



308 SINGLE STAGE ELECTRICALLY HEATED REGULATOR

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

Highlighted Features

- 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

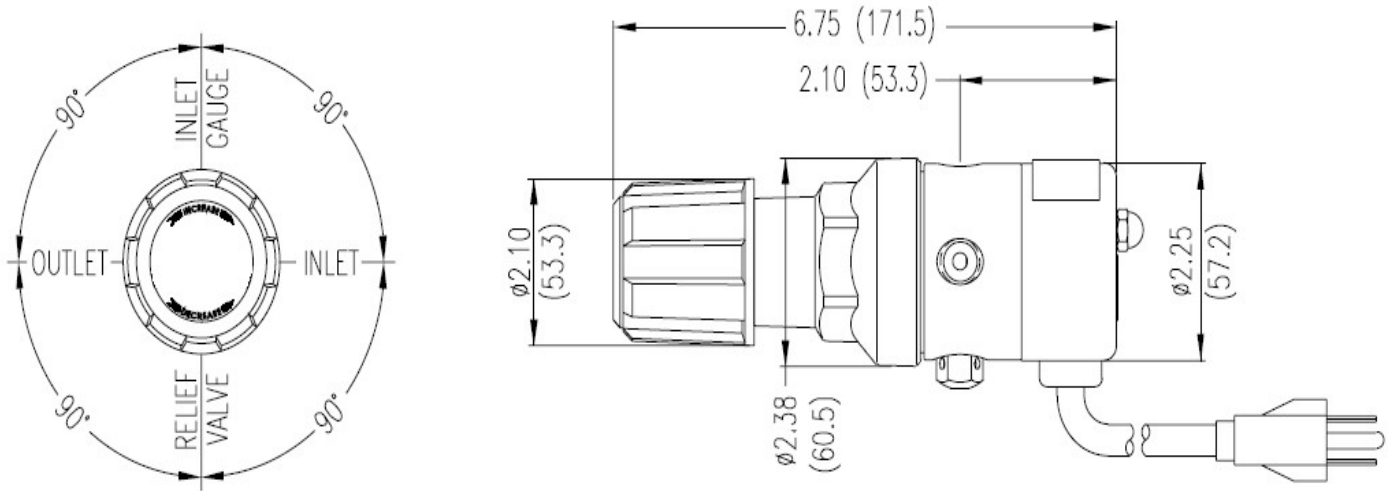


Features	Materials	Specifications
<p>CAPSULE® Seat Increased serviceability and life</p> <p>316L Stainless Steel Diaphragm No inboard diffusion</p> <p>Low Wetted Surface Area Minimal purge requirements</p> <p>Field-Adjustable Pressure Limit Safeguard downstream equipment</p> <p>Convuluted Diaphragm Smooth pressure changes</p> <p>Compact Design Easily transported and integrated into systems</p> <p>Three 50-Watt Heaters Maintain gas flow up to 350 SCFH (165 LPM)</p> <p>316L Stainless Steel Diaphragm Unaffected by low temperatures</p> <p>NEMA 4 Housing For either indoor or outdoor use</p>	<p>Body Chrome-plated brass barstock</p> <p>Bonnet Chrome-plated brass barstock</p> <p>Seat PCTFE</p> <p>Filter 10 micron sintered bronze</p> <p>Diaphragm 316L stainless steel</p> <p>Internal Seals PTFE</p> <p>Electrical Housing NEMA 4</p>	<p>Maximum Inlet Pressure 3000 PSIG (210 BAR)</p> <p>Temperature Range 95°F to 120°F (35°C to 49°C)</p> <p>Heaters 3 @ 50 watts each (110 or 220 VAC)</p> <p>Gauges 2" (53mm) diameter chrome-plated brass</p> <p>Ports 1/4" FPT</p> <p>Helium Leak Integrity 1 x 10⁻⁸ scc/sec</p> <p>Cv 0.1 <i>Flow curves on pages to follow</i></p> <p>Weight (308 3301-330) 5.4 lbs. (245 kg)</p>

