CONNECTION SOLUTIONS for BIOPHARMACEUTICAL PROCESSES
**Confidence at every point of connection**

CPC (Colder Products Company) is the leader in the design and manufacture of single-use connection technology and connectors for the life sciences markets. CPC 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 CPC maintain flow path sterility and integrity while enabling biopharmaceutical manufacturers to improve production yields, decrease time-to-market and reduce costs. Our genderless sterile connectors simplify process integration, maximize flexibility and streamline supply chain efficiencies.

CPC makes people’s lives better by developing innovative high quality products that make fluid handling safe and easy.

**HOW TO CONTACT**

Contact CPC’s Bio Customer Fulfillment team at 1-800-519-7633. You can also visit cpcworldwide.com/bio or send an email to CPCBio@cpcworldwide.com.

**QUALITY**

CPC meets or exceeds our customers’ expectations. Everyone is involved, from our suppliers to our distribution network, and most important, our employees. CPC measures and continually improves our standards of product quality, support services and overall customer and employee satisfaction. CPC’s Quality System conforms to ISO 9001:2015 and ISO 13485 standards. Products for bioprocessing applications are manufactured in our ISO Class 7 certified cleanroom.
**Understanding Single-Use**

**WHAT IS SINGLE-USE**
Plastic-based processing equipment consisting of key components including bags, tubing, filters and connection technologies used in the development and production of biopharmaceutical drugs.

**WHY SINGLE-USE**
Increasing global demand for new biologics, vaccines and cell therapies is driving manufacturers to replace traditional stainless equipment with single-use systems. The need to produce multiple drugs within a single facility and the evolving demand for biosimilars (biogenerics) are drivers for implementing single-use or hybrid systems (that combine both stainless- and plastic-based process technologies).

**BENEFITS OF SINGLE-USE**

<table>
<thead>
<tr>
<th>OPERATIONAL EFFICIENCIES</th>
<th>COST EFFECTIVENESS</th>
<th>ECONOMIC ADVANTAGES</th>
<th>SAFETY AND QUALITY</th>
<th>FLEXIBILITY</th>
<th>SUSTAINABILITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increases flexibility and faster batch turnaround.</td>
<td>Minimizes cleaning and validation requirements.</td>
<td>Reduces capital expenditures and facility footprints.</td>
<td>Improves sterility assurance while decreasing the risk of cross-contamination and product loss.</td>
<td>Facilitates multi-drug production and fast product changeover.</td>
<td>Consumes less water, energy and chemicals when compared to stainless-based processing. Single-use plastic waste is an excellent fuel source for waste-to-energy conversion.</td>
</tr>
</tbody>
</table>

**CPC’S ROLE IN SINGLE-USE**
Drug manufacturers receive a wide range of single-use subsystems including bags, tubing manifolds and filter assemblies to create their desired production process. CPC offers the widest range of single-use connection solutions to reliably bring these technologies together while maintaining the sterility and integrity of the overall system. Our connectors are used throughout upstream and downstream unit operations, and have become an industry standard over the past 20 years.
WHAT IS A CLOSED SYSTEM
A process or processing equipment that maintains a sterile barrier between the media/drug product and the external environment. A closed system reduces risks and increases safety by maintaining flow path sterility and media integrity.

HOW DOES CPC ENABLE CLOSED SYSTEMS
CPC’s broad line of sterile connect and disconnect technologies allow closed pre-sterilized single-use assemblies to be brought together to form a complete system. AseptiQuik offers closed connection options from 1/8-to 1-inch tubing. CPC’s award winning Steam-Thru technology creates a sterile connection between stainless equipment and single-use to effectively close hybrid systems.

VISIT US ONLINE FOR INTERACTIVE WEB TOOLS

**cpcworldwide.com/bio**

**ALSO ON THE WEB**
- Validation Test Reports
- Watch Product Videos
- Application Articles
- Chemical Compatibility
- CAD Models
- Regulatory & Compliance Documents
- Ask Our Engineers
6 **MPG:** Easy-to-use and secure connection for critical fluid applications; includes pressure sealing caps and plugs with optional locking sleeves.

*Material:* Medical-grade ABS, medical-grade polycarbonate and polysulfone (USP Class VI, ADCF)

*Tubing ID Sizes:* 1/8" to 3/8" (3.2mm to 9.5mm)

9 **BACK-TO-BACK ADAPTERS:** Allow end users to connect single-use systems that may feature identical connections at the end of their tubing.

*Material:* Medical-grade polycarbonate and polysulfone, USP Class VI, ADCF

10 **MPX:** Larger flow, easy-to-use and secure connection for critical fluid applications; includes pressure sealing caps and plugs with optional locking sleeves.

*Material:* Medical-grade polycarbonate and polysulfone, USP Class VI, ADCF

*Tubing ID Sizes:* 3/8" to 1/2" (9.5mm to 12.7mm)

12 **SANITARY SERIES:** 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.

*Material:* Medical-grade polysulfone, USP Class VI, ADCF

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

14 **SANIQUIK™:** 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.

*Material:* 316L stainless steel

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

16 **MPU:** Larger flow twist-to-connect design features easy-to-use locking mechanism that guards against accidental disconnects.

*Material:* Medical-grade polysulfone, USP Class VI, ADCF

*Tubing ID Sizes:* 3/4" (19.0mm)

18 **HFC39:** Features sterile disconnect functionality with automatic shutoff valve, preventing external organisms from entering the media flow path upon disconnection.

*Material:* Medical-grade polysulfone, USP Class VI, ADCF

*Termination Sizes:* 1/4", 3/8" and 1/2" HB (6.4mm, 9.5mm, 12.7mm)
<table>
<thead>
<tr>
<th>PAGE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
</table>
| 20   | **ASEPTIQUIK® S:** Genderless design provides quick and easy sterile connections for small-flow applications.  
**Material:** Medical-grade polycarbonate, USP Class VI, ADCF  
**Termination Sizes:** 1/8", 1/4" and 3/8" HB (3.2mm, 6.4mm and 9.5mm), 1/4" and 3/4" sanitary and MPC insert |
| 22   | **ASEPTIQUIK® G:** Robust genderless connectors provide quick and easy sterile connections and simplify systems integration.  
**Material:** Medical-grade polycarbonate, USP Class VI, ADCF  
**Termination Sizes:** 1/4", 3/8", 1/2", 3/4" ID hose barb (6.4mm, 9.5mm, 12.7mm, 19.0mm) and 3/4" sanitary |
| 24   | **ASEPTIQUIK® C:** Provides a quick and easy sterile connection, even in non-sterile environments.  
**Material:** Medical-grade polycarbonate, USP Class VI, ADCF  
**Termination Sizes:** 3/8" and 1/2" HB (9.5mm and 12.7mm) and 3/4" sanitary |
| 26   | **ASEPTIQUIK® DC:** All-in-one, single-use connection technology offering both a sterile connect and a sterile disconnect.  
**Material:** Medical-grade polycarbonate, USP Class VI, ADCF  
**Termination Sizes:** 1/4", 3/8" and 1/2" HB (6.4mm, 9.5mm, 12.7mm) |
| 28   | **ASEPTIQUIK® X:** Robust large format design enables quick sterile transfer for high flow single-use applications.  
**Material:** Medical-grade polycarbonate, USP Class VI, ADCF  
**Termination Sizes:** 3/4" and 1" ID hose barb (19.0mm and 25.4mm) and 1-1/2" sanitary |
| 30   | **STEAM-THRU® CONNECTIONS:** Allow quick and easy sterile connection via SIP between biopharmaceutical processing equipment and disposable bag and tube assemblies.  
**Material:** Medical-grade polysulfone, USP Class VI, ADCF  
**Termination Sizes:** 3/8" and 1/2" HB (9.5mm and 12.7mm) and 3/4" sanitary |
| 32   | **ASEPTIQUIK® STC:** Allows a gendered or genderless AseptiQuik sterile connection to be steamed on to stainless equipment via SIP.  
**Material:** Medical-grade polycarbonate and polysulfone, USP Class VI, ADCF |
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
PVDF (white), 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:
1/8” to 3/8” ID (3.2mm to 9.5mm)

