



# 200 Series Regulators

# 212 SERIES

The 212 Series regulators are intended for primary pressure control of non-corrosive, high purity or liquefied gases (up to grade 4.5) for applications requiring constant pressure control and delivery regardless of supply pressure variations.

- Dual Stage
- Chrome-Plated Forged Brass Body
- 316L Stainless Steel Diaphragm
- Five Port Configuration

## Typical Applications

Argon
Nitrogen
Oxygen
Carbon dioxide
Hydrogen
Non corrosive mixtures



212 2331-580 shown

## Features

- CAPSULE® Seat**  
Increased serviceability and life
- 316L Stainless Steel Diaphragm**  
No inboard diffusion
- Forged Body**  
Durable, long-lasting construction
- Field-Adjustable Pressure Limit**  
Safeguard downstream equipment
- Large Convoluted Diaphragm**  
Smooth pressure changes
- Standard Relief Valve**  
Diaphragm and gauge protection
- Chrome-Plated Forged Brass Body**  
Economical high purity design
- High Flow Capacity**  
Supply multiple user locations
- Pressure Ranges 0-15 to 0-200 PSIG (0-1 to 0-14 BAR)**  
Broad range of applications

## Materials

- Body**  
Chrome-plated forged brass
- Bonnet**  
Chrome-plated die-cast zinc
- Seat**  
PTFE (first stage)  
PTFE (second stage)
- Filter**  
10 micron sintered bronze
- Diaphragm**  
316L stainless steel
- Internal Seals**  
PTFE

## Specifications

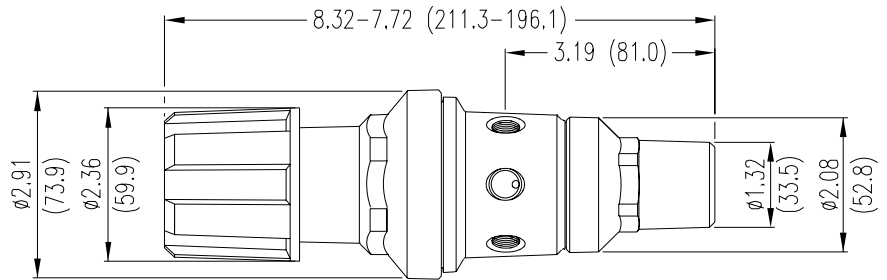
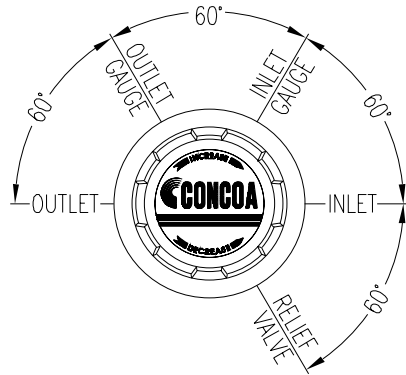
- Maximum Inlet Pressure**  
3000 PSIG (210 BAR)  
3500 PSIG (240 BAR) optional  
4500 PSIG (310 BAR) optional
- Temperature Range**  
-40°F to 140°F (-40°C to 60°C)
- Gauges**  
2 1/2" (68mm) diameter chrome-plated brass
- Ports**  
1/4" FPT
- Helium Leak Integrity**  
1 x 10<sup>-8</sup> scc/sec
- Cv**  
0.28  
*See page 206 for flow curves*
- Weight (212 2331-580)**  
5.1 lbs. (2.3 kg)

CRN 0H5216.5R1

# 200 Series Regulators



## Installation Dimensions



## Ordering Information

212	A	B	C	D	-CON	Options	
Series 212	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly Gauges	Inlet Connections	Installed Options
	<b>1:</b> 0-15 PSIG (0-1 BAR)	0-30 PSIG/ 0-2 BAR	<b>0:</b> None	<b>0:</b> 1/4" FPT port	<b>0:</b> Bare body	<b>000:</b> 1/4" FPT	<b>B:</b> Protocol alarm station with pressure switch gauges
	<b>2:</b> 0-40 PSIG (0-3 BAR)	0-60 PSIG/ 0-4 BAR	<b>3:</b> 0-4000 PSIG/ 0-275 BAR	<b>1:</b> 1/4" MPT	<b>1:</b> Standard assembly (PSIG/kPa gauges)	<b>TF2:</b> 1/8" tube	<b>C:</b> Protocol switchover station
	<b>3:</b> 0-120 PSIG (0-8 BAR)	0-200 PSIG/ 0-14 BAR	<b>5:</b> 0-1000 PSIG/ 0-70 BAR	<b>2:</b> 1/4" tube fitting	<b>2:</b> Standard assembly (BAR/PSIG gauges)	<b>TF4:</b> 1/4" tube	<b>E:</b> Protocol alarm station with intrinsically safe transducer for hazardous environments
	<b>4:</b> 0-200 PSIG (0-14 BAR)	0-400 PSIG/ 0-27 BAR	<b>6:</b> 0-400 PSIG/ 0-27 BAR	<b>3:</b> Diaphragm valve 1/4" tube fitting		<b>TF6:</b> 3/8" tube	<b>H:</b> Protocol switchover alarm station with pressure switch gauges
	<b>5:</b> 0-15 PSIG (0-1 BAR)*	0-30 PSIG/ 0-2 BAR with redline for acetylene use	<b>8:</b> 0-6000 PSIG/ 0-415 BAR*	<b>4:</b> Diaphragm valve 1/4" MPT		<b>M06:</b> 6mm tube	<b>J:</b> Protocol alarm station with standard transducer for non hazardous environments
	* Not available with 4500 PSIG (310 BAR) Max Inlet		<b>9:</b> 0-600 PSIG/ 0-42 BAR	<b>5:</b> Needle valve 1/4" MPT		CGA DIN 477 BS 341 and others available	<b>K:</b> Protocol switchover alarm station with standard transducer for non hazardous environments
		<b>G:</b> 0-4000 PSIG/ 0-275 BAR†	<b>6:</b> 1/8" tube fitting				<b>M:</b> Protocol station
		*Max inlet 4500 PSIG (310 BAR) with PCTFE seat CAPSULE®	<b>7:</b> 3/8" tube fitting				<b>Q:</b> Protocol purge station
		†Maximum inlet pressure 3500 (240 BAR) with PCTFE seat CAPSULE	<b>8:</b> Diaphragm valve 1/8" tube fitting				<b>T:</b> Tee purge
			<b>9:</b> Diaphragm valve 1/4" FPT				<b>X:</b> Protocol switchover alarm station with intrinsically safe transducer for hazardous environments
			<b>A:</b> 3/8" BSP RH fitting				
			<b>B:</b> Diaphragm valve 3/8" tube fitting				
			<b>C:</b> 3/8" BSP LG fitting				
			<b>D:</b> 6mm brass hose barb				
			<b>G:</b> 1/8" stainless steel tube fitting				
			<b>H:</b> 1/4" stainless steel tube fitting				
			<b>M:</b> 6mm tube fitting				
			<b>S:</b> Diaphragm valve 6mm tube fitting				

REGULATORS



# Regulator Flow Curves

## Flow Curves for 212 Series

