

# 213 SERIES REGULATORS



The 213 Series regulators deliver non-corrosive, high purity or liquefied gases (up to grade 4.5) for applications requiring constant low pressure control and delivery regardless of supply pressure variations. With delivery pressures as low as 0.1 PSIG (7 mBAR) that can be adjusted in 0.05 to 0.1 PSIG (4 to 7 mBAR) increments in two delivery pressure ranges, the 213 regulator satisfies any high purity application requiring atmospheric pressures below 5 PSIG (350 mBAR).

## Typical Applications

- Gas System Charging
- Fuel Gas Supply Control
- Gas Supply Purging
- Low Pressure Inert Blanketing of Chemicals and Fuel Tanks



213 1331-580 shown

## Features

**Standard Relief Valve** protects diaphragm and gauges

**316L Stainless Steel Diaphragm** prevents inboard diffusion

**CAPSULE® Seat Technology** increases product serviceability and life

**Fine Adjusting Screw Thread** allows precise pressure adjustment

## Materials and Specifications

**Maximum Inlet Pressure (bare body):** 3000 PSIG (210 BAR); 4500 PSIG (240 BAR) optional

**Body:** Chrome-plated forged brass

**Bonnet:** Chrome-plated, die cast zinc

**Gauges:** 2 1/2 in (68 mm) diameter steel with brass connection (outlet);

2 1/2 in (68 mm) diameter plated case (inlet)

**Seats:** PCTFE (first stage); PTFE (second stage)

**Filter:** 10-micron sintered bronze

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

**Diaphragm:** 316L Stainless steel

**Cv:** 0.02

**Helium Leak Integrity** 1 x 10<sup>-8</sup> scc/sec

**Internal Seals:** PTFE

**Ports (bare body):** 1/4 in FNPT

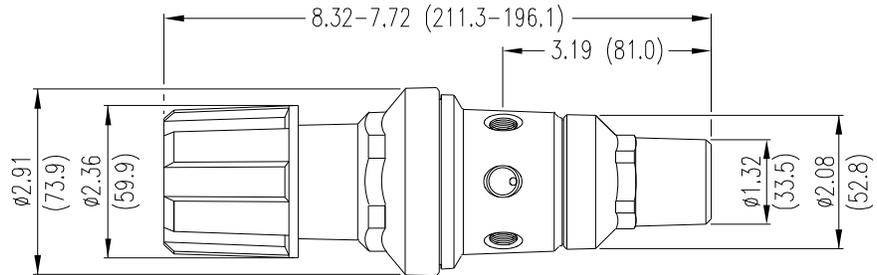
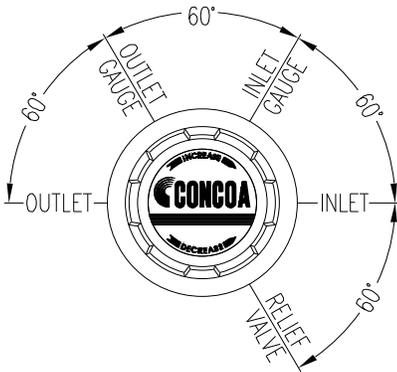
**Conformances:** Cleanliness meets or exceeds CGA G-4.1; PED 2014/68/EU; ANSI/ASME B40.1;

CRN OH5216

# 213 SERIES REGULATORS



## Installation Dimensions



## Ordering Information

213	A	B	C	D	-CON	Options	
Series 213	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly Gauges	Inlet Connections	Installed Options
	<b>1:</b> 0-2 PSIG (0-140 mBAR)	0-5 PSIG/ (0-350 mBAR)	<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> 0-5 PSIG (0-350 mBAR)	0-10 PSIG/ (0-700 mBAR)	<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>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>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>8:</b> 0-6000 PSIG/ 0-415 BAR*	<b>5:</b> Needle valve 1/4" MPT		CGA DIN 477 BS 341 and others available	<b>J:</b> Protocol alarm station with standard transducer for non-hazardous environments
			<b>9:</b> 0-600 PSIG/ 0-42 BAR	<b>6:</b> 1/8" tube fitting			<b>K:</b> Protocol switchover alarm station with standard transducer for non-hazardous environments
			<i>*Max inlet 4500 PSIG (310 BAR) with PCTFE seat CAPSULE®</i>	<b>7:</b> 3/8" tube fitting			<b>M:</b> Protocol station
				<b>8:</b> Diaphragm valve 1/8" tube fitting			<b>Q:</b> Protocol purge station
				<b>9:</b> Diaphragm valve 1/4" FPT			<b>T:</b> Tee purge
				<b>A:</b> 3/8" BSP RH fitting			<b>X:</b> Protocol switchover alarm station with intrinsically safe transducer for hazardous environments
				<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			

# REGULATOR FLOW CURVES



## Flow Curves for 213

