal plug and soft seat provide bubble tight shutoff for use in applications where positive shutoff is required such as dead-end systems.
- **Long Life in Severe Service Applications**—The metal plug design

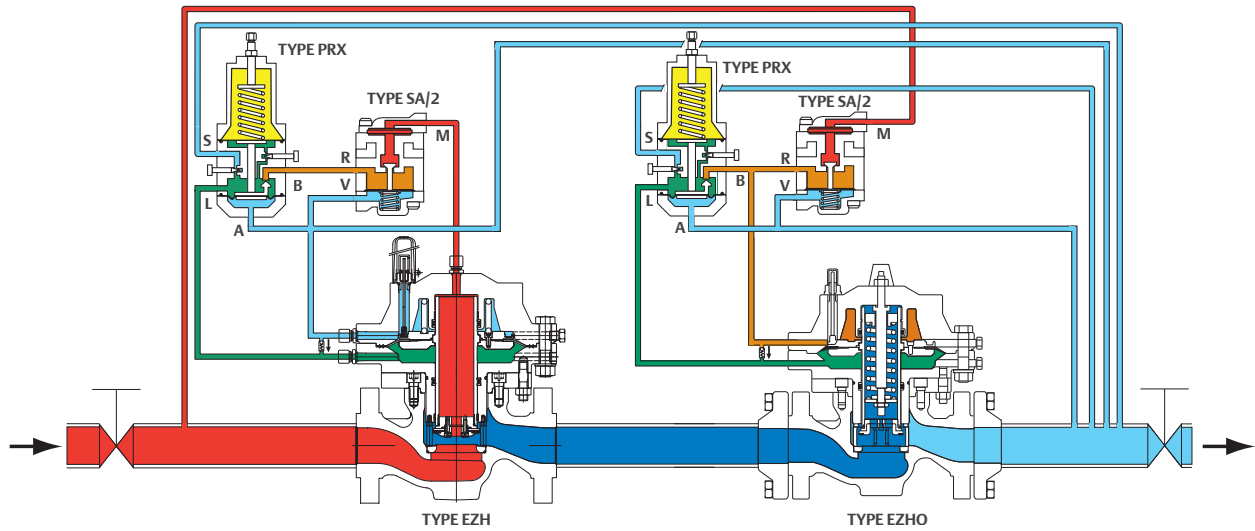
deflects particles and debris away from the soft-seat, which gives excellent particle erosion resistance.

- **Failure Mode Options**—The Type EZHSO spring-to-open design can be utilized to maximize uptime while the Type EZH spring-to-close design can be utilized to protect downstream assets.
- **Precise Pressure Control**—Provides accurate downstream pressure control regardless of inlet pressure variations or demand changes.
- **Quiet Operation**—The Whisper Trim™ Cage reduces noise by up to 8 dBA at the source, eliminating the need for expensive path treatments such as insulation, buried valves and enclosures which only mask noise.
- **Easy In-Line Maintenance**—The top entry design enables trim parts to be inspected, cleaned and replaced without removing the body from pipeline.
- **Integral Slam Shut Configurations**—Types EZHOSX and EZHSO-OSX discontinue gas service by shutting the gas off if there is an overpressure or underpressure condition.



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# Operational Schematic



M1164\_1

WIDE-OPEN MONITOR SCHEMATIC WITH TYPES EZH AND EZHSO

■ INLET PRESSURE  
■ OUTLET PRESSURE  
■ ATMOSPHERIC PRESSURE

■ LOADING PRESSURE  
■ INTERMEDIATE PRESSURE

■ PILOT SUPPLY PRESSURE  
 CHECK VALVE

## Specifications

- **Body Sizes:** NPS 1, 2, 3, 4, 6, 8, 12 x 6/  
DN 25, 50, 80, 100, 150, 200, 300 x 150
- **End Connections:** NPT, CL150 RF, CL300 RF, CL600 RF, BWE, SWE
- **Inlet Pressure:** 1500 psig / 103 bar
- **Outlet Pressure Range:** 14.5 to 1160 psig / 1.0 to 80.0 bar
- **Outlet (Casing) Pressure:** 1500 psig / 103 bar
- **Emergency Casing Pressure:** 1500 psig / 103 bar
- **Temperature Capabilities:** -20 to 180°F / -29 to 82°C
- **Pressure Registration:** External

### Emerson Automation Solutions

#### Americas

T +1 800 558 5853  
T +1 972 548 3574

#### Europe

T +39 051 419 0611

#### Asia Pacific

T +65 6770 8337

#### Middle East / Africa

T +971 4811 8100

 [webadmin.regulators@emerson.com](mailto:webadmin.regulators@emerson.com)

 [Fisher.com](http://Fisher.com)

 [Facebook.com/EmersonAutomationSolutions](https://www.facebook.com/EmersonAutomationSolutions)

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