



300 Series Regulators

308 Series Regulator

Single Stage

Chrome-Plated Brass Barstock Body

316L Stainless Steel Diaphragm

Electrically Heated

NEMA 4

The 308 Series regulators are specifically designed to prevent freeze-up problems associated with high flows of carbon dioxide and nitrous oxide. As CO₂ or N₂O passes through a regulator seat, dry ice can form if the flow is too high, causing the regulator to freeze up.



Advanced Features

- Chrome-plated brass barstock body
Smooth surface finish
- Three 50 watt heaters
Maintain gas flow up to 350 scfh
- 316L stainless steel diaphragm
Unaffected by low temperatures
- NEMA 4 Housing

Typical Applications

- Chemical storage blanketing
- Anaerobic chambers
- Inert gas purging
- Atomic absorption oxidizer gas
- Semiconductor reactor furnace
- Inductively coupled plasma systems
- Ph control

**Now Available with
New NEMA 4
Waterproof Housing**

300 Series Advantage

- 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

Materials

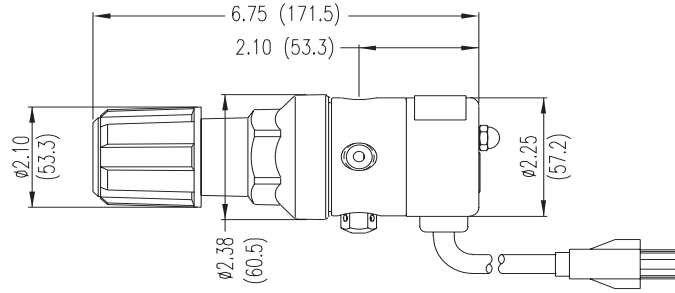
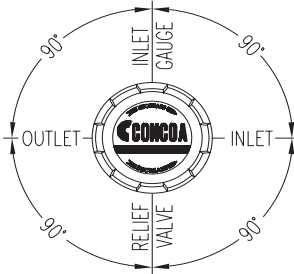
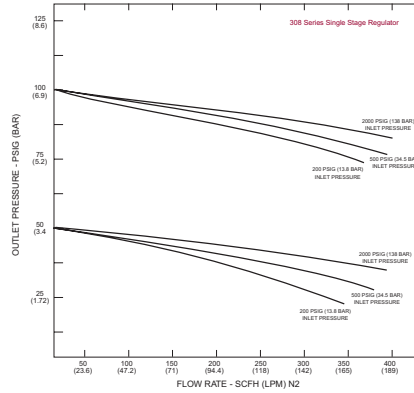
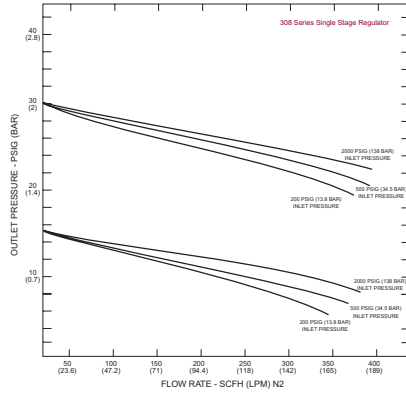
- Body
Chrome-plated brass barstock
- Bonnet
Chrome-plated die cast zinc
- Seat
PTFE
- Filter
10 micron sintered bronze
- Diaphragm
316L stainless steel
- Internal Seals
PTFE
- Electrical Housing
NEMA 4

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" diameter chrome-plated
- Ports
1/4" FPT
- Helium Leak Integrity
1 x 10⁻⁸ scc/sec
- Cv
0.1
- Weight (308-3031-320)
5.4 lbs. (2.45 kg)

300 Series Regulators

Technical Information



300 Series

Ordering Information

308	A	B	C	D	-Inlet	Options	
Series 308	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Assembly Gauges	Inlet Connections	Installed Options
	1: 0-15	0-30 PSIG	0: None	0: 1/4" FPT Port	0: Bare Body 110 VAC	000: 1/4" FPT	A: Protocol Alarm Station (110V)
	2: 0-30	0-60 PSIG	3: 0-4000 PSIG	1: 1/4" MPT	1: Standard Assembly 110 VAC (PSIG/kPa Gauges)	TF2: 1/8" Tube	B: Protocol Alarm Station (220V)
	3: 0-50	0-100 PSIG		2: 1/4" Tube Fitting	2: Bare Body 220 VAC*	TF4: 1/4" Tube	C: Protocol Switchover Station
	5: 0-100	0-200 PSIG		3: Diaphragm Valve 1/4" Tube Fitting	3: Standard Assembly 220 VAC* (PSIG/kPa Gauges)	TF6: 3/8" Tube	G: Protocol Switchover Station with Alarm (110V)
	7: 0-175	0-400 PSIG		4: Diaphragm Valve 1/4" MPT	4: Standard Assembly 110 VAC (BAR/PSIG Gauges)	M06: 6mm Tube	H: Protocol Switchover Station with Alarm (210V)
				5: Needle Valve 1/4" MPT	5: Standard Assembly 220 VAC (BAR/PSIG Gauges)*	CGA DIN 477 BS 341 and others available	M: Protocol Station
				6: 1/8" Tube Fitting			Q: Protocol Purge Station
				7: 3/8" Tube Fitting			
				8: Diaphragm Valve 1/8" Tube Fitting			
				9: Diaphragm Valve 1/4" FPT			
				A: 3/8" BSP Right Hand Fitting			
				M: 6mm Tube Fitting			
				S: Diaphragm Valve 6mm Tube Fitting			

*230 volt models are CE (European health & safety) marked