Selas SR Regulator

SAFETY

These instructions pertain only to the SR Regulator Series and should only be used for its intended purpose. Only qualified personnel should work on the SR to ensure proper installation, especially when installing gas piping or electrical wiring. All regulations MUST follow/meet region requirements; if unsure about this information, contact your local gas or electric company. This product can cause serious injury/harm if misused; any person working with the SR regulator should be equipped with proper protective equipment, such as safety glasses, close-toed shoes, and adequate clothing attire. Contact the factory if you have any questions or concerns regarding the SR Regulator series.

Warning: *This guide* ***does not*** *provide every eventuality; the information provided should be considered when working with the SR Regulator Series.*

Description: How It Works

The Selas SR Regulator is a versatile pressure-reducing regulator for industrial furnaces and heating applications. Thanks to its balanced valve design, it ensures a constant outlet pressure across a wide range of flows, even with varying inlet pressures. Available in several spring ranges from 2" w.c. to 5 psig, the SR series also includes the SR-PC series for higher pressures and flows. Standard models are constructed for clean fuel gases like natural gas, propane, butane, and other hydrocarbons, with special constructions available for gases such as Coke Oven Gas. While the standard model handles fluids up to 150°F, unique models can accommodate temperatures up to 700°F. The design features internal compensation, with an option for external compensation for greater capacities. Additionally, the synthetic, reinforced diaphragms are suitable for most fuel gases.

Applications

The SR regulator is ideal for:

- Industrial furnaces
- Heating applications

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Installation

Caution: *It is essential to follow all mounting instructions below for the SR Regulator; other mounting positions can cause malfunctions.*

1. Mount the regulator close to the flow control point in a horizontal, stem-up position.
2. Do not install the regulator in an area with an operating temperature exceeding 150°F (66°C).
    - For high-temperature areas (700°F, 371°C), specially designed regulators are available; contact the factory with any questions or concerns.
    - SR regulator may require excessive piping and a remote compensator.
3. An arrow cast located on the side valve body of the regulator will show the direction of the flow.
4. Check that the outlet piping and regulator connection are similar in size and there are five (5) diameters of straight pipe between the regulator and the first downstream valve or fitting.
    - All piping must be supported.
5. To prevent leaks, use an approved pipe joint compound on all connections and test all gas lines for leaks before operation.
    - Remove regulators and cap lines before testing gas lines for leaks.
6. Qualified personnel can install a pipe flange pair or union on both sides of the regulator for easier replacement.
7. At the top of the diaphragm, the cover is a tapped hole intended for factory installed bleed vent plug or a loading tube connection.
    - DO NOT install a solid pipe plug into this connection.
8. Any type of obstruction to the regulator can cause faulty or slow operation.
9. Check local piping codes for venting requirements for the top diaphragm.
10. Vent piping requirements:
    - It must be without traps;
    - Placed away from the regulator; and
    - Protected against stoppage.
11. Spring compression will determine the regulator's outlet pressure.
    - The adjustment screw is located under the stem cap.
12. To obtain desired pressure, use the pressure gauge in the outlet pipe and position the slotted spring adjustment plug.
13. To raise the pressure, screw down (into the housing). To lower the pressure, screw up (out of the housing).

