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Fax.: +49 (0) 621 309 809 399
email: info@acftec.de
CONNECTION SOLUTIONS for BIOPHARMACEUTICAL PROCESSES

For applications where reliability and sterility are a must, Connect with Colder.
Colder Products Company, the leader in single-use connection technology, offers a wide variety of solutions including sterile connect and sterile disconnect. Our innovative designs offer flexibility to easily combine various components and systems while maintaining product integrity. For applications where reliability and sterility are a must, Connect with Colder.
<table>
<thead>
<tr>
<th>PAGE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td><strong>AseptiQuik®</strong>: Provides a quick and easy sterile connection, even in non-sterile environments. &lt;br&gt; <strong>Material</strong>: Polycarbonate &lt;br&gt; <strong>Termination Sizes</strong>: 1/2” HB, 3/8” HB and 3/4” sanitary</td>
</tr>
<tr>
<td>7</td>
<td><strong>AseptiQuik® DC</strong>: All-in-one single-use connection technology offering both a sterile connect and a sterile disconnect. &lt;br&gt; <strong>Material</strong>: Polycarbonate &lt;br&gt; <strong>Termination Sizes</strong>: 1/4” HB, 3/8” HB and 1/2” HB</td>
</tr>
<tr>
<td>10</td>
<td><strong>HFC39</strong>: Features sterile disconnect functionality with automatic shutoff valve, preventing external organisms from entering the media flow path upon disconnection. &lt;br&gt; <strong>Material</strong>: Polysulfone &lt;br&gt; <strong>Tubing ID Sizes</strong>: 1/4” HB, 3/8” HB and 1/2” HB</td>
</tr>
<tr>
<td>12</td>
<td><strong>Steam-Thru® Connections</strong>: Allows quick and easy sterile connection via SIP between biopharmaceutical processing equipment and disposable bag and tube assemblies. &lt;br&gt; <strong>Material</strong>: Polysulfone &lt;br&gt; <strong>Termination Sizes</strong>: 3/8” HB to 1/2” HB (9.5mm to 12.7mm) and 3/4” sanitary</td>
</tr>
<tr>
<td>16</td>
<td><strong>AseptiQuik® STC</strong>: Allow an AseptiQuik sterile connection to be steamed on to stainless equipment via SIP. &lt;br&gt; <strong>Material</strong>: Polycarbonate and polysulfone</td>
</tr>
<tr>
<td>19</td>
<td><strong>MPC</strong>: Easy-to-use and secure connection for critical fluid applications; includes pressure sealing caps and plugs with optional locking sleeves. &lt;br&gt; <strong>Material</strong>: ABS, polycarbonate and polysulfone &lt;br&gt; <strong>Tubing ID Sizes</strong>: 1/8” to 3/8” (3.2mm to 9.5mm)</td>
</tr>
<tr>
<td>22</td>
<td><strong>MPX</strong>: Larger flow easy-to-use and secure connection for critical fluid applications; includes pressure sealing caps and plugs with optional locking sleeves. &lt;br&gt; <strong>Material</strong>: Polycarbonate and polysulfone &lt;br&gt; <strong>Tubing ID Sizes</strong>: 3/8” to 1/2” (9.5mm to 12.7mm)</td>
</tr>
<tr>
<td>24</td>
<td><strong>Back-to-Back Body Adapters</strong>: Allow end users to connect off-the-shelf single-use systems that may feature two male insert connections at the end of the tubing. &lt;br&gt; <strong>Material</strong>: Polycarbonate and polysulfone</td>
</tr>
<tr>
<td>25</td>
<td><strong>Sanitary Series</strong>: Attaches directly to 3/4”, 1” and 1-1/2” sanitary terminations to provide greater flexibility for integrating components into single-use or hybrid process systems. &lt;br&gt; <strong>Material</strong>: Polysulfone &lt;br&gt; <strong>Termination Sizes</strong>: 3/4”, 1” and 1-1/2” sanitary</td>
</tr>
<tr>
<td>26</td>
<td><strong>MPU</strong>: Larger flow twist-to-connect design features easy-to-use locking mechanism that guards against accidental disconnects. &lt;br&gt; <strong>Material</strong>: Polysulfone &lt;br&gt; <strong>Tubing ID Sizes</strong>: 3/4” (19.1mm)</td>
</tr>
<tr>
<td>26</td>
<td><strong>SaniQuik™</strong>: Integral sanitary termination attaches to hard-plumbed systems with tri-clover clamps; permits quick and easy connection to single-use bag systems, manifolds or tube sets. &lt;br&gt; <strong>Material</strong>: 316L stainless steel &lt;br&gt; <strong>Termination Sizes</strong>: 3/4” and 1-1/2” sanitary</td>
</tr>
</tbody>
</table>

**LEGEND**

- Straight-Through
- Single Shut-Off
- Double Shut-Off
- Non-Spill
AseptiQuik® Connectors provide quick and easy sterile connections, even in non-sterile environments. AseptiQuik’s “CLICK-PULL-TWIST” design enables users to transfer media easily with less risk of operator error. The connector’s robust design provides reliable performance without the need for clamps, fixtures or tube welders. Biopharmaceutical manufacturers can make sterile connections with the quality and market availability they expect from the leader in single-use connection technology.

Specifications

**Pressure:** Up to 60 psi, 4.1 bar

**Temperature:**
39°F to 104°F (4°C to 40°C)

**Typical Flow Rate:**
\( C_v = 14.4 \text{ max} \)

**Sterilization:**
- **Gamma:** Up to 50kGy irradiation
- **Autoclave:**
  - **High Temp (HT) Version:**
    Up to 266°F (130°C) for 30 minutes

**Termination Sizes:**
1/2” ID hose barb (12.7mm), 3/8” hose barb (9.5mm) and 3/4” sanitary

**Materials:**
- **Main Components:**
  - Polycarbonate (white), USP Class VI, ADCF
  - Lock Ring:
    - Polycarbonate (blue), USP Class VI, ADCF
  - Pull Tabs:
    - Polycarbonate (blue, standard version), USP Class VI, ADCF
    - Polycarbonate (white, HT version), USP Class VI, ADCF
  - Caps:
    - Polypropylene (clear), USP Class VI, ADCF
  - Seals:
    - Silicone (clear), platinum-cured, USP Class VI, ADCF
  - Membrane:
    - Polyethylene (standard version), USP Class VI, ADCF
    - Hydrophobic polyethersulfone (HT version), USP Class VI

Visit us at www.colder.com/aseptiquik or call 651-645-0091 for more information.

This graph is intended to give you a general idea of the performance of the product.

