The 430 Series SilcoNert™ 1020 coated regulators are intended for 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 1020 Barstock Body, Diaphragm, 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 Seal
  - No possibility of gas contamination
- CAPSULE® Seat
  - Increased serviceability and life
- SilcoNert™ 1020 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 1020
- Bonnet: SilcoNert 1020
- Seat: PCTFE (first stage), PTFE (second stage)
- Filter: SilcoNert 1020 10 micron mesh
- Diaphragm: SilcoNert 1020
- 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 (bourdon tube not SilcoNert™ 1020)
- 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

Ordering Information

<table>
<thead>
<tr>
<th>Series 430</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>0-15 PSIG (0-1 BAR)</td>
<td>0-0-30 PSIG/0-275 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>B: Protocol alarm station with pressure switch gauges</td>
<td></td>
</tr>
<tr>
<td>0-50 PSIG (0-3.5 BAR)</td>
<td>0-0-100 PSIG/0-275 BAR</td>
<td>3: 0-1000 PSIG/0-275 BAR</td>
<td>2: 1/4&quot; tube fitting</td>
<td>1: Cleanroom assembly (PSIG/Bar gauges)</td>
<td>TF2: 1/8&quot; tube</td>
<td>C: Protocol switchover station</td>
<td></td>
</tr>
<tr>
<td>0-100 PSIG (0-7 BAR)</td>
<td>0-0-200 PSIG/0-275 BAR</td>
<td>5: 0-1000 PSIG/0-70 BAR</td>
<td>3: Diaphragm valve 1/8&quot; tube fitting</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>
<td></td>
</tr>
<tr>
<td>0-250 PSIG (0-17 BAR)</td>
<td>0-400 PSIG/0-27 BAR</td>
<td>6: 0-300 PSIG/0-21 BAR</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>
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<tr>
<td>0-150 PSIG (0-10 BAR)</td>
<td>0-0-200 PSIG/0-14 BAR</td>
<td>7: 0-400 PSIG/0-27 BAR</td>
<td>7: Diaphragm valve 1/8&quot; tube fitting</td>
<td></td>
<td>CGA DIN 477 BS 341 and others available upon request</td>
<td>J: Protocol alarm station with standard transducer for non hazardous environments</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>K: Protocol switchover alarm station with standard transducer for non hazardous environments</td>
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</tbody>
</table>

Related Options

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
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</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 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