

# 110 General Purpose Single-Stage Regulator

The general purpose single-stage regulators are recommended for control of inert and non-corrosive gas applications. These regulators are not recommended for applications where inboard diffusion of air or outgassing of elastomeric components would adversely affect the work being done. A preset safety relief valve vents to atmosphere, which makes this regulator suitable for only nonhazardous gases.



## 110 Features

- Large 1-3/4" Nylon Reinforced Diaphragm
- Dual Filters
- Stem Type Seat Mechanism
- Self Reseating Relief Valve
- Rugged Brass Construction
- Chrome Plated Body, Bonnet, and Gauges

## 110 Typical Applications

- Non-Critical Specialty Gases
- Non-Corrosive Gases
- Purging
- Chamber Pressurization
- Blanketing
- Pressure Testing

## Materials of Construction

Body	Electroless Nickel Plated Brass Bar Stock
Bonnet	Electroless Nickel Plated Brass Forging
Seat	Teflon®
Seat Retainer	Brass
Diaphragm	Neoprene
Gauge	2 1/2" Chrome Plated
Filters (2)	316 Stainless Steel
Valve Stem	316 Stainless Steel
Valve Spring	316 Stainless Steel
Outlet Valve	Chrome Plated Brass

## 110 Specifications

Maximum Inlet Pressure	3000 PSIG
Temp. Operating Range	-40° F to 165° F
Ports (4)	1/4" FNPT
Design Leak Rate	Bubble Tight 1 x 10 <sup>-5</sup> ccs Helium
Flow Coefficient Cv	0.187
Inlet Decay Rate	0.58/100 PSIG
Weight	3.32 lbs.

## How to Order: *Specify a number from each category*

Model Number	Max. Outlet Pressure PSIG	Delivery Gauge		CGA Inlet Fittings	Accessories	Options
		Range PSIG	Graduations PSIG			
110	15	0-30	1	00 1/4" FNPT	00 None	00 None
111	50	0-60	2	20 Chrome Needle Valve with 1/4" MNPT Outlet	02 CGA 320	
112	100	0-200	5	40 Chrome Needle Valve with 1/4" FNPT Outlet	03 CGA 326	
113	250	0-400	10	41 Chrome Needle Valve with 1/8" Brass Swagelok	05 CGA 346	
				42 Chrome Needle Valve with 1/8" Stainless Steel Swagelok	06 CGA 350	
				82 Chrome "B" Fitting (9/16" - 18RH)	07 CGA 510	
					08 CGA 540	
					09 CGA 580	
					10 CGA 590	