Features

- **CLICK-PULL-TWIST Design**
- Membrane pull tabs
- Robust Construction
- Integrated Lock Ring
- Colder Click
- Market Availability

Benefits

- Intuitive three-step connection process reduces risk of operator error
- Ensure simultaneous and secure removal of both membranes
- Repeatable and reliable performance with no additional hardware required
- Secures final connection preventing disassembly
- Audible confirmation of completed assembly steps
- Open access through multiple supply chain partners
### POLYCARBONATE with Blue Pull Tabs

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PART NO.</th>
<th>FLOW</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot; HOSE BARB</td>
<td>AQC17008</td>
<td>.50</td>
<td>2.36 (59.9)</td>
<td>2.95 (74.9)</td>
<td>0.89 (22.6)</td>
</tr>
<tr>
<td>3/8&quot; HOSE BARB</td>
<td>AQC17006</td>
<td>.34</td>
<td>2.36 (59.9)</td>
<td>2.74 (69.6)</td>
<td>0.65 (16.5)</td>
</tr>
<tr>
<td>3/4&quot; SANITARY</td>
<td>AQC33012</td>
<td>.50</td>
<td>2.36 (59.9)</td>
<td>2.73 (69.3)</td>
<td>0.70 (17.8)</td>
</tr>
</tbody>
</table>

### POLYCARBONATE - High Temperature with White Pull Tabs

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PART NO.</th>
<th>FLOW</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<tbody>
<tr>
<td>1/2&quot; HOSE BARB</td>
<td>AQC17008HT</td>
<td>.50</td>
<td>2.36 (59.9)</td>
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<td>0.89 (22.6)</td>
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<tr>
<td>3/8&quot; HOSE BARB</td>
<td>AQC17006HT</td>
<td>.34</td>
<td>2.36 (59.9)</td>
<td>2.74 (69.6)</td>
<td>0.65 (16.5)</td>
</tr>
<tr>
<td>3/4&quot; SANITARY</td>
<td>AQC33012HT</td>
<td>.50</td>
<td>2.36 (59.9)</td>
<td>2.73 (69.3)</td>
<td>0.70 (17.8)</td>
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</tbody>
</table>

### POLYCARBONATE with Blue Pull Tabs

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PART NO.</th>
<th>FLOW</th>
<th>A</th>
<th>B</th>
<th>C</th>
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</thead>
<tbody>
<tr>
<td>1/2&quot; HOSE BARB</td>
<td>AQC22008</td>
<td>.50</td>
<td>2.50 (63.5)</td>
<td>2.99 (75.9)</td>
<td>0.89 (22.6)</td>
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<tr>
<td>3/8&quot; HOSE BARB</td>
<td>AQC22006</td>
<td>.34</td>
<td>2.50 (63.5)</td>
<td>2.90 (73.7)</td>
<td>0.65 (16.5)</td>
</tr>
<tr>
<td>3/4&quot; SANITARY</td>
<td>AQC44012</td>
<td>.50</td>
<td>2.50 (63.5)</td>
<td>2.80 (71.1)</td>
<td>0.70 (17.8)</td>
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</tbody>
</table>

### POLYCARBONATE - High Temperature with White Pull Tabs

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PART NO.</th>
<th>FLOW</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot; HOSE BARB</td>
<td>AQC22008HT</td>
<td>.50</td>
<td>2.50 (63.5)</td>
<td>2.99 (75.9)</td>
<td>0.89 (22.6)</td>
</tr>
<tr>
<td>3/8&quot; HOSE BARB</td>
<td>AQC22006HT</td>
<td>.34</td>
<td>2.50 (63.5)</td>
<td>2.90 (73.7)</td>
<td>0.65 (16.5)</td>
</tr>
<tr>
<td>3/4&quot; SANITARY</td>
<td>AQC44012HT</td>
<td>.50</td>
<td>2.50 (63.5)</td>
<td>2.80 (71.1)</td>
<td>0.70 (17.8)</td>
</tr>
</tbody>
</table>
Pre-Assembly Cap Removal

CLICK–PULL–TWIST Assembly Procedure

Align male and female couplings, push together until “Colder Click” confirmation.

Slight rotation of the blue lock ring may be required for proper alignment prior to connection.

Snap membrane pull tabs together and pull from connector.

Twist the blue lock ring clockwise until audible “Colder Click.” Alignment of the lock ring rib with the body’s arrow indicator confirms final connection.

Connect with Colder Sterile Fluid Transfer
ASEPTIQUIK® DC CONNECTOR

AseptiQuik® DC Connectors are the first all-in-one single-use connection technology to offer both a sterile connect and sterile disconnect. With the AseptiQuik DC Connector, manufacturers can make a quick and easy sterile connection and disconnection, even in non-sterile environments.

AseptiQuik DC’s intuitive “CLICK-PULL-TWIST” design enables users to transfer media easily with less risk of operator error. After transfer is complete, the connector features a simple one-step disconnection that maintains media sterility by preventing external organisms from entering into the media flow path. The connector’s robust design and automatic shutoff valves provide reliable performance without the need for sanitary clamps, fixtures or tube welders.

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLICK-PULL-TWIST</td>
<td>Intuitive three-step connection process reduces risk of operator error</td>
</tr>
<tr>
<td>Design</td>
<td></td>
</tr>
<tr>
<td>Simple One-Step</td>
<td>Maintains media sterility in each half by preventing external organisms</td>
</tr>
<tr>
<td>Disconnection</td>
<td>from entering the flow path</td>
</tr>
<tr>
<td>Membrane Pull Tabs</td>
<td>Ensure simultaneous and secure removal of both membranes</td>
</tr>
<tr>
<td>Robust Construction</td>
<td>Repeatable and reliable performance with no additional hardware required</td>
</tr>
<tr>
<td>Colder Click</td>
<td>Audible confirmation of completed assembly steps</td>
</tr>
<tr>
<td>Market Availability</td>
<td>Open access through multiple supply chain partners</td>
</tr>
</tbody>
</table>

**Specifications**

**Pressure:** Up to 60 psi, 4.1 bar

**Temperature:**
39°F to 104°F (4°C to 40°C)

**Sterilization:**
- **Gamma:** Up to 50kGy irradiation
- **Autoclave:**
  - **High Temp (HT) Version:** Up to 266°F (130°C) for 30 minutes

**Termination Sizes:**
1/4", 3/8" and 1/2" (6.4mm, 9.5mm and 12.7mm)

**Materials:**
- **Main Components:** Polycarbonate (white), USP Class VI, ADCF
- **Lock Ring:** Polycarbonate (blue), USP Class VI, ADCF
- **Pull Tabs:**
  - Polycarbonate (blue, standard version), USP Class VI, ADCF
  - Polycarbonate (white, HT version), USP Class VI, ADCF
- **Caps:**
  - Polypropylene (clear), USP Class VI, ADCF
- **Seals:** Silicone (clear), platinum-cured, USP Class VI, ADCF
- **Membrane:**
  - Polyethylene (standard version), USP Class VI, ADCF
  - Hydrophobic polyethersulfone (HT version), USP Class VI
- **Springs:** 316 stainless steel

This graph is intended to give you a general idea of the performance of the product.
Product Dimensions

A = Height/Diameter (With cap)
B = Total Length (With cap)
C = Hose Barb Length

**Coupling Bodies**

POLYCARBONATE with Blue Pull Tabs

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PART NO.</th>
<th>FLOW</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; HOSE BARB</td>
<td>AQCDC17004</td>
<td>1/4&quot;</td>
<td>2.36</td>
<td>5.33</td>
<td>0.60</td>
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<tr>
<td>3/8&quot; HOSE BARB</td>
<td>AQCDC17006</td>
<td>3/8&quot;</td>
<td>2.36</td>
<td>5.33</td>
<td>0.60</td>
</tr>
<tr>
<td>1/2&quot; HOSE BARB</td>
<td>AQCDC17008</td>
<td>3/8&quot;</td>
<td>2.36</td>
<td>5.62</td>
<td>0.89</td>
</tr>
</tbody>
</table>

**Coupling Bodies - High Temperature**

POLYCARBONATE with White Pull Tabs

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PART NO.</th>
<th>FLOW</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; HOSE BARB</td>
<td>AQCDC17004HT</td>
<td>1/4&quot;</td>
<td>2.36</td>
<td>5.33</td>
<td>0.60</td>
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<tr>
<td>3/8&quot; HOSE BARB</td>
<td>AQCDC17006HT</td>
<td>3/8&quot;</td>
<td>2.36</td>
<td>5.33</td>
<td>0.60</td>
</tr>
<tr>
<td>1/2&quot; HOSE BARB</td>
<td>AQCDC17008HT</td>
<td>3/8&quot;</td>
<td>2.36</td>
<td>5.62</td>
<td>0.89</td>
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</tbody>
</table>

