The 426 Series regulators are intended for secondary pressure control of ultra-high purity and corrosive gases or as point of use pressure control in ultra-high purity gas distribution systems.

- Low Dead Volume
- 316L Stainless Steel Barstock Body
- Two Port Configuration
- 316L Stainless Steel Diaphragm

**Typical Applications**
- Bulk gas distribution systems
- Gas and liquid chromatography
- Ultra-high purity carrier gases
- Zero, span, and calibration gases
- High purity chamber pressurization
- Liquefied hydrocarbon gas control
- Control of cryogenic gases
- Corrosive gases

**Features**
- Metal-to-Metal Diaphragm Seal
  - No possibility of gas contamination
- CAPSULE® Seat
  - Increased serviceability and life
- 316L Stainless Steel Barstock Body
  - Increased corrosion resistance
- Front and Rear Panel-Mountable
  - Versatile system configuration
- Pressure Ranges 0-15 to 0-500 PSIG (0-1 to 0-34 BAR)
  - Broad range of applications
- 4500 PSIG (310 BAR) Inlet Pressure Rating
  - Safe use with high pressure cylinders

**Materials**
- Body: 316L stainless steel barstock
- Bonnet: Chrome-plated brass barstock
- Seat: PCTFE
- Filter: Patented 10 micron 316 mesh
- Diaphragm: 316L stainless steel
- Internal Seals: PTFE

**Specifications**
- Maximum Inlet Pressure
  - 4500 PSIG (310 BAR)
- Temperature Range
  - -40°F to 140°F (-40°C to 60°C)
- Ports
  - 1/4" FPT
- Helium Leak Integrity
  - 1 x 10⁻⁹ scc/sec
- Cv
  - 0.1
  - See page 202 for flow curves
- Weight (426 3801-000)
  - 2.2 lbs (1.01 kg)

CRN 0H15806.5R1

CONCOA Research & Specialty Gas

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### Installation Dimensions

![Diagram of 400 Series Regulators](image)

### Ordering Information

<table>
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<tr>
<th>Series 426</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<th>Options</th>
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<td>Outlet Pressure</td>
<td>Inlet Pressure</td>
<td>Outlet Assemblies</td>
<td>Assembly</td>
<td>Inlet Connections</td>
<td>Installed Options</td>
<td></td>
</tr>
<tr>
<td>2: 0-50 PSIG (0-3.5 BAR)</td>
<td>8: 4500 PSIG (310 BAR)</td>
<td>0: 1/4&quot; FPT port</td>
<td>1: Cleanroom assembly</td>
<td>000: 1/4&quot; FPT</td>
<td>B: Protocol alarm station with pressure switch gauges</td>
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<tr>
<td>3: 0-100 PSIG (0-7 BAR)</td>
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<td>1: 1/4&quot; MPT</td>
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<tr>
<td>4: 0-250 PSIG (0-17 BAR)</td>
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<td>2: 1/4&quot; tube fitting</td>
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<tr>
<td>5: 0-500 PSIG (0-34 BAR)</td>
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<td>3: Diaphragm valve 1/4&quot; tube fitting</td>
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<tr>
<td>7: 0-150 PSIG (0-10 BAR)</td>
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<td>4: Diaphragm valve 1/4&quot; MPT</td>
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<td></td>
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<tr>
<td>5: Needle valve 1/4&quot; MPT</td>
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<td>6: 1/8&quot; tube fitting</td>
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<tr>
<td>7: 3/8&quot; tube fitting</td>
<td></td>
<td>8: Diaphragm valve 1/8&quot; tube fitting</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>9: Diaphragm valve 1/4&quot; FPT</td>
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<td>M: 6mm tube fitting</td>
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<tr>
<td>S: Diaphragm valve 6mm tube fitting</td>
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### Related Options

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<tr>
<th>Order No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>550 0002</td>
<td>Panel mount kit</td>
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<tr>
<td>550 0001</td>
<td>Captured vent kit</td>
</tr>
<tr>
<td>476 0002</td>
<td>Helium Leak certification</td>
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</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