400 Series Regulators

- Single Stage
- Ultra-High Flow
- Brass Barstock Body
- Six Port Configuration
- 316L Stainless Steel Diaphragm

The 485 Series regulator applications are wide and varied including high flow purging, semiconductor manufacturing, manifold and line regulation.

**Typical Applications**
- Ultra-high flow
- Bulk gas distribution systems
- Gas and liquid chromatography
- High purity carrier gases
- Zero, span, and calibration gases
- High purity chamber pressurization
- Liquefied hydrocarbon gas control
- Control of cryogenic gases

485 3301 shown

### Features

- PTFE Diaphragm Seal
  - No possibility of gas contamination
- ISOFLOW Technology
  - Internal equalization provides constant delivery pressure at high flows
- Brass Barstock Body
  - Corrosion resistance for smooth surface finish
- Rear Panel-Mountable
  - Versatile system configuration
- Pressure Ranges 0-15 To 0-250 PSIG
  - Broad range of applications
- Pipe Away Relief Valve
  - Safely vents exhaust gases

### Materials

- **Body**
  - Brass barstock
- **Bonnet**
  - Chrome-plated die cast zinc
- **Seat**
  - PCTFE
- **Filter**
  - 40 micron 316L stainless steel
- **Diaphragm**
  - 316L stainless steel
- **Internal Seals**
  - PTFE

### Specifications

- **Maximum Inlet Pressure**
  - 3000 PSIG (210 BAR)
- **Temperature Range**
  - -40°F to 140°F (-40°C to 60°C)
- **Gauges**
  - 2" diameter brass
- **Ports**
  - 1/2" FPT (inlet/outlet)
  - 1/4" FPT (gauge/relief valve)
- **Helium Leak Integrity**
  - 1 x 10^-8 scc/sec
- **Cv**
  - 1.0
- **Weight (485 3311-580)**
  - 5.85 lbs. (2.65 kg)
### Installation Information

[Diagram showing the 400 Series Regulators]

### Ordering Information

<table>
<thead>
<tr>
<th>Series 485</th>
<th>485</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>-CON</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: 0-15</td>
<td>0-15</td>
<td>30&quot;-0-30 PSIG</td>
<td>0: None</td>
<td>0: 1/2&quot; FPT port</td>
<td>0: Bare body</td>
<td>000: 1/2&quot; FPT</td>
<td>A: Protocol alarm station (110V)</td>
</tr>
<tr>
<td>2: 0-40</td>
<td>0-40</td>
<td>30&quot;-0-60 PSIG</td>
<td>3: 0-4000 PSIG</td>
<td>1: 1/2&quot; tube fitting</td>
<td>1: Standard assembly (PSIG/kPa gauges)</td>
<td>TF8: 1/2&quot; tube</td>
<td>B: Protocol alarm station (220V)</td>
</tr>
<tr>
<td>3: 0-120</td>
<td>0-120</td>
<td>30&quot;-0-200 PSIG</td>
<td>5: 0-1000 PSIG</td>
<td>5: Needle valve 1/4&quot; MPT</td>
<td>2: Standard assembly (BAR/PSIG gauges)</td>
<td>M12: 12mm tube</td>
<td>C: Protocol switchover station</td>
</tr>
<tr>
<td>4: 0-200</td>
<td>0-200</td>
<td>0-400 PSIG</td>
<td>6: 0-300 PSIG</td>
<td>P: 12mm tube fitting</td>
<td>6: Mirror image (PSIG/kPa gauges)</td>
<td>CGA DIN 477 BS 341 and others available</td>
<td>G: Protocol switchover station with alarm (110V)</td>
</tr>
<tr>
<td>5: 0-250</td>
<td>0-250</td>
<td>0-400 PSIG</td>
<td>7: 0-200 PSIG</td>
<td>7: Mirror image (BAR/PSIG gauges)</td>
<td>7: Mirror image (BAR/PSIG gauges)</td>
<td>H: Protocol switchover station with alarm (220V)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0-600 PSIG</td>
<td></td>
<td></td>
<td></td>
<td>M: Protocol station</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Q: Protocol purge station</td>
<td></td>
</tr>
</tbody>
</table>