**Coupling Inserts**

POLYCARBONATE with Blue Pull Tabs

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PART NO.</th>
<th>FLOW</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<td>AQCDC22004</td>
<td>1/4&quot;</td>
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<td>3/8&quot; HOSE BARB</td>
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<td>3/8&quot;</td>
<td>2.50</td>
<td>5.41</td>
<td>0.60</td>
</tr>
<tr>
<td>1/2&quot; HOSE BARB</td>
<td>AQCDC22008</td>
<td>3/8&quot;</td>
<td>2.50</td>
<td>5.70</td>
<td>0.89</td>
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**Coupling Inserts - High Temperature**

POLYCARBONATE with White Pull Tabs

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PART NO.</th>
<th>FLOW</th>
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<tr>
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<td>AQCDC22004HT</td>
<td>1/4&quot;</td>
<td>2.50</td>
<td>5.41</td>
<td>0.60</td>
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<tr>
<td>3/8&quot; HOSE BARB</td>
<td>AQCDC22006HT</td>
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<td>5.41</td>
<td>0.60</td>
</tr>
<tr>
<td>1/2&quot; HOSE BARB</td>
<td>AQCDC22008HT</td>
<td>3/8&quot;</td>
<td>2.50</td>
<td>5.70</td>
<td>0.89</td>
</tr>
</tbody>
</table>
**Pre-Assembly Cap Removal**

**CLICK–PULL–TWIST Assembly Procedure**

1. **CLICK**
   - Align male and female couplings, push together until audible "Colder Click" confirmation.
   - Slight rotation of blue lock ring may be required for proper alignment prior to connection.

2. **PULL**
   - Snap membrane pull tabs together and pull from connector.

3. **TWIST**
   - Twist the blue lock ring clockwise until audible "Colder Click." Alignment of the lock ring rib with the body’s arrow indicator confirms final connection.

4. **The connector is now ready for sterile fluid transfer.**

5. **PUSH**
   - When fluid transfer is finished, press the thumb latch down to complete the sterile disconnection. Both halves will remain sterile.

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**ASEPTIQUIK DC CONNECTOR**

1. **2**
2. **3**
3. **4**
4. **5**
HFC39 Series sterile disconnect couplings prevent external organisms from entering into the media flow path upon disconnection. Automatic shutoff valves close off the flow path aseptically protecting valuable media while also eliminating the need for pinch clamps and tube welders. The easy-to-use thumb latch design provides a secure, leak-free connection and enables one-hand disconnects.

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simple One-Step Disconnection</td>
<td>Maintains media sterility in each half by preventing external organisms from entering the flow path</td>
</tr>
<tr>
<td>Automatic shutoff valves</td>
<td>Stop flow and eliminate need for pinch clamps</td>
</tr>
<tr>
<td>Audible “click”</td>
<td>Provides confidence of a secure connection</td>
</tr>
<tr>
<td>Lightweight</td>
<td>Easy integration with single-use assemblies</td>
</tr>
<tr>
<td>BSE/TSE free materials</td>
<td>Meet ADCF requirements</td>
</tr>
</tbody>
</table>

Specifications

Pressure: Vacuum to 125 psi, 8.6 bar

Temperature:
-40°F to 280°F (-40°C to 138°C)

Materials:
Main components:
Polysulfone (amber tint), USP Class VI, ADCF

O-rings:
Silicone (clear), platinum-cured, USP Class VI, ADCF

Springs: 316 stainless steel

Sterilization:
Gamma: Up to 50 kGy gamma irradiation. Sterilize coupled or uncoupled.

Autoclave: Up to 270°F (132°C) for 60 minutes. Up to 25 repetitions for uncoupled units and up to one repetition for coupled units.

Tubing Sizes:
1/4", 3/8" and 1/2" ID
6.4mm, 9.5mm and 12.7mm ID

For validation reports, visit www.colder.com/bio and for extractables data, contact info@colder.com
Coupling Bodies

**POLYSULFONE**

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING SIZE</th>
<th>METRIC EQ.</th>
<th>FLOW</th>
<th>SHUTOFF</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IN-LINE</strong></td>
<td>1/4&quot; ID</td>
<td>6.4mm ID</td>
<td>1/4&quot;</td>
<td>HFC17439M</td>
<td>1.44 (36.6)</td>
<td>2.82 (71.6)</td>
</tr>
<tr>
<td><strong>HOSE BARB</strong></td>
<td>3/8&quot; ID</td>
<td>9.5mm ID</td>
<td>3/8&quot;</td>
<td>HFC17639M</td>
<td>1.44 (36.6)</td>
<td>2.82 (71.6)</td>
</tr>
<tr>
<td></td>
<td>1/2&quot; ID</td>
<td>12.5mm ID</td>
<td>3/8&quot;</td>
<td>HFC17839M</td>
<td>1.44 (36.6)</td>
<td>2.82 (71.6)</td>
</tr>
</tbody>
</table>

**Coupling Inserts**

**POLYSULFONE**

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING SIZE</th>
<th>METRIC EQ.</th>
<th>FLOW</th>
<th>STRAIGHT THRU</th>
<th>SHUTOFF</th>
<th>A</th>
<th>B</th>
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</thead>
<tbody>
<tr>
<td><strong>IN-LINE</strong></td>
<td>1/4&quot; ID</td>
<td>6.4mm ID</td>
<td>1/4&quot;</td>
<td>HFC22439M</td>
<td>HFC22439M</td>
<td>1.00 (25.4)</td>
<td>2.02 (51.3)</td>
</tr>
<tr>
<td><strong>HOSE BARB</strong></td>
<td>3/8&quot; ID</td>
<td>9.5mm ID</td>
<td>3/8&quot;</td>
<td>HFC22639M</td>
<td>HFC22639M</td>
<td>1.00 (25.4)</td>
<td>2.02 (51.3)</td>
</tr>
<tr>
<td></td>
<td>1/2&quot; ID</td>
<td>12.5mm ID</td>
<td>3/8&quot;</td>
<td>HFC22839M</td>
<td>HFC22839M</td>
<td>1.00 (25.4)</td>
<td>2.02 (51.3)</td>
</tr>
</tbody>
</table>

**SEALING CAP**

**HFC32039**

- **MATERIAL**
  - Polysulfone
- **A**
  - 1.44 (36.6)
- **B**
  - 2.73 (69.3)

**SEALING PLUG**

**HFC30039M**

- **MATERIAL**
  - Silicone Seal USP Class VI
- **A**
  - 1.00 (25.4)
- **B**
  - 1.81 (46.0)

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted.

**MATING PARTS**

**AseptiQuik® Connectors** enable operators to make a quick and easy sterile connection between two single-use systems, even in non-sterile environments.

**HFC39** sterile disconnect couplings feature quick connect functionality with sterile disconnect capability by preventing external organisms from entering into the media flow path upon disconnection.

**AseptiQuik DC Connectors** are the first all-in-one connector to enable operators to make both a sterile connect and a sterile disconnect.

**DID YOU KNOW...** We offer a full line of single-use products? Biopharmaceutical manufacturers now have an extensive range of options for sterile connecting and sterile disconnecting single-use systems without the need for a laminar flow hood.

**AseptiQuik STC Connectors** allow operators to use a Steam-In-Place (SIP) process to connect an AseptiQuik sterile connector to stainless processing equipment.

