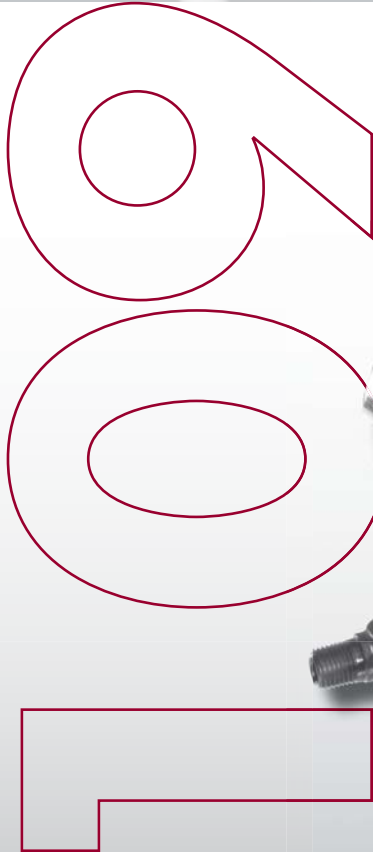




100 Series Regulators



- Dual Stage
- Forged Brass Body
- PTFE-Lined Diaphragm
- Five Port Configuration



109 7505 shown

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.

Typical Applications

- Purging
- Pressure testing
- Blanketing
- Chamber pressurization

Features

- Capsule® Seat**
Increased serviceability and life
- PCTFE-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
- 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

Materials

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

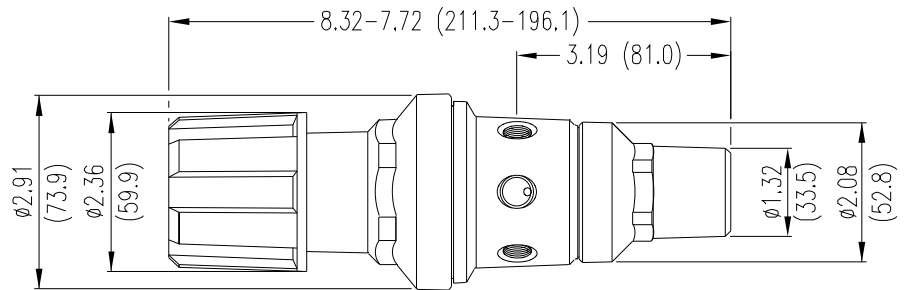
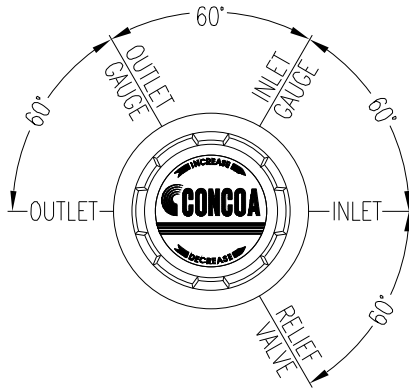
Specifications

- 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 (109 7513-580)**
4.69 lbs. (2.13 kg)

100 Series Regulators



Installation Information



Ordering Information

Order No. (109 Series Dual Stage)	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assembly
109 7501-CGA	0-15 PSIG	0-30 PSIG	0-4000 PSIG	1/4" tube fitting
109 7502-CGA	0-15 PSIG	0-30 PSIG	0-4000 PSIG	Needle valve 1/4" MPT
109 7504-CGA	0-40 PSIG	0-60 PSIG	0-4000 PSIG	1/4" tube fitting
109 7505-CGA	0-40 PSIG	0-60 PSIG	0-4000 PSIG	Needle valve 1/4" MPT
109 7512-CGA	0-120 PSIG	0-200 PSIG	0-4000 PSIG	1/4" tube fitting
109 7513-CGA	0-120 PSIG	0-200 PSIG	0-4000 PSIG	Needle valve 1/4" MPT
109 7520-CGA	0-200 PSIG	0-400 PSIG	0-4000 PSIG	1/4" tube fitting
109 7521-CGA	0-200 PSIG	0-400 PSIG	0-4000 PSIG	Needle valve 1/4" MPT

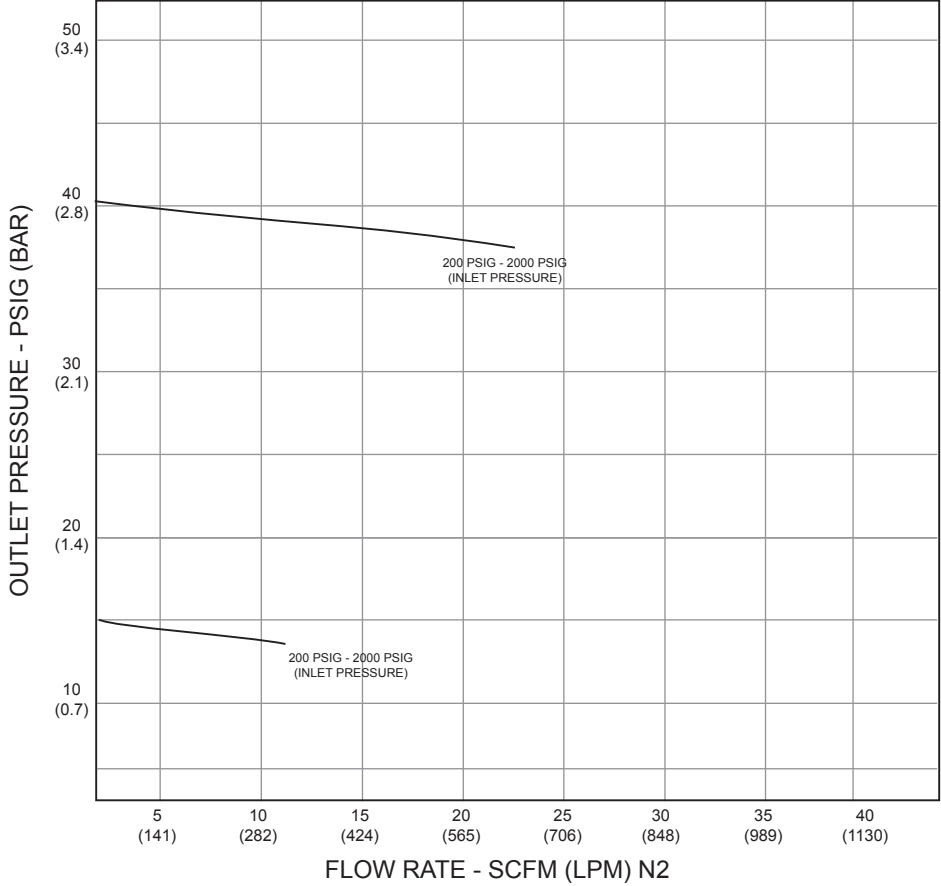
Related Options

Options	Order No.	Description
Protocol station	Add letter "M" after inlet	Convenient regulator wall mount, including tee, bracket, and flexible Stainless Steel hose with check valve in the inlet gland
Protocol purge station	Add letter "Q" after inlet	Convenient regulator wall mount with purge

100 SERIES

Flow Curves for 109 Series Dual Stage Regulator

109 Series Dual Stage Regulator



109 Series Dual Stage Regulator

