

AG3570 Series

Stainless Steel, High Purity, Lecture Bottle Regulators

These single-stage regulators are intended for high and ultra high purity corrosive gas lecture bottle applications. They are available in two delivery pressure ranges (2–30 psig and 4–75 psig) and with either CGA 110 or CGA 180 connections.



AG3570 Regulator

Standard Features

- Type 316 Stainless Steel Bar Stock Construction provides maximum corrosion resistance.
- Metal to Metal Diaphragm to Body Seal (without back-up o-ring) assures maximum diffusion resistance.
- High Purity Regulator Design permits vacuum purging of regulator.
- Low Internal Volume facilitates purging and reduces contamination potential.
- Filter traps foreign matter, extends regulator life and reduces maintenance.
- Threaded Holes in Rear of Regulator permit front panel mounting.
- 1/16" NPT Female Bonnet Vent Port allows bonnet to be connected to a vent line or disposal system as a precaution in the unlikely event of a diaphragm failure.

Optional Features

- Captured Venting Configuration provides 1/16" NPT vent port and stem packing allowing for complete capturing of bonnet when connected to a vent line or disposal system.

Specifications

Maximum Inlet Pressure: 3000 psig
 Inlet Pressure Gauge: (dual scale):
 0–4000 psig / 0–275 bar
 Delivery Pressure Range: See Table I
 Delivery Pressure Gauge: See Table I
 Filter: 40 micron
 Gauge Size: 2" Dial
 Operating Temperature Range:
 -40°F to 140°F
 Flow Coefficient: Cv = 0.06
 Internal Volume:
 Regulator (body only): 6.0 cc
 Inlet Connection:
 CGA 110 or 180 as ordered
 Outlet Connection: 1/4" NPT female
 Approximate Weight: 2 lbs.

Materials of Construction

Body: Type 316 Stainless Steel Bar Stock
 Gauges: Type 316 Stainless Steel
 Bonnet: 300 Series Stainless Steel
 Other Metal Parts Exposed to Gas:
 Type 316 Stainless Steel
 Seat: PCTFE
 Friction Sleeve: PTFE
 Diaphragm: Type 316 Stainless Steel

Table I

| Part No. | Delivery Pressure | | |
|--------------|-------------------|---------------------------|--------|
| | Range (psig) | Gauge (dual scale) (psig) | (bar) |
| AG3570-(CGA) | 2–30 | -30" Hg–0–60 | -1–0–4 |
| AG3571-(CGA) | 4–75 | -30" Hg–0–100 | -1–0–7 |

Where "(CGA)" is indicated above, insert Compressed Gas Association connection number 110 or 180 to complete the part number. Example: AG3570–180. Order by complete part number.

Optional Equipment

| Equipment | Part No. |
|---|----------|
| Regulator Mounting Plate* | RP1 |
| PTFE washers (package of 25) for CGA 110 | SG3540 |
| for CGA 180 | SG3541 |
| Compression Fittings* (male connectors) 1/4" NPT male x 1/8" compression | SG6713 |
| 1/4" NPT male x 1/4" compression | SG6714 |
| 1/16" NPT male x 1/8" compression | SG6715 |
| Captured Venting Configuration | SG5650 |

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