

200 Series Regulators

The 205 Series regulators are intended for secondary pressure control of non-corrosive, high purity or liquefied gases (up to grade 4.5) or as point of use pressure control in high purity gas distribution systems.

- Single Stage
- Chrome-Plated Forged Brass Body
- 316L Stainless Steel Diaphragm
- Four Port Configuration

Typical Applications

Point-of-use laboratory systems

Gas supply purging

Liquefied hydrocarbon gas control

Control of cryogenic gases

Bulk gas distribution systems



205 3021-000 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

3000 PSIG (210 BAR) Inlet Pressure Rating

Safe use with high pressure cylinders

Materials

Body

Chrome-plated forged brass

Chrome-plated die-cast zinc

Seat

PTFE

Filter

10 micron sintered bronze

Diaphragm

316L stainless steel

Internal Seals

PTFF

Specifications

Maximum Inlet Pressure

3000 PSIG (210 BAR)

Temperature Range

-40°F to 140°F (-40°C to 60°C)

2 1/2" (68mm) diameter chrome-plated brass

Ports

1/4" FPT

Helium Leak Integrity

1 x 10⁻⁸ scc/sec

Cv

0.28

See page 206 for flow curves

Weight (205 3021-000)

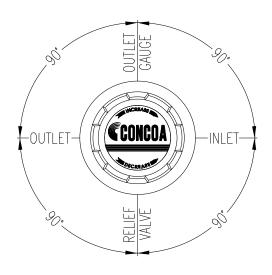
3.2 lbs. (1.44 kg)

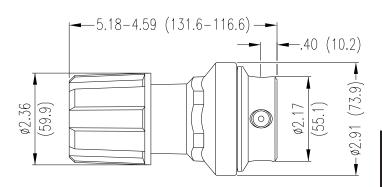
CRN 0H5216.5R1

200 Series Regulators



Installation Dimensions





Ordering Information									
205	A		В	С	D	-CON	Options		
Series 205	Outlet Pressure Out	tlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly Gauges	Inlet Connections	Installed Options		
		0 PSIG/ BAR	0: None	0: 1/4" FPT port	0: Bare body	000: 1/4" FPT	M: Protocol station		
		0 PSIG/ BAR		1: 1/4" MPT	1: Standard assembly (PSIG/kPa gauges)	TF2: 1/8" tube	Q: Protocol purge station		
		00 PSIG/ 4 BAR		2: 1/4" tube fitting	2: Standard assembly (BAR/PSIG gauges)	TF4: 1/4" tube			
		00 PSIG/ 7 BAR		3: Diaphragm valve 1/4" tube fitting	6: Mirror image assembly (PSIG/kPa gauges)	TF6: 3/8" tube			
		0 PSIG/ BAR		4: Diaphragm valve 1/4" MPT	7: Mirror image assembly (BAR/PSIG gauges)	M06: 6mm tube			
	*With redline for acetylene use			5: Needle valve 1/4" MPT					
				6: 1/8" tube fitting					
				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 LH 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					