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

MPC Series couplings add ease of use and security to 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” to 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>
<tr>
<td>ADCF-free materials</td>
<td>Meet BSE/TSE requirements</td>
</tr>
</tbody>
</table>

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.
MPC SERIES CONNECTOR DIMENSIONS

Coupling Bodies

- POLYCARBONATE

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING</th>
<th>METRIC EQ.</th>
<th>FLOW</th>
<th>STRAIGHT THRU</th>
<th>A (IN)</th>
<th>B (IN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE HOSE BARB</td>
<td>1/8&quot; ID</td>
<td>3.2mm ID</td>
<td>.09&quot;</td>
<td>MPC17002T03</td>
<td>96 (24.4)</td>
<td>1.10 (27.9)</td>
</tr>
<tr>
<td></td>
<td>1/4&quot; ID</td>
<td>6.4mm ID</td>
<td>.21&quot;</td>
<td>MPC17004T03</td>
<td>96 (24.4)</td>
<td>1.10 (27.9)</td>
</tr>
<tr>
<td></td>
<td>3/8&quot; ID</td>
<td>9.5mm ID</td>
<td>.29&quot;</td>
<td>MPC17006T03</td>
<td>96 (24.4)</td>
<td>1.10 (27.9)</td>
</tr>
<tr>
<td>IN-LINE HOSE BARB WITH LOCK</td>
<td>1/8&quot; ID</td>
<td>3.2mm ID</td>
<td>.09&quot;</td>
<td>MPCK17002T03</td>
<td>.99 (25.2)</td>
<td>1.10 (27.9)</td>
</tr>
<tr>
<td></td>
<td>1/4&quot; ID</td>
<td>6.4mm ID</td>
<td>.21&quot;</td>
<td>MPCK17004T03</td>
<td>.99 (25.2)</td>
<td>1.30 (33.0)</td>
</tr>
<tr>
<td></td>
<td>3/8&quot; ID</td>
<td>9.5mm ID</td>
<td>.29&quot;</td>
<td>MPCK17006T03</td>
<td>.99 (25.2)</td>
<td>1.30 (33.0)</td>
</tr>
</tbody>
</table>

- POLYSULFONE

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING</th>
<th>METRIC EQ.</th>
<th>FLOW</th>
<th>STRAIGHT THRU</th>
<th>A (IN)</th>
<th>B (IN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE HOSE BARB</td>
<td>1/8&quot; ID</td>
<td>3.2mm ID</td>
<td>.09&quot;</td>
<td>MPC17002T39</td>
<td>96 (24.4)</td>
<td>1.10 (27.9)</td>
</tr>
<tr>
<td></td>
<td>1/4&quot; ID</td>
<td>6.4mm ID</td>
<td>.21&quot;</td>
<td>MPC17004T39</td>
<td>96 (24.4)</td>
<td>1.10 (27.9)</td>
</tr>
<tr>
<td></td>
<td>3/8&quot; ID</td>
<td>9.5mm ID</td>
<td>.29&quot;</td>
<td>MPC17006T39</td>
<td>96 (24.4)</td>
<td>1.10 (27.9)</td>
</tr>
<tr>
<td>IN-LINE HOSE BARB WITH LOCK</td>
<td>1/8&quot; ID</td>
<td>3.2mm ID</td>
<td>.09&quot;</td>
<td>MPCK17002T39</td>
<td>.99 (25.2)</td>
<td>1.10 (27.9)</td>
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<tr>
<td></td>
<td>1/4&quot; ID</td>
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<td>.21&quot;</td>
<td>MPCK17004T39</td>
<td>.99 (25.2)</td>
<td>1.30 (33.0)</td>
</tr>
<tr>
<td></td>
<td>3/8&quot; ID</td>
<td>9.5mm ID</td>
<td>.29&quot;</td>
<td>MPCK17006T39</td>
<td>.99 (25.2)</td>
<td>1.30 (33.0)</td>
</tr>
</tbody>
</table>

Coupling Inserts

- POLYCARBONATE

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING</th>
<th>METRIC EQ.</th>
<th>FLOW</th>
<th>STRAIGHT THRU</th>
<th>D-RING</th>
<th>A (IN)</th>
<th>B (IN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE HOSE BARB</td>
<td>1/8&quot; ID</td>
<td>3.2mm ID</td>
<td>.09&quot;</td>
<td>MPC22002T03M</td>
<td>Silicone Seal USP Class VI</td>
<td>60 (15.2)</td>
<td>1.10 (27.9)</td>
</tr>
<tr>
<td></td>
<td>1/4&quot; ID</td>
<td>6.4mm ID</td>
<td>.21&quot;</td>
<td>MPC22004T03M</td>
<td>Silicone Seal USP Class VI</td>
<td>60 (15.2)</td>
<td>1.30 (33.0)</td>
</tr>
<tr>
<td></td>
<td>3/8&quot; ID</td>
<td>9.5mm ID</td>
<td>.29&quot;</td>
<td>MPC22006T03M</td>
<td>Silicone Seal USP Class VI</td>
<td>60 (15.2)</td>
<td>1.30 (33.0)</td>
</tr>
</tbody>
</table>

- POLYSULFONE

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING</th>
<th>METRIC EQ.</th>
<th>FLOW</th>
<th>STRAIGHT THRU</th>
<th>D-RING</th>
<th>A (IN)</th>
<th>B (IN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE HOSE BARB</td>
<td>1/8&quot; ID</td>
<td>3.2mm ID</td>
<td>.09&quot;</td>
<td>MPC22002T39M</td>
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<td>60 (15.2)</td>
<td>1.10 (27.9)</td>
</tr>
<tr>
<td></td>
<td>1/4&quot; ID</td>
<td>6.4mm ID</td>
<td>.21&quot;</td>
<td>MPC22004T39M</td>
<td>Silicone Seal USP Class VI</td>
<td>60 (15.2)</td>
<td>1.30 (33.0)</td>
</tr>
<tr>
<td></td>
<td>3/8&quot; ID</td>
<td>9.5mm ID</td>
<td>.29&quot;</td>
<td>MPC22006T39M</td>
<td>Silicone Seal USP Class VI</td>
<td>60 (15.2)</td>
<td>1.30 (33.0)</td>
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</table>
### MPC SERIES CONNECTOR (cont.)

#### Mating Parts

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC30039</td>
<td>Silicone Seal USP Class VI</td>
<td>Polycarbonate</td>
<td>.96 (24.4)</td>
<td>1.30 (33.0)</td>
</tr>
<tr>
<td></td>
<td>Polysulfone</td>
<td></td>
<td>.99 (25.2)</td>
<td>1.30 (33.0)</td>
</tr>
<tr>
<td>MPC32039</td>
<td>Polycarbonate</td>
<td>A</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Polysulfone</td>
<td>B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC30039M</td>
<td>Silicone Seal USP Class VI</td>
<td>Polycarbonate</td>
<td>.75 (19.1)</td>
<td>1.24 (31.5)</td>
</tr>
<tr>
<td></td>
<td>Polysulfone</td>
<td></td>
<td>.75 (19.1)</td>
<td>1.24 (31.5)</td>
</tr>
<tr>
<td></td>
<td>Soft, flexible, medical-grade PVC</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Note: MPC Series mates with Back-to-Back Adapters (page 9), Sanitary Series and SaniQuik™ (pages 12-15).
MPC/MPX Back-to-Back Adapters give end users the flexibility of connecting single-use systems that feature identical coupling connections at the end of their tubing. Combining both MPC and MPX couplings provides a reducing option for users who need to transition between tubing diameters ranging from 1/8” to 1/2”.

