CONNECTION SOLUTIONS FOR
BIOPHARMACEUTICAL
PROCESSES
WE INSPIRE 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 biopharmaceutical market. CPC offers a wide variety of solutions including sterile connect, sterile disconnect, SIP connections and open 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 bioprocessing equipment.

Easy to use and robust 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 chains. CPC makes peoples’ lives better by developing innovative high-quality products that make media transfer safe and easy.

QUALITY

At CPC, everyone is involved in meeting or exceeding our customers’ expectations 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 and ISO 13485 standards. Products for biopharmaceutical applications are manufactured in our two ISO Class 7 certified cleanrooms.

Learn more about our cleanrooms and quality control processes at: cpcworldwide.com/resources-support/quality-compliance

EXPERIENCE

CPC is the leading provider of quick connect couplings, fittings, disconnects and combination connectors used in fluid transfer. We innovate, engineer and manufacture fit-for-purpose products in close collaboration with our customers.

Founded in Minnesota in 1978, CPC has built a successful, growing company by focusing exclusively on critical points of connection within fluid management systems. CPC’s reach is global with operations in the US, Germany and China, sales offices in ten countries and hundreds of distributor partners and OEM solution providers around the world.

CPC’s biophasma team includes an innovative research and development group solely focused on creating the next generation of single-use technologies, with dedicated product managers, technical specialists, quality engineers and test lab expertise.

Our single-use and closed systems connectors empower our customers’ solutions to be safer, more efficient and reliable. CPC biopharma experts provide media handling expertise for our customers as well as to the industry. These resources include:

- Channel Management Team – supporting our OEM and integrator partners.
- Applications Development Team – serving as consultants to our end user customers.
- Customer Fulfillment and Inside Sales Teams – serving our channels and end customers.

CPC offers application and operator training designed to provide guidance on where and how single-use technology can be used or optimized in the manufacturing process. For more details visit cpcworldwide.com/training.

SUPPLY CHAIN

With a commercial model designed to be market neutral, CPC is committed to offering consistent pricing programs, common delivery lead times and product availability information to all customers. Our market neutrality ensures that CPC retains supply chain integrity, ensures accountability and upholds our reputation as a world-class organization.

Additionally, as part of CPC’s commitment to meeting the needs of biopharma customers, our products are produced in multiple cleanroom manufacturing facilities. This redundancy is designed to maintain product availability, manufacturing efficiency and reliability of manufacturing processes.
ONLINE RESOURCES

Visit cpcworldwide.com/bio for answers to your questions about our company and products.

VALIDATION TEST REPORTS
Validation test reports provide details of all the testing that has been performed on the product to ensure confidence at every point of connection. Extractables data can also be requested.

PRODUCT VIDEOS
Check out some of the latest innovations, technologies, and product tutorials in our CPC biopharma videos. Our videos library contains instructions on how to assemble CPC connectors as well as best practices and tips to ensure you get the most out of every connection.

APPLICATION ARTICLES
CPC’s industry experts share their knowledge on specific biopharmaceutical applications and how single-use technologies have helped our customers improve production.

CAD MODELS
See our connectors from all angles, anytime, anywhere. Get immediate access to 2D drawings and 3D models for use in your manufacturing process diagrams or to fit your specific needs. Simply register on our site to download CAD models in many different file formats.

REGULATORY & COMPLIANCE DOCUMENTS
CPC follows strict regulatory compliance standards to ensure the quality of our supply of our products. The materials used in our broad portfolio of products are compliant with various regulatory bodies including NSF, RoHs, REACH and more. Download the documents you require to meet regulatory and compliance standards.

ASK OUR ENGINEERS
We’re here to help. When you have questions, CPC’s team of expert engineers has answers. From flow rates to material compatibility and more, we specialize in providing media fluid connection solutions to meet the requirements of your most complex biopharma applications. Looking for something more specific to your needs, reach out to one of our industry experts with a specific question.

VISIT CPCWORLDWIDE.COM/BIO

REGULATORY AND COMPLIANCE

ISO 13485 CERTIFICATION
ISO 13485 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. Our quality management system is ISO 13485 certified, which allows us to better control the consistency of manufactured products.

ISO 9001 CERTIFICATION
ISO 9001 is a standard which assures consistency of a product ordered by customers. Organizations having ISO 9001 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 standard.

CLEANROOM MANUFACTURING
CPC manufactures certain Life Sciences and Chemical Management product lines in cleanrooms certified by an external testing service to meet or exceed ISO Class 7 at 0.5 mm per ISO 14644. 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
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.

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.

RESTRICTION OF HAZARDOUS SUBSTANCES (ROHS)
This directive bans 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.
UNDERSTANDING SINGLE-USE SYSTEMS
Increasing global demand for new biologics, vaccines and cell therapies is driving manufacturers to replace traditional stainless equipment with single-use systems, which consist of plastic-based processing equipment used in the development and production of biopharmaceutical drugs.

BENEFITS OF SINGLE-USE
Operational Efficiencies
- Increases flexibility and faster batch turnaround.

Cost Effectiveness
- Minimizes cleaning and validation requirements.

Economic Advantages
- Reduces capital expenditures and facility footprints.

Safety and Quality
- Improves sterility assurance while decreasing the risk of cross-contamination and product loss.

Flexibility
- Facilitates multi-drug production and fast product changeover.

Sustainability
- 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.
UNDERSTANDING THE BIOPHARMACEUTICAL MANUFACTURING PROCESS

Single-use bioprocessing is designed to be flexible, efficient, and effective in the manufacture of drug substances, monoclonal antibodies, vaccines, biosimilars and regenerative medicines. The process is split into two main sections, upstream and downstream.

Along with growing the cell line, the purpose of the upstream process is to scale-up the volume of the target protein or cell from volumes as small as a vial to bioreactors that can be as large as 5,000L.

