**DESCRIPTION**

VACCO Industries’ family of pneumatic couplings provides precision operations required for space applications under extreme high pressure conditions.

**FEATURES**

- Size: 1/4” to 1”
- Operating Pressure: Vacuum to 5000 psig
- Fluids: GHe, GOX, GN₂, Ethylene Glycol, N₂O₄, and MMH Vapor
- Type: Breakaway and/or Manual Latch
- Alignment: .0625 in Offset, 5° Angulation
- Operating Temperature: -300° F to +350° F
- Life Cycle: Up to 4000 cycles
- Leakage: As low as 10E-06 sccs GHe

**APPLICATIONS**

- Fill, Vent, Purge, and Leak Check of:
- Propellant Pressurization Tanks and Systems
- Life Support Systems
- Environmental Control Systems
- Pressurant Storage Containers

**HERITAGE**

- Lunar Module
- Space Shuttle
<table>
<thead>
<tr>
<th>Application</th>
<th>Type</th>
<th>Operating Fluid</th>
<th>Operating Temperature</th>
<th>Operating Pressure</th>
<th>Leakage</th>
<th>Self-Alignment</th>
<th>Flow Factors</th>
<th>Life Cycles</th>
<th>Features</th>
<th>Self-Sealing</th>
<th>Actuation</th>
<th>Interlock</th>
<th>Position Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECLSS</td>
<td>Space Shuttle</td>
<td>1/4&quot;, 3/8&quot;, 5/8&quot;</td>
<td>Breakaway Manual Latching</td>
<td>-150°F to +180°F</td>
<td>0 to 3300 psig</td>
<td>0 to 5000 psig</td>
<td>0.062 Offset 5° Conical</td>
<td>2000</td>
<td>3.4</td>
<td>X Manual</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>GHe Loading</td>
<td>Space Shuttle</td>
<td>1/2&quot;, 1/&quot;</td>
<td>Pneumatic Manual Latching</td>
<td>-250°F to +350°F</td>
<td>0 to 4500 psig</td>
<td>1.0 csc GHe</td>
<td>0.062 Offset 5° Conical</td>
<td>2000</td>
<td>4.9</td>
<td>X Manual</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>CH₂/CO₂ Loading</td>
<td>Interstage</td>
<td>3/8&quot;</td>
<td>Ethylene Glycol, C₂</td>
<td>0°F to +160°F</td>
<td>0 to 1575 psig</td>
<td>N/A</td>
<td>0.062 Offset 5° Conical</td>
<td>2000</td>
<td>3.4</td>
<td>X Manual</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**FLUID COUPLINGS**

**PNEUMATIC**

**PERFORMANCE CHARACTERISTICS**