High-Flow SwitchOver Manifold
MODEL 8RS

This automatic switchover manifold handles flow rates up to 3000 SCFH, at delivery pressures up to 500 psig. The Model 8RS is ideal for providing continuous flow of gas between a primary and secondary or backup supply. When the primary gas supply has been depleted, this unit automatically switches to the secondary supply—thus enabling the user to entirely deplete the gas contained in a single or multi-cylinder source without creating a gas outage. This also eliminates the possibility of wasting valuable gas due to premature cylinder changeout.

The Model 8RS manifold is highly recommended for use with all industrial or high-purity noncorrosive gases to provide constant delivery pressure control to instrumentation by incorporating a secondary outlet line regulator. Downstream line or station regulation is not necessary unless various distribution point pressures are required. The 8RS unit is equipped with a heavy-duty, stainless steel bracket for convenient wall-mount installations.

Model 8RS Flow Data

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Delivery Pressure Range in psig (XXX)</th>
<th>Inlet CGA Code (YYY)</th>
<th>Gas Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>8RS-125</td>
<td>125</td>
<td>346</td>
<td>Air</td>
</tr>
<tr>
<td>8RS-250</td>
<td>250</td>
<td>590</td>
<td>Air (Industrial)</td>
</tr>
<tr>
<td>8RS-500</td>
<td>500</td>
<td>580</td>
<td>Argon, Nitrogen, Helium</td>
</tr>
<tr>
<td></td>
<td></td>
<td>350</td>
<td>Hydrogen, Methane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>540</td>
<td>Oxygen</td>
</tr>
</tbody>
</table>

Please note: manifold accessories are available—contact your Air Liquide representative for more information.

Benefits and Features
Maximum inlet pressure is 3000 psig
Outlet line regulator: 125, 250 and 500 psig available
2.75” stainless steel diaphragms
One piece encapsulated seat design with internal filter and PTFE seat
Brass construction with 1/2” NPT inlet and outlet ports
Tamper-proof and self-resealing high-pressure relief valve
Stainless steel front panel
72” stainless steel flexible pigtails with integral CGA check valves
2.5” dual-scale gauges (psi/bar)

Specifications
Inlet Pressure: 3000 psig (207 bar) max.
Maximum Flow Capacity (SCFH):
  8RS-125: 1600
  8RS-250: 2200
  8RS-500: 3000
Weight: 22 lbs. (10 kg)

Typical Applications
Laser assist gas
Bulk gas back-up
High-flow blanketing processes