**FEATURES**
- Compatible with MPC and MPX Series inserts
- Tubing reduction option
- Ergonomic thumb latches
- ADFC-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 BSE/TSE requirements

### 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, ADFC
  - Polysulfone (amber tint), USP Class VI, ADFC
- **Thumb Latches:**
  - Polycarbonate (white), USP Class VI, ADFC
  - PVDF (white), USP Class VI, ADFC
- **O-rings:**
  - Silicone (clear), platinum-cured, USP Class VI, ADFC

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

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

### Back-To-Back Insert Adapters

- **POLYSULFONE**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TYPE</th>
<th>A (in)</th>
<th>B (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC22C2239M</td>
<td>MPC to MPC</td>
<td>0.74 (18.8)</td>
<td>2.04 (51.0)</td>
</tr>
<tr>
<td>MPC22X2239M</td>
<td>MPC to MPX</td>
<td>0.98 (25.0)</td>
<td>2.42 (61.5)</td>
</tr>
<tr>
<td>MPX22X2239M</td>
<td>MPX to MPX</td>
<td>0.98 (25.0)</td>
<td>2.73 (69.5)</td>
</tr>
</tbody>
</table>

### Back-To-Back Body Adapters

- **POLYCARBONATE**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TYPE</th>
<th>A (in)</th>
<th>B (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC17C1703</td>
<td>MPC to MPC</td>
<td>0.96 (24.5)</td>
<td>1.81 (46.0)</td>
</tr>
<tr>
<td>MPX17X1703</td>
<td>MPX to MPX</td>
<td>1.28 (32.5)</td>
<td>2.44 (62.0)</td>
</tr>
<tr>
<td>MPC17X1703</td>
<td>MPC to MPX</td>
<td>1.28 (32.5)</td>
<td>2.13 (54.1)</td>
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</tbody>
</table>

- **POLYSULFONE**

<table>
<thead>
<tr>
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<th>TYPE</th>
<th>A (in)</th>
<th>B (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC17C1739</td>
<td>MPC to MPC</td>
<td>0.96 (24.5)</td>
<td>1.81 (46.0)</td>
</tr>
<tr>
<td>MPX17X1739</td>
<td>MPX to MPX</td>
<td>1.28 (32.5)</td>
<td>2.44 (62.0)</td>
</tr>
<tr>
<td>MPC17X1739</td>
<td>MPC to MPX</td>
<td>1.28 (32.5)</td>
<td>2.13 (54.1)</td>
</tr>
</tbody>
</table>

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

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, E10, e-beam, or gamma
- Parting line-free hose barb
- ADCF-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 BSE/TSE requirements

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: PVDF (white), USP Class VI, ADCF
- Thumb Latches: Polycarbonate (white), USP Class VI, ADCF
  PVDF (white), 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)

**Warning:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer’s responsibility to test the suitability of CPC’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.

MPX Water Flow

![MPX Water Flow Graph]
### Coupling Bodies

**POLYCARBONATE**

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING</th>
<th>METRIC EQ.</th>
<th>FLOW</th>
<th>STRAIGHT THRU</th>
<th>A (mm)</th>
<th>B (mm)</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>
</tr>
<tr>
<td>IN-LINE HOSE BARB WITH LOCK</td>
<td>1/2&quot; ID</td>
<td>12.7mm ID</td>
<td>.50&quot;</td>
<td>MPXK17803</td>
<td>1.28</td>
<td>1.96</td>
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**POLYSULFONE**

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<tr>
<th>TERMINATION</th>
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<th>METRIC EQ.</th>
<th>FLOW</th>
<th>STRAIGHT THRU</th>
<th>A (mm)</th>
<th>B (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE HOSE BARB</td>
<td>1/2&quot; ID</td>
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<td>.50&quot;</td>
<td>MPX17839</td>
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<td>1.96</td>
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<tr>
<td>IN-LINE HOSE BARB WITH LOCK</td>
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<td>12.7mm ID</td>
<td>.50&quot;</td>
<td>MPXK17839</td>
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<td>1.96</td>
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</table>

### Coupling Inserts

**POLYCARBONATE**

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<th>METRIC EQ.</th>
<th>FLOW</th>
<th>STRAIGHT THRU</th>
<th>O-RING</th>
<th>A (mm)</th>
<th>B (mm)</th>
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</thead>
<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>
</tr>
<tr>
<td></td>
<td>1/2&quot; ID</td>
<td>12.7mm ID</td>
<td>.50&quot;</td>
<td>MPX22803M</td>
<td>Silicone Seal USP Class VI</td>
<td>.85</td>
<td>1.90</td>
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**POLYSULFONE**

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<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 (mm)</th>
<th>B (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE HOSE BARB</td>
<td>3/8&quot; ID</td>
<td>9.5mm ID</td>
<td>.38&quot;</td>
<td>MPX22639M</td>
<td>Silicone Seal USP Class VI</td>
<td>.85</td>
<td>1.90</td>
</tr>
<tr>
<td></td>
<td>1/2&quot; ID</td>
<td>12.7mm ID</td>
<td>.50&quot;</td>
<td>MPX22839M</td>
<td>Silicone Seal USP Class VI</td>
<td>.85</td>
<td>1.90</td>
</tr>
</tbody>
</table>

### Mating Parts

<table>
<thead>
<tr>
<th>SEALING CAP</th>
<th>MATERIAL</th>
<th>A (mm)</th>
<th>B (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPX2003</td>
<td>Polycarbonate</td>
<td>1.28</td>
<td>1.67</td>
</tr>
<tr>
<td>MPX2039</td>
<td>Polysulfone</td>
<td>1.28</td>
<td>1.67</td>
</tr>
</tbody>
</table>

Note: MPX Series mates with Back-to-Back Adapters (page 9), Sanitary Series and SaniQuik™ (pages 12-15).

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

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.

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, ADCF
Thumb Latches: PVDF (white), 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.

TERMINATION SIZES:
3/4”, 1” and 1-1/2” sanitary

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

Note: Mates with MPC and MPX bodies, inserts and sealing caps and plugs and Back-to-Back Adapters (pages 6-11).

FEATURES | BENEFITS
--- | ---
3/4”, 1” and 1-1/2” sanitary terminations | Install to equipment with sanitary gaskets and sanitary clamps
Compatible with MPC and MPX Series couplings | Quick and easy connections to industry standard plastic couplings on single-use bags and tube sets
Integral coupling adaptor | Provides flexibility to easily convert sanitary terminations on filter cartridge or equipment
ADCF-free materials | Meet BSE/TSE requirements
## SANITARY SERIES CONNECTOR DIMENSIONS

### Coupling Bodies • POLYSULFONE

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>SIZE</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC3301239</td>
<td>3/4&quot;</td>
<td>.98 (24.9)</td>
<td>1.40 (35.6)</td>
<td>1.00 (25.4)</td>
</tr>
<tr>
<td>MPX3301239</td>
<td>3/4&quot;</td>
<td>1.28 (32.5)</td>
<td>1.70 (43.2)</td>
<td>1.00 (25.4)</td>
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<tr>
<td>MPC3301639</td>
<td>1&quot;</td>
<td>1.50 (38.1)</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>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC44012T39M</td>
<td>3/4&quot;</td>
<td>.98 (24.9)</td>
<td>1.40 (35.6)</td>
<td></td>
</tr>
<tr>
<td>MPC44024T39M</td>
<td>1-1/2&quot;</td>
<td>1.98 (50.3)</td>
<td>1.40 (35.6)</td>
<td></td>
</tr>
<tr>
<td>MPX44012T39M</td>
<td>3/4&quot;</td>
<td>.98 (24.9)</td>
<td>1.71 (43.4)</td>
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</tr>
<tr>
<td>MPX44024T39M</td>
<td>1-1/2&quot;</td>
<td>1.98 (50.3)</td>
<td>1.71 (43.4)</td>
<td></td>
</tr>
</tbody>
</table>

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. Note: Sanitary couplings are compatible with both stainless steel and plastic clamps. Clamps and gaskets are referenced for illustration and are not available through CPC.
CPC’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 CPC disposable coupling bodies. SaniQuik connections reduce sanitary gasket replacement, enabling cost-effective media transfer solutions for feeding, harvesting or sampling applications.