Once the target specimen has reached a target yield, it turns the corner towards the downstream process. The goal of the downstream line is to clarify, purify and filter the target. Reaching this goal is done with processes such as clarification, viral inactivation, chromatography and various types of filtration. The final step is fill and finish, where the target cell has been grown and purified to the point where it can be used for filling syringes or other devices to give to a patient to start their healing process.
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18 ASEQTIQUIK® S SERIES CONNECTORS: Sterile connection for your 1/4" flow applications
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20 ASEQTIQUIK® G SERIES CONNECTORS: Sterile connection for your 1/2" flow applications
MATERIAL: Polycarbonate, silicone, polysulfone
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22 ASEQTIQUIK® L SERIES CONNECTORS: Sterile connection for your 1" flow applications
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28 HFC DISCONNECT SERIES
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TERMINATIONS: 1/4"; 3/8" & 1/2" OD hose barb (6.4mm, 9.5mm & 12.7mm)

OPEN FORMAT CONNECTION TECHNOLOGY PAGES 30-43

34 MPC SERIES CONNECTORS: Open-format connection for your 3/8" flow applications
MATERIAL: Polycarbonate, polysulfone and silicone
TERMINATIONS: 1/8", 1/4" & 3/8" OD hose barb (3.2mm, 6.4mm, & 9.5mm)

36 MPX SERIES CONNECTORS: Open-format connection for your 1/2" flow applications
MATERIAL: Polycarbonate, polysulfone and silicone
TERMINATIONS: 3/8", 1/2" OD hose barb (9.5mm & 12.7mm)

38 MPC/MPX BACK-TO-BACK SERIES ADAPTERS: Connect single-use systems that may feature identical connections at the end of the tubing.
MATERIAL: Polycarbonate, polysulfone and silicone
TERMINATIONS: 3/8" & 1/2" OD hose barb (9.5mm & 12.7mm)

40 MPC/MPX SANITARY SERIES CONNECTORS: Attaches directly to 3/4", 1", & 1-1/2" sanitary terminations to provide greater flexibility for integrating components into single-use or hybrid process systems.
MATERIAL: Polysulfone and silicone
TERMINATIONS: 3/4", 1", & 1-1/2" sanitary

42 MPU SERIES CONNECTORS: Open-format twist-to-lock connection for 3/8" flow applications
MATERIAL: Polysulfone and silicone
TERMINATIONS: 3/4" (10.8mm) & 1/2" (15.4mm)

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48 STEAM-THRU® SERIES CONNECTORS: Hybrid connection between stainless steel and single use applications
MATERIAL: Polysulfone and silicone
TERMINATIONS: 3/8" & 1/2" OD hose barb (9.5mm & 12.7mm); 3/4", 1/2" sanitary

50 ASEQTIQUIK® STC SERIES CONNECTORS: Hybrid connection between stainless steel and single use applications, with a single-use AseptiQuik included.
MATERIAL: Polycarbonate, polysulfone and silicone
TERMINATIONS: 3/4", 1/2" sanitary

*If you don’t see a product line, please contact your CPC representative for more information.

cpcworldwide.com/bio • 1-800-519-7633
THE END OF THE WELD IS HERE.

TUBE WELDING IS NO MATCH FOR THE NEW SMALL-FORMAT, SINGLE-USE MICROCNX™ SERIES CONNECTORS.

Experience a smaller, smarter, faster, and easier way to make sterile connections.

VISIT ENDOFTHEWELD.COM.

NOMINAL FLOW PATH (NFP) SIZE

<table>
<thead>
<tr>
<th>NFP</th>
<th>Cv VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/32&quot;</td>
<td>0.14</td>
</tr>
<tr>
<td>1/16&quot;</td>
<td>0.04</td>
</tr>
<tr>
<td>1/8&quot;</td>
<td>0.27</td>
</tr>
</tbody>
</table>
MICROCNX™ SERIES CONNECTORS

MicroCNX™ Connectors introduce a new category of aseptic micro-connectors that provide a simple, efficient method of connecting tubing for small-format biomanufacturing assemblies. MicroCNX connectors are the modern alternative to the cumbersome, industrial process of tube welding. Building on the inventiveness of CPC, the leader in single-use connection technology, the MicroCNX line of connectors is engineered specifically for the challenging conditions of biologic media transfer in bioprocessing, cell therapy and gene therapy applications.

FEATURES

- PINCH-CLICK-PULL
- Easy to use
- Genderless
- CPC Click

BENEFITS

- Intuitive three-step connection process reduces risk of operator error
- Lowers risk of operator error and related performance, reliability and safety concerns
- Exacts single-use systems specifications with one part number for both halves
- Audible confirmation of assembly with no additional hardware required

NOTE

Validation and Extractables data can be requested at cpcworldwide.com/MicroCNX

MicroCNX connectors eliminate the need to purchase, calibrate, validate, maintain, and allocate clean room space for tube welding equipment.

SPECIFICATIONS

OPERATING PRESSURE

Up to 60 psi, 4.1 bar
Up to 75 psi, 5.1 bar for 48 hours

OPERATING TEMPERATURE

34°F to 104°F (1°C to 40°C)

TERMINATIONS

1/16", 3/32" 1/8" ID hose barb (1.6mm, 2.4mm, 3.2mm)

MATERIALS

Main Components: Polycarbonate (white), USP Class VI, ADFC
Seals: Silicone (clear), platinum-cured, USP Class VI, ADFC
Protective Cover: Polypropylene (teal), USP Class VI, ADFC
Membrane: Hydrophobic Polyethersulfone, USP Class VI

STERILIZATION

Gamma: Up to 50kGy irradiation.
Autoclave: One cycle up to 266°F (130°C) for 60 minutes

TYPICAL FLOW RATE

Ce Value Range: 0.04-0.27
for MicroCNX hose barb terminations

Ce values represent the approximate expected flow rate in gallons per minute at room temperature for a 1 PSI pressure drop. The flow is generally constrained by the smallest diameter, which in some cases will be the termination diameter and not the Nominal Flow Path.

Caution: CPC does not recommend the use of PVC tubing with the polycarbonate MicroCNX™ Series Connectors. Extractables from PVC tubing could be incompatible with polycarbonate material and affect product performance. Determining product application suitability is solely the customer’s responsibility. CPC does not guaranty or warrant product suitability for any application or use.

Caution: CPC does not recommend the use of PVC tubing with the polycarbonate MicroCNX™ Series Connectors. Extractables from PVC tubing could be incompatible with polycarbonate material and affect product performance. Determining product application suitability is solely the customer’s responsibility. CPC does not guaranty or warrant product suitability for any application or use.