**Steam-Thru® and Steam-Thru II Connectors** allow quick and easy sterile connections between stainless steel biopharmaceutical processing equipment and single-use bag and tube systems.

**Steam-Thru®**

Steam-Thru® and Steam-Thru II Connectors allow quick and easy sterile connections between stainless steel biopharmaceutical processing equipment and single-use bag and tube systems.

**AseptiQuik DC Connectors** are the first all-in-one connector to enable operators to make both a sterile connect and a sterile disconnect.

All of our bioprocessing connections are manufactured in an ISO Class 7 certified cleanroom and all fluid contact materials meet USP Class VI and ADCF requirements. Contact us for validation reports, biocompatibility and extractables data.
Steam-Thru® Connections allow a quick and easy sterile connection between biopharmaceutical processing equipment and disposable bag and tube assemblies. The single-use design saves time and money by eliminating unnecessary cleaning procedures and reducing validation burden associated with reusable components.

### Specifications

**Pressure:**
- **Steam position:**
  - Up to 30 psi, 2.1 bar (Steam-Thru)
  - Up to 35 psi, 2.4 bar (Steam-Thru II)
- **Flow position:** Vacuum to 20 psi, 1.4 bar

**Temperature:**
- **Steam position:**
  - Up to 266°F (130°C) for 60 minutes (Steam-Thru)
  - Up to 275°F (135°C) for 60 minutes (Steam-Thru II)
- **Flow position:** 39°F to 104°F (4°C to 40°C)

**Materials:**
- **Connection:** Polysulfone, USP Class VI, ADCF
- **O-rings:** Silicone (clear), platinum-cured, USP Class VI, ADCF
- **Tear-away sleeve:** Polyethylene or polycarbonate (Steam-Thru only), USP Class VI, ADCF

**Typical Flow Rate:**
- \( C_v = 4.2 - 4.6 \) (Steam-Thru)
- \( C_v = 5.2 - 8.0 \) (Steam-Thru II)

**Sterilization:**
- **Gamma:** Up to 50 kGy gamma irradiation
- **Autoclave:** Up to 265°F (129°C) for 60 minutes, up to two cycles (applies only to part numbers STC1700500-STC1700800 and STC2020000-STC2021000)
- **SIP process:**
  - Up to 266°F (130°C) for 60 minutes (Steam-Thru)
  - Up to 275°F (135°C) for 60 minutes (Steam-Thru II)

**Termination Sizes:**
- 3/8” to 1/2” ID, 9.5mm to 12.7mm ID hose barb (Steam-Thru)
- 3/8” to 1/2” ID, 9.5mm to 12.7mm ID hose barb and 3/4” sanitary (Steam-Thru II)

### Features

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Innovative three-port design</td>
<td>Allows a true steam-through SIP process which eliminates &quot;dead legs&quot; and the need for laminar flow hoods</td>
</tr>
<tr>
<td>Patented valve design</td>
<td>Allows sterile connection and disconnection and permits high media flow rate</td>
</tr>
<tr>
<td>Thumb latch/ Tear-away sleeve</td>
<td>Secures valve position, provides visual indicator of process stage</td>
</tr>
<tr>
<td>Industry standard terminations</td>
<td>Speed connect to the process equipment and connect to popular sizes of flexible tubing</td>
</tr>
<tr>
<td>BSE/TSE free materials</td>
<td>Meet ADCF requirements</td>
</tr>
</tbody>
</table>
Steam-Thru® Configurations

Steam-Thru® Connection's patented three-port design allows steam to pass directly through the lower ports to "steam on" to stainless equipment. After the SIP cycle is completed, the connector's valve is actuated, creating a sterile flow path to single-use systems.

Steam-Thru II Configurations

Steam-Thru II Connections offer the flexibility of "steam on" and "steam off" functionality. The innovative design allows the valve to be returned to the steam position enabling a second SIP cycle following media transfer. The "steam off" disconnection of single-use systems minimizes cross-contamination risks associated with reusable components.

### Steam-Thru® Configurations

**Connections**

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Steam flows from the process equipment through the Steam-Thru to sterilize the connection. With the tear-away sleeve in place, the transfer of fluid to or from the bioreactor is prevented.

When the tear-away sleeve is removed, the Steam-Thru is actuated, the connection to the steam trap is disabled and a sterile flow path is established between the process equipment and the disposable system.

Steam flows from the process equipment through the Steam-Thru II creating a "steam on" sterile connection.

Once the "steam on" cycle is complete and the steam trap has been closed, simply press the thumb latch to allow the valve to be moved down to the flow position. The audible “Colder Click” confirms transition to flow position.

Once the valve is locked in the flow position a sterile flow path has been created allowing media transfer.
Steam-Thru Connections Frequently Asked Questions

Q: Why Steam-Thru and Steam-Thru II?
A: Both Steam-Thru and Steam-Thru II allow a sterile connection (steam on) between stainless and single-use. Steam-Thru II also allows a sterile disconnect (steam off) removing the single-use system from the equipment.

Note: Sterile disconnect is important to vaccine manufacturers or facilities that want to minimize the potential of contaminating production environment or exposing operators to media.

Q: Can Steam-Thru be mounted at an angle?
A: Yes. Steam-Thru can be mounted in numerous positions to assist mounting on equipment in tight spaces, ease operator accessibility or better manage SIP condensate.

Q: Is the Steam-Thru only intended for upstream fermentation processes?
A: Steam-Thru can be used in fermentation, media/buffer prep, filtration/purification and fill/finish applications. It can be incorporated into bag systems or transfer lines within or between processes.

Note: Colder recommends that customers test in their actual application and processing conditions.

Q: Does the SIP process need to go from the middle sanitary port to the lower as shown in the literature?
A: No, the steam can be run from the lower port into the middle port to not only perform SIP on the connection, but also on a small vessel at the same time before doing a media addition through the Steam-Thru.

After media transfer is complete, simply press the thumb latch and move the valve back up to the steam position. The audible “Colder Click” confirms transition to steam position.

With the valve locked securely in the steam position, complete a second SIP cycle to “steam off” the connection.
AseptiQuik® STC Connectors integrate the AseptiQuik® sterile connector and the Steam-Thru® II SIP connector, giving manufacturers even greater flexibility for hybrid stainless steel and single-use processing. The AseptiQuik STC connector features a Steam-Thru II connection that is mounted directly to the stainless steel vessel via a sanitary termination. The union of the two connectors into a single unit through a sanitary clamp allows an AseptiQuik sterile connection to be steamed on to stainless equipment via SIP. After the SIP cycle, a wide range of single-use systems can be connected. The SIP process can be done in advance allowing a quick and easy sterile connection to the AseptiQuik half without having to wait 30-60 minutes for SIP prior to inoculation or harvest.

