

SR800 SERIES

Inlet to 3,600 PSIG & Outlet to 250 PSIG

HIGH CAPACITY PRESSURE REGULATOR Free

Fred C. Gilbert Co. 106 Norris Road Bakersfield, Ca. 93308 661-399-9569 fax 661-393-9654

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

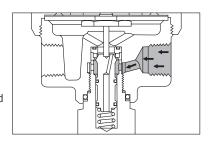
Port Size & Connections

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 Flow Capacity

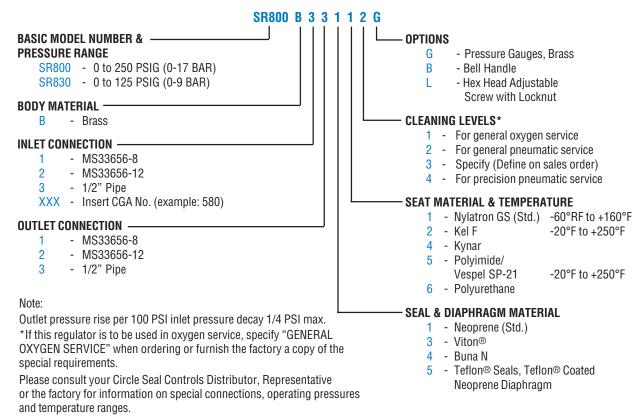
-60°F to +160°F; $C_V = 1.65 \text{ Max.}$ -51°C to +71°C ESEOD = 0.30"

Weight

6 lbs.



How To Order



Teflon® is a registered trademark of DuPont and Viton® is a registered trademark of DuPont Dow Elastomers.

Dimensions & Flow Curves TYPICAL FLOW CURVE 210 3000 PSIG 190 Regulated Pressure 8.87 .500 Max. Max. 170 150 2.62 Min. 130 110 2.00 50 100 150 200 250 300 350 400 500 550 600 450 3.80 Dia. 3.25 Flow (SCFM) Air 7.97 Safety Max. **PRESSURE RANGES** Connection Α Out LP **Gauge Ranges Safety Valve** 2-29/32" MS33656-8 **Set Pressure** Inlet Outlet MS33656-12 3-5/64" 1/2" Std. 2-1/2" 2-1/2 1-5/8" 0-5000 PSIG 0-600 PSIG 400 PSIG Dia. Insert CGA 0-5000 PSIG 0-200 PSIG 200 PSIG RCLE SEAL CONTROLS, INC.