### 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

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

### Note:
Mates with MPC and MPX bodies, inserts and sealing caps and plugs and Back-to-Back Adapters (pages 6-11).
**SANQUIK™ SERIES CONNECTOR DIMENSIONS**

**Connections • 316L STAINLESS**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MATING COUPLING</th>
<th>SANITARY SIZE</th>
<th>SANITARY BORE</th>
<th>A</th>
<th>B</th>
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<tbody>
<tr>
<td>SQCC221212M</td>
<td>MPC Series</td>
<td>3/4&quot;</td>
<td>3/4&quot;</td>
<td>.98&quot; (24.9)</td>
<td>1.39&quot; (35.3)</td>
</tr>
<tr>
<td>SQCC222424M</td>
<td>MPC Series</td>
<td>1-1/2&quot;</td>
<td>1-1/2&quot;</td>
<td>1.98&quot; (50.3)</td>
<td>1.50&quot; (38.1)</td>
</tr>
<tr>
<td>SQCX221212M</td>
<td>MPX Series</td>
<td>3/4&quot;</td>
<td>3/4&quot;</td>
<td>.98&quot; (24.9)</td>
<td>1.43&quot; (36.1)</td>
</tr>
<tr>
<td>SQCX222416M</td>
<td>MPX Series</td>
<td>1-1/2&quot;</td>
<td>1&quot;</td>
<td>1.98&quot; (50.3)</td>
<td>1.50&quot; (38.1)</td>
</tr>
<tr>
<td>SQCX222424M</td>
<td>MPX Series</td>
<td>1-1/2&quot;</td>
<td>1-1/2&quot;</td>
<td>1.98&quot; (50.3)</td>
<td>1.50&quot; (38.1)</td>
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</table>

**Accessories • SILICONE (CLEAR)**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MATING SANQUIK</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>2260100</td>
<td>SQCC221212M, SQCC222424M</td>
<td>PLATINUM-CURED</td>
</tr>
<tr>
<td>2260200</td>
<td>SQCX221212M, SQCX222416M, SQCX222424M</td>
<td>SILICONE SEAL</td>
</tr>
</tbody>
</table>

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

**NOTES:**
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
- ADCF-free materials

**Benefits**
- Facilitates rapid fill and empty of bioprocessing bags
- Guards against accidental disconnects
- Minimizes fluid turbulence and dead space
- Protect valuable fluids and eliminate potential to contaminate fluid path
- Meet BSE/TSE requirements

**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 un coupled only.

**Tubing Sizes:** 3/4” ID (19.0 mm)

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

These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each 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.
**MPU SERIES CONNECTOR DIMENSIONS**

A = Height/Diameter  
B = Total Length

---

### Coupling Bodies • POLYSULFONE

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>TUBING</th>
<th>METRIC EQ.</th>
<th>FLOW</th>
<th>STRAIGHT THRU</th>
<th>A (in)</th>
<th>B (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE HOSE BARB</td>
<td>3/4” ID</td>
<td>19.0mm ID</td>
<td>.71”</td>
<td>MPU171239</td>
<td>1.75 (44.5)</td>
<td>2.37 (60.2)</td>
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</tbody>
</table>

### Coupling Inserts • POLYSULFONE

<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 (in)</th>
<th>B (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE HOSE BARB</td>
<td>3/4” ID</td>
<td>19.0mm ID</td>
<td>.71”</td>
<td>MPU221239M</td>
<td>Silicone Seal USP Class VI</td>
<td>1.56 (39.6)</td>
<td>2.88 (73.2)</td>
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### Accessories • POLYSULFONE

<table>
<thead>
<tr>
<th>SEALING CAP</th>
<th>MATERIAL</th>
<th>A (in)</th>
<th>B (in)</th>
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<tbody>
<tr>
<td>MPU32039</td>
<td>Polysulfone USP Class VI</td>
<td>1.75 (44.5)</td>
<td>.79 (20.1)</td>
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<table>
<thead>
<tr>
<th>SEALING PLUG</th>
<th>MATERIAL</th>
<th>A (in)</th>
<th>B (in)</th>
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</thead>
<tbody>
<tr>
<td>MPU30039M</td>
<td>Silicone Seal</td>
<td>1.56 (39.6)</td>
<td>1.38 (35.1)</td>
</tr>
</tbody>
</table>

*All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.*
HFC39 SERIES CONNECTOR

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:
316L stainless steel

STERILIZATION:
Gamma: Up to 50 kGy 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.

TERMINATION SIZES:
1/4”, 3/8” and 1/2” ID hose barb
(6.4mm, 9.5mm and 12.7mm)

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.

FEATURES

Simple one-step disconnection
Automatic shutoff valves
CPC Click
Lightweight
ADCF-free materials

BENEFITS

Maintains media sterility in each half by preventing external organisms from entering the flow path
Stop flow and eliminate need for pinch clamps
Audible confirmation of secure connection
Easy integration with single-use assemblies
Meet BSE/TSE requirements

These graphs are 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.

HFC39 Water Flow

HFC39 Pressure Range
**HFC39 SERIES DIMENSIONS**

![Diagram of HFC39 series dimensions](image)

**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 (in)</th>
<th>B (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE HOSE BARB</td>
<td>1/4&quot; ID</td>
<td>6.4mm ID</td>
<td>1/4&quot;</td>
<td>HFCD17439M</td>
<td>1.44</td>
<td>2.82</td>
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<tr>
<td></td>
<td>3/8&quot; ID</td>
<td>9.5mm ID</td>
<td>3/8&quot;</td>
<td>HFCD17639M</td>
<td>1.44</td>
<td>2.82</td>
</tr>
<tr>
<td></td>
<td>1/2&quot; ID</td>
<td>12.5mm ID</td>
<td>3/8&quot;</td>
<td>HFCD17839M</td>
<td>1.44</td>
<td>2.82</td>
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</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 (in)</th>
<th>B (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE HOSE BARB</td>
<td>1/4&quot; ID</td>
<td>6.4mm ID</td>
<td>1/4&quot;</td>
<td>HFC22439M</td>
<td>HFC222439M</td>
<td>1.00</td>
<td>2.02</td>
</tr>
<tr>
<td></td>
<td>3/8&quot; ID</td>
<td>9.5mm ID</td>
<td>3/8&quot;</td>
<td>HFC22639M</td>
<td>HFC222639M</td>
<td>1.00</td>
<td>2.02</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>HFC222839M</td>
<td>1.00</td>
<td>2.02</td>
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**Mating Parts**

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<thead>
<tr>
<th>SEALING CAP</th>
<th>O-RING</th>
<th>MATERIAL</th>
<th>A (in)</th>
<th>B (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFC32039</td>
<td>Polysulfone</td>
<td>1.44 (36.6)</td>
<td>2.73 (69.3)</td>
<td></td>
</tr>
<tr>
<td>SEALING Plug</td>
<td>Silicone Seal USP Class VI</td>
<td>Polysulfone</td>
<td>1.00 (25.4)</td>
<td>1.81 (46.0)</td>
</tr>
</tbody>
</table>

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.

For validation reports, visit cpcworldwide.com/bio and for extractables data contact CPCBio@cpcworldwide.com
ASEPTIQUIK® S SERIES CONNECTORS

AseptiQuik® S Small Format Connectors provide quick and easy sterile connections for small-flow applications, even in non-sterile environments. The “FLIP-CLICK-PULL” design of AseptiQuik S enables users to easily transfer small volumes of media with less risk of operator error. The connector’s genderless and robust design provides reliable performance without the need for clamps, fixtures or tube welders. Biopharmaceutical manufacturers can now make 1/8”, 1/4” and 3/8” hose barb and 1/4” and 3/4” sanitary sterile connections with the quality and market availability they expect from the leader in single-use connection technology.

