



## Model 81 Series Dual-Stage Deluxe General Purpose Brass Regulator



### Description

General purpose regulators constructed for use with non-corrosive gases.

### Applications

- Calibration of pressure gauges, rotameters, and mass flow controllers.
- General purpose applications where a constant delivery pressure is required.
- Applications with high duty cycle/demanding operating conditions.

### Design Features/Components

- Chrome plated brass body
- Neoprene diaphragms (1st and 2nd stages)
- 2-1/2" inlet and delivery pressure gauges
- Equipped with outlet needle valve
- 1/4" NPTM outlet connection
- One-piece encapsulated seat with (10 $\mu$ ) internal fitter to protect against contamination

### Materials of Construction

Gauges:	Chrome plated brass
Body:	Forged brass
Bonnet:	Chrome plated brass (1st and 2nd stages)
Diaphragm:	First Stage – neoprene Second Stage – neoprene
Seats:	First Stage – PTFE Second Stage – PTFE
Seals:	Neoprene

### Specifications

Maximum Inlet Pressure:	3000 psig (20,700 kPa)
Flow Capacity (Cv):	0.15
Operating Temperature:	-20°F to 140°F (-29°C to 60°C)
Porting (Regulator Body):	1/4" NPT Female
Porting Configuration:	2 High, 2 Low, 1 Interstage
Shipping Weight:	6 lbs

### Ordering Information

Model Number*	Delivery Pressure Range	Delivery Pressure Gauge	Cylinder Pressure Gauge
81L-CGA	2-15 psig	0-30 psig	0-3000 psig
81LA-510**	2-15 psig	0-15 psig	0-400 psig
81-CGA	4-50 psig	0-100 psig	0-3000 psig
81H-CGA	10-125 psig	0-200 psig	0-3000 psig
81-250-CGA	20-250 psig	0-400 psig	0-3000 psig

\*Note: Some CGA limitations may apply.

\*\*Acetylene service only

### Options

Model Number	Description
CON-0208-BO	1/4" Compression Tube Outlet Connection (Brass)
400V	Check Valve