### Features
- CLICK-PULL-TWIST Design
- Innovative Three-Port Steam Design
- Robust Construction
- Patented Steam Valve Design
- Sanitary Interface Between the Two Connectors
- Colder Click
- Market Availability

### Benefits
- Intuitive three aseptic connection step actuation reduces risk of operator error
- Allows a true steam-through SIP process which eliminates “dead legs”
- Repeatable and reliable performance with no additional hardware required
- Allows sterile connection and disconnection to stainless equipment and permits a high media flow rate.
- More secure connection than tubing with cable ties
- Audible confirmation of assembly steps

### Specifications

<table>
<thead>
<tr>
<th><strong>Pressure</strong></th>
<th><strong>Temperature</strong></th>
<th><strong>Sterilization</strong></th>
<th><strong>Materials</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Steam position</strong>: Up to 35 psi, 2.4 bar</td>
<td><strong>Steam position</strong>: Up to 275°F (135°C) for 60 minutes</td>
<td><strong>Gamma</strong>: Up to 50kGy irradiation</td>
<td><strong>AseptiQuik</strong> - Polycarbonate (white), USP Class VI, ADCF</td>
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<tr>
<td><strong>Flow position</strong>: Up to 20 psi, 1.4 bar</td>
<td><strong>Flow position</strong>: 39°F to 104°F (4°C to 40°C)</td>
<td><strong>AutoClave</strong>: High Temp (HT) version: Up to 266°F (130°C) for 30 minutes</td>
<td><strong>Steam-Thru II</strong> - Polysulfone (amber tint), USP Class VI, ADCF</td>
</tr>
<tr>
<td><strong>Temperature:</strong></td>
<td><strong>Sterilization:</strong></td>
<td><strong>Pull Tabs:</strong></td>
<td><strong>Seals:</strong> Silicone (clear), platinum-cured, USP Class VI, ADCF</td>
</tr>
<tr>
<td><strong>Steam position</strong>: Up to 275°F (135°C) for 60 minutes</td>
<td><strong>AutoClave</strong>: High Temp (HT) version: Up to 266°F (130°C) for 30 minutes</td>
<td><strong>Polycarbonate (blue, standard version), USP Class VI, ADCF</strong></td>
<td><strong>Pull Tabs:</strong> Polypropylene (clear), USP Class VI, ADCF</td>
</tr>
<tr>
<td><strong>Flow position</strong>: 39°F to 104°F (4°C to 40°C)</td>
<td><strong>Sterilization:</strong></td>
<td><strong>Polycarbonate (white, HT version), USP Class VI, ADCF</strong></td>
<td><strong>Membrane:</strong> Polyethylene (standard version), USP Class VI, ADCF</td>
</tr>
<tr>
<td><strong>Sterilization:</strong></td>
<td><strong>Materials:</strong></td>
<td><strong>Caps:</strong> Polypropylene (clear), USP Class VI, ADCF</td>
<td><strong>Membrane:</strong> Hydrophobic polyethersulfone (HT versions), USP Class VI</td>
</tr>
<tr>
<td><strong>Gamma</strong>: Up to 50kGy irradiation</td>
<td><strong>Main Components:</strong></td>
<td><strong>Clamp:</strong> Nylon 66 (white), USP Class VI</td>
<td><strong>Clamp:</strong> Nylon 66 (white), USP Class VI</td>
</tr>
<tr>
<td><strong>AutoClave</strong>: High Temp (HT) version: Up to 266°F (130°C) for 30 minutes</td>
<td><strong>Materials:</strong></td>
<td><strong>Caps:</strong> Polypropylene (clear), USP Class VI, ADCF</td>
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</tr>
</tbody>
</table>

Note: A slight clockwise rotation of the clamp nut may be needed after autoclave.

**Materials:**
- **Main Components:**
  - AseptiQuik® - Polycarbonate (white), USP Class VI, ADCF
  - Steam-Thru II® - Polysulfone (amber tint), USP Class VI, ADCF
- **Seals:** Silicone (clear), platinum-cured, USP Class VI, ADCF
- **Pull Tabs:** Polypropylene (clear), USP Class VI, ADCF
- **Clamp:** Nylon 66 (white), USP Class VI

**Materials:**
- **Main Components:**
  - AseptiQuik® - Polycarbonate (white), USP Class VI, ADCF
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- **Seals:** Silicone (clear), platinum-cured, USP Class VI, ADCF
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- **Clamp:** Nylon 66 (white), USP Class VI

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- **Main Components:**
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  - Steam-Thru II® - Polysulfone (amber tint), USP Class VI, ADCF
- **Seals:** Silicone (clear), platinum-cured, USP Class VI, ADCF
- **Pull Tabs:** Polypropylene (clear), USP Class VI, ADCF
- **Clamp:** Nylon 66 (white), USP Class VI

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- **Main Components:**
  - AseptiQuik® - Polycarbonate (white), USP Class VI, ADCF
  - Steam-Thru II® - Polysulfone (amber tint), USP Class VI, ADCF
- **Seals:** Silicone (clear), platinum-cured, USP Class VI, ADCF
- **Pull Tabs:** Polypropylene (clear), USP Class VI, ADCF
- **Clamp:** Nylon 66 (white), USP Class VI

**Materials:**
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  - AseptiQuik® - Polycarbonate (white), USP Class VI, ADCF
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- **Main Components:**
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- **Seals:** Silicone (clear), platinum-cured, USP Class VI, ADCF
- **Pull Tabs:** Polypropylene (clear), USP Class VI, ADCF
- **Clamp:** Nylon 66 (white), USP Class VI
Steam flows from the process equipment through the Steam-Thru II in a steam trap creating a “steam on” sterile connection.

**CLICK–PULL–TWIST Assembly Procedure**

1. **Align AseptiQuik male and female couplings, push together until “Colder Click” confirmation.**
   - Slight rotation of blue lock ring may be required for proper alignment prior to connection.

2. **Remove the protective dust cap from the AseptiQuik STC and AseptiQuik Insert.**

3. **POLYCARBONATE**
   - **Standard Version with Blue Pull Tabs**
   - **HT Version with White Pull Tabs**

**TERMINATION**
- 3/4” X 3/4” SANITARY STEAM-THRU II with AseptiQuik Body
- 3/4” X 1-1/2” SANITARY STEAM-THRU II with AseptiQuik Body (pictured)

**PART NO.**
- AQSTC2330900
- AQSTC2331000
- AQSTC2330900HT
- AQSTC2331000HT

**Dimensions**
- **A** = Height/Diameter
- **B** = Total Length
- **C** = Actuated Length

**Product Dimensions**

- **A** = 2.78 (70.6 mm)
- **B** = 9.25 (235 mm)
- **C** = 8.42 (213.9 mm)
With the valve locked securely into the steam position, complete a second SIP cycle to “steam off” the connection.
MPC Series couplings add ease of use and security to your most critical fluid handling applications. Choose from a full line of connectors and configurations, including pressure sealing caps and plugs, in sizes to fit 1/8” and 3/8” tubing. MPC couplings offer optional locking sleeves to further guard against accidental disconnects. In addition, coupling halves can be rotated when connected to reduce tube kinks.

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ergonomic thumb latch</td>
<td>Easy to operate – even with gloved hands</td>
</tr>
<tr>
<td>USP Class VI materials</td>
<td>Meet biocompatibility requirements</td>
</tr>
<tr>
<td>Sterilizable by autoclave, Eto, e-beam, or gamma</td>
<td>Reusable, yet economical enough to allow disposability</td>
</tr>
<tr>
<td>Parting line-free hose barb</td>
<td>Eliminates potential leak path</td>
</tr>
</tbody>
</table>

Note: MPC Series mates with Back-To-Back Body Adapters and Sanitary Series (pages 24-25) and SaniQuik™ (page 27).