Specifications

<table>
<thead>
<tr>
<th>PRESSURE:</th>
<th>Up to 60 psi, 4.1 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEMPERATURE:</td>
<td>39°F to 104°F (4°C to 40°C)</td>
</tr>
<tr>
<td>STERILIZATION:</td>
<td>Gamma: Up to 50kGy irradiation</td>
</tr>
<tr>
<td>AutoClave High Temp (HT) Version:</td>
<td>Up to 266°F (130°C) for 60 minutes</td>
</tr>
<tr>
<td>TERMINATION SIZES:</td>
<td>1/8”, 1/4” and 3/8” ID hose barb (3.2mm, 6.4mm and 9.5mm), 1/4” and 3/4” sanitary and MPC insert</td>
</tr>
<tr>
<td>MATERIALS:</td>
<td>Main Components: Polycarbonate (white), USP Class VI, ADCF</td>
</tr>
<tr>
<td>Pull Tabs/Caps:</td>
<td>Polycarbonate (blue, standard version), USP Class VI, ADCF</td>
</tr>
<tr>
<td></td>
<td>Polycarbonate (white, HT version), USP Class VI, ADCF</td>
</tr>
<tr>
<td>Seals:</td>
<td>Silicone (clear), platinum-cured, USP Class VI, ADCF</td>
</tr>
<tr>
<td>Membrane:</td>
<td>Polyethylene (standard version), USP Class VI, ADCF</td>
</tr>
<tr>
<td></td>
<td>Hydrophobic polyethersulfone (HT version), USP Class VI, ADCF, PTFE strip sticker</td>
</tr>
</tbody>
</table>

FEATURES

| Genderless design | Eases single-use systems specifications with one part number for both halves |
| Robust construction | Repeatable and reliable performance with no additional hardware required |
| FLIP-CLICK-PULL | Intuitive three-step connection process reduces risk of operator error |
| Integrated pull tab covers | Provide pre-assembly protection and ensure simultaneous removal of both membranes |
| CPC Click | Audible confirmation of assembly with no additional hardware required |
| 1/4 sanitary termination with straight bore | Minimizes transitional flow disruptions throughout upstream processing |

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.
ASEPTIQUIK® S SERIES DIMENSIONS

Coupling Bodies

• POLYCARBONATE with Blue Pull Tabs

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PART NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot; HOSE BARB</td>
<td>AQS17002</td>
<td>2.25</td>
<td>1.30</td>
<td>0.50</td>
</tr>
<tr>
<td>1/4&quot; HOSE BARB</td>
<td>AQS17004</td>
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</tr>
<tr>
<td>1/4&quot; SANITARY</td>
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<td>2.25</td>
<td>1.50</td>
<td>0.70</td>
</tr>
<tr>
<td>3/8&quot; HOSE BARB</td>
<td>AQS17006</td>
<td>2.25</td>
<td>1.45</td>
<td>0.65</td>
</tr>
<tr>
<td>3/4&quot; SANITARY</td>
<td>AQS33012</td>
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<td>MPC INSERT</td>
<td>AQS17MPC</td>
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<td>1.49</td>
<td>0.69</td>
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• POLYCARBONATE HT with White Pull Tabs

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PART NO.</th>
<th>A</th>
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<th>C</th>
</tr>
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<tbody>
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</tr>
<tr>
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<td>2.25</td>
<td>1.45</td>
<td>0.65</td>
</tr>
<tr>
<td>1/4&quot; SANITARY</td>
<td>AQS33004HT</td>
<td>2.25</td>
<td>1.50</td>
<td>0.70</td>
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<tr>
<td>3/8&quot; HOSE BARB</td>
<td>AQS17006HT</td>
<td>2.25</td>
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<tr>
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<td>1.60</td>
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<td>MPC INSERT</td>
<td>AQS17MPCHT</td>
<td>2.25</td>
<td>1.49</td>
<td>0.69</td>
</tr>
</tbody>
</table>

For validation reports, visit cpcworldwide.com/bio and for extractables data, contact CPCBio@cpcworldwide.com

FLIP-CCLICK-PULL Assembly Procedure

1. Unsnap and flip down the protective pull tab covers on each connector half.

2. Align the connector halves with the pull tabs hanging down. Slide the two halves together. Independently squeeze each side of the connector until you hear an audible "CPC Click."

3. To complete the connection, simply snap the pull tabs together by pushing on the CPC logos and pull the membranes from the connector.

Confidence at every point of connection. 21
Genderless AseptiQuik® G Connectors enable quick and easy sterile connections, even in non-sterile environments. The easy-to-use genderless design simplifies system integration and minimizes the risk of operator error. The connectors’ robust construction provides enhanced user confidence and reliable performance without the need for clamps, fixtures or tube welders. Biopharmaceutical manufacturers benefit from a full range of interchangeable 1/4" to 1-1/2" flow solutions with the quality and market availability they expect from the leader in single-use connection technology.

**FEATURES**

- Genderless design
- Robust construction
- FLIP-CLICK-PULL
- Integrated pull tab covers
- CPC Click

**BENEFITS**

- Eases integration of single-use systems with one part number for both halves
- Repeatable and reliable performance with no additional hardware required
- Innovative three-step connection process reduces risk of operator error
- Pull tabs act as protective cover reducing part complexity and ensure simultaneous removal of both membranes
- Audible confirmation of assembly

**Specifications**

**PRESSURE:**
- Up to 60 psi, 4.1 bar
- Up to 75 psi, 5.1 bar for 48 hours

**TEMPERATURE:**
- 34°F to 104°F (1°C to 40°C)

**STERILIZATION:**
- Gamma: Up to 50kGy irradiation
- Autoclave High Temp (HT) Version: Up to 266°F (130°C) for 60 minutes

**TERMINATION SIZES:**
- 1/4", 3/8", 1/2", 3/4" ID hose barb (6.4mm, 9.5mm, 12.7mm, 19.0mm) and 3/4", 1-1/2" sanitary

**MATERIALS:**

- **Main Components:** Polycarbonate (white), USP Class VI, ADCF
- **Pull Tabs/Caps:** Polycarbonate (blue, standard version), USP Class VI, ADCF; Polycarbonate (white, HT version), 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, ADCF, PTFE strip sticker
ASEPTIQUIK® G SERIES DIMENSIONS

**Coupling Bodies**

- **POLYCARBONATE** with Blue Pull Tabs

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PART NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; HOSE BARB</td>
<td>AQG17004</td>
<td>2.62</td>
<td>1.62</td>
<td>0.82</td>
</tr>
<tr>
<td>3/8&quot; HOSE BARB</td>
<td>AQG17006</td>
<td>2.62</td>
<td>1.62</td>
<td>0.82</td>
</tr>
<tr>
<td>1/2&quot; HOSE BARB</td>
<td>AQG17008</td>
<td>2.62</td>
<td>1.95</td>
<td>1.15</td>
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<tr>
<td>3/4&quot; HOSE BARB</td>
<td>AQG17012</td>
<td>2.36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4&quot; SANITARY</td>
<td>AQG33012</td>
<td>1.66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-1/2&quot; SANITARY</td>
<td>AQG33024</td>
<td>2.86</td>
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</table>

- **POLYCARBONATE HT with White Pull Tabs**

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PART NO.</th>
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<th>B</th>
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<tbody>
<tr>
<td>1/4&quot; HOSE BARB</td>
<td>AQG17004HT</td>
<td>2.62</td>
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<td>0.82</td>
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<tr>
<td>3/8&quot; HOSE BARB</td>
<td>AQG17006HT</td>
<td>2.62</td>
<td>1.62</td>
<td>0.82</td>
</tr>
<tr>
<td>1/2&quot; HOSE BARB</td>
<td>AQG17008HT</td>
<td>2.62</td>
<td>1.95</td>
<td>1.15</td>
</tr>
<tr>
<td>3/4&quot; HOSE BARB</td>
<td>AQG17012HT</td>
<td>2.36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4&quot; SANITARY</td>
<td>AQG33012HT</td>
<td>1.66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-1/2&quot; SANITARY</td>
<td>AQG33024HT</td>
<td>2.86</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Validation reports are available at cpcworldwide.com/bio.

