

109 Series Regulator

Dual Stage

Forged Brass Body

Five-Port Configuration

*Teflon[®]-Coated
Neoprene
Diaphragm*



Typical Applications

- *Purging*
- *Pressure testing*
- *Blanketing*
- *Chamber pressurization*

Advanced Features

- *Forged brass body*
Economical high purity design
- *Pressure ranges 0-15 to 0-200 PSIG*
Broad range of applications
- *10 micron filtration in both stages*
Fail-safe seat performance

The 109 Series regulators are intended for pressure control of general purpose laboratory gases with applications requiring constant pressure control and delivery regardless of supply pressure variations.

100 Advantage

- *Capsule[®] seat*
Increased serviceability and life
- *Teflon[®]-lined Neoprene diaphragm*
Sensitive to downstream conditions
- *Forged body*
Durable, long-lasting construction
- *Field-adjustable pressure limit*
Safeguard downstream equipment
- *Integral relief valve*
Diaphragm and gauge protection
- *High flow capacity*
Supply multiple user locations

Materials

- Body*
Forged brass
- Bonnet*
Brass-plated die cast zinc
- Seat*
PTFE Teflon[®]
- Filter*
10 micron sintered bronze
- Diaphragm*
Teflon[®]-lined neoprene
- Internal Seals*
PTFE Teflon[®]

Specifications

- Maximum Inlet Pressure*
3000 PSIG (210 BAR)
- Temperature Range*
-40°F to 140°F (-40°C to 60°C)
- Gauges*
2 1/2" diameter brass
- Ports*
1/4" FPT
- Cv*
0.28
- Weight*
5.3 lbs. (2.385 kg)

Flow Performance Curves

Ordering Information

Stock Number (109 Series Dual Stage)	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assembly
109-7501-CGA	0-15 PSIG	0-30 PSIG	0-4000 PSIG	¼" Tube Fitting
109-7502-CGA	0-15 PSIG	0-30 PSIG	0-4000 PSIG	Needle Valve ¼" MPT
109-7504-CGA	0-40 PSIG	0-60 PSIG	0-4000 PSIG	¼" Tube Fitting
109-7505-CGA	0-40 PSIG	0-60 PSIG	0-4000 PSIG	Needle Valve ¼" MPT
109-7512-CGA	0-120 PSIG	0-200 PSIG	0-4000 PSIG	¼" Tube Fitting
109-7513-CGA	0-120 PSIG	0-200 PSIG	0-4000 PSIG	Needle Valve ¼" MPT
109-7520-CGA	0-200 PSIG	0-400 PSIG	0-4000 PSIG	¼" Tube Fitting
109-7521-CGA	0-200 PSIG	0-400 PSIG	0-4000 PSIG	Needle Valve ¼" MPT

Related Options

Option	Order No.	Description
Protocol Station	Add letter "M" after inlet	Convenient regulator wall mount, including tee, bracket, and flexible stainless steel pigtail with check valve in the inlet gland