Specifications

<table>
<thead>
<tr>
<th>Pressure:</th>
<th>Vacuum to 60 psi, 4.1 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature:</td>
<td>ABS: -40°F to 160°F (-40°C to 71°C)</td>
</tr>
<tr>
<td>Polycarbonate:</td>
<td>-40°F to 250°F (-40°C to 121°C)</td>
</tr>
<tr>
<td>Polysulfone:</td>
<td>-40°F to 300°F (-40°C to 149°C)</td>
</tr>
</tbody>
</table>

Materials:

- Main components:
  - ABS (white), USP Class VI, ADCF
  - Polycarbonate (purple tint), USP Class VI, ADCF
  - Polysulfone (amber tint), USP Class VI, ADCF

- Locking sleeves:
  - Polysulfone (white), USP Class VI, ADCF

- Thumb Latches:
  - Polycarbonate (white), USP Class VI, ADCF
  - Polysulfone (amber tint), USP Class VI, ADCF

- O-rings:
  - Silicone (clear), platinum-cured, USP Class VI, ADCF and Buna-N (black), USP Class V

Sterilization:

- Gamma: Up to 50 kGy irradiation
- Autoclave:
  - Polycarbonate: Up to 250°F (121°C), 30 minutes, up to 10 repetitions. Sterilize uncoupled only.
  - Polysulfone: Up to 270°F (132°C) for 60 minutes, up to 25 repetitions. Sterilize uncoupled only.

Tubing Sizes: 1/8” to 3/8” ID, 3.2mm to 9.5mm ID

WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of Colder’s products in their own application conditions.

This graph is intended to give you a general idea of the performance capabilities of each product line. The shaded area of the graph represents the operating range of the product family, i.e. upper and lower values are shown. Therefore, depending on the exact coupling configurations selected, you can reasonably expect values to fall within the shaded area.

Liquid Flow Rates

Liquid Flow Rate Information for Couplings

The chart below shows the flow rate for Colder couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula below.

\[
Q = C_v \sqrt{\frac{\Delta P}{S}}
\]

- **Q** = Flow rate in gallons per minute
- **C_v** = Average constant of various rates (see chart)
- **\( \Delta P \)** = Pressure drop across coupling (psi)
- **S** = Specific gravity of liquid

\[ C_v \text{ Values for MPC Couplings} \]

<table>
<thead>
<tr>
<th>BODIES</th>
<th>MPC22002T03</th>
<th>MPC22004T03</th>
<th>MPC22006T03</th>
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<td>-</td>
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<tr>
<td>MPC17004T03</td>
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<td>5.5</td>
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</table>
### Product Dimensions

![Diagram](image.png)

- **A** = Height/Diameter
- **B** = Total Length

### Coupling Bodies

#### ABS

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING</th>
<th>Metric EQ.</th>
<th>Flow</th>
<th>STRAIGHT THRU</th>
<th>A (23.6)</th>
<th>B (33.0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE</td>
<td>1/4&quot; ID</td>
<td>6.4mm ID</td>
<td>.21&quot;</td>
<td>MPC17004T</td>
<td>93.93</td>
<td>1.30</td>
</tr>
<tr>
<td>IN-LINE</td>
<td>3/8&quot; ID</td>
<td>9.5mm ID</td>
<td>.29&quot;</td>
<td>MPC17006T</td>
<td>93.93</td>
<td>1.30</td>
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#### Polycarbonate

<table>
<thead>
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<th>TERMINATION</th>
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<th>Metric EQ.</th>
<th>Flow</th>
<th>STRAIGHT THRU</th>
<th>A (23.6)</th>
<th>B (33.0)</th>
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<tr>
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<td>1.10</td>
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<td>6.4mm ID</td>
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<td>93.93</td>
<td>1.30</td>
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<tr>
<td>IN-LINE</td>
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<td>9.5mm ID</td>
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<td>MPC17006T03</td>
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<th>Metric EQ.</th>
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<th>B (33.0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE</td>
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<td>3.2mm ID</td>
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<td>1.10</td>
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<tr>
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<td>1/4&quot; ID</td>
<td>6.4mm ID</td>
<td>.21&quot;</td>
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<td>93.93</td>
<td>1.30</td>
</tr>
<tr>
<td>IN-LINE</td>
<td>3/8&quot; ID</td>
<td>9.5mm ID</td>
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### Accessories

<table>
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<tr>
<th>DESCRIPTION</th>
<th>MATERIALS</th>
<th>PART NO.</th>
</tr>
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<tbody>
<tr>
<td>Leash plug for MPC body</td>
<td>Soft, flexible, medical-grade PVC</td>
<td>MPC30L</td>
</tr>
<tr>
<td>Leash cap for MPC insert</td>
<td>Soft, flexible, medical-grade PVC</td>
<td>MPC32L</td>
</tr>
</tbody>
</table>

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.

### DID YOU KNOW ...

Colder’s products for Life Sciences applications are molded from medical-grade materials, manufactured in an ISO Class 7 certified cleanroom and packaged in double bags with material certifications.
### DID YOU KNOW ...

Many of Colder’s connectors are made from Animal-Free materials thereby reducing the amount of BSE-related documentation. Contact Customer Service at 1-800-444-2474 or 651-645-0091 for further information about Colder’s Animal-Free material offering.

### Coupling Inserts

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING</th>
<th>METRIC EQ.</th>
<th>FLOW</th>
<th>STRAIGHT THRU</th>
<th>O-RING</th>
<th>A</th>
<th>B</th>
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<tbody>
<tr>
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<td><strong>HOSE BARB</strong></td>
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<tr>
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<td>3/8&quot; ID</td>
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### ABS

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<th>FLOW</th>
<th>STRAIGHT THRU</th>
<th>O-RING</th>
<th>A</th>
<th>B</th>
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<tbody>
<tr>
<td><strong>IN-LINE</strong></td>
<td><strong>HOSE BARB</strong></td>
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### POLYCARBONATE

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<th>TERMINATION</th>
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<th>METRIC EQ.</th>
<th>FLOW</th>
<th>STRAIGHT THRU</th>
<th>O-RING</th>
<th>A</th>
<th>B</th>
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<tbody>
<tr>
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<td>3/8&quot; ID</td>
<td>9.5mm ID</td>
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### POLYSULFONE

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<th>FLOW</th>
<th>STRAIGHT THRU</th>
<th>O-RING</th>
<th>A</th>
<th>B</th>
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</thead>
<tbody>
<tr>
<td><strong>IN-LINE</strong></td>
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<td>Silicone Seal USP Class VI</td>
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<tr>
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<td>6.4mm ID</td>
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<tr>
<td></td>
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<td>.29&quot;</td>
<td>MPC22006T39M</td>
<td>Silicone Seal USP Class VI</td>
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### Sealing Cap

<table>
<thead>
<tr>
<th>Sealing Cap</th>
<th>Sealing Cap W/LOCK</th>
<th>Material</th>
<th>A</th>
<th>B</th>
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<tbody>
<tr>
<td>MPC32003</td>
<td>MPCK32003</td>
<td>Polycarbonate</td>
<td>.93 (23.6)</td>
<td>1.30 (33.0)</td>
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<tr>
<td>MPC32039</td>
<td>MPCK32039</td>
<td>Polysulfone</td>
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<td>1.30 (33.0)</td>
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### Sealing Plug

<table>
<thead>
<tr>
<th>Sealing Plug</th>
<th>O-Ring</th>
<th>Material</th>
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<th>B</th>
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<tbody>
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<td>Silicone Seal USP Class VI</td>
<td>Polycarbonate</td>
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<td>1.24 (31.5)</td>
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<td>Polysulfone</td>
<td>.75 (19.1)</td>
<td>1.24 (31.5)</td>
</tr>
</tbody>
</table>

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.
Specifications

Pressure: Vacuum to 60 psi, 4.1 bar

Temperature:
Polycarbonate:
-40°F to 250°F (-40°C to 121°C)
Polysulfone:
-40°F to 300°F (-40°C to 149°C)

Materials:
Main components:
Polycarbonate (purple tint), USP Class VI, ADCF
Polysulfone (amber tint), USP Class VI, ADCF
Locking sleeves:
Polysulfone (white), USP Class VI, ADCF

Thumb Latches:
Polycarbonate (white), USP Class VI, ADCF
Polysulfone (amber tint), USP Class VI, ADCF

O-rings:
Silicone (clear), platinum-cured, USP Class VI, ADCF

Sterilization:
Gamma: Up to 50 kGy irradiation
Autoclave:
Polycarbonate: Up to 250°F (121°C), 30 minutes, up to 10 repetitions. Sterilize uncoupled only.
Polysulfone: Up to 270°F (132°C) for 60 minutes, up to 25 repetitions. Sterilize uncoupled only.