**FLIP-CLICK-PULL Assembly Procedure**

1. Unsnap and flip down the protective pull tab covers on each connector half.
2. Align the connector halves with the pull tabs hanging down. Slide the two halves together. Independently squeeze each side of the connector until you hear an audible “CPC Click.”
3. To complete the connection, simply snap the pull tabs together by pushing on the CPC logos and pull the membranes from the connector.
**AseptiQuik® C 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.

### FEATURES

- **CLICK-PULL-TWIST design**
  - Intuitive three-step connection process reduces risk of operator error
- **Membrane pull tabs**
  - Ensure simultaneous and secure removal of both membranes
- **Robust construction**
  - Repeatable and reliable performance with no additional hardware required
- **Integrated lock ring**
  - Secures final connection preventing disassembly
- **CPC Click**
  - Audible confirmation of completed assembly steps
- **Market availability**
  - Open access through multiple supply chain partners

### BENEFITS

- **Market availability**
  - Open access through multiple supply chain partners

### SPECIFICATIONS

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

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

**TYPICAL FLOW RATE:**
Cv = 14.4 max

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

**TERMINATION SIZES:**
- 3/8" (9.5mm) and 1/2" (12.7mm) ID hose barb
- 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, ADCF

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.
### ASEPTIQUIK® C SERIES DIMENSIONS

**A** = Height/Diameter  
**B** = Total Length  
**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>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>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>3/4&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 HT** 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>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>1/2&quot; HOSE BARB</td>
<td>AQC17008HT</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>3/4&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>
</tr>
</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>
</tr>
</thead>
<tbody>
<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>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>
</tr>
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<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>
</tr>
</tbody>
</table>

- **POLYCARBONATE HT** 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>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>
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<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>
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<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>

#### CLICK-PULL-TWIST Assembly Procedure

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

2. **SNAP**  
   Snap membrane pull tabs together and pull from connector.

3. **TWIST**  
   Twist the blue lock ring clock-wise until “CPC Click” and rib to arrow alignment confirms secure final connection.
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.

### 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

**TERMINATION SIZES:**
1/4", 3/8” and 1/2” ID hose barb (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, ADCF
- **Springs:** 316L stainless steel

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**Features**

**Click-Pull-Twist Design**
Intuitive three-step connection process reduces risk of operator error

**Simple One-Step Disconnection**
Maintains media sterility in each half by preventing external organisms from entering the flow path

**Membrane Pull Tabs**
Ensure simultaneous and secure removal of both membranes

**Robust Construction**
Repeatable and reliable performance with no additional hardware required

**CPC Click**
Audible confirmation of completed assembly steps

**Market Availability**
Open access through multiple supply chain partners

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**Benefits**

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.
ASEPTIQUIK® DC SERIES DIMENSIONS

**Coupling Bodies • POLYCARBONATE**

<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 (59.9)</td>
<td>5.33 (135.4)</td>
<td>0.60 (15.2)</td>
</tr>
<tr>
<td>3/8&quot; HOSE BARB</td>
<td>AQCDC17006</td>
<td>3/8&quot;</td>
<td>2.36 (59.9)</td>
<td>5.33 (135.4)</td>
<td>0.60 (15.2)</td>
</tr>
<tr>
<td>1/2&quot; HOSE BARB</td>
<td>AQCDC17008</td>
<td>3/8&quot;</td>
<td>2.36 (59.9)</td>
<td>5.62 (142.7)</td>
<td>0.89 (22.6)</td>
</tr>
</tbody>
</table>

**Coupling Inserts • POLYCARBONATE**

<table>
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<th>TERMINATION</th>
<th>PART NO.</th>
<th>FLOW</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<td>2.50 (63.5)</td>
<td>5.41 (137.4)</td>
<td>0.60 (15.2)</td>
</tr>
<tr>
<td>1/2&quot; HOSE BARB</td>
<td>AQCDC22008</td>
<td>3/8&quot;</td>
<td>2.50 (63.5)</td>
<td>5.70 (144.8)</td>
<td>0.89 (22.6)</td>
</tr>
</tbody>
</table>

**CLICK-PULL-TWIST Assembly Procedure**

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

2. Snap membrane pull tabs together and pull from connector.

3. Twist the blue lock ring clock-wise until “CPC Click” and rib to arrow alignment confirms secure final connection.

**To Disconnect**

When fluid transfer is finished, press the thumb latch down to complete the sterile disconnection. Both halves will remain sterile.
ASEPTIQUIK® X SERIES CONNECTORS

AseptiQuik® X Large Format 1" Connectors provide quick and easy sterile connections for high flow applications, even in non-sterile environments. AseptiQuik X’s "TWIST-PULL-TWIST" design enables users to quickly transfer large volumes of 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 now make 1" 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) |
| **STERILIZATION:** | Gamma: Up to 50kGy irradiation  
Autoclave High Temp (HT) Version: Up to 266°F (130°C) for 30 minutes |
| **TERMINATION SIZES:** | 3/4" and 1" ID hose barb (19.0mm and 25.4mm), 1-1/2" 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, ADCF, PTFE strip sticker |

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**AseptiQuik X Large Format 1" Connectors**

**FEATURES**

- TWIST-PULL-TWIST Design  
  - Intuitive three-step connection process reduces risk of operator error
- Membrane pull tabs  
  - Ensure simultaneous and secure removal of both membranes
- Robust construction  
  - Repeatable and reliable performance with no additional hardware required
- Integrated lock ring  
  - Secures final connection preventing disassembly
- CPC Click  
  - Audible confirmation of completed assembly steps

**BENEFITS**

- **Features**  
  - intuitive three-step connection process reduces risk of operator error
- **Benefits**  
  - ensure simultaneous and secure removal of both membranes
- **Robust construction**  
  - repeatable and reliable performance with no additional hardware required
- **Integrated lock ring**  
  - secures final connection preventing disassembly
- **CPC Click**  
  - audible confirmation of completed assembly steps

---

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.
ASEPTIQUIK® X SERIES DIMENSIONS

**Coupling Bodies**

- **POLYCARBONATE** with Blue Pull Tabs

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PART NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; HOSE BARB</td>
<td>AQX17012</td>
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<td>1&quot; HOSE BARB</td>
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<td>AQX33024</td>
<td>3.54</td>
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<tr>
<td>3/4&quot; HOSE BARB</td>
<td>AQX17012HT</td>
<td>3.54</td>
<td>3.93</td>
<td>1.50</td>
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<tr>
<td>1&quot; HOSE BARB</td>
<td>AQX17016HT</td>
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<td>4.04</td>
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<td>1-1/2&quot; SANITARY</td>
<td>AQX33024HT</td>
<td>3.54</td>
<td>4.18</td>
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- **POLYCARBONATE HT** with White Pull Tabs

<table>
<thead>
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<th>TERMINATION</th>
<th>PART NO.</th>
<th>A</th>
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</tr>
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<tr>
<td>3/4&quot; HOSE BARB</td>
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<td>1-1/2&quot; SANITARY</td>
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<table>
<thead>
<tr>
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<td>1&quot; HOSE BARB</td>
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<td>4.45</td>
<td>1.53</td>
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<tr>
<td>1-1/2&quot; SANITARY</td>
<td>AQX44024HT</td>
<td>3.76</td>
<td>4.58</td>
<td>1.74</td>
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**Coupling Inserts**

- **POLYCARBONATE** with Blue Pull Tabs

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PART NO.</th>
<th>A</th>
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<tr>
<td>3/4&quot; HOSE BARB</td>
<td>AQX22012</td>
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<td>1&quot; HOSE BARB</td>
<td>AQX22016</td>
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<tr>
<td>1-1/2&quot; SANITARY</td>
<td>AQX44024</td>
<td>3.76</td>
<td>4.58</td>
<td>1.74</td>
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<tr>
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<th>B</th>
<th>C</th>
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<tbody>
<tr>
<td>3/4&quot; HOSE BARB</td>
<td>AQX22012HT</td>
<td>3.76</td>
<td>4.34</td>
<td>1.50</td>
</tr>
<tr>
<td>1&quot; HOSE BARB</td>
<td>AQX22016HT</td>
<td>3.76</td>
<td>4.45</td>
<td>1.53</td>
</tr>
<tr>
<td>1-1/2&quot; SANITARY</td>
<td>AQX44024HT</td>
<td>3.76</td>
<td>4.58</td>
<td>1.74</td>
</tr>
</tbody>
</table>

**TWIST-PULL-TWIST Assembly Procedure**

1. Align male and female connectors using the START alignment feature of the blue lock ring with the rib indicator of the white body. Insert the two halves together.

