

# Models SG9011, SG9012, SG9014

## Nitrous Oxide & Carbon Dioxide, Ambient Vaporizing Regulators

Nitrous Oxide and Carbon Dioxide frequently cause ordinary regulators to freeze up. Models SG9011, SG9012 and SG9014 are designed to handle the gas phase withdrawal of these gases from non-siphoned tube cylinders at flow rates up to 100 scfh at 70°F **without freeze-up and without the need for electrical connections.**

**Note:** These regulators are not manufactured to meet FDA standards and should not be used for medical gases. Regulators for medical gases are shown on page 48.

### Standard Features

- Filter in Seat Assembly traps foreign matter, extends regulator life and reduces maintenance.
- Unique Regulator Design operates at flow rates up to 100 scfh at 70°F without freeze-up.
- Pressure Relief Valve protects regulator components from the effects of overpressurization.

### Specifications

Maximum Inlet Pressure: 1500 psig

Inlet Pressure Gauge: 0–1500 psig

Maximum Flow Rate: 100 scfh

Delivery Range: See Table I

Delivery Gauge/Flowmeter: See Table I

Gauge Size: 2" Dial

Inlet Connection:

CGA 326 for Nitrous Oxide

CGA 320 for Carbon Dioxide

Outlet Connection: ¼" NPT female

Relief Valve: Self-Reseating 200 psig

Approximate Weight: 3 lbs

### Materials of Construction

Body and Bonnet: Aluminum

Gauges: Chrome-Plated Brass

Seat: Polyurethane

Seals and Diaphragm: Neoprene

Filter: Sintered Bronze

Flowmeter (Model SG9012):

Chrome-plated Brass with Lexan plastic tube and shield



SG9014 Regulator



SG9012 Regulator

Table I

Part No.	Configuration	Delivery Range	Delivery Gauge or Flowmeter
SG9011-(CGA)	Regulator with flow gauge*	10–100 scfh	0–100 scfh
SG9012-(CGA)	Regulator with flowmeter	30–100 scfh	30–100 scfh
SG9014-(CGA)	Regulator with pressure gauge	10–150 psig	0–200 psig

\* **Note:** A Regulator equipped with a flow gauge is not accurate when a backpressure in excess of 2 psig exists at the outlet. In applications where backpressure in excess of 2 psig can be expected, a regulator with a flowmeter should be used.

### Optional Equipment

Equipment	Part No.
PTFE Washers for CGA 320 (package of 25)	SG6076