Model 2210 Series
Miniature Dual-Stage Reliable Economy Regulator

Features
• Low flow applications
• Long inlet connection
• Precise, stable delivery pressure, even as the supply pressure decreases
• Low internal volume promotes quick gas flow stabilization and purging
• Models are available for non-corrosive service
• Machined bar stock body, interstage, bonnet and piston eliminates porosity found in castings
• Several outlet configurations are available
• Integral inlet filter
• Compact size (1¼ in. diameter x 5 in. long regulator body)
• Extremely light weight

Description
MATHESON 2210 Series adjustable, miniature, dual-stage (first stage piston, second stage diaphragm) pressure reducing regulators, are designed for precise, low-flow gas delivery. Their compact, dual-stage design provides precise, stable delivery pressures even as the supply pressure decreases. MATHESON 2210 Series regulators control inlet pressures up to 3000 PSIG (206.84 bar) and have a flow capacity Cv of 0.04. The MATHESON 2210 Series regulators are available in a wide variety of configurations, making them ideal for use in labs, industrial monitors, disposable / transportable gas cylinders, and for the regulation of a broad range of media.

Applications
• Applications requiring high-purity gases and a compact regulator due to space limitations.

Design Features/Components
• High-purity plated brass barstock body
• High-purity 316 stainless steel diaphragm
• 1-1/2” inlet and delivery pressure gauges
• Porous metal filter protects seat from contaminants
• 3000 psig cylinder pressure gauge

Materials of Construction
Body options: Nickel plated brass barstock
Bonnet: 6061-T6 aluminum / clear anodized
Piston (first stage): SAE 360 brass
Diaphragm (second stage): Elgiloy® (corrosion resistant alloy)
Piston seals: Viton®
Valve seats: Teflon®
Inlet filter: 40 micron sintered 316 stainless steel

Specifications
Maximum inlet pressure: 3000 psig (20,700 kPa)
Flow capacity (Cv): 0.04
Operating temperature: -15°F to 140°F (-26°C to 60°C)
Inlet porting (regulator body): 1/4” NPT female
Outlet porting (regulator body): 1/8” NPT female
Gauge ports: 1/8” NPT female
Porting configuration: 2 High, 2 Low
Weight: Approx. 1.5 lbs.
## Model 2210 Series (continued)

Miniature Dual-Stage Reliable Economy Regulator

### Ordering Information

<table>
<thead>
<tr>
<th>Part Number*</th>
<th>Outlet Connection</th>
<th>Delivery Pressure Range</th>
<th>Delivery Pressure Gauge</th>
<th>Inlet Pressure Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEQ2211CGA H</td>
<td>Hose Barb</td>
<td>0-10 psig</td>
<td>0-20 psig</td>
<td>0-3000 psig</td>
</tr>
<tr>
<td>SEQ2213CGA H</td>
<td>Hose Barb</td>
<td>0-50 psig</td>
<td>0-100 psig</td>
<td>0-3000 psig</td>
</tr>
<tr>
<td>SEQ2215CGA H</td>
<td>Hose Barb</td>
<td>0-100 psig</td>
<td>0-200 psig</td>
<td>0-3000 psig</td>
</tr>
<tr>
<td>SEQ2211CGA T</td>
<td>1/8&quot; Compression</td>
<td>0-10 psig</td>
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<tr>
<td>SEQ2211CGA F</td>
<td>1/8&quot; NPT female port</td>
<td>0-10 psig</td>
<td>0-20 psig</td>
<td>0-3000 psig</td>
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*Note: Where CGA is replaced with the actual CGA number. Available CGA inlet connections: C10, 170, 180, 320, 326, 346, 350, 510, 540, 580, 590, NI (no inlet)

### Options

- **Hose Barb** suitable for connecting to 1/8" ID soft tubing
- **1/8" Compression** suitable for connecting to 1/8" OD copper or stainless steel tubing
- **1/8" NPT Female Port** suitable for accepting 1/8" NPT male fittings