Tied-Diaphragm Regulators
High-Purity for Corrosive Service
Model 237

These single-stage tied-diaphragm regulators have been successfully used with acid-forming gases such as hydrogen chloride and boron trifluoride. Constructed of aluminum silicon bronze, they demonstrate superior corrosion-resistant properties for demanding gases. Featuring both Monel® nozzle and filter screens, along with a stainless steel diaphragm lined with Hastelloy C-22®, this construction allows for use in high-purity applications while enhancing resistance to corrosion.

Benefits/Features
High-flow capabilities for chemical process control and tube trailer unloading.
Diaphragm and poppet are mechanically linked to provide a positive shutoff.
Stainless steel diaphragm with Hastelloy C-22® trim maintains gas purity while providing enhanced resistance to corrosion.

Specifications
Inlet Pressure: See table below
Operating Temperature Range:
-40°F to 140°F (-40°C to 60°C)
Flow Coefficient:
Regulator Cv = 0.624
Outlet Valve Cv = 0.26
Supply Pressure Effect:
1 psi per 100 psi (0.1 bar per 7 bar)
Regulator Inlet Port: 1/4” NPT Female
Inlet Connections: Specify CGA
Outlet Connections: 1/4” NPT Female and all other configurations
Gauge: 2.5” (67 mm) face
Weight: 7.1 lbs. (3.2 kg)

Materials of Construction
Body: Aluminum silicon brass
Diaphragm: 316 Stainless Steel lined with Hastelloy C-22®
Seats: PCTFE
Seals: PTFE
Gauges: 316 Stainless Steel
Bonnet: Nickel chrome-plated brass

<table>
<thead>
<tr>
<th>Model 237</th>
<th>Delivery Pressure Range</th>
<th>Delivery Pressure Gauge</th>
<th>Cylinder Pressure Gauge</th>
<th>Inlet Pressure (maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Silicon Bronze</td>
<td>psig</td>
<td>bar</td>
<td>psig</td>
<td>bar</td>
</tr>
<tr>
<td>Q1-237A4K- (*)</td>
<td>3 – 75</td>
<td>0.2 – 5</td>
<td>0 – 100</td>
<td>0 – 7</td>
</tr>
<tr>
<td>Q1-237B4K- (*)</td>
<td>10 – 150</td>
<td>0.7 – 10</td>
<td>0 – 200</td>
<td>0 – 14</td>
</tr>
<tr>
<td>Q1-237A1K- (*)</td>
<td>3 – 75</td>
<td>0.2 – 5</td>
<td>0 – 100</td>
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<td>Q1-237B1K- (*)</td>
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* Specify CGA. Other cylinder connections are available – please contact your Air Liquide representative.