### 202 Series

A single stage, brass body regulator. The 202 Series regulators are intended for primary pressure control of non-corrosive, high purity or liquefied gases (up to grade 4.5) in applications where minor fluctuations in outlet pressure due to diminishing inlet supply pressure can be tolerated.

#### Description
- **Capsule** seat: Increased serviceability and life
- **316L stainless steel diaphragm**: No inboard diffusion
- **Forged body**: Durable, long-lasting construction
- **Field-adjustable pressure limit**: Safeguard downstream equipment
- **Large convoluted diaphragm**: Smooth pressure changes
- **Standard relief valve**: Diaphragm and gauge protection

#### Advanced Features
- Chrome-plated forged brass body
- Economical high purity design
- High flow capacity
- Supply multiple user locations
- Pressure ranges 0-15 to 0-200 PSIG
- Broad range of applications

#### Typical Applications
- Gas supply purging
- Gas system charging
- Fuel gas supply control
- Calibration gas control
- Atomic absorption acetylene

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### 200 Series Advantage

<table>
<thead>
<tr>
<th>Description</th>
<th>Advanced Features</th>
<th>Typical Applications</th>
</tr>
</thead>
</table>
| The 200 Series regulators are intended for primary pressure control of non-corrosive, high purity or liquefied gases (up to grade 4.5) in applications where minor fluctuations in outlet pressure due to diminishing inlet supply pressure can be tolerated. | - Chrome-plated forged brass body  
- Economical high purity design  
- High flow capacity  
- Supply multiple user locations  
- Pressure ranges 0-15 to 0-200 PSIG  
- Broad range of applications | - Gas supply purging  
- Gas system charging  
- Fuel gas supply control  
- Calibration gas control  
- Atomic absorption acetylene |

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### 200 Series Specifications

- **Body**: Chrome-plated forged brass
- **Bonnet**: Chrome-plated die cast zinc
- **Seat**: PTFE
- **Diaphragm**: 316L stainless steel
- **Filter**: 10 micron sintered bronze
- **Internal Seals**: PTFE

#### Materials

- **Body**: Chrome-plated forged brass
- **Bonnet**: Chrome-plated die cast zinc
- **Seat**: PTFE
- **Diaphragm**: 316L stainless steel
- **Filter**: 10 micron sintered bronze
- **Internal Seals**: PTFE

#### Specifications

- **Maximum Inlet Pressure**
  - 3000 PSIG (210 BAR)
  - 4500 PSIG (310 BAR) optional
- **Temperature Range**
  - -40°F to 140°F (-40°C to 60°C)
- **Gauges**
  - 2½" diameter chrome-plated brass
- **Ports**
  - ½" FPT
- **Helium Leak Integrity**
  - 1 x 10⁻⁸ scc/sec
- **Cv**
  - 0.2
- **Weight**
  - (202-3331-580)
  - 3.8 lbs. (1.74 kg)
Flow Performance

Ordering Information and Configuration Options

<table>
<thead>
<tr>
<th>202 Series</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>-Inlet</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outlet Pressure</td>
<td>Outlet Gauge</td>
<td>Inlet Gauge</td>
<td>Outlet Assemblies</td>
<td>Assembly/ Gauges</td>
<td>Inlet Connections</td>
<td>Installed Options</td>
</tr>
<tr>
<td>1: 0-15*</td>
<td>0-30 PSIG</td>
<td>None</td>
<td>0: ½” FPT Port</td>
<td>0: Bare Body</td>
<td>000: ¼” FPT A: Protocol Alarm Station (110V)</td>
<td></td>
</tr>
<tr>
<td>2: 0-40</td>
<td>0-60 PSIG</td>
<td>0-4000 PSI</td>
<td>1: ½” MPT TF2: ¼” Tube B: Protocol Alarm Station (220V)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3: 0-120</td>
<td>0-200 PSIG</td>
<td>0-1000 PSI</td>
<td>2: ½” Tube Fitting TF4: ¼” Tube C: Protocol Switchover Station</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4: 0-200</td>
<td>0-400 PSIG</td>
<td>0-400 PSI</td>
<td>3: Diaphragm Valve TF6: ¼” Tube G: Protocol Switchover Station with Alarm (110V)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5: 0-15*</td>
<td>0-30 PSIG</td>
<td>0-600 PSIG</td>
<td>4: Diaphragm Valve M06: 6mm Tube H: Protocol Switchover Station with Alarm (220V)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>with redline for acetylene use</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Not available with 4500 PSIG maximum inlet pressure
## 212 Series

two stage, brass body regulator

![Image of 212 Series regulator]

<table>
<thead>
<tr>
<th>Description</th>
<th>Advanced Features</th>
<th>Typical Applications</th>
</tr>
</thead>
</table>
| The 212 Series regulators are intended for primary pressure control of non-corrosive, high purity or liquefied gases (up to grade 4.5) for applications requiring constant pressure control and delivery regardless of supply pressure variations. | • Chrome-plated forged brass body  
Economical high purity design  
• High flow capacity  
Supply multiple user locations  
• Pressure ranges 0-15 to 0-200 PSIG  
Broad range of applications  
• 3000 PSIG inlet pressure rating  
Safe use with high pressure cylinders | • Gas supply purging  
• Gas system charging  
• Fuel gas supply control  
• Calibration gas control |

