VOC Analytical Regulators
Ultra-High-Purity for Noncorrosive/Corrosive Service

Model 19VOC

These regulators are designed for applications that require analysis down to the ppt level of volatile organic compound (VOC) contaminants. The 19VOCSP is supplied without pressure gauges while the 19VOCG has a cylinder pressure gauge only. Both are recommended wherever low ppm to ppt reactive calibration mixtures or ultra-high-purity carrier or zero gases are used.

Benefits/Features
Proprietary cleaning system removes any organic film and surface adhering particles to ensure a stable baseline in analysis down to ppt level of VOC contaminants.
Threadless internal design, aerodynamically smooth flow passages, and standard surface finish of 15 to 20 micro inch Ra to eliminate the regulator as a contaminant source in VOC monitoring.
Diaphragm and poppet are mechanically linked.
Internal surface area is kept to a minimum to limit the interaction of the gaseous standard with the stainless steel surfaces within the regulator.
Low internal volume for rapid purging.

Specifications
Inlet Pressure: 3000 psig (207 bar) maximum
Operating Temperature Range:
-40°F to 150°F (-40°C to 65°C)
Flow Coefficient: Cv = 0.04
Supply Pressure Effect: 0.4 psi per 100 psi (0.1 bar per 7 psi)
Regulator Inlet Port: 1/4” NPT Female
Inlet Connection: Specify CGA or 1/4” compression fitting
Outlet Connection: 1/4” compression fitting
Gauge Size: 2” (53 mm) face
Weight: 3 lbs. (1.4 kg)

Materials of Construction
Body: 316 Stainless Steel
Diaphragm: 316 Stainless Steel
Seats: PCTFE
Seals: 316 Stainless Steel
Gauges: 316 Stainless Steel

<table>
<thead>
<tr>
<th>Model 19VOC</th>
<th>Delivery Pressure Range</th>
<th>Delivery Pressure Gauge</th>
<th>Cylinder Pressure Gauge</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>psig</td>
<td>bar</td>
<td>psig</td>
</tr>
<tr>
<td>Q1-19VOCSP-(*)</td>
<td>2 – 100</td>
<td>0.1 – 7</td>
<td>None</td>
</tr>
<tr>
<td>Q1-19VOCGS-(*)</td>
<td>2 – 100</td>
<td>0.1 – 7</td>
<td>None</td>
</tr>
</tbody>
</table>

* Specify CGA. Other connections are available – please contact your Air Liquide representative.