Metal Smelting Industry Solution

Broad Pressure Control Product Offerings for all Process Cycles

Metal Smelting Industry Overview

Smelting is the process of separating usable metal from an ore. Extraction of metal is obtained usually by subjecting the ore beyond its melting temperature. Smelting process is best characterized by the use of a furnace but the methods may change depending on the physical and chemical characteristics of the ore and the metal involved.

Metal Smelting Process

Smelting is not just simply extraction of metal through heating. The whole process requires oxidizing agent such as air and reducing agent such as coke to extract the metal from the ores by undergoing a series of chemical reactions within the furnace system. Metal oxide is reduced in a bar form which can then be worked by forging to remove the remaining impurities.

Furnaces with forced draft were developed and used in modern ore treatment. In this process, air is mixed with fuel and is fed into the furnace to attain the high temperature requirement for smelting.

Emerson Process Management Solution

Emerson Process Management Regulator Technologies is the market leader in the field of pressure control for over a century. Emerson™ through its Fisher® brand offers a comprehensive range of pressure and backpressure regulators suitable for dealing with gases, liquids, and steam.

We provide standard and customized pressure control solutions to meet the toughest application needs of all process cycles of the metal smelting industry, from pressure reducing to backpressure, and tank blanketing to differential pressure.

FISHER®

www.fisherregulators.com

EMERSON™
Process Management

Recommended Fisher® Regulator Products For Metal Smelting Industry

Pressure Reducing

- Direct-Operated
- Multi-Purpose – Can be Used for All Process Media
- Rugged Construction
- Multiple End Connection Available
- Available in Differential Pressure
- Control, High Temperature, and High Pressure Optional Construction
- Easy Maintenance

95 Series

Relief /Backpressure

- Direct-Operated
- Multi-Purpose – Can be Used for All Process Media
- Excellent Fluid Compatibility
- Close, Stable Regulation
- Available in Differential Pressure Control, High Temperature, and High Pressure Optional Constructions
- Easy Maintenance

98 Series

Pressure Reducing

- Pilot-Operated
- NPS 1 through 12 x 6 (DN 25 through 300 x 150) Body Sizes Available
- Quick Change Trim Package
- Optional Noise Abatement Trim (Up to 30dBA reduction)
- No Atmospheric Bleed
- In-Service Travel Inspection
- Easy Top Entry In-Line Maintenance

Type 1098-EGR

Pressure Reducing or Relief/Backpressure

- Pilot-Operated
- Internally Actuated
- NPS 1, 2, 3, 4, and 6 (DN 25, 50, 80, 100, and 150) Body Sizes
- Easy In-Line Maintenance
- Versatility Between Pressure Reducing and Relief/Backpressure
- Tight Shutoff
- Quiet Operation

Type EZR

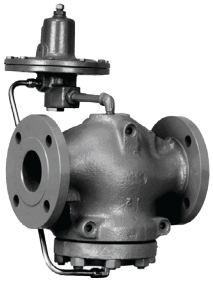
Pressure Reducing

- Direct-Operated
- Internal Relief Valve
- Easy Maintenance
- Extended Body Option
- Application Versatility
- Wide Range of Flow Capacity
- Installation Adaptability

627 Series

Pressure Reducing

- Pilot-Operated
- Special Design for Liquid Service
- Good Shutoff for Low Downstream Buildup
- Resistance to Piping Stresses
- Easy Installation and Pilot Maintenance
- Application Flexibility



Type 92W

Industrial Regulators

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Our Global Product Brand:

FISHER®

EMERSON™
Process Management