



Model B15 and B16 Series Dual-Stage Corrosion Resistant Brass Regulator



- 2-1/2" inlet and delivery pressure gauges
- Bonnet ported and threaded to pipe gases away from work area
- Porous metal filter protects seat from contamination
- Supplied with a Monel packed needle valve (Model B15 Series) an aluminum-silicon-bronze packed needle valve (Model B16 Series), or an aluminum-silicon-bronze diaphragm valve (Model H15 Series)

Materials of Construction

| | |
|-------------------|--|
| Nozzle & Gauges: | Monel |
| Body: | Chemically plated nickel on forged brass |
| Bonnet: | Chemically plated nickel on forged brass |
| Diaphragm: | Chemically plated nickel on NiCu alloy |
| Seat: | Kel-F |
| Seals: | TFE Teflon |
| Inlet Connection: | Monel |

Description

Economical regulators with design features to resist attack from corrosive gases.

Applications

- Pressure regulation of acid forming halogen gases, such as hydrogen chloride, chlorine, hydrogen fluoride, hydrogen bromide, and silicon tetrafluoride.

Design Features/Components

- Direct connected seat increases nozzle shut-off forces should control nozzle become fouled
- Nickel plated brass body provides good corrosion resistance in halogen services

Specifications

| | |
|---------------------------------|---|
| Maximum Inlet Pressure: | 3000 psig (20,700 kPa) |
| Maximum Flow Rate: | Model B15 and H15: 1060 SCFH (500 SLPM) |
| | Model B16: 4200 SCFH (1980 SLPM) |
| (At 2000 psig, N ₂) | |
| Flow Capacity (Cv): | 0.06 |
| Operating Temperature: | -40°F to 150°F (-40°C to 65°C) |
| Porting: | 1/4" NPT Female |
| Porting Configuration: | 2 High, 2 Low |
| Shipping Weight: | 8 lbs |

Ordering Information

| Model Number* | Delivery Pressure Range | Delivery Pressure Gauge | Cylinder Pressure Gauge |
|---------------------|-------------------------|-------------------------|-------------------------|
| B15-CGA | 4-50 psig | 0-100 psig | None |
| B15A-CGA | 4-50 psig | 0-100 psig | 0-1000 psig |
| B15B-CGA | 4-50 psig | 0-100 psig | 0-3000 psig |
| B15C-CGA | 4-50 psig | 0-100 psig | 0-300 psig |
| B15F-679 (Fluorine) | 4-50 psig | 0-100 psig | 0-1000 psig |
| B16-CGA | 50-650 psig | 0-1000 psig | None |
| B16A-CGA | 50-650 psig | 0-1000 psig | 0-1000 psig |
| B16B-CGA | 50-650 psig | 0-1000 psig | 0-3000 psig |
| H15-CGA | 4-50 psig | 0-100 psig | None |
| H15A-CGA | 4-50 psig | 0-100 psig | 0-1000 psig |
| H15B-CGA | 4-50 psig | 0-100 psig | 0-3000 psig |
| H15C-CGA | 4-50 psig | 0-100 psig | 0-300 psig |

*Note: Some CGA limitations may apply.

Options

| Model Number | Description |
|--------------|-------------------------|
| 4775-CGA | Cross Purge Assembly* |
| 4755-CGA | Tee Purge Assembly |
| KIT-0202-BK | Bonnet Venting Kit |
| 402V | Check Valve, Viton Seat |
| 402E | Check Valve, EPR Seat |

*Recommended for use with corrosive gases.

Accessories For B15F-679

| Model Number | Description |
|--------------|--------------------|
| 7825 | Fluorine Flowmeter |
| 4946F | Metering Valve |