

SR800 SERIES

Inlet to 3,600 PSIG & Outlet to 250 PSIG



HIGH CAPACITY PRESSURE REGULATOR

Features

- High Flow Rates of 1.65 Cv
- Diaphragm Provides Maximum Sensitivity
- Pressure Relief Valve for Safety Protection
- Panel Mounting Standard
- Compatible with Corrosive and Non-corrosive Liquids & Gases

Applications

- Manifold Pressure Control
- Process Gas Control
- Blanket or Purge Gas Control
- High Flow Station or Main Line Controls

Technical Data

Materials of Construction

Body	– Brass
Seat	– Kel F, Kynar, Polyurethane or Polyimide/Vespel SP-21
Seal & Diaphragm	– Buna N, Neoprene, Teflon® or Viton®
Springs	– Steel
Spring Housing	– Brass

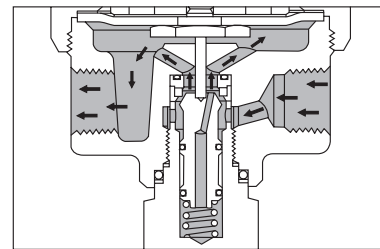
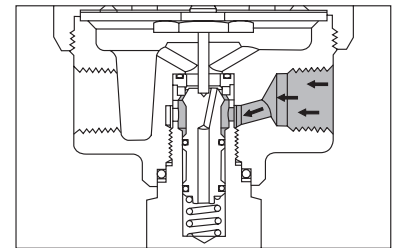
Port Size & Connections

1/2" Female NPT

How It Works

CLOSED

Balanced poppet is spring loaded against seat. When full upstream pressure is applied, a slightly unbalanced force is developed which enhances sealing.



REGULATING

As the downstream process demands flow, the pressure acting on the bottom of the diaphragm decays, allowing

the adjusting spring force to push the poppet down. This in turn unseats the poppet, allowing flow to begin and pressure under the diaphragm to increase until balance is achieved between adjusting spring force and downstream pressure. This condition continues until process ceases. At this point, increasing pressure overcomes spring force, moving diaphragm up and allowing piston to close.

Pressure Ratings

Inlet	– 3,600 PSIG (248 BAR)
Outlet	– SR800: 250 Max. SR830: 125 Max.

Temperature Range

–60°F to +160°F; –51°C to +71°C

Flow Capacity

$C_V = 1.65$ Max. ESEOD = 0.30"

Weight

6 lbs.



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