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INOVA

Gas Pressure Regulators: Types of Gas Pressure Regulators

1.1 IM-S Gas Regulator

The IM-S is a wafer-type pressure regulator, designed for compact applications and easy integration into existing systems. Its design allows for simple installation and highly efficient operation with minimal pressure drop. It is ideal for gas distribution and transmission, including hydrogen applications.

1.2 IM-C Gas Regulator

The IM-C is a top-entry pressure regulator designed for demanding industrial applications that require higher flow capacity and resistance to high pressures. Its modular design simplifies maintenance and lowers operating costs by eliminating the need for complete disassembly.

Advanced Gas Regulation Technology

Oxford Flow's regulators are designed to eliminate leakage issues and mechanical failures commonly found in conventional regulators. Their compact and lightweight architecture facilitates installation in tight spaces and significantly reduces operational and maintenance costs.

- Exceptional Precision and Stability: Pressure control with a deviation of less than ±1% from the setpoint, ensuring safe and reliable gas system operation.
- Compact and Lightweight Design: Up to 80% lighter than traditional regulators, simplifying handling and installation while eliminating the need for costly lifting equipment.
- Reduced Maintenance: Featuring only one moving component and no diaphragms, minimizing failure points and extending maintenance intervals up to 10 years, lowering operational costs.
- Fast Response and Low Hysteresis: The innovative design enables faster and more stable regulation, reducing pressure drops and improving efficiency in natural gas and hydrogen systems.
- Hydrogen Compatibility: Fully prepared to operate with up to 100% hydrogen, meeting the highest industry standards and supporting the energy transition.

Common Applications

- Gas pressure regulation and metering stations.
- Gas transmission and distribution networks.
- Power generation and cogeneration plants.
- Pressure control systems in refineries and petrochemical plants.
- Hydrogen and industrial gas applications.