Tubing Sizes:
3/8" to 1/2" ID, 9.5mm to 12.7mm ID

WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of Colder’s products in their own application conditions.

MPX Series couplings add ease of use and security to your most critical fluid handling applications. Choose from a full line of connectors and configurations, including pressure sealing caps and plugs in sizes to fit 3/8" and 1/2" tubing. MPX couplings offer optional locking sleeves to further guard against accidental disconnects. In addition, coupling halves can be rotated when connected reducing tube kinks.

Features
- Ergonomic thumb latch
- USP Class VI materials
- Sterilizable by autoclave, EtO, e-beam, or gamma
- Parting line-free hose barb
- BSE/TSE free-materials

Benefits
- Easy to operate – even with gloved hands
- Meet biocompatibility requirements
- Reusable, yet economical enough to allow disposability
- Eliminates potential leak path
- Meet ADCF requirements

Note: MPX Series mates with Back-To-Back Body Adapters and Sanitary Series (pages 24-25) and SaniQuik™ (page 23).
### Coupling Bodies

#### POLYCARBONATE

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING SIZE</th>
<th>METRIC EQ.</th>
<th>FLOW</th>
<th>STRAIGHT THRU</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE HOSE BARB</td>
<td>1/2&quot; ID</td>
<td>12.7mm ID</td>
<td>.50&quot;</td>
<td>MPX17803</td>
<td>1.28</td>
<td>1.96</td>
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<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING SIZE</th>
<th>METRIC EQ.</th>
<th>FLOW</th>
<th>STRAIGHT THRU</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1.96</td>
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</table>

#### POLYSULFONE

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<tr>
<th>TERMINATION</th>
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<td>1.96</td>
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### Coupling Inserts

#### POLYCARBONATE

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<th>TERMINATION</th>
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<th>STRAIGHT THRU</th>
<th>O-RING</th>
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<th>B</th>
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<tbody>
<tr>
<td>IN-LINE HOSE BARB</td>
<td>3/8&quot; ID</td>
<td>9.5mm ID</td>
<td>.38&quot;</td>
<td>MPX22603M</td>
<td>Silicone Seal USP Class VI</td>
<td>.85</td>
<td>1.90</td>
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<td></td>
<td>1/2&quot; ID</td>
<td>12.7mm ID</td>
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<td>MPX22803M</td>
<td>Silicone Seal USP Class VI</td>
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<td>1.90</td>
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#### POLYSULFONE

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<th>FLOW</th>
<th>STRAIGHT THRU</th>
<th>O-RING</th>
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<th>B</th>
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<tbody>
<tr>
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### Mating Parts

#### Polycarbonate

<table>
<thead>
<tr>
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<th>SEALING CAP W/LOCK</th>
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<th>B</th>
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<tbody>
<tr>
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<td>MPX32003</td>
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<td>1.67</td>
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<td>MPX32039</td>
<td>MPX32039</td>
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<td>1.67</td>
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</table>

#### Polysulfone

<table>
<thead>
<tr>
<th>SEALING PLUG</th>
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<td>1.10</td>
<td>1.66</td>
</tr>
</tbody>
</table>

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.
### MPC/MPX Back-to-Back Body Adapters

MPC/MPX Back-to-Back Body Adapters end users the flexibility of connecting off-the-shelf single-use systems that feature identical inserts. Combining both MPC and MPX bodies provides a reducing option for users who need to transition between tubing with diameters ranging from 1/8” to 1/2”.

#### Features
- Compatible with MPC and MPX Series inserts
- Tubing Reduction Option
- Ergonomic thumb latches
- BSE/TSE free materials

#### Benefits
- Easy conversion to industry standard connections or single-use systems
- Allows easy transition between multiple size tubing from 1/8” to 1/2” ID
- Easy to operate - even with gloved hands
- Meet ADCF requirements

#### Specifications

<table>
<thead>
<tr>
<th>Pressure:</th>
<th>Vacuum to 60 psi, 4.1 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature:</td>
<td>-40°F to 300°F (-40°C to 149°C)</td>
</tr>
</tbody>
</table>

#### Materials:
- **Main Components:** Polycarbonate (purple tint), USP Class VI, ADCF Polysulfone (amber tint), USP Class VI, ADCF

#### Thumb Latches:
- Polycarbonate (white), USP Class VI, ADCF Polysulfone (amber tint), USP Class VI, ADCF

#### Sterilization:
- **Gamma:** Up to 50 kGy irradiation.
- **Autoclave:**
  - Polycarbonate: Up to 250°F (121°C) for 30 minutes, up to 10 repetitions. Sterilize uncoupled only.
  - Polysulfone: Up to 270°F (132°C) for 60 minutes, up to 25 repetitions. Sterilize uncoupled only.

---

#### BACK-TO-BACK Body Adapters

<table>
<thead>
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**POLYCARBONATE**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
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<th>B</th>
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<td>MPC to MPX</td>
<td>1.28 (32.5)</td>
<td>2.13 (54.1)</td>
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</tbody>
</table>

**POLYSULFONE**

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.
Sanitary couplings attach directly to 3/4", 1" and 1-1/2" sanitary terminations to provide greater flexibility for integrating components into single-use or hybrid (single-use to stainless) process systems. Standard bag systems with quick couplings can be easily connected to equipment with sanitary terminations, while single-use cartridge filters can be converted to incorporate quick couplings for greater system modularity.

### Features
- 3/4", 1" and 1-1/2" sanitary terminations
- Compatible with MPC and MPX Series couplings
- Integral coupling adaptor
- BSE/TSE free materials

### Benefits
- Install to equipment with sanitary gaskets and sanitary clamps
- Quick and easy connections to industry standard plastic couplings on single-use bags and tube sets
- Provides flexibility to easily convert sanitary terminations on filter cartridge or equipment
- Meet ADFC Requirements

---

**Specifications**

**Pressure:**
- Vacuum to 60 psi, 4.1 bar

**Temperature:**
- -40°F to 300°F (-40°C to 149°C)

**Materials:**
- **Main components:** Polysulfone (amber tint), USP Class VI, ADFC
- **O-rings:** Silicone (clear), platinum-cured, USP Class VI, ADFC

**Sterilization:**
- **Gamma:** Up to 50 kGy irradiation
- **Autoclave:** Up to 270°F (132°C) for 60 minutes, up to 25 repetitions. Sterilize uncoupled only.