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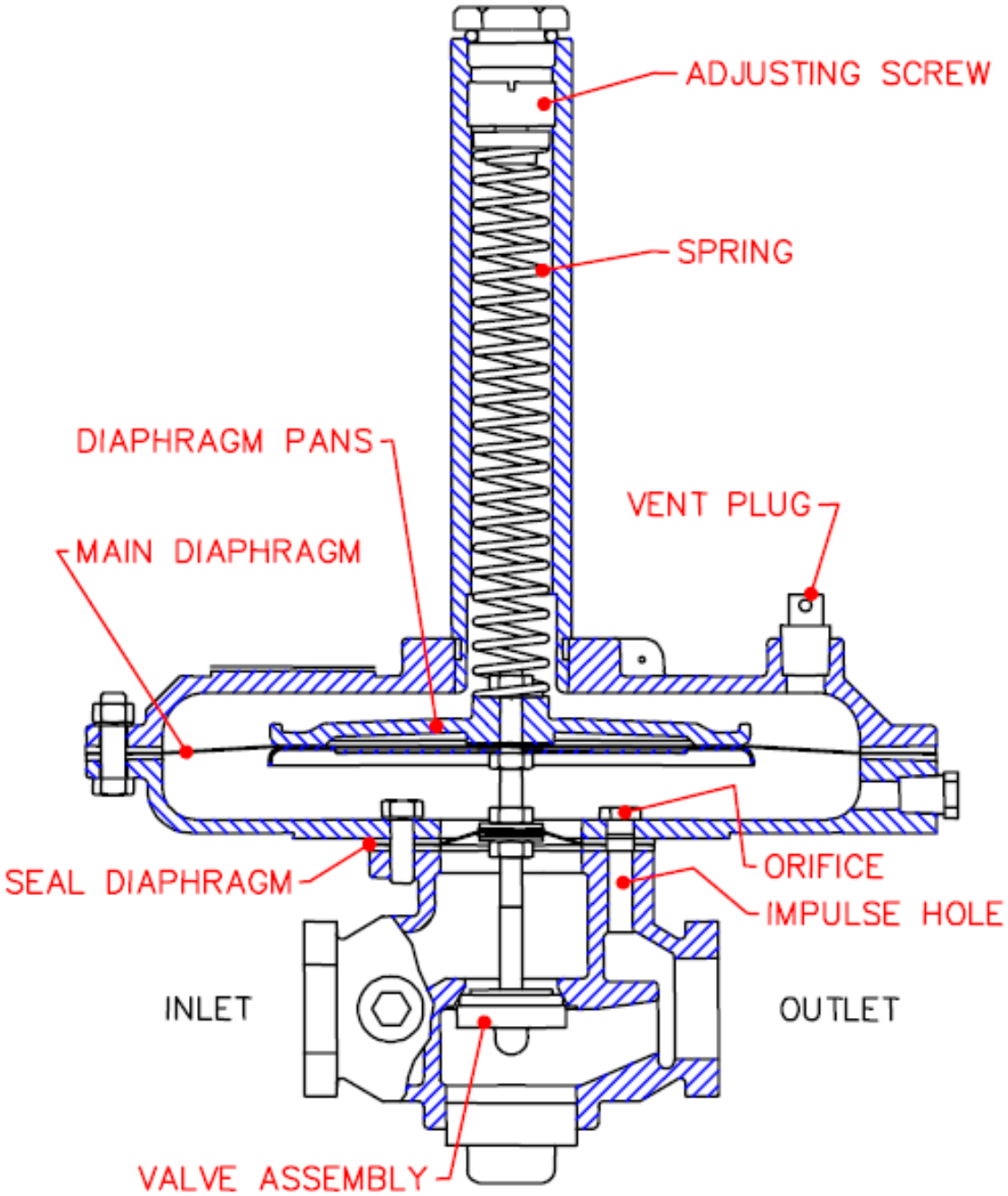
SR Regulator Drawing



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Maintenance

Routine maintenance helps ensure reliable performance and safety. Only qualified personnel should perform these procedures.

Inspection frequency:

- Inspect at least annually, or more frequently in demanding service.
- Perform a visual inspection for damage, leaks, or corrosion.

Basic maintenance steps:

1. Clean external surfaces with mild soap and water.
2. Check joints for gas leaks using an approved leak detection solution.
3. Ensure vent breathers and vent lines are clear of debris.
4. Verify outlet pressure stability during operation.
5. Record all maintenance and inspection results.

If significant service is needed, return the unit to the factory for inspection or rebuild.

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