

# Model 19 Series

## High Purity Brass Regulators

### DESCRIPTION

Model 19 Series all metal regulators are ideally suited for high purity liquefied gas handling applications in which brass is acceptable. This series regulator is also suitable for free gas or mixture applications in which the small outlet pressure change caused by cylinder decay is not objectionable.

### APPLICATIONS

Instrument Analysis, Biological Laboratory Applications, Vehicle Emissions measurement, and Semiconductor applications in which brass is acceptable.

### DESIGN FEATURES

- **Direct Connected Seat** . . . Assures increased nozzle shut-off force should nozzle become fouled.
- **Brass Body/Metal Diaphragm** . . . Assures high system purity for non-corrosive gas streams.
- **Bonnet Vent Port** . . . Allows safe venting of hazardous gases in the unlikely event of diaphragm failure.
- **Diaphragm sealed packless valve** . . . Maintains system purity even at regulator outlet.
- **Helium leak rate certification available** . . . Assurance that inboard leak rate is less than  $2 \times 10^{-9}$  ccs and that possible back diffusion of atmospheric contamination is eliminated.

### MATERIALS OF CONSTRUCTION

Body:	Chrome Plated Brass
Diaphragm:	German Silver
Seat:	Kel-F®
Gaskets:	Aluminum & nylon (Model 19C has Teflon® gaskets)

### SPECIFICATIONS

Maximum inlet pressure:	3000 psi (20,700 kPa)
Temperature range:	- 40 to 150°F (- 40 to 65°C)
Maximum flow:	19-150 lpm (300 cfh) 19H-450 lpm (900 cfh)
Inlet port in body:	1/4" NPT
Outlet:	1/4" Gyrolok tube fitting (brass)
Vent port in bonnet:	5/16"-32
Overall dimensions:	8 1/2" w x 8 1/2" h x 7" d (22 x 22 x 18 cm)
Shipping weight:	8 lb. 2 oz. (3.7 kg)

### MODELS & PRICES

Model	Delivery Pressure Range (psig)	Delivery Pressure Gauge (psig)	Cylinder Pressure Gauge (psig)	Price
<b>19</b> (Specify CGA)	4-50	0-100	0-3000	<b>\$235.00</b>
<b>19C-660*</b>	4-50	0-100	None	<b>235.00</b>
<b>19H</b> (Specify CGA)	10-150	0-200	0-3000	<b>252.00</b>
<b>19S-510</b>	0-25	30" vac.-0-30	0-400	<b>235.00</b>
<b>19SM-350</b>	0-25	30" vac.-0-30	0-3000	<b>235.00</b>

\*Special for Cyanogen and Methyl Chloride



### OPTIONS

**Inboard Helium Leak Rate Certification** — Consists of a five minute check of helium diffusion into the regulator. Maximum acceptable leak rate is  $2 \times 10^{-9}$  ccs. **\$40.00**

**Combination Inboard/outboard Helium Leak Rate Certification** **80.00**  
**4000 psi Cylinder Pressure Gauge\*** **17.50**

**Tee Purge Assembly — Model 4753-350** (510 and 660 also available) used for eliminating atmospheric contamination or hazardous materials before and after use (for details see page 190). **262.00**

**Bonnet Venting Kit** **17.50**

**Cross Purge Assembly — Model 4774** — Eliminates the escape of toxic, corrosive, and/or flammable gases when regulator is disconnected from gas source. Also eliminates atmospheric contamination before use. (for details see page 190). **788.00**

\*Can be rated to 3600 psi when used with a 4000 psi gauge.