The 493 Series regulator applications are wide and varied including high flow purging, pressure testing, manifold and line regulation.

- Single Stage
- Piston-Sensed
- Ultra-High Pressure
- 316L Stainless Steel Barstock Body

### Typical Applications
- Airplane strut charging
- Research and development laboratories
- Chemical manufacturing
- Aerospace hydraulic systems
- Pharmaceutical manufacturing
- Gauge calibration

### Features
- Large Piston Sensor
  - Safely control pressures to 6000 PSIG (415 BAR)
- CAPSULE® Seat
  - Increased serviceability and life
- Low Wetted Surface Area
  - Minimal purge requirements
- Field-Adjustable Pressure Limit
  - Safeguard downstream equipment
- 316 Stainless Steel Barstock Body
  - Smooth surface finish
- Front and Rear Panel-Mountable
  - Versatile system configuration
- Pressure Ranges 0-750 to 0-6000 PSIG (0-50 to 0-415 BAR)
  - Broad range of applications
- Six Port Design
  - Flexible installation alternatives

### Materials
- Body
  - 316L stainless steel barstock
- Bonnet
  - 304 stainless steel
- Seat
  - PCTFE 3000 and 4500 PSIG (210 and 310 BAR) inlet
  - Arlon® (PEEK) 6000 PSIG (415 BAR) inlet
- Piston
  - 316L stainless steel
- Filter
  - Patented 10 micron 316 mesh
- Internal Seals
  - Viton®

### Specifications
- Maximum Inlet Pressure
  - 6000 PSIG (415 BAR)
- Temperature Range
  - -40°F to 140°F (-40°C to 60°C)
- Gauges
  - 2 1/2" (53mm) diameter stainless steel
- Ports
  - 1/4" FPT
- Cv
  - 0.1
  - See page 204 for flow curves
- Weight (493 5952-677)
  - 4.64 lbs. (2.10 kg)

CRN 0C17947.5
400 Series Regulators

Installation Dimensions

Ordering Information

<table>
<thead>
<tr>
<th>493</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>-CON</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series 493</td>
<td>Outlet Pressure</td>
<td>Outlet Gauge</td>
<td>Inlet Maximum</td>
<td>Inlet Gauge</td>
<td>Outlet Assemblies</td>
<td>Assembly Gauges</td>
</tr>
<tr>
<td>0: 0-750 PSIG (0-50 BAR)</td>
<td>0-1000 PSIG/0-70 BAR</td>
<td>0: 6000 PSIG (0-415 BAR)*</td>
<td>None</td>
<td>0: 1/4&quot; FPT</td>
<td>0: Bare body†</td>
<td>CGA DIN 477 BS 341 and others available</td>
</tr>
<tr>
<td>1: 0-1500 PSIG (0-100 BAR)</td>
<td>0-4000 PSIG/0-275 BAR</td>
<td>3: 3000 PSIG (210 BAR)</td>
<td>0-4000 PSIG/0-275 BAR</td>
<td>1: 1/4&quot; MPT</td>
<td>1: Standard assembly (PSIG/kPa gauges)</td>
<td></td>
</tr>
<tr>
<td>2: 0-2500 PSIG (0-170 BAR)</td>
<td>0-4000 PSIG/0-275 BAR</td>
<td>8: 5500 PSIG (379 BAR)</td>
<td>0-6000 PSIG/0-415 BAR</td>
<td>2: 1/4&quot; tube fitting</td>
<td>2: Standard assembly (BAR/PSIG gauges)</td>
<td></td>
</tr>
<tr>
<td>3: 0-5000 PSIG (0-340 BAR)</td>
<td>0-6000 PSIG/0-415 BAR</td>
<td>9: 6000 PSIG (415 BAR)</td>
<td>0-10,000 PSIG/0-700 BAR</td>
<td>5: Needle valve 1/4&quot; MPT</td>
<td>6: Mirror image (BAR/kPa gauges)</td>
<td></td>
</tr>
<tr>
<td>4: 0-4500 PSIG (0-310 BAR)*</td>
<td>0-6000 PSIG/0-415 BAR</td>
<td>* Only valid if D=1 or 2 (outlet gauge specified)</td>
<td>0-10,000 PSIG/0-700 BAR</td>
<td>6: 1/8&quot; tube fitting</td>
<td>7: Mirror image (BAR/PSIG gauges)</td>
<td></td>
</tr>
<tr>
<td>5: 0-6000 PSIG (0-415 BAR)*</td>
<td>0-10,000 PSIG/0-700 BAR</td>
<td>* Only valid if D=1 or 2 (outlet gauge specified)</td>
<td>0-10,000 PSIG/0-700 BAR</td>
<td>7: 3/8&quot; tube fitting</td>
<td>*B must be 3,8 or 9 (maximum pressure specified)</td>
<td></td>
</tr>
<tr>
<td>6: 0-3500 PSIG (241 BAR)*</td>
<td>0-6000 PSIG/415 BAR</td>
<td>0-6000 PSIG/415 BAR</td>
<td>0-10,000 PSIG/0-700 BAR</td>
<td>7: 3/8&quot; tube fitting</td>
<td>*B must be 3,8 or 9 (maximum pressure specified)</td>
<td></td>
</tr>
</tbody>
</table>

*Not available with 3000 PSIG (210 BAR) maximum inlet pressure
†Only available with 6000 PSIG (415 BAR) maximum inlet pressure

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>830 6483</td>
<td>To mount the regulator using bonnet threads. Material: Chrome-plated brass</td>
</tr>
</tbody>
</table>
Regulator Flow Curves

Flow Curves for 403, 405, 425, 435, 445 Series

Flow Curves for 492, 493 Series