The 327 Series regulators are intended for secondary pressure control of non-corrosive, high purity or liquefied gases or as a point-of-use pressure control in high purity gas distribution systems.

- Single Stage
- 316L Stainless Steel Barstock Body
- Four Port Configuration
- Rear Inlet

### Typical Applications
- 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 gas

### Features
- **CAPSULE® Seat**
  - Increased serviceability and life
- **316L Stainless Steel Diaphragm**
  - No inboard diffusion
- **Low Wetted Surface Area**
  - Minimal purge requirements
- **Field-Adjustable Pressure Limit**
  - Safeguard downstream equipment
- **Convoluted Diaphragm**
  - Smooth pressure changes
- **Compact Design**
  - Easily transported and integrated into systems
- **Stainless Steel Barstock Body**
  - Increased corrosion resistance
- **Rear Panel-Mountable**
  - Easy installation
- **Pressure Ranges 0-15 to 0-200 PSIG (0-1 to 0-14 BAR)**
  - Broad range of applications
- **3000 PSIG (210 BAR) Inlet Pressure Rating**
  - Safe use with high pressure cylinders

### Materials
- **Body**
  - 316L stainless steel barstock
- **Bonnet**
  - Chrome-plated die-cast zinc
- **Seat**
  - PTFE
- **Filter**
  - Patented 10 micron 316 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
  - Chrome-plated brass case
  - Stainless steel internals
- **Ports**
  - 1/4" FPT
- **Helium Leak Integrity**
  - $1 \times 10^{-8}$ scc/sec
- **Cv**
  - 0.1
  - See page 202 for flow curves
- **Weight (327 1031-M1L)**
  - 2.9 lbs. (1.29 kg)
## 300 Series Regulators

### Installation Dimensions

### Ordering Information

<table>
<thead>
<tr>
<th>Series 327</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>0-30 PSIG/0-2 BAR</td>
<td>0: None</td>
<td>0: 1/4&quot; FPT port</td>
<td>0: Bare body</td>
<td>000: 1/4&quot; FPT</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>2: 0-30 PSIG (0-2 BAR)</td>
<td>0-60 PSIG/0-4 BAR</td>
<td>1: 1/4&quot; MPT</td>
<td>1: Standard assembly (PSIG/MPa gauges)</td>
<td>TF2: 1/8&quot; tube</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3: 0-50 PSIG (0-3.5 BAR)</td>
<td>0-100 PSIG/0-7 BAR</td>
<td>2: 1/4&quot; tube fitting</td>
<td>2: Standard assembly (BAR/PSIG gauges)</td>
<td>TF4: 1/4&quot; tube</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4: 0-150 PSIG (0-10 BAR)</td>
<td>0-200 PSIG/0-14 BAR</td>
<td>3: Diaphragm valve 1/4&quot; tube fitting</td>
<td></td>
<td>TF6: 3/8&quot; tube</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5: 0-100 PSIG (0-7 BAR)</td>
<td>0-200 PSIG/0-14 BAR</td>
<td>4: Diaphragm valve 1/4&quot; MPT</td>
<td></td>
<td>M06: 6mm tube</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6: 0-200 PSIG (0-14 BAR)</td>
<td>0-400 PSIG/0-27 BAR</td>
<td>5: Needle valve 1/4&quot; MPT</td>
<td></td>
<td>CGA DIN 477 BS 341 and others available</td>
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<td></td>
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### Related Options

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>835 0204</td>
<td>Rear panel mount kit</td>
</tr>
<tr>
<td>476 0002</td>
<td>Helium leak certification</td>
</tr>
</tbody>
</table>
Regulator Flow Curves

Flow Curves for 302, 304, 305, 307, 322, 324, 327, 401, 402, 408, 420, 422, 426, 427, 428, 429 Series

Flow Curves for 312, 315, 332, 411, 412, 414, 415, 430, 432 Series