**Termination Sizes:**
- 3/4", 1" and 1-1/2" sanitary

---

### Coupling Bodies

**POLYSULFONE**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>SIZE</th>
<th>A (in)</th>
<th>B (in)</th>
<th>C (in)</th>
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<tbody>
<tr>
<td>MPC3301239</td>
<td>3/4&quot;</td>
<td>.98 (24.9)</td>
<td>1.28 (32.5)</td>
<td>1.50 (38.1)</td>
</tr>
<tr>
<td>MPC3301639</td>
<td>1&quot;</td>
<td>1.40 (35.6)</td>
<td>1.40 (35.6)</td>
<td>1.50 (38.1)</td>
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</tbody>
</table>

### Coupling Inserts

**POLYSULFONE**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>SIZE</th>
<th>O-RING</th>
<th>A (in)</th>
<th>B (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC44012T39M</td>
<td>3/4&quot;</td>
<td>Silicone Seal USP Class VI</td>
<td>.98 (24.9)</td>
<td>1.71 (43.4)</td>
</tr>
<tr>
<td>MPC44024T39M</td>
<td>1-1/2&quot;</td>
<td>Silicone Seal USP Class VI</td>
<td>1.98 (50.3)</td>
<td>1.71 (43.4)</td>
</tr>
</tbody>
</table>

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.

**NOTE:** QD sanitary couplings are compatible with both stainless steel and plastic clamps. Clamps and gaskets are referenced for illustration and are not available through Colder.

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Specifications

Pressure: Vacuum to 35 psi, 2.4 bar

Temperature:
-40°F to 300°F (-40°C to 149°C)

Materials:
Main components: Polysulfone (amber tint), USP Class VI, ADCF
O-rings: Silicone (clear), platinum-cured, USP Class VI, ADCF

Sterilization:
Gamma: Up to 50 kGy irradiation
Autoclave: Up to 270°F (132°C) for 60 minutes, up to 25 repetitions. Sterilize uncoupled only.

Tubing Sizes: 3/4" ID, 19.0mm ID

The MPU’s twist-to-connect design features an easy-to-use locking mechanism that guards against accidental disconnects and provides a reliable, secure connection. A 3/4" hose barb provides smooth, rapid media transfer.

Features
- 3/4" hose barb
- Locking feature
- Sharp barb end
- Shrouded, leak-free seal & smooth, internal flow path
- BSE/TSE free materials

Benefits
- Facilitates rapid fill and empty of bioprocessing bags
- Guards against accidental disconnects
- Minimizes fluid turbulence and dead space
- Protects valuable fluids and eliminates potential to contaminate internal flow path
- Meet ADCF requirements

Mating Parts
- Sealing Cap: MPU32039
  - Material: Polysulfone
  - A: 1.75 (44.5)
  - B: .79 (20.1)

- Sealing Plug: MPU30039M
  - Material: Silicone Seal, USP Class VI
  - A: 1.56 (39.6)
  - B: 1.38 (35.1)

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.
Colder’s SaniQuik™ connection answers the question of how to integrate single-use components with your existing stainless processing equipment. This integral sanitary termination attaches to hard-plumbed systems with tri-clover clamps. Once attached it permits quick and easy connection to single-use bag systems, manifolds or tube sets with Colder disposable coupling bodies. SaniQuik connections reduce sanitary gasket replacement, enabling cost-effective media transfer solutions for feeding, harvesting or sampling applications.

### Features
- 3/4” and 1-1/2” sanitary standard terminations
- Compatible with MPC & MPX Series
- Integral coupling adaptor
- BSE/TSE free materials

### Benefits
- Connect to hard plumbed systems with sanitary gaskets and sanitary clamps
- Quick and easy connections to industry standard plastic couplings on single-use bag and tube sets
- Disconnecting coupling reduces sanitary gasket replacement
- Meet ADCF requirements

### Specifications
- **Pressure:** Vacuum to 60 psi, 4.1 bar
- **Temperature:** -40° F to 300° F (-40° C to 149° C)
- **Materials:**
  - **Main component:** 316L stainless steel
  - **O-rings:** Silicone (clear), platinum-cured, USP Class VI, ADCF
- **Sterilization:** Autoclave
- **Termination Sizes:** 3/4” and 1-1/2” sanitary

### Connections

#### 316L STAINLESS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PART NO.</th>
<th>MATING COUPLING</th>
<th>SANITARY SIZE</th>
<th>SANITARY BORE</th>
<th>SANITARY A</th>
<th>SANITARY B</th>
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</thead>
<tbody>
<tr>
<td>SILICONE SEAL USP CLASS VI</td>
<td>SQCC221212M</td>
<td>MPC Series</td>
<td>3/4”</td>
<td>3/4”</td>
<td>.98” (24.9)</td>
<td>1.39” (35.3)</td>
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<tr>
<td></td>
<td>SQCC222424M</td>
<td>MPC Series</td>
<td>1-1/2”</td>
<td>1-1/2”</td>
<td>1.98” (50.3)</td>
<td>1.50” (38.1)</td>
</tr>
<tr>
<td></td>
<td>SQCX221212M</td>
<td>MPX Series</td>
<td>3/4”</td>
<td>3/4”</td>
<td>.98” (24.9)</td>
<td>1.43” (36.3)</td>
</tr>
<tr>
<td></td>
<td>SQCX222416M</td>
<td>MPX Series</td>
<td>1-1/2”</td>
<td>1”</td>
<td>1.98” (50.3)</td>
<td>1.50” (38.1)</td>
</tr>
<tr>
<td></td>
<td>SQCX222424M</td>
<td>MPX Series</td>
<td>1-1/2”</td>
<td>1-1/2”</td>
<td>1.98” (50.3)</td>
<td>1.50” (38.1)</td>
</tr>
</tbody>
</table>

#### Accessories

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PART NO.</th>
<th>MATING SANIQUIK</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILICONE (CLEAR)</td>
<td>2260100</td>
<td>SQCC221212M, SQCC222424M</td>
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<tr>
<td></td>
<td>2260200</td>
<td>SQCC221212M, SQCX222416M, SQCX222424M</td>
</tr>
</tbody>
</table>

Note: Mates with MPC polycarbonate and polysulfone inserts and sealing plugs (pages 49-51), and MPX polycarbonate and polysulfone inserts and sealing caps (pages 22-23) and Back-to-Back Body Adapters (page 24).

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.
COLDER PRODUCTS COMPANY

Colder Products Company is the leader in the design and manufacture of single-use connection technology and connectors for the life sciences markets. Colder offers a wide variety of bioprocessing solutions including sterile connect, sterile disconnect, SIP connections and quick connects. Our innovative designs provide flexibility for biopharmaceutical manufacturers to easily combine multiple components, single-use or hybrid systems including process containers, tubing manifolds, transfer lines, bioreactors and other bioprocess equipment.

Robust and easy-to-use single-use connectors from Colder maintain flow path sterility and integrity while enabling biopharmaceutical manufacturers to improve production yields, decrease time-to-market and reduce costs. Colder is ISO 13485 certified and our products for bioprocessing applications are manufactured in an ISO Class 7 certified cleanroom.

For applications where reliability and sterility are a must, Connect with Colder.

Founded in St. Paul, Minn. in 1978, Colder offers more than 7,500 standard and custom products with offices in nine countries and distributor representation in North America, Europe, Asia, South America and Australia. Colder is a Dover company.

COLDER PATENT STATEMENT: Colder Products Company takes pride in its innovative quick disconnect coupling solutions, many of which have been awarded United States and International patents. Colder Products Company has a strong tradition of leadership in the quick disconnect market, and aggressively pursues and protects its proprietary information and intellectual property. In cases where it is practical and as a benefit to its customers, Colder Products Company has licensed its proprietary technology. Please contact Colder Products to discuss your unique needs.

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WARNING: Due to the wide variety of possible fluid media and operating conditions, unintended consequences may result from the use of this product, all of which are beyond the control of Colder. It is the user’s responsibility to carefully determine and test for compatibility for use with their application. All such risks shall be assumed by the buyer.

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