The 484 Series regulator applications are wide and varied including high flow purging, semiconductor CDA and bulk gas supply, modified atmosphere packaging, pharmaceutical processing, manifold and line regulation.

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

### Typical Applications

<table>
<thead>
<tr>
<th>Bulk gas distribution systems</th>
<th>Gas and liquid chromatography</th>
</tr>
</thead>
<tbody>
<tr>
<td>High purity carrier gases</td>
<td></td>
</tr>
<tr>
<td>Zero, span, and calibration gases</td>
<td></td>
</tr>
<tr>
<td>High purity chamber pressurization</td>
<td></td>
</tr>
<tr>
<td>Liquefied hydrocarbon gas control</td>
<td></td>
</tr>
<tr>
<td>Control of cryogenic gases</td>
<td></td>
</tr>
<tr>
<td>Corrosive gas service</td>
<td></td>
</tr>
</tbody>
</table>

### Features

- **PTFE Diaphragm Seal**
  - No possibility of gas contamination
- **ISOFLOW Technology**
  - Internal equalization provides constant delivery pressure at high flows
- **316L Stainless Steel Barstock Body**
  - Corrosion resistance for smooth surface finish
- **Rear Panel-Mountable**
  - Versatile system configuration
- **Pressure Ranges 0-15 to 0-250 PSIG (0-1 to 0-17 BAR)**
  - Broad range of applications
- **3000 PSIG (210 BAR) Inlet Pressure Rating**
  - Safe use with high pressure cylinders
- **Pipe Away Relief Valve**
  - Safely vents exhaust gases

### Materials

- **Body**
  - 316L stainless steel barstock
- **Bonnet**
  - Chrome-plated die-cast zinc
- **Seat**
  - PTFE
- **Filter**
  - 40 micron 316L stainless steel mesh
- **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)
- **Gauge**
  - 2" (53mm) diameter stainless steel
- **Ports**
  - 1/2" FPT (inlet/outlet)
  - 1/4" FPT (gauge/relief valve)
- **Helium Leak Integrity**
  - $1 \times 10^{-8}$ scc/sec
- **Cv**
  - 1.0
  - See page 204 for flow curves
- **Weight (484 3001-000)**
  - 4.52 lbs. (2.05 kg)
## 400 Series Regulators

### Installation Dimensions

![Diagram](image)

### Ordering Information

<table>
<thead>
<tr>
<th>Series 484</th>
<th>Outlet Pressure</th>
<th>Outlet Gauge</th>
<th>Inlet Gauge</th>
<th>Outlet Assemblies</th>
<th>Assembly/Gauges</th>
<th>Inlet Connections</th>
<th>Installed Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:</td>
<td>0-15 PSIG (0-1 BAR)</td>
<td>30*-0.30 PSIG/-1.02 BAR</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></td>
</tr>
<tr>
<td>2:</td>
<td>0-40 PSIG (0-3 BAR)</td>
<td>30*-0.60 PSIG/-1.04 BAR</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></td>
<td></td>
</tr>
<tr>
<td>3:</td>
<td>0-120 PSIG (0-8 BAR)</td>
<td>30*-0.200 PSIG/-1.014 BAR</td>
<td>5: Needle valve 1/4&quot; MPT</td>
<td>2: Standard assembly (BAR/PSIG gauges)</td>
<td>M12: 12mm tube</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:</td>
<td>0-200 PSIG (0-14 BAR)</td>
<td>0-400 PSIG/0-27 BAR</td>
<td>P: 12mm tube fitting</td>
<td>6: Mirror image assembly (PSIG/kPa gauges)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:</td>
<td>0-250 PSIG (0-17 BAR)</td>
<td>0-400 PSIG/0-27 BAR</td>
<td>7: Mirror image assembly (BAR/PSIG gauges)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Related Options

<table>
<thead>
<tr>
<th>Options</th>
<th>Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel mount kit</td>
<td>835 0204</td>
<td>To mount the regulator from the rear</td>
</tr>
</tbody>
</table>
Flow Curves for 483, 484, 485, 486 Series