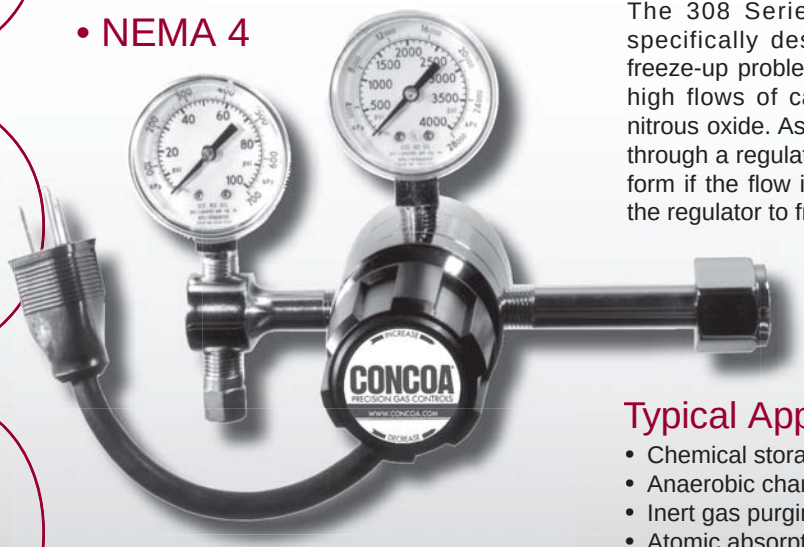
300 Series Regulators

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



308 3301 shown

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.

Typical Applications

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

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 intetgrated into systems

Three 50-Watt Heaters
Maintain gas flow up to 350 SCFH

316L Stainless Steel Diaphragm
Unaffected by low temperatures

NEMA 4 Housing
For either indoor or outdoor use

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 brass

Ports
1/4" FPT

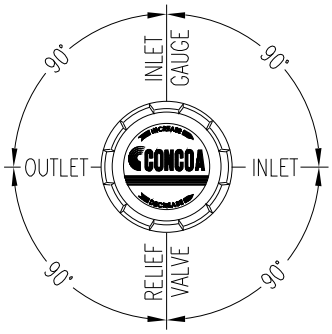
Helium Leak Integrity
1 x 10^{-8} scc/sec

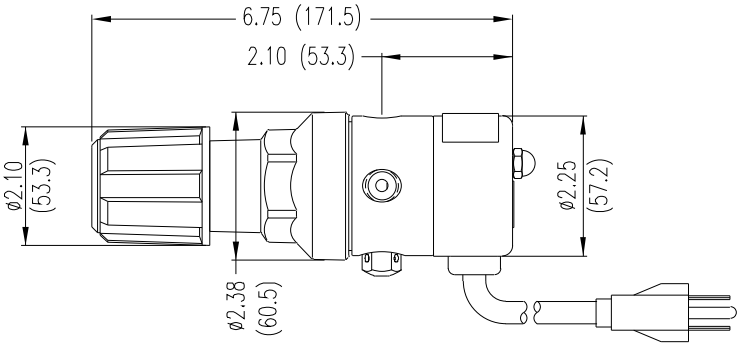
Cv
0.1

Weight (308 3031-320)
5.4 lbs. (2.45 kg)

CRN OH 5216.5C

Installation Information





Ordering Information

308	A		B	C	D	-CON	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 (220V)
				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	**220 volt models are CE marked*		**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 RH fitting			
				M: 6mm tube fitting			
				S: Diaphragm valve 6mm tube fitting			

Carbon Dioxide Flow
308 Series Heated Regulators at 100 PSIG & 175 PSIG Delivery Pressure