PRODUCT DIMENSIONS

- Height
- Total Length
- Total Width

MICROCNX™ SERIES DIMENSIONS AND WEIGHTS

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>METRIC CQ</th>
<th>PART NO.</th>
<th>PART WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/16&quot; HOSE BARB</td>
<td>3.2 mm</td>
<td>CNX17001HT</td>
<td>0.27 oz (7.64 g)</td>
</tr>
<tr>
<td>3/32&quot; HOSE BARB</td>
<td>2.4 mm</td>
<td>CNX17003HT</td>
<td>0.27 oz (7.64 g)</td>
</tr>
<tr>
<td>1/8&quot; HOSE BARB</td>
<td>1.6 mm</td>
<td>CNX17002HT</td>
<td>0.27 oz (7.64 g)</td>
</tr>
</tbody>
</table>

Did You Know

MicroCNX connectors eliminate the need to purchase, calibrate, validate, maintain, and allocate clean room space for tube welding equipment.

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WHAT IS ASEPTIQUIK® STERILE TECHNOLOGY?

AseptiQuik® Connectors provide quick and easy sterile connections, even in non-sterile environments—a critical capability for biopharmaceutical manufacturers. Featuring a straightforward, simple three-step connection process and a wide range of termination options—including 1/8- to 1 1/2-inch sizes and genderless connections—the AseptiQuik series allows you to transfer media easily with less risk of error. Their robust, reliable performance eliminates the need for clamps, fixtures or tube welders, giving you sterile, high-quality single-use connections every time.

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

BENEFITS
- Eases integration of single-use systems with universal mating between connectors of the same series
- 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

NOMINAL FLOW PATH (NFP) SIZE

<table>
<thead>
<tr>
<th>Material</th>
<th>NFP CV RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQP (0.25&quot;)</td>
<td>0.19-1.74</td>
</tr>
<tr>
<td>AQP (0.5&quot;)</td>
<td>1.5-31</td>
</tr>
<tr>
<td>AQP (1&quot;)</td>
<td>30-57</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NOMINAL FLOW PATH CV VALUE RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQP (0.25&quot;)</td>
</tr>
<tr>
<td>AQP (0.5&quot;)</td>
</tr>
<tr>
<td>AQP (1&quot;)</td>
</tr>
</tbody>
</table>

ASEPTIQUIK CONNECTORS OPTIONS

<table>
<thead>
<tr>
<th>TERMINATIONS</th>
<th>MATERIALS</th>
<th>STERILIZATION (CHOOSE 1)</th>
<th>FLOW INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOSE BARB</td>
<td>POLYCARBONATE</td>
<td>POLYPHENYL SULFONE</td>
<td>AUTOCLAVABLE</td>
</tr>
<tr>
<td>SANITARY FLANGES</td>
<td>POLYCARBONATE</td>
<td>POLYPHENYL SULFONE</td>
<td>GAMA COMPATIBLE</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>1/2&quot;</td>
<td>1&quot;</td>
<td></td>
</tr>
<tr>
<td>NOMINAL FLOW PATH</td>
<td>0.19-1.74</td>
<td>1.5-31</td>
<td>30-57</td>
</tr>
</tbody>
</table>

ASEPTIQUIK CONNECTORS ASSEMBLY PROCEDURE

FLIP
- Unsnap and flip down the protective pull tab covers on each AseptiQuik connector half.

CLICK
- Align the AseptiQuik connector halves with the pull tabs hanging down. Then, slide the two halves together, while independently squeezing each side until you hear an audible "CPC Click".

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

Scan code to watch AseptiQuick assembly video
https://youtu.be/un2PnvUAZ0w
ASEPTIQQUIK® S SERIES CONNECTORS

ASEPTIQQUIK® S 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 than with traditional methods. 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.

TYPICAL FLOW RATE:
Cv Value Range: 0.19 - 1.74 for AseptiQuik S

Cv values represent the approximate expected flow rate in gallons per minute of water at room temperature for a 1 PSI pressure drop. The flow is generally constrained by the smallest diameter, which in some cases will be the termination diameter and not the Nominal Flow Path.

SPECIFICATIONS
OPERATING PRESSURE
Up to 60 psi, 4.1 bar
OPERATING 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 60 minutes
TERMINATIONS
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
MATERIALS
Main Components:
Polycarbonate (white)
Pull Tabs/Caps:
Polycarbonate (blue, standard version)
Polycarbonate (white, HT version)
Seals:
Silicone (clear), platinum-cured
Membrane:
Polyethylene (standard version)
Hydrophobic polyethersulfone (HT version), PTFE strip sticker
WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of coupling. It is the customer’s responsibility to test the suitability of CPC’s products in their own application conditions.

AseptiQuik S Series Connectors

FEATURES
Genderless
FLIP-CLICK-PULL
CPC Click
AQS-MPC Combination
AQS 1/4” Sani with Smooth Bore

BENEFITS
Eases single-use system specifications with one-part number for both halves
Intuitive three-step connection process reduces risk of operator error
Audible confirmation of connection with no additional hardware required
Enables the ability to change a BPC or other single-use system with open format connections to closed systems
Minimizes transitional flow disruptions throughout upstream processing

TYPICAL FLOW RATE:
Cv Value Range: 0.19 - 1.74 for AseptiQuik S

NOTE
Validation and Extractables data can be requested at cpcworldwide.com/AseptiQuik-S

DO YOU KNOW
Did you know that the AseptiQuik S is perfect for simplifying the process to pull flask samples from your bioreactor?

DID YOU KNOW
Did you know that the AseptiQuik S is perfect for simplifying the process to pull flask samples from your bioreactor?

 consecutively

Scan code to visit webpage

ASEPTIQQUIK S SERIES DIMENSIONS

POLYCARBONATE with blue pull tabs - For gamma irradiation applications.