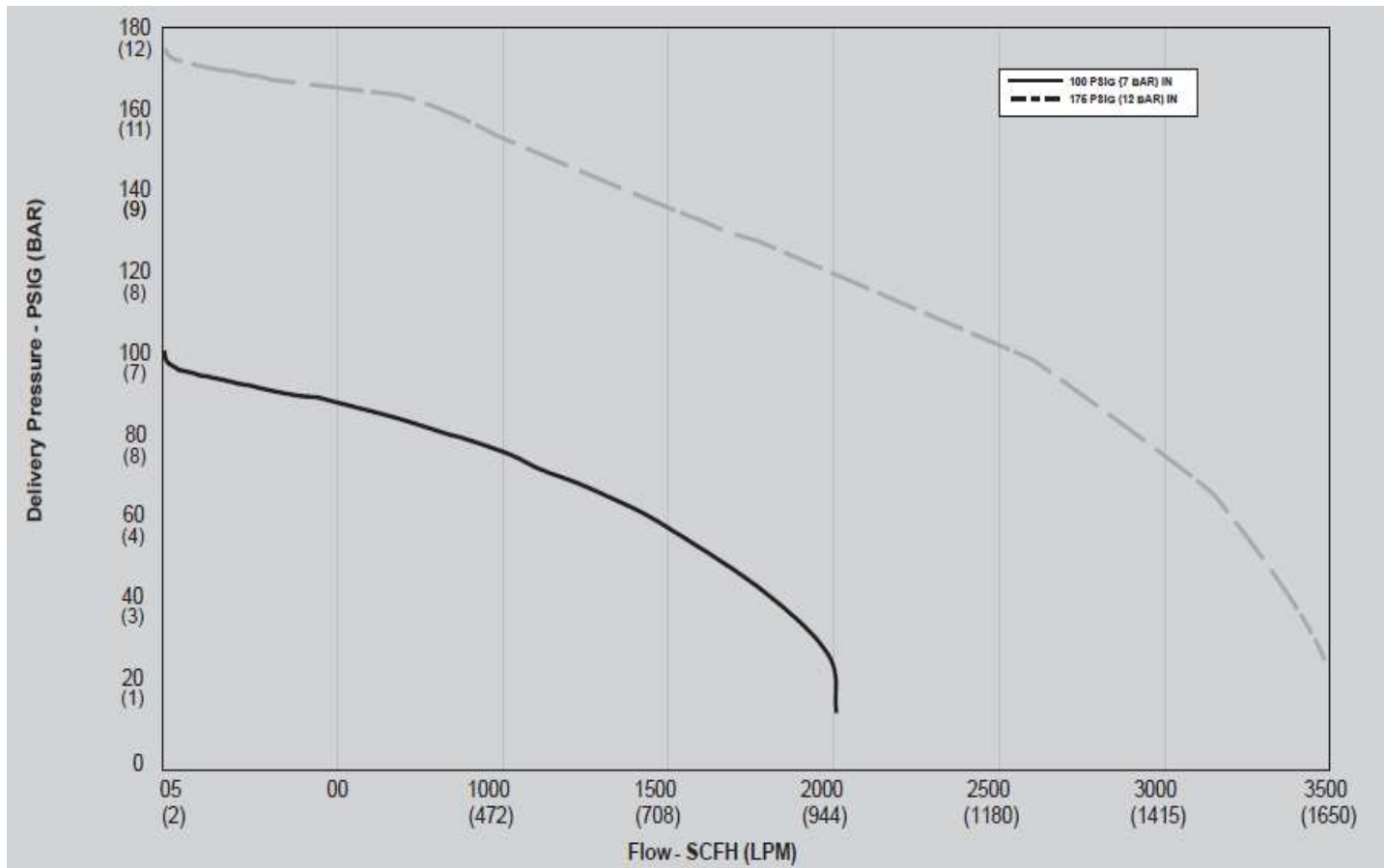
Order Information

Model	A		B	C	D	-CON	
Series	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Gauges	Inlet Connections	Installed Options
308	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 with pressure
	2: 0-30 PSIG (0-3 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	D: Deep purge*
	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	E: Protocol alarm station with intrinsically safe transducer for hazardous
	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	H: Protocol switchover alarm station with pressure switch gauges
				5: Needle valve 1/4" MPT	5: Standard assembly 220 VAC (BAR/PSIG gauges)*	CGA DIN 477 BS 341 and others available	J: Protocol alarm station with standard transducer for non- hazardous
				6: 1/8" tube fitting			
				7: 3/8" tube fitting	*220 volt models are CE marked		K: Protocol switchover alarm station with standard transducer for non-hazardous environments
				8: Diaphragm valve 1/8" tube fitting			
				9: Diaphragm valve 1/4" FPT			M: Protocol station
			A: 3/8" BSP RH fitting			Q: Protocol purge station	
			M: 6mm tube fitting			X: Protocol switchover alarm station with intrinsically safe transducer for hazardous environments	
			S: Diaphragm valve 6mm tube fitting				

Installation Dimensions



308 Regulator Flow Curves



Can't find what you need? We will be happy to assist you to find the right regulator to fit your needs.