Low Delivery Pressure Regulators
High-Purity for Noncorrosive/Corrosive Service
Model 750

These metal diaphragm regulators provide highly accurate delivery pressures of 0.2 to 2 psig (0.01 – 0.1 bar) for inlet pressures as high as 3000 psig (206 bar). The large effective diaphragm sensing area provides quick response, accurate and dependable regulation, and long service life. Two-stage design provides constant delivery pressure with no need for periodic pressure readjustment. The Model 750B is suitable for use with high-purity noncorrosive gases and the 750S is perfect for mildly corrosive gases.

Benefits/Features
- Two-stage regulator design ensures constant delivery pressure as the inlet pressure decreases.
- Type 304 Stainless Steel diaphragms minimize diffusion of air into regulator and eliminate off-gassing associated with elastomeric diaphragms, thus maintaining high gas purity.
- Large 3” (76.2mm) diaphragm in the second stage allows for accurate control of delivery pressure down to 0.15 psig (0.01 bar).
- Low-torque multi-turn handknob provides sensitive outlet pressure control.
- Pressure relief valve protects regulator from over pressurization.

Specifications
- Inlet Pressure: 3000 psig (206 bar) maximum
- Flowrate: 18 SCFH N₂ maximum at 2000 psig inlet pressure
- Operating Temperature Range: -4°F to 122°F (-20°C to 50°C)
- Regulator Inlet Port: 1/4” NPT Female
- Inlet Connection: Specify CGA
- Outlet Connection: 1/4” NPT Female
- Gauge Size:
  - Model 750B: 1.8” (44.5 mm) face
  - Model 750S: 2” (53 mm) face
- Interstage Relief Valve Setting: 45 psig (3 bar)
- Weight: 5 lbs. (2.3 kg)

Materials of Construction
- Body:
  - Model 750B: Chrome-plated brass
  - Model 750S: 316L Stainless Steel
- Diaphragm: 304 Stainless Steel
- Other Wetted Surfaces: Brass or stainless steel
- Seats:
  - First Stage: PCTFE
  - Second Stage: EPDM or Viton®
- Seals: PCTFE
- Bonnets: Black anodized aluminum
- Gauges: Chrome-plated brass or 316 Stainless Steel

Model 750
<table>
<thead>
<tr>
<th>Brass</th>
<th>Stainless Steel</th>
<th>Delivery Pressure Range</th>
<th>Delivery Pressure Gauge (dual scale)</th>
<th>Cylinder Pressure Gauge (dual scale)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1-750B(*)</td>
<td>Q1-750S(*)</td>
<td>psig</td>
<td>bar</td>
<td>psig</td>
</tr>
<tr>
<td>0.2 – 2</td>
<td>0.01 – 0.1</td>
<td>0 – 3</td>
<td>0 – 0.2</td>
<td>0 – 4500</td>
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</tbody>
</table>

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