The 430 Series SilcoNert® 2000 treated regulators are intended for primary pressure control of reactive or corrosive calibration mixtures or pure gases in applications where an extremely inert wetted finish is required along with stable delivery pressure regardless of inlet pressure. The proprietary non-reactive amorphous Silicon finish is desired over standard 316L stainless steel and ideally suited for Hydrogen Sulfide, reduced Sulfur, Mercury and PPM to PPB calibration mixtures.

- Dual Stage
- SilcoNert 2000 Barstock Body, Diaphragms, and Internals
- Six Port Configuration
- Inert Surface Finish and Corrosion Resistance

### Typical Applications
- Reactive calibration standard
- Emissions monitoring
- Hydrogen sulfide PPM to PPB standards
- Mercury standards
- Sulfur mixtures
- Corrosive service

### Features
- Metal-to-Metal Diaphragm Seals
  - No possibility of gas contamination
- CAPSULE® Seats
  - Increased serviceability and life
- SilcoNert® 2000 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

### Materials
- Body: SilcoNert 2000
- Bonnet: SilcoNert 2000
- Seats: PCTFE (first stage)
- PTFE (second stage)
- Filters: SilcoNert 2000 10 micron mesh
- Diaphragms: Dursan®
- Internal Seals: PTFE

### Specifications
- Maximum Inlet Pressure
  - 3000 PSIG (210 BAR)
  - 4500 PSIG (310 BAR) optional
- Temperature Range
  - -40°F to 140°F (-40°C to 60°C)
- Gauges
  - 2” (53mm) diameter stainless steel
- Ports
  - 1/4” FPT
- Helium Leak Integrity
  - 1 x 10⁻⁹ scc/sec
- Cv
  - 0.1
  - See page 202 for flow curves
- Weight (430 3331-330)
  - 5.09 lbs. (2.31 kg)
### 400 Series Regulators

#### Installation Dimensions

![Diagram of 400 Series Regulators]

#### Ordering Information

<table>
<thead>
<tr>
<th>430</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</td>
<td>Outlet Pressure</td>
<td>Outlet Gauge</td>
<td>Inlet Gauge</td>
<td>Outlet Assemblies</td>
<td>Assembly/Gauges</td>
<td>Inlet Connections</td>
</tr>
<tr>
<td>430</td>
<td>0: 0-15 PSIG (0-1 BAR)</td>
<td>30°-0-30 PSIG/</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>
</tr>
<tr>
<td></td>
<td>1-0-2 BAR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2: 0-50 PSIG (0-3.5 BAR)</td>
<td>30°-0-100 PSIG/</td>
<td>3: 0-4000 PSIG/</td>
<td>2: 1/4&quot; tube fitting</td>
<td>1: Cleanroom assembly (PSIG/kPa gauges)</td>
<td>TF2: 1/8&quot; tube</td>
<td>C: Protocol switchover station</td>
</tr>
<tr>
<td></td>
<td>-1-0-7 BAR</td>
<td></td>
<td>0-275 BAR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3: 0-100 PSIG (0-7 BAR)</td>
<td>30°-0-200 PSIG/</td>
<td>5: 0-1000 PSIG/</td>
<td>3: Diaphragm valve</td>
<td>2: Cleanroom assembly (BAR/PSIG gauges)</td>
<td>TF4: 1/4&quot; tube</td>
<td>E: Protocol alarm station with intrinsically safe transducer for hazardous environments</td>
</tr>
<tr>
<td></td>
<td>-1-0-14 BAR</td>
<td></td>
<td>0-70 BAR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4: 0-250 PSIG (0-17 BAR)</td>
<td>0-400 PSIG/</td>
<td>6: 0-300 PSIG/</td>
<td>6: 1/8&quot; tube fitting</td>
<td></td>
<td>M06: 6mm tube</td>
<td>H: Protocol switchover alarm station with pressure switch gauges</td>
</tr>
<tr>
<td></td>
<td>0-27 BAR</td>
<td>0-21 BAR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7: 0-150 PSIG (0-10 BAR)</td>
<td>30°-0-200 PSIG/</td>
<td>7: 0-400 PSIG/</td>
<td>7: Diaphragm valve</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>-1-0-14 BAR</td>
<td></td>
<td>0-27 BAR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8: 0-6000 PSIG/</td>
<td></td>
<td>8: Diaphragm valve</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0-415 BAR*</td>
<td>1/8&quot; tube fitting</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9: Diaphragm valve</td>
<td></td>
<td>1/4&quot; FPT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0: Bare body</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Not available with 4500 PSIG (310 BAR) max inlet pressure*

#### Related Options

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>550 0002</td>
<td>Panel mount kit</td>
</tr>
<tr>
<td>550 0001</td>
<td>Captured vent kit (2 required)</td>
</tr>
<tr>
<td>476 0002</td>
<td>Helium Leak certification</td>
</tr>
</tbody>
</table>
Regulator Flow Curves

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

FLOW RATE = SCFH (LPM)

OUTLET PRESSURE, PSIG (BAR)

- 500 PSIG (34 BAR) IN
- 2000 PSIG (137 BAR) IN

SilcoNet® is a registered trademark of SilcoTek Corporation. Dursan® is a registered trademark of SilcoTek Corporation.