

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 CO₂ 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 CO₂

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
3545-320	125 psig	3545 w/valve 1/4" FNPT CGA320
3545-326	125 psig	3545 w/valve 1/4" FNPT CGA326
3545-580	125 psig	3545 w/valve 1/4" FNPT CGA580
3545-NV-320	125 psig	3545 no valve 1/4" FNPT CGA320
3545-NV-326	125 psig	3545 no valve 1/4" FNPT CGA326
3545-NV-580	125 psig	3545 no valve 1/4" FNPT CGA580

Options

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



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