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>METRIC EQ.</th>
<th>PART NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8” HOSE BARB</td>
<td>3.2 mm</td>
<td>AQS17002</td>
<td>2.25” (57.2 mm)</td>
<td>1.30” (33.0 mm)</td>
<td>0.50” (12.7 mm)</td>
</tr>
<tr>
<td>1/4” HOSE BARB</td>
<td>6.4 mm</td>
<td>AQS17004</td>
<td>2.25” (57.2 mm)</td>
<td>1.45” (36.8 mm)</td>
<td>0.65” (16.5 mm)</td>
</tr>
<tr>
<td>1/4” SANTUNY</td>
<td>6.4 mm</td>
<td>AQS33004</td>
<td>2.25” (57.2 mm)</td>
<td>1.50” (38.1 mm)</td>
<td>0.70” (17.8 mm)</td>
</tr>
<tr>
<td>3/8” HOSE BARB</td>
<td>9.5 mm</td>
<td>AQS17006</td>
<td>2.25” (57.2 mm)</td>
<td>1.45” (36.8 mm)</td>
<td>0.65” (16.5 mm)</td>
</tr>
<tr>
<td>3/4” SANTUNY</td>
<td>10.1 mm</td>
<td>AQS33012</td>
<td>2.25” (57.2 mm)</td>
<td>1.60” (40.6 mm)</td>
<td>0.80” (20.3 mm)</td>
</tr>
<tr>
<td>MPC INSERT</td>
<td></td>
<td>AQS17MPC</td>
<td>2.25” (57.2 mm)</td>
<td>1.49” (37.9 mm)</td>
<td>0.69” (17.5 mm)</td>
</tr>
</tbody>
</table>

POLYCARBONATE HT with white pull tabs - For autoclave or gamma irradiation applications.

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>METRIC EQ.</th>
<th>PART NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8” HOSE BARB</td>
<td>3.2 mm</td>
<td>AQS17002HT</td>
<td>2.25” (57.2 mm)</td>
<td>1.30” (33.0 mm)</td>
<td>0.50” (12.7 mm)</td>
</tr>
<tr>
<td>1/4” HOSE BARB</td>
<td>6.4 mm</td>
<td>AQS17004HT</td>
<td>2.25” (57.2 mm)</td>
<td>1.45” (36.8 mm)</td>
<td>0.65” (16.5 mm)</td>
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<tr>
<td>1/4” SANTUNY</td>
<td>6.4 mm</td>
<td>AQS33004HT</td>
<td>2.25” (57.2 mm)</td>
<td>1.50” (38.1 mm)</td>
<td>0.70” (17.8 mm)</td>
</tr>
<tr>
<td>3/8” HOSE BARB</td>
<td>9.5 mm</td>
<td>AQS17006HT</td>
<td>2.25” (57.2 mm)</td>
<td>1.45” (36.8 mm)</td>
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<td>3/4” SANTUNY</td>
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<td>AQS33012HT</td>
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<td>1.60” (40.6 mm)</td>
<td>0.80” (20.3 mm)</td>
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<td>MPC INSERT</td>
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<td>AQS17MPCHT</td>
<td>2.25” (57.2 mm)</td>
<td>1.49” (37.9 mm)</td>
<td>0.69” (17.5 mm)</td>
</tr>
</tbody>
</table>

PRODUCT DIMENSIONS

NOTES

ASEPTIC STERILE CONNECTION
**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” termination solutions with the quality and market availability they expect from the leader in single-use connection technology.

**SPECIFICATIONS**

- **OPERATING PRESSURE**
  - Up to 60 psi, 4.1 bar
  - Up to 75 psi, 5.1 bar for 48 hours
- **OPERATING TEMPERATURE**
  - 34°F to 104°F (1°C to 40°C)
- **STERILIZATION**
  - Standard (blue) and PPSU (purple) Version: Gamma: up to 50kGy
  - High Temperature (white) Version: Gamma: up to 50kGy
  - Autoclave: One cycle up to 266°F (130°C) for 60 minutes

**MATERIALS**

- **Main Components:**
  - Polycarbonate (white), (standard and HT version)
  - Polyphenylsulfone (off white) (PPSU version)
  - Pull Tabs/Caps: Polyphenylsulfone (off white) (PPSU version)
  - (purple, PPSU version)
  - Seals: Silicone (clear), platinum-cured
  - Membranes: Polyethylene (standard and PPSU versions), Hydrophilic polyethersulfone (HT version), PTFE strip sticker

**FEATURES**

- Genderless
- FLIP-CLOCK-PULL
- CPC Click
- Chemical Compatibility and pH Range
- BPA-free

**BENEFITS**

- Eases single-use system specifications with one-part number for both halves
- Intuitive three-step connection process reduces risk of operator error
- Audible confirmation of connection with no additional hardware required
- AseptiQuik PPSU enables genderless connection for a greater range of chemical applications, offering versatile connections across downstream processes with a pH range from 2 to 12
- AseptiQuik PPSU meets a broader range of Application Requirements

**TYPICAL FLOW RATE:**

<table>
<thead>
<tr>
<th>Cv Value Range</th>
<th>1.5 - 31</th>
</tr>
</thead>
<tbody>
<tr>
<td>For AseptiQuik G</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE**

Validation and Extractables data can be requested at cpcworldwide.com/AseptiQuik-G

**DIID YOU KNOW**

Did you know that the AseptiQuik G is perfect for connecting different buffers to your chromatography skid?

**PRODUCT DIMENSIONS**

Scan code to visit webpage

cpcworldwide.com/AseptiQuik-G

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cpcworldwide.com/bio • 1-800-519-7633
ASEPTIQUIK® L SERIES CONNECTORS

AseptiQuik® L Connectors enable quick and easy sterile connections, in large-volume, high-flow production environments. The large-format, 3/4", 1" hose barb and 1-1/2" sanitary genderless design simplifies system integration and minimizes the risk of operator error. The connectors’ robust construction provides reliable performance without the need for clamps, fixtures or tube welders. Biopharmaceutical manufacturers benefit from the interchangeable connection sanitary flow solutions for full-scale bioprocessing production environments with the quality and market availability they expect from the leader in single-use connection technology.

SPECIFICATIONS

OPERATING PRESSURE
Up to 60 psi, 4.1 bar
Up to 75 psi, 5.1 bar for 48 hours

OPERATING 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

TERMINATIONS
3/4", 1" ID hose barb (19.0 mm, 25.4 mm) and 1-1/2" sanitary

MATERIALS
Main Components:
Polycarbonate (white)
Pull Tabs/Caps:
Polycarbonate (blue, standard version) Polycarbonate (white, HT version)
Seals:
Silicone (clear), platinum-cured
Membranes:
Polyethylene (standard version) Hydrophobic polyethersulfone (HT version), PTFE strip sticker

TYPICAL FLOW RATE:
*Cv Value Range: 30 - 57
for AseptiQuik L

DID YOU KNOW
Did you know that the AseptiQuik L is perfect for connecting TFF, TFDF, and ATF and other filtration processes that require large flow volumes?