### 200 Series Advantage

<table>
<thead>
<tr>
<th>Materials</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Body</strong></td>
<td>Maximum Inlet Pressure</td>
</tr>
<tr>
<td>Chrome-plated forged brass</td>
<td>3000 PSIG (210 BAR)</td>
</tr>
<tr>
<td><strong>Bonnet</strong></td>
<td>4500 PSIG (310 BAR) optional</td>
</tr>
<tr>
<td>Chrome-plated die cast zinc</td>
<td><strong>Temperature Range</strong></td>
</tr>
<tr>
<td><strong>Seat</strong></td>
<td>-40°F to 140°F (-40°C to 60°C)</td>
</tr>
<tr>
<td>PTFE</td>
<td><strong>Gauges</strong></td>
</tr>
<tr>
<td><strong>Filter</strong></td>
<td>2½” diameter chrome-plated brass</td>
</tr>
<tr>
<td>10 micron sintered bronze</td>
<td><strong>Ports</strong></td>
</tr>
<tr>
<td><strong>Diaphragm</strong></td>
<td>¼” FPT</td>
</tr>
<tr>
<td>316L stainless steel</td>
<td><strong>Helium Leak Integrity</strong></td>
</tr>
<tr>
<td><strong>Internal Seals</strong></td>
<td>1 x 10⁻⁸ scc/sec</td>
</tr>
<tr>
<td>PTFE</td>
<td><strong>Cv</strong></td>
</tr>
<tr>
<td></td>
<td>0.28</td>
</tr>
<tr>
<td></td>
<td><strong>Weight</strong> (212-3331-580)</td>
</tr>
<tr>
<td></td>
<td>5.1 lbs. (2.3 kg)</td>
</tr>
</tbody>
</table>
### Equipment

#### Flow Performance

![Flow Performance Graph](image)

#### Ordering Information and Configuration Options

<table>
<thead>
<tr>
<th>Series 212</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>-Inlet</th>
<th>Options</th>
</tr>
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<tbody>
<tr>
<td><strong>Outlet Pressure</strong></td>
<td><strong>Outlet Gauge</strong></td>
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<td><strong>Outlet Assemblies</strong></td>
<td><strong>Assembly/Gauges</strong></td>
<td><strong>Inlet Connections</strong></td>
<td><strong>Installed Options</strong></td>
</tr>
<tr>
<td>1: 0-15</td>
<td>0-30 PSIG</td>
<td>None</td>
<td>0: ½” FPT Port</td>
<td>0: Bare Body</td>
<td>000: ⅜” FPT Port</td>
<td>A: Protocol Alarm Station (110V)</td>
</tr>
<tr>
<td>2: 0-40</td>
<td>0-60 PSIG</td>
<td>0-4000 PSIG</td>
<td>1: ¾” MPT</td>
<td>1: Standard Assembly (PSIG/kPa Gauges)</td>
<td>TF2: ¾” Tube Fitting</td>
<td>B: Protocol Alarm Station (220V)</td>
</tr>
<tr>
<td>3: 0-120</td>
<td>0-200 PSIG</td>
<td>0-1000 PSIG</td>
<td>2: ¾” Tube Fitting</td>
<td>2: Standard Assembly (BAR/PSIG Gauges)</td>
<td>TF4: ¾” Tube Fitting</td>
<td>C: Protocol Switchover Station</td>
</tr>
<tr>
<td>4: 0-200</td>
<td>0-400 PSIG</td>
<td>0-400 PSIG*</td>
<td>3: Diaphragm Valve ⅜” Tube Fitting</td>
<td></td>
<td>TF6: 6mm Tube M06: 6mm Tube Fitting</td>
<td>G: Protocol Switchover Station with Alarm (110V)</td>
</tr>
<tr>
<td>5: 0-15</td>
<td>0-30 PSIG* with redline for acetylene use</td>
<td>0-6000 PSIG*</td>
<td>4: Diaphragm Valve ⅜” MPT</td>
<td></td>
<td>CGA DIN 477 BS 341 and others available</td>
<td>H: Protocol Switchover Station with Alarm (220V)</td>
</tr>
</tbody>
</table>

*Maximum inlet pressure 4500 PSIG (300 BAR) with PCTFE Seat Capsule

**Installed Options**
- A: Protocol Alarm Station (110V)
- B: Protocol Alarm Station (220V)
- C: Protocol Switchover Station
- G: Protocol Switchover Station with Alarm (110V)
- H: Protocol Switchover Station with Alarm (220V)
- M: Protocol Station
- T: Tee Purge*

*Not available with 4500 PSIG max inlet pressure