2. Twist the blue lock ring clockwise (approximately 75°) until audible “CPC Click” is heard. Alignment of the small blue lock ring rib indicator with the white body’s rib indicator confirms final rotation is complete.

3. Snap the membrane pull tabs together and pull from connector.

4. Twist the blue lock ring clockwise until the final audible “CPC Click” is heard (90° from the initial starting point). Alignment of the long blue lock ring rib indicator with the white body’s rib indicator confirms initial rotation is complete.

Confidence at every point of connection.
STEAM-THRU® SERIES CONNECTOR

Steam-Thru Connections allow a quick and easy sterile connection between stainless steel 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.

**FEATURES**

Innovative three-port design
Patented valve design
Thumb latch/Tear-away sleeve
3/4” and 1-1/2” Terminations
ADCF-free materials

**BENEFITS**

Allows a true steam-through SIP process which eliminates “dead legs” and the need for laminar flow hoods
Allows sterile connection and disconnection and permits high media flow rate
Secures valve position, provides visual indicator of process stage
Easily connects to process equipment
Meet BSE/TSE requirements

**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 (amber tint), 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

**TYPICAL FLOW RATE:**

\[ C_1 = 4.2 - 4.6 \text{ (Steam-Thru)} \]
\[ C_2 = 5.2 - 8.0 \text{ (Steam-Thru II)} \]

**STERILIZATION:**
Gamma: Up to 50 kGy irradiation
Autoclave: Up to 265°F (129°C) for 60 minutes, up to two cycles (applies only to part numbers STC17000500-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” (9.5mm) to 1/2” (12.7mm) ID hose barb (Steam-Thru)
3/8” (9.5mm) to 1/2” (12.7mm) ID hose barb and 3/4” sanitary (Steam-Thru II)

These graphs are 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.
STEAM-THRU SERIES DIMENSIONS

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.

Coupling Bodies • POLYSULFONE

<table>
<thead>
<tr>
<th>DESCRIPTION WITH AUTOCLAVABLE POLYCARBONATE SLEEVE</th>
<th>PART NO.</th>
<th>TERMINATIONS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>STC1700000 3/4” x 3/4” sanitary x 1/2” HB</td>
<td>1.20 (30.5)</td>
<td>5.09 (129.3)</td>
<td>4.44 (112.8)</td>
<td>2.00 (50.8)</td>
<td>0.89 (22.6)</td>
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<tr>
<td>STC1700100 3/4” x 3/4” sanitary x 3/8” HB</td>
<td>1.20 (30.5)</td>
<td>4.80 (121.9)</td>
<td>4.15 (105.4)</td>
<td>2.00 (50.8)</td>
<td>0.89 (22.6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STC1700200 3/4” x 1-1/2” sanitary x 1/2” HB</td>
<td>1.20 (30.5)</td>
<td>5.09 (129.3)</td>
<td>4.44 (112.8)</td>
<td>2.00 (50.8)</td>
<td>0.89 (22.6)</td>
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<tr>
<td>STC1700300 3/4” x 1-1/2” sanitary x 3/8” HB</td>
<td>1.20 (30.5)</td>
<td>4.80 (121.9)</td>
<td>4.15 (105.4)</td>
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<td>STC1700500 3/4” x 3/4” sanitary x 1/2” HB</td>
<td>1.20 (30.5)</td>
<td>5.09 (129.3)</td>
<td>4.44 (112.8)</td>
<td>2.00 (50.8)</td>
<td>0.89 (22.6)</td>
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<tr>
<td>STC1700600 3/4” x 3/4” sanitary x 3/8” HB</td>
<td>1.20 (30.5)</td>
<td>4.80 (121.9)</td>
<td>4.15 (105.4)</td>
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<tr>
<td>STC1700700 3/4” x 1-1/2” sanitary x 1/2” HB</td>
<td>1.20 (30.5)</td>
<td>5.09 (129.3)</td>
<td>4.44 (112.8)</td>
<td>2.00 (50.8)</td>
<td>0.89 (22.6)</td>
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<tr>
<td>STC1700800 3/4” x 1-1/2” sanitary x 3/8” HB</td>
<td>1.20 (30.5)</td>
<td>4.80 (121.9)</td>
<td>4.15 (105.4)</td>
<td>2.00 (50.8)</td>
<td>0.89 (22.6)</td>
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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.

Coupling Bodies • POLYSULFONE

<table>
<thead>
<tr>
<th>DESCRIPTION WITH POLYCARBONATE SLEEVE</th>
<th>PART NO.</th>
<th>TERMINATIONS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
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<tbody>
<tr>
<td>STC2020000 3/4” x 3/4” sanitary x 1/2” HB</td>
<td>1.42 (36.1)</td>
<td>6.84 (173.7)</td>
<td>5.93 (150.6)</td>
<td>2.40 (61.0)</td>
<td>.88 (22.4)</td>
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<tr>
<td>STC2020100 3/4” x 3/4” sanitary x 3/8” HB</td>
<td>1.42 (36.1)</td>
<td>6.76 (171.7)</td>
<td>5.93 (150.6)</td>
<td>2.40 (61.0)</td>
<td>.80 (20.3)</td>
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<tr>
<td>STC2020200 3/4” x 1-1/2” sanitary x 1/2” HB</td>
<td>1.42 (36.1)</td>
<td>6.84 (173.7)</td>
<td>5.93 (150.6)</td>
<td>2.40 (61.0)</td>
<td>.88 (22.4)</td>
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<td>STC2020300 3/4” x 1-1/2” sanitary x 3/8” HB</td>
<td>1.42 (36.1)</td>
<td>6.76 (171.7)</td>
<td>5.93 (150.6)</td>
<td>2.40 (61.0)</td>
<td>.80 (20.3)</td>
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<tr>
<td>STC2020900 3/4” x 3/4” sanitary x 3/4” sanitary</td>
<td>1.42 (36.1)</td>
<td>6.60 (167.6)</td>
<td>5.93 (150.6)</td>
<td>2.40 (61.0)</td>
<td>.62 (15.7)</td>
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<tr>
<td>STC2021000 3/4” x 1-1/2” sanitary x 3/4” sanitary</td>
<td>1.42 (36.1)</td>
<td>6.60 (167.6)</td>
<td>5.93 (150.6)</td>
<td>2.40 (61.0)</td>
<td>.62 (15.7)</td>
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</table>

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.
AseptiQuik® STC Connectors integrate the AseptiQuik® sterile connector and the Steam-Thru® II SIP connection, giving manufacturers even greater flexibility for hybrid stainless steel and single-use processing. The AseptiQuik STC connector combines either an AseptiQuik G or AseptiQuik C sterile connector with a Steam-Thru II connection that can be mounted directly to a stainless steel vessel via a sanitary termination. AseptiQuik STC connectors utilizing an AseptiQuik G sterile connector offer a genderless design, simplifying system integration at the aseptic connector end. AseptiQuik STC connectors utilizing an AseptiQuik C sterile connector allow system designers to incorporate a keyed female-to-male connection at the aseptic connector end.

The union of the two connectors into a single unit through a sanitary clamp allows an AseptiQuik sterile connection to be steam-cleaned 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 harvest.