SCAN


ASEPTIC STERILE CONNECTION

FEATURES
- Genderless
- FLIP-CLICK-PULL
- CPC Click
- Large Internal Diameter

BENEFITS
- Eases single-use systems specifications with one-part number for both halves
- Intuitive three-step connection process reduces risk of operator error
- Audible confirmation of connection with no additional hardware required
- Fast and efficient fluid transfer of large volumes under low pressures

NOTE
Validation and Extractables data can be requested at cpcworldwide.com/AseptiQuik-L

THE BIG THREE
when choosing sterile connectors.

1. EASE OF USE
2. RELIABILITY
3. ACCESSIBILITY

READ BLOG HERE

STERILE DISCONNECTION TECHNOLOGY
WHAT IS STERILE DISCONNECTION TECHNOLOGY?

CPC's sterile disconnection technology enables simple, quick sterile disconnection of your single-use systems with just the press of a thumb latch. Internal valves within the sterile disconnect technology close and seal upon disconnect, protecting the closed system fluid pathway on each side of the disconnected system. The HFC Disconnect product line enables sterile disconnections from tubing ¼” to ½” ID and connected sets feature a protective thumb latch to prevent accidental disconnections.

FEATURES

- Intuitive one-step disconnection process
- Automatic shutoff valves
- Protective thumb latch cover
- Laser marked item number and lot number
- Alloy C-276 internal flow path spring

BENEFITS

- No requirement for additional equipment to make sterile disconnection
- Minimize operator error and ease standard operating procedure creation and training
- Stop flow upon disconnect
- Eliminate accidental disconnects
- Full traceability to raw material source
- Enable broader application compatibility

HFC DISCONNECT OPTIONS

<table>
<thead>
<tr>
<th>TERMINATIONS</th>
<th>MATERIALS</th>
<th>PRODUCT FEATURE</th>
<th>STERILIZATION (CHOOSE 1)</th>
<th>FLOW INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOSE BARB</td>
<td>POLYSULFONE</td>
<td>Automatic shutoff valves</td>
<td>GAMMA COMPATIBLE</td>
<td>3/8” 0.3 – 2.5</td>
</tr>
<tr>
<td></td>
<td>SILICON HOSE</td>
<td>Protective thumb latch cover</td>
<td>AUTOCLAVABLE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SILICON HOSE</td>
<td>Lasercoded item number and lot number</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SILICON HOSE</td>
<td>Alloy C-276 internal flow path spring</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

HFC DISCONNECT PROCEDURE

**STEP 1**
Remove the protective thumb latch cover.

**STEP 2**
Press the thumb latch to disconnect.
If desired, install cap/plug to disconnected halves.

TERMINATIONS

- HOSE BARB

MATERIALS

- POLYSULFONE
- SILICON HOSE

PRODUCT FEATURE

- Automatic shutoff valves
- Protective thumb latch cover
- Lasercoded item number and lot number
- Alloy C-276 internal flow path spring

STERILIZATION (CHOOSE 1)

- GAMMA COMPATIBLE
- AUTOCLAVABLE

FLOW INFORMATION

<table>
<thead>
<tr>
<th>CONNECTED SET</th>
<th>UNCONNECTED VALVES</th>
<th>3/8”</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.3 – 2.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOMINAL FLOW PATH (NFP) SIZE

<table>
<thead>
<tr>
<th>NOMINAL FLOW PATH (NFP) SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cv values represent the approximate expected flow rate in gallons per minute of water at room temperature for a 1 PSI pressure drop. The flow is generally constrained by the smallest diameter, which in some cases will be the termination diameter and not the NFP.</td>
</tr>
</tbody>
</table>

Co values for various NFP sizes:
HFC DISCONNECT SERIES CONNECTORS

**Sterile Disconnection Technology**

HFC Disconnects enable sterile disconnection of single-use biopharmaceutical and cell and gene therapy manufacturing systems. With an easy push of the connector thumb latch, sterility is maintained on both sides of the system during the disconnection process. The HFC Disconnect sets include protective thumb latch covers to help reduce the chance of accidental disconnection, and are laser marked with item and lot number for complete traceability.

**Features**

- Intuitive one-step disconnection process
-Automatic shutoff valves
-Protective thumb latch cover
-Laser etched item number and lot number
-Alloy C-276 internal flow path spring

**Benefits**

- No requirement for additional equipment to make sterile disconnection
-Step flow and eliminate need for pinch clamps
-Guard against accidental disconnects
-Full traceability to raw material source
-Enabling broader application compatibility

**Typical Flow Rate:**

Cv Value Range: 0.3 - 2.5 for HFC Disconnect

**Validation and Extractables data can be requested at cpcworldwide.com/HFC-Disconnect**

**Did You Know**

The HFC Disconnect is great for post-use filter integrity testing (e.g. bubble point testing).

**Product Dimensions**

- **Termination:**
  - **1/4" Hose Barb:**
    - **2.02"** (51.3 mm)
    - **1.00"** (25.4 mm)
  - **3/8" Hose Barb:**
    - **2.02"** (51.3 mm)
    - **1.00"** (25.4 mm)
  - **1/2" Hose Barb:**
    - **2.02"** (51.3 mm)
    - **1.00"** (25.4 mm)

For more information, visit cpcworldwide.com/HFC-Disconnect.
WHAT IS OPEN FORMAT CONNECTION TECHNOLOGY?

CPC’s open format connectors (also known as quick connectors or quick disconnectors) are a straightforward and simple way to incorporate media transfer technology between your single-use systems. Our open format products feature male and female connector halves with caps and plugs to seal off the fluid pathway of the single-use system. Simply removing the cap and plug from each half of the system and joining the male and female connection links the fluid pathways of your two separate systems.

CPC’s open format products—the MPC Series, MPX Series, and MPU Series Connectors—enable connections from 1/8” ID tubing to 1” ID tubing. In addition, the MPC and MPX connectors feature an ergonomic thumb latch and optional locking sleeve to prevent accidental disconnection.

Sanitary adapters within the MPC and MPX product lines facilitate integration of components into single-use or hybrid (single-use to stainless) process systems.

Back-to-back adapters within the MPC and MPX product lines can be used to connect two identical body components or insert components. For additional flexibility, reducer options enable connection between an MPC and MPX product to link 1/8” to 1/2” ID tubing.

