

300 Series Regulators

308 SERIES

The 308 Series regulators are specifically designed to prevent freeze-up problems associated with high flows of carbon dioxide and nitrous oxide. As CO_2 or N_2O passes through a regulator seat, dry ice can form if the flow is too high, causing the regulator to freeze up.

- Single Stage
- Chrome-Plated Brass Barstock Body
- 316L Stainless Steel Diaphragm
- Electrically Heated
- NEMA 4

Typical Applications

Chemical storage blanketing

Anaerobic chambers

Inert gas purging

Atomic absorption oxidizer gas

Semiconductor reactor furnace

Inductively coupled plasma systems

pH control

308 3301-330 shown



Features

CAPSULE® Seat

Increased serviceability and life

316L Stainless Steel Diaphragm

No inboard diffusion

Low Wetted Surface Area

Minimal purge requirements

Field-Adjustable Pressure Limit

Safeguard downstream equipment

Convoluted Diaphragm

Smooth pressure changes

Compact Design

Easily transported and integrated into systems

Three 50-Watt Heaters

Maintain gas flow up to 350 SCFH (165 LPM)

316L Stainless Steel Diaphragm

Unaffected by low temperatures

NEMA 4 Housing

For either indoor or outdoor use

Materials

Body

Chrome-plated brass barstock

Bonne

Chrome-plated brass barstock

Seat

PTFE

Filter

10 micron sintered bronze

Diaphragm

316L stainless steel

Internal Seals

PTFE

Electrical Housing

NEMA 4

Specifications

Maximum Inlet Pressure

3000 PSIG (210 BAR)

Temperature Range (Thermostat)

95°F to 120°F (35°C to 49°C)

Heaters

3 @ 50 watts each (110 or 220 VAC)

Gauges

2" (53mm) diameter chrome-plated brass

Ports

1/4" FPT

Helium Leak Integrity

1 x 10⁻⁸ scc/sec

Cv

0.1

See page 191 for flow curves

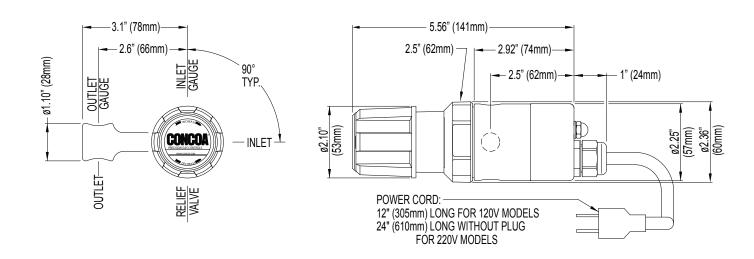
Weight (308 3301-330)

5.4 lbs. (2.45 kg)

300 Series Regulators



Installation Dimensions



Ordering Information							
308	Α		В	С	D	-CON	Options
Series 308 -	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly Gauges	Inlet Connections	Installed Options
	1: 0-15 PSIG (0-1 BAR)	0-30 PSIG/ 0-2 BAR	0: None	0: 1/4" FPT port	0: Bare body 110 VAC	000: 1/4" FPT	B: Protocol alarm station (110/220 VAC)
	2: 0-30 PSIG (0-2 BAR)	0-60 PSIG/ 0-4 BAR	3 : 0-4000 PSIG/ 0-275 BAR	1: 1/4" MPT	1: Standard assembly 110 VAC (PSIG/kPa gauges)	TF2: 1/8" tube	C: Protocol switchover station
	3: 0-50 PSIG (0-3.5 BAR)	0-100 PSIG/ 0-7 BAR		2: 1/4" tube fitting	2: Bare body 220 VAC*	TF4: 1/4" tube	H: Protocol switchover station with alarm (110/220 VAC)
	5: 0-100 PSIG (0-7 BAR)	0-200 PSIG/ 0-14 BAR		3: Diaphragm valve 1/4" tube fitting	3: Standard assembly 220 VAC* (PSIG/kPa gauges)	TF6: 3/8" tube	M: Protocol station
	7: 0-175 PSIG (0-12 BAR)	0-400 PSIG/ 0-27 BAR		4: Diaphragm valve 1/4" MPT	4: Standard assembly 110 VAC (BAR/PSIG gauges)	M06: 6mm tube	Q: Protocol purge station
				5: Needle valve 1/4" MPT	5: Standard assembly 220 VAC (BAR/PSIG gauges)*	CGA DIN 477 BS 341 and others available	
				6: 1/8" tube fitting	*220 volt models are CE marked		
				7: 3/8" tube fitting			
				8: Diaphragm valve 1/8" tube fitting			
				9: Diaphragm valve 1/4" FPT			
				A: 3/8" BSP RH fitting			
				M: 6mm tube fitting			
				S: Diaphragm valve 6mm tube fitting			

