



General Purpose Single Stage Regulator

SG - Series

DESCRIPTION

The SG regulators are specifically designed as an economical instrument for use in non-critical applications involving inert and non-corrosive gas applications. The SG regulator should not be used in applications where inboard diffusion of atmospheric impurities water and oxygen or the out gassing of hydrocarbon based impurities will negatively impact the work being performed.

FEATURES

- Minimal internal volume: .320 cubic inches.
- Seat area protected by a 30 micron filter.
- Five delivery pressures available.
- Large Viton diaphragm for sensitive pressure control.
- Body is pre-tapped and has milled flats for back panel mounting.
- All exterior surfaces chrome plated.



APPLICATIONS

The SG series regulators are ideally suited for use with inert, flammable, and hydrocarbon gases used in non-critical gas applications. They are suited for closely monitored applications and with their large viton diaphragm provide good sensitivity for pressure control.

MATERIALS OF CONSTRUCTION

- Body: Brass Barstock, Chrome Plated
- Bonnet: Zinc, Chrome Plated
- Diaphragm: Teflon coated Viton
Viton for 450 psig models
- Seat: Kel-F
- Seals:
- Filters: 30 micron Sintered Bronze
- Gauges: 2" Chrome Plated Brass

SPECIFICATIONS

- Max. Inlet Pressure: 3,000 psig
- Operating Temperature Range: -20°F to 120°F
- Internal Volume: .320 cubic inches
- Leakage: Bubble Tight
- Flow Coefficient (C_v): 0.04
- Shipping Weight: 3.1 lbs.

Model Selection Guide

Example: SG450R0346 = model SG with up to 450 psig delivery pressure, relief valve and CGA 346 inlet connection.

Specify:	Maximum Delivery Pressure		Relief Valve	Outlet Port	CGA Inlet Connection
SG	[***]		[*]	[*]	[***]
	Delivery Pressure Range 015 = 0-15 psig 045 = 0-45 psig 080 = 0-80 psig 180 = 0-180 psig 450 = 0-450 psig	Delivery Pressure Gauge 30" Hg - 0-30 or 0-30 Red Line 0 - 60 0-200 0-200 0-600	0 - Plugged R - Pipe away relief valve	0 - None (1/4" NPT female) V - Packed Valve	000 - None (1/4" NPT female) 280 - Medical Breathing Mixtures 300 - Acetylene 320 - Carbon Dioxide 326 - Nitrous Oxide 346 - Zero Air, Compressed Air 350 - Hydrogen* 510 - Acetylene 540 - Oxygen 580 - Helium, Nitrogen, Argon 590 - Zero Air

* CGA 350 available only with relief valve