High-Purity Primary Changeovers

Model 8ACS

Scott™ 8ACS Series changeover manifolds provide continuous flow of gas between a primary and a secondary or backup supply. When a primary gas supply has been depleted, the changeover unit automatically switches to a secondary supply. A downstream line regulator should be used to eliminate resulting pressure fluctuation and to ensure constant delivery pressure to the application. Use of a changeover system prevents gas outages caused by empty cylinders or the waste of gas due to premature cylinder changeouts. The Model 8ACS incorporates two diffusion-resistant regulators with packless inlet valves to allow supply banks to be completely isolated. Available in either brass or stainless steel, the unit is also equipped with a stainless steel bracket for wall mounting.

Benefits/Features
Prevents gas outages and waste caused by premature cylinder changeout.
Improves operating efficiency of process by increasing uptime and reducing labor costs.
Protects gas purity with diffusion-resistant regulators designed for high-purity applications.
Isolates gas source completely during changeout through use of diaphragm valves.
Compact design saves space.
Easy to operate.

Specifications

<table>
<thead>
<tr>
<th>Inlet Pressure Gauge</th>
<th>Delivery Pressure Range (Nonadjustable)</th>
<th>Delivery Pressure Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>psig</td>
<td>bar</td>
<td>psig</td>
</tr>
<tr>
<td>Q8-ACS-B-B-(*)</td>
<td>0 – 4000</td>
<td>0 – 276</td>
</tr>
<tr>
<td>Q8-ACS-S-B-(*)</td>
<td></td>
<td></td>
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</tbody>
</table>

* Replace with CGA from table below.


Materials of Construction

Body: Brass or 316 Stainless Steel
Diaphragm: 316 Stainless Steel
Pigtails: 36” stainless steel flexible pigtail with brass or 316 Stainless Steel CGA fittings as appropriate
Seats: PTFE
Seals: PTFE
Bonnet: Brass or 300 Stainless Steel
Gauges: Brass or stainless steel

Optional Equipment

Annunciator
Flash arrester
Flow limit shutoff valves
Pressure relief valves
Pressure switches
Check valves (2 required – one for each pigtail)

Option: Indicating pressure switch gauges with annunciator can be added to this system by placing an A at the end of the part number (i.e. Q8-ACS-B-B-N2A)

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Gas Service

CGA Connection**  
Air 590  
Argon, helium or nitrogen 580  
Carbon dioxide 320  
Hydrogen, methane or carbon monoxide 350†  
Oxygen 540†  

CGA Connection**  
Air 590  
Argon, helium or nitrogen 580  
Carbon dioxide 320  
Hydrogen, methane or carbon monoxide 350†  
Oxygen 540†  

** Other cylinder connections are available – please contact your Air Liquide representative.
† If your system requires CGA 350 (flammable) or CGA 540 (oxygen), an explosion-proof switch should be used. Contact your Air Liquide representative for more information.