FEATURES

- Ergonomic thumb latch
- Parting line-free hose barb
- Optional locking sleeve (MPC, MPX)
- Mix and match termination sizes

BENEFITS

- Easy to operate – even with gloved hands
- Creates seamless connection to tubing
- Prevents accidental disconnection
- Enables flexibility in your application

NOMINAL FLOW PATH (NFP) SIZE

<table>
<thead>
<tr>
<th></th>
<th>MPC</th>
<th>MPX</th>
<th>MPU</th>
</tr>
</thead>
<tbody>
<tr>
<td>BACK-TO-BACK BODIES &amp; INSERTS</td>
<td>0.375” – 0.5”</td>
<td>3/32” – 5/32”</td>
<td>1”</td>
</tr>
<tr>
<td>NFP CV RANGE</td>
<td>0.1 – 8.0</td>
<td>2.0 – 6.0</td>
<td>18 – 41</td>
</tr>
</tbody>
</table>

Notes:
- CV values represent the approximate expected flow rate in gallons per minute of water at room temperature for a 1 PSI pressure drop. The flow is generally constrained by the smallest diameter, which in some cases will be the termination diameter and not the NFP.
- If using a body or cap component with a locking sleeve, twist to the “locked” position after connecting the two halves to prevent accidental disconnection. When you are ready to disconnect once again, twist the locking sleeve to the “unlocked” position.
TYPICAL FLOW RATE:

CV Value Range:
0.1 - 8
for MPC hose barb terminations

CV values represent the approximate expected flow rate in gallons per minute of water at room temperature for a 1 PSI pressure drop. The flow is generally constrained by the smallest diameter, which in some cases will be the termination diameter and not the Nominal Flow Path.

SPECIFICATIONS

OPERATING PRESSURE
Vacuum to 60 psi, 4.1 bar

OPERATING TEMPERATURE
Poly carbonate: -40°F to 250°F (-40°C to 121°C)
Polysulfone: -40°F to 300°F (-40°C to 149°C)

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), 60 minutes, up to 15 repetitions Sterilize uncoupled only

TERMINATIONS
1/8” to 3/8” ID (3.2mm to 9.5mm)

MATERIALS
Main components:
Poly carbonate (purple tint)
Polysulfone (amber tint)

Locking sleeves:
Polysulfone (white)
Thumb Latches:
Poly carbonate (white)
PVDF (white)
O-rings:
Silicone (clear), platinum-cured

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

FEATURES

Ergonomic thumb latch

Parling line-free hose barb

Optional locking sleeve

Various options on termination size and material

BENEFITS

Easy to operate – even with gloved hands

Prevent potential leak path

Prevent accidental disconnection

Better flexibility to fit more applications

NOTE

Validation and Extractables data can be requested at cpcworldwide.com/MPC

DID YOU KNOW

The MPC and MPX connectors are perfect for smaller bag systems for aliquoted media or other product stored in bags.

Scan code to visit webpage

cpcworldwide.com/MPC

MPC SERIES DIMENSIONS

COUPLING BODIES

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>METRIC OD</th>
<th>POLYCARBONATE PART NO.</th>
<th>POLYSULFONE PART NO.</th>
<th>1/8”</th>
<th>1/4”</th>
<th>3/8”</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8” HOSE BARB</td>
<td>3.2 mm ID</td>
<td>MPC17002T03</td>
<td>MPC17002T39</td>
<td>0.98” (24.4 mm)</td>
<td>1.02” (25.9 mm)</td>
<td></td>
</tr>
<tr>
<td>1/4” HOSE BARB</td>
<td>6.4 mm ID</td>
<td>MPC17004T03</td>
<td>MPC17004T39</td>
<td>0.96” (24.4 mm)</td>
<td>1.30” (33.0 mm)</td>
<td></td>
</tr>
<tr>
<td>3/8” HOSE BARB</td>
<td>9.5 mm ID</td>
<td>MPC17006T03</td>
<td>MPC17006T39</td>
<td>0.96” (24.4 mm)</td>
<td>1.30” (33.0 mm)</td>
<td></td>
</tr>
</tbody>
</table>

COUPLING INSERTS

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>METRIC OD</th>
<th>POLYCARBONATE PART NO.</th>
<th>POLYSULFONE PART NO.</th>
<th>1/8”</th>
<th>1/4”</th>
<th>3/8”</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8” HOSE BARB W/ LOCK</td>
<td>3.2 mm ID</td>
<td>MPCK17002T03</td>
<td>MPCK17002T39</td>
<td>1.02” (25.9 mm)</td>
<td>1.10” (27.9 mm)</td>
<td></td>
</tr>
<tr>
<td>1/4” HOSE BARB W/ LOCK</td>
<td>6.4 mm ID</td>
<td>MPCK17004T03</td>
<td>MPCK17004T39</td>
<td>1.02” (25.9 mm)</td>
<td>1.30” (33.0 mm)</td>
<td></td>
</tr>
<tr>
<td>3/8” HOSE BARB W/ LOCK</td>
<td>9.5 mm ID</td>
<td>MPCK17006T03</td>
<td>MPCK17006T39</td>
<td>1.02” (25.9 mm)</td>
<td>1.30” (33.0 mm)</td>
<td></td>
</tr>
</tbody>
</table>

SEALING COMPONENTS

<table>
<thead>
<tr>
<th>SEALING CAP</th>
<th>SEALER</th>
<th>MATERIAL</th>
<th>1/8”</th>
<th>1/4”</th>
<th>3/8”</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC13003</td>
<td>MPCX1303</td>
<td>Polycarbonate</td>
<td>0.96” (24.4 mm)</td>
<td>1.30” (33.0 mm)</td>
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<tr>
<td>MPC13008</td>
<td>MPCX1308</td>
<td>Polysulfone</td>
<td>0.96” (24.4 mm)</td>
<td>1.30” (33.0 mm)</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SEALING PLUG</th>
<th>SEALER</th>
<th>MATERIAL</th>
<th>1/8”</th>
<th>1/4”</th>
<th>3/8”</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC30003</td>
<td>MPCX3003</td>
<td>Polycarbonate</td>
<td>0.75” (19.1 mm)</td>
<td>1.24” (31.5 mm)</td>
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<tr>
<td>MPC30008</td>
<td>MPCX3008</td>
<td>Polysulfone</td>
<td>0.75” (19.1 mm)</td>
<td>1.24” (31.5 mm)</td>
<td></td>
</tr>
</tbody>
</table>

