

109 Series Regulator

Single Stage

Forged Brass Body

Five-Port Configuration

*Teflon[®]-Coated
Neoprene
Diaphragm*



The 109 Series regulators are intended for pressure control of general purpose laboratory gases where minor fluctuations in outlet pressure due to diminishing inlet supply pressure can be tolerated.

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

100 Advantage

Materials

Specifications

- *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

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[®]

Maximum Inlet Pressure
3000 PSIG (210 BAR)

Temperature Range
-40°F to 140°F (-40°C to 60°C)

Gauges
2 ½" diameter brass

Ports
¼" FPT

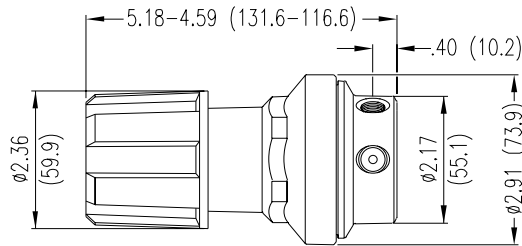
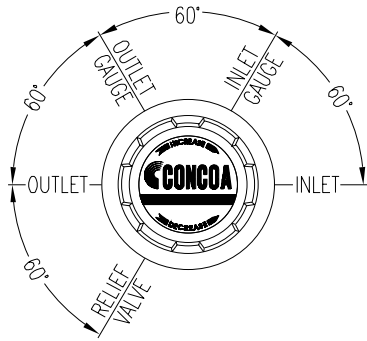
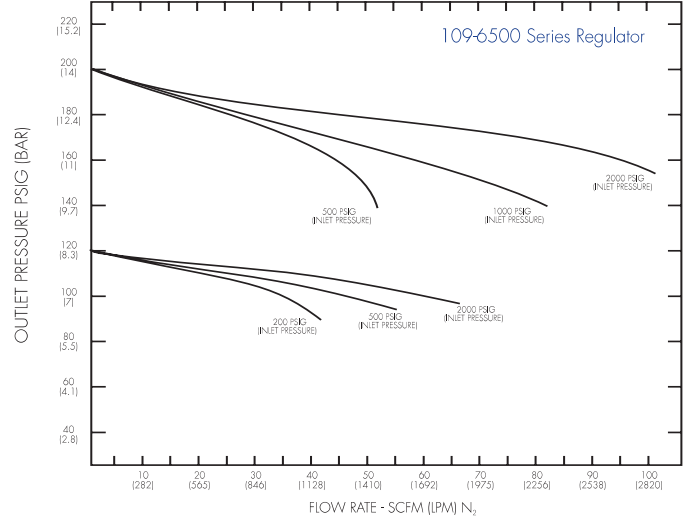
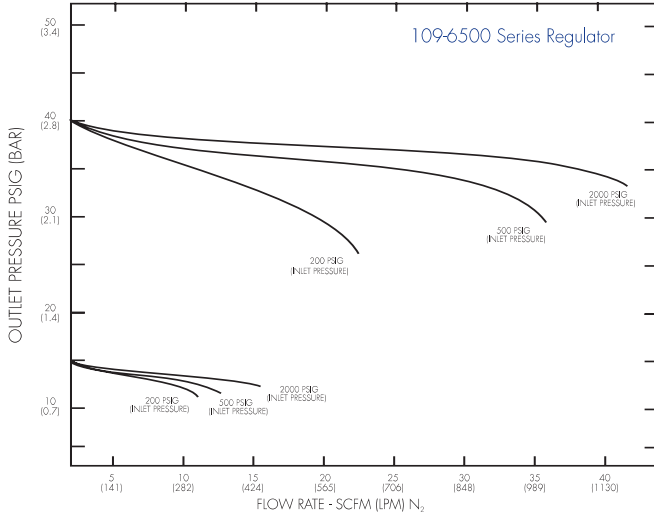
Helium Leak Integrity
1 x 10⁻⁸ scc/sec

Cv
0.2

Weight
3.8 lbs. (1.7 kg)

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Flow Performance Curves



Ordering Information

Stock Number (109 Series Single Stage)	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assembly
109-6501-CGA	0-15 PSIG	0-30 PSIG	0-4000 PSIG	¼" Tube Fitting
109-6502-CGA	0-15 PSIG	0-30 PSIG	0-4000 PSIG	Needle Valve ¼" MPT
109-6504-CGA	0-40 PSIG	0-60 PSIG	0-4000 PSIG	¼" Tube Fitting
109-6505-CGA	0-40 PSIG	0-60 PSIG	0-4000 PSIG	Needle Valve ¼" MPT
109-6512-CGA	0-120 PSIG	0-200 PSIG	0-4000 PSIG	¼" Tube Fitting
109-6513-CGA	0-120 PSIG	0-200 PSIG	0-4000 PSIG	Needle Valve ¼" MPT
109-6520-CGA	0-200 PSIG	0-400 PSIG	0-4000 PSIG	¼" Tube Fitting
109-6521-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