Model 3540 Series
Heated Dual Stage Brass Barstock Regulator

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

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<th>Part Number</th>
<th>Delivery Pressure</th>
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Options

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