

Models SG3504, SG3505

Brass, High Purity, Miniature Lecture Bottle Regulators

These small lightweight regulators, designed for mounting directly on lecture bottles, are recommended for High and Ultra High Purity, inert and noncorrosive gas service. They are available in two delivery pressure ranges (4–75 and 5–150 psig) and with either CGA 110, 170 or 180 connections.



SG3504 Regulator

Standard Features

- Metal Diaphragm minimizes diffusion of air into regulator and eliminates “off gassing” associated with elastomeric diaphragms, thus maintaining gas purity.
- High Purity Regulator Design permits vacuum purging of regulator.
- Filter in Inlet traps foreign matter, extends regulator life and reduces maintenance.
- Compact Miniature Size provides for ease of use with lecture bottles.

Specifications

Maximum Inlet Pressure: 3000 psig

Inlet Pressure Gauge (dual scale):
0–4000 psig / 0–275 bar

Delivery Pressure Range: See Table I

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Gauge Size: 1½" Dial

Operating Temperature Range:
–40°F to 140°F

Flow Coefficient: $C_v = 0.06$

Inlet Connection: CGA 110, 170 or 180
as ordered

Outlet Connection: ⅛" NPT female

Supply Pressure Effect: 1.0 psi per 100 psi

Approximate Weight: 2 lbs

Materials of Construction

Body: Brass Bar Stock

Gauges: Brass

Bonnet: Black Anodized Aluminum

Other Metal Parts Exposed to Gas:
Brass and Stainless Steel

Seat: PCTFE

Diaphragm: Elgiloy®

Seals: PTFE

Table I

Part No.	Delivery Pressure		
	Range (psig)	Gauge (dual scale) (psig)	(bar)
SG3504-(CGA)	4–75	0–100	0–7
SG3505-(CGA)	5–150	0–200	0–14

Where “(CGA)” is indicated above, insert appropriate Compressed Gas Association connection number to complete the part number. Example: SG3504-110. Order by complete part number.

Optional Equipment

Equipment	Part No.
Adaptor: CGA 110 (male) to CGA 180 (male), including washers	LB3534
PTFE washers (package of 25)	
for CGA 110	SG3540
for CGA 170	SG3542
for CGA 180	SG3541
Compression Fittings* (male connectors)	
⅛" NPT male x ⅛" compression	SG6701
⅛" NPT male x ¼" compression	SG6702

* If selected, these items are not installed on the regulator. They are shipped as separate items.