

200 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 satisfies any high purity application requiring atmospheric pressures below 5 PSIG (350 mBAR).

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



Low pressure inert blanketing of chemicals and fuel tanks

Gas supply purging

Gas system charging

Fuel gas supply control

Calibration gas control



213 1331-580 shown

Features

CAPSULE® Seat

Increased serviceability and life

316L Stainless Steel Diaphragm No inboard diffusion

Forged Body

Durable, long-lasting construction

Large Convoluted Diaphragm

Stable pressure control

Standard Relief Valve

Diaphragm and gauge protection

Chrome-Plated Forged Brass Body

High purity design

Substantial Flow Capacity at Low Outlet Pressure

Supply multiple user locations

Pressure Ranges 0.05-2.0 to 0.1-5.0 PSIG (4-140 mBAR to 7-350 mBAR)

Excellent pressure control in 0.05 to 0.1 PSIG (4 to 7 mBAR) increments

3000 and 4500 PSIG (210 and 415 BAR) **Inlet Pressure Rating**

Safe use with high pressure cylinders

Materials

Body

Chrome-plated forged brass

Chrome-plated die-cast zinc

PCTFE (first stage) PTFE (second stage)

10 micron sintered bronze

Diaphragm

316L stainless steel

Internal Seals

PTFE

Specifications

Maximum Inlet Pressure

3000 PSIG (210 BAR) 4500 PSIG (310 BAR) Optional

Temperature Range

-40°F to 140°F (-40°C to 60°C)

Gauges

Inlet: 2 1/2" (68mm) diameter

chrome-plated brass

Outlet: 2 1/2" (68mm) diameter steel case

with brass connection

Ports

1/4" FPT

Helium Leak Integrity

1 x 10⁻⁸ scc/sec

See page 208 for flow curves

Weight (213 1331-580)

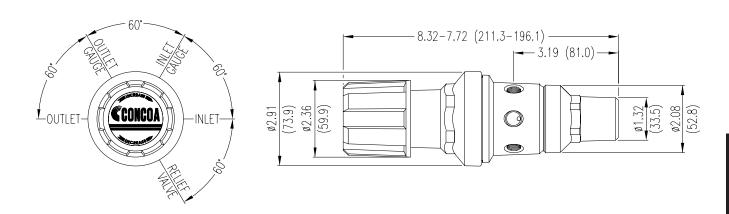
5.1 lbs. (2.3 kg)

CRN 0H5216 5R1

200 Series Regulators



Installation Dimensions



Ordering Information							
213	А		В	С	D	-CON	Options
Series 213	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly Gauges	Inlet Connections	Installed Options
	1: 0-2 PSIG (0-140 mBAR)	0-5 PSIG/ (0-350 mBAR)	0: None	0 : 1/4" FPT port	0: Bare body	000: 1/4" FPT	B: Protocol alarm station (110/220 VAC)
	2: 0-5 PSIG (0-350 mBAR)	0-10 PSIG/ (0-700 mBAR)	3: 0-4000 PSIG/ 0-275 BAR	1: 1/4" MPT	1: Standard assembly (PSIG/kPa gauges)	TF2: 1/8" tube	C: Protocol switchover station
			5: 0-1000 PSIG/ 0-70 BAR	2: 1/4" tube fitting	2: Standard assembly (BAR/PSIG gauges)	TF4: 1/4" tube	H: Protocol switchover station with alarm (110/220 VAC)
			6: 0-400 PSIG/ 0-27 BAR	3: Diaphragm valve 1/4" tube fitting		TF6: 3/8" tube	M: Protocol station
			8: 0-6000 PSIG/ 0-415 BAR*	5: Needle valve 1/4" MPT		CGA DIN 477	Q: Protocol purge station
			9: 0-600 PSIG/ 0-42 BAR	6: 1/8" tube fitting		BS 341 and others available	T: Tee purge
			*Max inlet 4500 PSIG (310 BAR) with PCTFE seat CAPSULE®	7: 3/8" tube fitting			
				8: Diaphragm valve 1/8" tube fitting			
				9: Diaphragm valve 1/4" FPT			
				A: 3/8" BSP RH fitting			
				B: Diaphragm valve 3/8" tube fitting			
				C: 3/8" BSP LG fitting			
				D: 6mm brass hose barb			
				G: 1/8" stainless steel tube fitting			
				H: 1/4" stainless steel tube fitting			
				M: 6mm tube fitting			
				S: Diaphragm valve 6mm tube fitting			