The 485 Series regulator applications are wide and varied including high flow purging, non-corrosive process gas control, manifold and line regulation.

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

### Typical Applications

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

### Features

- **PTFE Diaphragm Seal**: No possibility of gas contamination
- **ISOFLOW Technology**: Internal equalization provides constant delivery pressure at high flows
- **Brass Barstock Body**: 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
- **Pipe Away Relief Valve**: Safely vents exhaust gases

### Materials

- **Body**: Brass 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)
- **Gauges**: 2" (53mm) 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
  - See page 204 for flow curves
- **Weight**: 5.85 lbs. (2.65 kg)

CRN 0C17947.5
400 Series Regulators

Installation Information

<table>
<thead>
<tr>
<th>Series 485</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: 0-15 PSIG (0-1 BAR)</td>
<td>30&quot;-0-30 PSIG/ -1-0-2 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>B: Protocol alarm station with pressure switch gauges</td>
<td></td>
</tr>
<tr>
<td>2: 0-40 PSIG (0-3 BAR)</td>
<td>30&quot;-0-60 PSIG/ -1-0-4 BAR</td>
<td>3: 0-4000 PSIG/ 0-275 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>C: Protocol switchover station</td>
<td></td>
</tr>
<tr>
<td>4: 0-200 PSIG (0-14 BAR)</td>
<td>0-400 PSIG/ 0-27 BAR</td>
<td>6: 0-400 PSIG/ 0-28 BAR</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>H: Protocol switchover alarm station with pressure switch gauges</td>
<td></td>
</tr>
<tr>
<td>5: 0-250 PSIG (0-17 BAR)</td>
<td>0-400 PSIG/ 0-27 BAR</td>
<td>7: 0-200 PSIG/ 0-17 BAR</td>
<td>7: Mirror image (BAR/PSIG gauges)</td>
<td>9: 0-600 PSIG/ 0-42 BAR</td>
<td></td>
<td>J: Protocol alarm station with standard transducer for non hazardous environments</td>
<td></td>
</tr>
</tbody>
</table>

Options

B: Protocol alarm station with pressure switch gauges
C: Protocol switchover station
E: Protocol alarm station with intrinsically safe transducer for hazardous environments
H: Protocol switchover alarm station with pressure switch gauges
J: Protocol alarm station with standard transducer for non hazardous environments
K: Protocol switchover alarm station with standard transducer for non hazardous environments
M: Protocol station
Q: Protocol purge station
X: Protocol switchover alarm station with intrinsically safe transducer for hazardous environments

*Not available with 4500 PSIG (310 BAR) max inlet pressure
Flow Curves for 483, 484, 485, 486 Series