PRODUCT DIMENSIONS

Scan code to visit webpage

cpcworldwide.com/MPC

ASEPTIC STERILE CONNECTION

OPEN FORMAT CONNECTION TECHNOLOGY

MPC SERIES CONNECTORS

MPC Series Connecters 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.
**MPX SERIES CONNECTORS**

**Features**
- Ergonomic thumb latch
- Parting line-free hose barb
- Optional locking sleeve
- Mix and match termination sizes

**Benefits**
- Easy to operate – even with gloved hands
- Prevents potential leak path
- Prevents accidental disconnection
- Enables flexibility in your system and/or application

**Typical Flow Rate:**
Cv Value Range: 4 - 17 for MPX

**Validation and Extractables data can be requested at cpcworldwide.com/MPX**

**NOTE**
- The MPC and MPX connectors are perfect for smaller bag systems for aliquoted media or other product stored in bags.

**SPECIFICATIONS**

**Operating Pressure**
Vacuum to 60 psi, 4.1 bar

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

**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), 60 minutes, up to 25 repetitions
  - Sterilize uncoupled only

**Terminations**
- 3/8" to 1/2" ID (9.5mm to 12.7mm)

**Materials**
- Main components:
  - Polycarbonate (purple tint)
  - Polysulfone (amber tint)
- Locking sleeves:
  - PVDF (white)
- Thumb Latches:
  - Polycarbonate (white)
  - PVDF (white)
- O-rings:
  - Silicone (clear), platinum-cured

**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.

**PRODUCT DIMENSIONS**

**Scan**
- Scan code to visit webpage
- cpcworldwide.com/MPX

**Scan code to visit webpage**
- cpcworldwide.com/bio • 1-800-519-7633
MPC/MPX BACK-TO-BACK SERIES ADAPTERS

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 1/16” to 1/2”.

FEATURES

- Compatible with MPC and MPX Series inserts
- Tubing reduction option
- Ergonomic thumb latches

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

TYPICAL FLOW RATE:

Cv Value Range: 2 - 32 for Back-to-Back hose barb terminations

NOTE

Validation and Extractables data can be requested at cpcworldwide.com/Back-to-Back-Adapters

MPC/MPX BACK-TO-BACK SERIES DIMENSIONS

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TYPE</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC22C2239M</td>
<td>MPC to MPC</td>
<td>0.74”</td>
<td>2.04”</td>
</tr>
<tr>
<td>MPC22X2239M</td>
<td>MPC to MPX</td>
<td>0.98”</td>
<td>2.42”</td>
</tr>
<tr>
<td>MPX22X2239M</td>
<td>MPX to MPX</td>
<td>0.98”</td>
<td>2.73”</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TYPE</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC17C1703</td>
<td>MPC to MPC</td>
<td>0.96”</td>
<td>1.81”</td>
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<tr>
<td>MPX17X1703</td>
<td>MPX to MPX</td>
<td>1.28”</td>
<td>2.44”</td>
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<tr>
<td>MPC17X1703</td>
<td>MPC to MPX</td>
<td>1.28”</td>
<td>2.13”</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TYPE</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC17C1739</td>
<td>MPC to MPC</td>
<td>0.96”</td>
<td>1.81”</td>
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<tr>
<td>MPX17X1739</td>
<td>MPX to MPX</td>
<td>1.28”</td>
<td>2.44”</td>
</tr>
<tr>
<td>MPC17X1739</td>
<td>MPC to MPX</td>
<td>1.28”</td>
<td>2.13”</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

OPERATING PRESSURE

Vacuum to 60 psi, 4.1 bar

OPERATING TEMPERATURE

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

STERILIZATION

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

MATERIALS

Main Components:
- Polycarbonate (purple tint)
- Polysulfone (amber tint)
- Thumb Latches: Polycarbonate (white)
- PVDF (white)
- O-rings: Silicone (clear), platinum-cured

NOTE

Validation and Extractables data can be requested at cpcworldwide.com/Back-to-Back-Adapters

MPC/MPX BACK-TO-BACK INSERT ADAPTERS - Polysulfone

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TYPE</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC22C2239M</td>
<td>MPC to MPC</td>
<td>0.74”</td>
<td>2.04”</td>
</tr>
<tr>
<td>MPC22X2239M</td>
<td>MPC to MPX</td>
<td>0.98”</td>
<td>2.42”</td>
</tr>
<tr>
<td>MPX22X2239M</td>
<td>MPX to MPX</td>
<td>0.98”</td>
<td>2.73”</td>
</tr>
</tbody>
</table>

MPC/MPX BACK-TO-BACK BODY ADAPTERS - Polycarbonate

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TYPE</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC17C1703</td>
<td>MPC to MPC</td>
<td>0.96”</td>
<td>1.81”</td>
</tr>
<tr>
<td>MPX17X1703</td>
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<td>MPC17X1703</td>
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<td>2.13”</td>
</tr>
</tbody>
</table>

MPC/MPX BACK-TO-BACK BODY ADAPTERS - Polysulfone

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TYPE</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC17C1739</td>
<td>MPC to MPC</td>
<td>0.96”</td>
<td>1.81”</td>
</tr>
<tr>
<td>MPX17X1739</td>
<td>MPX to MPX</td>
<td>1.28”</td>
<td>2.44”</td>
</tr>
<tr>
<td>MPC17X1739</td>
<td>MPC to MPX</td>
<td>1.28”</td>
<td>2.13”</td>
</tr>
</tbody>
</table>

NOTES

Validation and Extractables data can be requested at cpcworldwide.com/Back-to-Back-Adapters

Did you know

MPC and MPX connectors are perfect for smaller bag systems for aliquoted media or other product stored in bags.

Scan code to visit webpage

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cpcworldwide.com/Back-to-Back-Adapters
TYPICAL FLOW RATE:

Cv Value Range: 3 - 17

Cv values represent the approximate expected flow rate in gallons per minute of water at room temperature for a 1 PSI pressure drop. The flow is generally constrained by the smallest diameter, which in some cases will be the termination diameter and not the Nominal Flow Path.

