Liquid Cylinder Regulator

Model 80

The Model 80 regulator is designed for use on the gaseous withdrawal port of cryogenic liquid containers. Featuring a metal diaphragm design, this regulator is ideal for applications requiring both high-flow and diffusion-resistant pressure regulation. Typical applications include laser-assist gases, purging, pressure testing and blanketing.

Benefits and Features

- Maximum inlet pressure is 3000 psig
- Conforms to CGA E-4
- Designed specifically to operate on liquid cylinders, but can also be used on high-pressure cylinders without damage
- 2.75" stainless steel diaphragm
- 2.5" dual-scale gauge (psi/kpa)
- Tamper-proof, self-reseating internal high-pressure safety valve
- One-piece encapsulated seat design with an internal filter and PTFE seat

Typical Performance

![Graph showing performance](image)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Gas Service</th>
<th>Delivery Pressure Range (psig)</th>
<th>Inlet CGA</th>
<th>Outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>IGR-80C-(CGA)</td>
<td>Carbon Dioxide, Oxygen, Inerts</td>
<td>0–125</td>
<td>320, 540 or 580</td>
<td>¼&quot; NPT Female</td>
</tr>
<tr>
<td>IGR-80D-(CGA)</td>
<td>Carbon Dioxide, Oxygen, Inerts</td>
<td>0–350</td>
<td>320, 540 or 580</td>
<td>¼&quot; NPT Female</td>
</tr>
<tr>
<td>IGR-80E-(CGA)</td>
<td>Carbon Dioxide, Oxygen, Inerts</td>
<td>0–500</td>
<td>320, 540 or 580</td>
<td>¼&quot; NPT Female</td>
</tr>
</tbody>
</table>

Note: Order by complete model number. Where (CGA) is indicated above, insert appropriate CGA connection number to complete the model number (i.e. IGR-80E-580).