200 SERIES
DUAL STAGE REGULATORS

Features

The 200 Series regulators are exclusively designed to maintain constant flow rates in order to provide increased calibration accuracy, even when cylinder pressure drops. A compact, lightweight, high purity, dual stage, pressure reducing regulator suitable for specialty, flammable, and industrial gasses.

Our 316L stainless steel diaphragm ensures gas purity and integrity.

Applications

- Laboratories
- Medical
- Pharmaceutical
- Specialty gases
- Process analysers
- Petrochemical
- Metal fabrication
- Food and beverage
**Specifications**

**Operating Parameters**
Pressure rating per criteria of CGA E-4; ASME B31; ASME BPVC

**Maximum Inlet Pressure**
6000 psig / 415 Bar

**Maximum Outlet Pressure**
2, 10, 25, 50, 100, 250, 500, 750, 1000 psig
70, 175, 345, 690, 1725, 3450, 5170, 6895 kPa
1, 2, 3.5, 7, 17.5, 35, 52, 70 Bar

**Design Proof Pressure**
150% of rated pressure

**Leakage**
Internal: Bubble tight
External: Designed to meet < 2 x 10^-8 atm/cc He

**Operating Temperature**
-40°F to 185°F / -40°C to 85°C

**Flow Capacity**
0.03, 0.07, 0.24, 0.3, 0.35, 0.58

**Wetted Materials**

**Body**
Electrolysis Nickel Plated Brass, 316L Stainless Steel or Monel

**Seat**
Tefzel, Peek, PCTFE [standard], Vespel

**Filter**
10 micron 316L Stainless Steel

**Seal**
Teflon, Viton

**Diaphragm**
316L Stainless Steel with Tefzel Sealing Ring

**Spring Housing**
316L Stainless Steel, Electrolysis Nickel Plated Aluminium, Black Anodized Aluminium

**Remaining Parts**
Inconel

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**Performance Curves**

![Graphs showing performance curves for different inlet pressures.](image)
Ordering Information

With a wide variety of body materials, porting options and inlet connections, regulators can be custom built to meet your specific requirements.

### Table: Porting Configuration

<table>
<thead>
<tr>
<th>Series</th>
<th>Body Material</th>
<th>Outlet Range</th>
<th>Porting</th>
<th>Connection</th>
<th>Gauges</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>1-Electroless Nickel Plate Brass 2-316L SS 3-Monel 4-Brass</td>
<td>0 - 2 PSI 1 - 10 PSI 2 - 25 PSI 3 - 50 PSI 4 - 100 PSI</td>
<td>Add L or R to define inlet side</td>
<td>A - 1/8 &quot; B - 1/4 &quot; C - 3/8 &quot;</td>
<td>1 - with gauges 2 - no gauges</td>
</tr>
</tbody>
</table>

### Additional Information

- Longer delivery time for L5, L6 & L8.

### Pressure and Temperature Rating for Seats

<table>
<thead>
<tr>
<th>Code</th>
<th>Material</th>
<th>Pressure in PSI Minimum</th>
<th>Pressure in PSI Minimum</th>
<th>Temperature Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>PCTFE</td>
<td>10</td>
<td>3600</td>
<td>150 °F</td>
</tr>
<tr>
<td>Z</td>
<td>TEFZEL</td>
<td>10</td>
<td>2400</td>
<td>150 °F</td>
</tr>
<tr>
<td>K</td>
<td>PEEK</td>
<td>50</td>
<td>6000</td>
<td>150 °F</td>
</tr>
<tr>
<td>K</td>
<td>PEEK</td>
<td>50</td>
<td>6000</td>
<td>500 °F</td>
</tr>
<tr>
<td>P</td>
<td>VESPEL</td>
<td>25</td>
<td>6000</td>
<td>150 °F</td>
</tr>
<tr>
<td>P</td>
<td>VESPEL</td>
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<td>3600</td>
<td>500 °F</td>
</tr>
</tbody>
</table>

### Special Options

- 04 Relief Valve (<150 psi)
- 15 Outlet Valve - packed
- 16 Outlet Valve - packless
- 71 Fine Adjust
- 73 Helium Leak Test
- 75 Relief Valve (150 psi +)