



# 300 Series Regulators

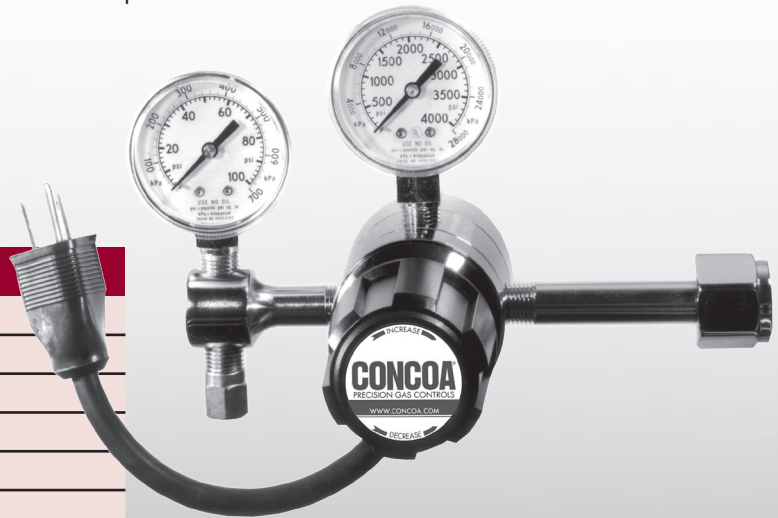
# 308 SERIES

The 308 Series regulators are specifically designed to prevent freeze-up problems associated with high flows of carbon dioxide and nitrous oxide. As 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.

- 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 3301-580 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
- Convolute 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
- Bonnet**  
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<sup>-8</sup> scc/sec
- Cv**  
0.1  
*See page 205 for flow curves*
- Weight (308 3301-330)**  
5.4 lbs. (2.45 kg)



