

# Heated Dual Stage Brass Barstock Regulator Model 3540 Series



## Description

The 3540 Series regulator is an electrically heated dual-stage regulator used for non-corrosive liquefied gases with up to 3000 psig inlet pressure. It is specifically designed to prevent freeze-up problems associated with high flows of carbon dioxide. As CO<sub>2</sub> passes through a regulator seat, dry ice can form if the flow is too high, causing the regulator to freeze up.

## Applications

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



## Design Features/Components

- Stainless steel diaphragms
- First stage brass piston sensor
- One piece encapsulated seat design includes a sintered filter to protect the seat from particulate contamination.
- 2-1/2" Chrome plated dual scale gauges (psi/bar)
- Maximum inlet 3000 psig
- Flow Capacity 0.15
- 200 Watt electric heater
- 110 VAC
- Continuous flow up to 100 SCFH CO<sub>2</sub>

## Materials of Construction

Gauges:	2 1/2" diameter chrome plated brass
Body:	Chrome-plated brass barstock
Bonnet:	Chrome-plated brass barstock
Second Stage Diaphragm:	Stainless steel
First Stage:	Brass piston
Nozzle:	Brass
Seats:	PTFE
Seals:	Buna-N
Filter:	Nickel-plated sintered bronze
Seat Return Spring:	Stainless steel
Adjusting Knob:	ABS plastic

## Ordering Information

Model Number	Delivery Pressure	Description
<b>3545-320</b>	125 psig	3545 w/valve 1/4" FNPT CGA320
<b>3545-326</b>	125 psig	3545 w/valve 1/4" FNPT CGA326
<b>3545-580</b>	125 psig	3545 w/valve 1/4" FNPT CGA580
<b>3545-NV-320</b>	125 psig	3545 no valve 1/4" FNPT CGA320
<b>3545-NV-326</b>	125 psig	3545 no valve 1/4" FNPT CGA326
<b>3545-NV-580</b>	125 psig	3545 no valve 1/4" FNPT CGA580

## Options

Model Number	Description
<b>QCA320-4-B</b>	Cylinder Quick Coupler Inlet – CGA 320
<b>QCA326-4-B</b>	Cylinder Quick Coupler Inlet – CGA 326
<b>QCA580-4-B</b>	Cylinder Quick Coupler Inlet – CGA 580
<b>CON-0070-BO</b>	1/4" Swagelok Tube Fitting
<b>CON-0083-BO</b>	1/2" Swagelok Tube Fitting
<b>MSP-0012-XX</b>	Inboard Helium Leak Rate Certification
<b>MSP-0013-XX</b>	Combination Inboard/Outboard Helium Leak Rate Certification

## Equipment Technology Center

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