### Specifications

**PRESSURE:**
- Steam position: Up to 35 psi, 2.4 bar
- Flow position: Up to 20 psi, 1.4 bar

**TEMPERATURE:**
- Steam position: Up to 275°F (135°C) for 60 minutes
- Flow position: 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 (AQSTC)
  - Up to 266°F (130°C) for 60 minutes (AQGSTC)

**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: Polycarbonate (blue, standard version), USP Class VI, ADCF
- Poly carbonate (white, HT version), USP Class VI, ADCF
- Caps: Polypropylene (clear), USP Class VI, ADCF
- Membrane: Polyethylene (standard version), USP Class VI, ADCF
- Hydrophobic polyethersulfone (HT versions), USP Class VI, ADCF, PTFE strip sticker
- Clamp: Nylon 66 (white), USP Class VI

### FEATURES

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
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<tbody>
<tr>
<td>AseptiQuik design</td>
<td>Innovative three-step connection process reduces risk of operator error</td>
</tr>
<tr>
<td>Genderless design</td>
<td>Eases integration of single-use systems with universal mating between AseptiQuik G Connectors</td>
</tr>
<tr>
<td>Innovative three-port steam design</td>
<td>Allows a true steam-through SIP process which eliminates &quot;dead legs&quot;</td>
</tr>
<tr>
<td>Robust construction</td>
<td>Repeatable and reliable performance with no additional hardware required</td>
</tr>
<tr>
<td>Patented steam valve design</td>
<td>Allows sterile connection and disconnection to stainless equipment and permits a high media flow rate.</td>
</tr>
<tr>
<td>Sanitary interface between the two connectors</td>
<td>More secure connection than tubing with cable ties</td>
</tr>
<tr>
<td>CPC Click</td>
<td>Audible confirmation of assembly steps</td>
</tr>
<tr>
<td>Market availability</td>
<td>Open access through multiple supply chain partners</td>
</tr>
</tbody>
</table>

**Note:** Mates with gendered and genderless AseptiQuik connectors.
ASEPTIQUIK® STC SERIES DIMENSIONS

**Coupling Bodies**

- **POLYCARBONATE** with Blue Pull Tabs
  - **TERMINATION**
    - 3/4” X 3/4” SANITARY STEAM-THRU II with ASEPTIQUIK BODY
    - **PART NO.** AQSTC2330900
      - A = 2.78 (70.6 mm)
      - B = 9.25 (235 mm)
      - C = 8.42 (213.9 mm)
  - **TERMINATION**
    - 3/4” X 1-1/2” SANITARY STEAM-THRU II with ASEPTIQUIK BODY (PICTURED)
    - **PART NO.** AQSTC2341000
      - A = 2.78 (70.6 mm)
      - B = 9.25 (235 mm)
      - C = 8.42 (213.9 mm)

- **POLYCARBONATE** HT with White Pull Tabs
  - **TERMINATION**
    - 3/4” X 3/4” SANITARY STEAM-THRU II with ASEPTIQUIK BODY (PICTURED)
    - **PART NO.** AQSTC2330900HT
      - A = 2.78 (70.6 mm)
      - B = 9.25 (235 mm)
      - C = 8.42 (213.9 mm)
  - **TERMINATION**
    - 3/4” X 1-1/2” SANITARY STEAM-THRU II with ASEPTIQUIK BODY
    - **PART NO.** AQSTC2341000HT
      - A = 2.78 (70.6 mm)
      - B = 9.25 (235 mm)
      - C = 8.42 (213.9 mm)

ASEPTIQUIK® G STC SERIES DIMENSIONS

**Coupling Bodies**

- **POLYCARBONATE** with Blue Pull Tabs
  - **TERMINATION**
    - 3/4” X 3/4” SANITARY STEAM-THRU II with GENDERLESS ASEPTIQUIK G BODY
    - **PART NO.** AQGSTC2330900
      - A = 3.05
      - B = 8.26
      - C = 7.36
  - **TERMINATION**
    - 3/4” X 1-1/2” SANITARY STEAM-THRU II with GENDERLESS ASEPTIQUIK G BODY
    - **PART NO.** AQGSTC2331000
      - A = 3.05
      - B = 8.26
      - C = 7.36

- **POLYCARBONATE** HT with White Pull Tabs
  - **TERMINATION**
    - 3/4” X 3/4” SANITARY STEAM-THRU II with GENDERLESS ASEPTIQUIK G BODY
    - **PART NO.** AQGSTC2330900HT
      - A = 3.05
      - B = 8.26
      - C = 7.36
  - **TERMINATION**
    - 3/4” X 1-1/2” SANITARY STEAM-THRU II with GENDERLESS ASEPTIQUIK G BODY
    - **PART NO.** AQGSTC2331000HT
      - A = 3.05
      - B = 8.26
      - C = 7.36

Mates with gendered male and female AseptiQuik Series.

Mates with genderless AseptiQuik G Series.

Confidence at every point of connection.
With the valve locked securely into the steam position, complete a second SIP cycle to “steam off” the connection.

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

Once sterile media transfer is complete, simply press the thumb latch and pull the valve back into the steam position. The “CPC Click” confirms the transition is complete.
ASEPTIQUIK® G STC SERIES ASSEMBLY PROCEDURE

FLIP-CLICK-PULL Assembly Procedure

1. Steam flows from the process equipment through the Steam-Thru II in a steam trap creating a “steam on” sterile connection.

2. Unsnap and flip down the protective pull tab covers on each genderless AseptiQuik G connector half.

3. Align genderless AseptiQuik G couplings, push together until “CPC Click” confirmation.

4. Pull the snapped-together membrane pull tabs from the connector. Remove the Steam-Thru II lock sleeve.

5. Once the genderless AseptiQuik G assembly is complete and the steam trap has been closed, simply press the thumb latch to allow the valve to be pushed into the flow position. The “CPC Click” confirms the transition is complete.

6. Once the valve is locked into the flow position, you are ready for sterile fluid transfer to or from the process equipment.

7. After sterile media transfer is complete, simply press the thumb latch and pull the valve back into the steam position. The “CPC Click” confirms the transition is complete.

8. With the valve locked securely into the steam position, complete a second SIP cycle to “steam off” the connection.
REGULATORY AND COMPLIANCE

ISO 13485:2016 Certification
ISO 13485:2016 is recognized by regulators around the world as a good basis for addressing medical device design and manufacturing regulatory requirements. It allows us to enhance product safety by proactively identifying and managing product and project risks. Becoming ISO 13485:2016 certified has allowed us to better control the consistency of manufactured products.

ISO 9001:2015 Certification
ISO 9001:2015 is a standard which assures consistency of a product ordered by customers. Organizations having ISO 9001:2015 certification have demonstrated compliance to the ISO 9001:2015 requirements by an independent registration authority. CPC’s Quality Management System has been approved and certified under the ISO 9001:2015 standard.

Cleanroom Manufacturing
CPC manufactures certain Life Sciences and Chemical Management product lines in a cleanroom certified by an external testing service to meet or exceed ISO Class 7 (10,000) at 0.5 mm per ISO 14644 and the former Federal Standard 209E. Certification data is available upon request.

Animal Derived Component Free (ADCF)
According to declarations from CPC’s raw material suppliers, the materials used to manufacture the flow path components of the biopharmaceutical product lines do not contain substances of animal origin.

FDA and USDA
The U.S. Food and Drug Administration publishes, through the Code of Federal Regulations, standardized criteria which govern the acceptability of materials used in food contact. The U.S. Department of Agriculture publishes similar standards that mirror FDA criteria. Neither agency approves or disapproves products for particular applications. Most of CPC’s products are made using resins that comply with applicable FDA or USDA standards. When necessary, the standard o-ring seals are replaced with specific, recognized materials.

REACH
REACH is the Regulation for Registration, Evaluation, Authorisation and Restriction of Chemicals. It entered into force on 1st June 2007 to streamline and improve the former legislative framework on chemicals of the European Union (EU). REACH places greater responsibility on industry to manage the risks that chemicals may pose to the health and the environment. CPC publishes a list of CPC products that are compliant with the EU regulation 1907/2006.

Regulation of Hazardous Substances
The RoHS Directive stands for "the restriction of the use of certain hazardous substances in electrical and electronic equipment." This Directive bans the placing on the EU market of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.
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