Model 3590 Series
Low Dead Volume Stainless Steel Regulator

Description
High-purity stainless steel regulator with a minimal (7 cubic centimeters) internal volume to minimize contamination.

Applications
- Use with mixtures containing trace quantities of reactive and/or adsorptive gases or vapors
- Use with EPA protocols, NIST traceability experiments, and trace impurity analysis
- The 3590-TO is specially cleaned for use with TO-14 calibration standards

Design Features/Components
- High-purity stainless steel body
- High-purity stainless steel diaphragm
- Metal to metal seals
- Low dead volume minimizes contamination and adsorption
- 1/8” compression tube outlet connection
- 3590-TO model specially cleaned to remove all VOC compounds

Materials of Construction
Body: 316 stainless steel
Bonnet: Nickel plated brass
Diaphragm: 316 stainless steel
Seat: Kel-F
Seals: Silver

Specifications
- Maximum Inlet Pressure: 3000 psig (20,700 kPa)
- Maximum Flow Rate: 21 SCFH (10 SLPM) (At 2000 psig, N₂)
- Flow Capacity (Cv): 0.04
- Operating Temperature: -40°F to 200°F (-40°C to 93°C)
- Porting (Regulator Body): 1/4" NPT Female
- Porting Configuration: 1 High, 1 Low
- Shipping Weight: 4 lbs

Ordering Information

<table>
<thead>
<tr>
<th>Part Number*</th>
<th>Delivery Pressure Range</th>
<th>Delivery Pressure Gauge</th>
<th>Cylinder Pressure Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEQ3590ACGA</td>
<td>2-100 psig</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>SEQ3590TOCGA</td>
<td>2-100 psig</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

*Note: For ordering, replace letters “CGA” with the valve outlet CGA number for the gas cylinder you are using. Some CGA limitations may apply.

Options

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEQMS0012XX</td>
<td>Inboard Helium Leak Rate Certification</td>
</tr>
<tr>
<td>SEQMS0013XX</td>
<td>Combination Inboard/Outboard Helium Leak Rate Certification</td>
</tr>
</tbody>
</table>

www.mathesongas.com