MPC/MPX SANITARY SERIES CONNECTORS

MPC/MPX Sanitary Connectors 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 adapters
ADCF-free materials

BENEFITS

Install to equipment with sanitary gaskets and sanitary clamps
Quick and easy connections to industry standard plastic couplings
Provides flexibility to easily convert sanitary terminations on filter cartridge or equipment
Meet BSE/TSE requirements

SPECIFICATIONS

OPERATING PRESSURE:
Vacuum to 60 psi, 4.1 bar

OPERATING TEMPERATURE:
-40°F to 300°F (-40°C to 149°C)

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

TERMINATIONS:
3/4", 1" and 1-1/2" sanitary

MATERIALS:
Main components: Polysulfone (amber tint)
Thumb Latches: PVDF (white)
O-rings: Silicone (clear), platinum-cured

NOTE
Validation and Extractables data can be requested on at cpcworldwide.com/Sanitary

MPC/MPX SANITARY SERIES 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>0.98&quot;</td>
<td>1.40&quot;</td>
<td>1.0&quot;</td>
</tr>
<tr>
<td>MPC3301239</td>
<td>1&quot;</td>
<td>1.00&quot;</td>
<td>1.40&quot;</td>
<td>1.50&quot;</td>
</tr>
<tr>
<td>MPC3301639</td>
<td>1-1/2&quot;</td>
<td>1.50&quot;</td>
<td>1.40&quot;</td>
<td>1.50&quot;</td>
</tr>
</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>0.98&quot;</td>
<td>1.98&quot;</td>
<td>1.71&quot;</td>
</tr>
<tr>
<td>MPC44024T39M</td>
<td>1-1/2&quot;</td>
<td>1.98&quot;</td>
<td>1.71&quot;</td>
<td>1.71&quot;</td>
</tr>
<tr>
<td>MPX44012T39M</td>
<td>3/4&quot;</td>
<td>0.98&quot;</td>
<td>1.98&quot;</td>
<td>1.71&quot;</td>
</tr>
<tr>
<td>MPX44024T39M</td>
<td>1-1/2&quot;</td>
<td>1.98&quot;</td>
<td>1.71&quot;</td>
<td>1.71&quot;</td>
</tr>
</tbody>
</table>

PRODUCT DIMENSIONS

NOTES

MPC and MPX Sanitary connectors provide greater flexibility for filter installation.

Scan code to visit webpage

cpcworldwide.com/Sanitary
**MPU SERIES CONNECTORS**

MPU Connectors’ twist-to-connect design features an easy-to-use locking mechanism that guards against accidental disconnects and provide a reliable, secure connection. The 3/4” and 1” hose barbs provide smooth, rapid media transfer.

**SPECIFICATIONS**

- **OPERATING PRESSURE:** Vacuum to 35 psi, 2.4 bar
- **OPERATING TEMPERATURE:** -40°F to 300°F (-40°C to 149°C)
- **STERILIZATION:**
  - **Gamma:** Up to 50 kGy irradiation
  - **Autoclave:** Up to 270°F (132°C), 60 minutes, up to 25 repetitions
  Sterilize uncoupled only
- **TUBING SIZE:** 3/4” ID (19.0 mm), 1” ID (25.4 mm)
- **MATERIALS:**
  - Main components: Polysulfone (amber tint)
  - O-rings: Silicone (clear), platinum-cured

---

**FEATURES**

- 3/4” and 1” hose barb
- Locking feature
- Sharp barb end
- Shrouded, leak-free seal & smooth, internal flow path

**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

**TYPICAL FLOW RATE:**

Cv Value Range: 18 - 41 for MPU

Cv values represent the approximate expected flow rate in gallons per minute of water at room temperature for a 1 PSI pressure drop. The flow is generally constrained by the smallest diameter, which in some cases will be the termination diameter and not the Nominal Flow Path.

**NOTE**

Validation and Extractables data can be requested at cpcworldwide.com/MPU

**DID YOU KNOW**

The MPU connectors are perfect for attaching to single-use mixers or single-use bioreactors when a large amount of media needs to be transferred.

**MPU SERIES DIMENSIONS**

<table>
<thead>
<tr>
<th>COUPLING BODIES - Polysulfone</th>
<th>COUPLING INSERTS - Polysulfone</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TERMINATION</strong></td>
<td><strong>TERMINATION</strong></td>
</tr>
<tr>
<td>3/4” ID HOSE BARB</td>
<td>3/4” ID HOSE BARB</td>
</tr>
<tr>
<td>CV 18.5</td>
<td>CV 18.5</td>
</tr>
<tr>
<td>CV 41.5</td>
<td>CV 41.5</td>
</tr>
<tr>
<td><strong>METRIC EQ.</strong></td>
<td><strong>PART NO.</strong></td>
</tr>
<tr>
<td>19.0 mm ID</td>
<td>MPU17039</td>
</tr>
<tr>
<td>MPU17039</td>
<td>1.75” (44.5 mm)</td>
</tr>
<tr>
<td>2.37” (60.2 mm)</td>
<td>1.75” (44.5 mm)</td>
</tr>
<tr>
<td>MPU17039M</td>
<td>MPU221239M</td>
</tr>
<tr>
<td>1.5” (39.6 mm)</td>
<td>1.5” (39.6 mm)</td>
</tr>
<tr>
<td>2.68” (73.2 mm)</td>
<td>2.68” (73.2 mm)</td>
</tr>
<tr>
<td>MPU17039M</td>
<td>MPU221639M</td>
</tr>
<tr>
<td>1.5” (39.6 mm)</td>
<td>1.5” (39.6 mm)</td>
</tr>
<tr>
<td>2.68” (73.2 mm)</td>
<td>2.68” (73.2 mm)</td>
</tr>
</tbody>
</table>

**MPU ASSEMBLY PROCEDURE**

**STEP 1**

To connect two MPU components, line up and press the two raised features on the insert (or plug) component into the notches on the body (or cap) component, then twist the two components ¼ turn until the two products latch together.

**STEP 2**

To disconnect two MPU components, depress the two latches on the insert (or plug) component while twisting the two separate MPU components ¼ turn to separate.
STEAM-IN-PLACE (SIP) TECHNOLOGY
WHAT IS STEAM-IN-PLACE (SIP) TECHNOLOGY?

The innovative three port design of CPC’s Steam-Thru® technology enables uncomplicated actuation between the SIP steam pathway and fluid transfer (flow) pathway. This provides an easy and sterile connection between flexible single-use tubing and stainless-steel processing equipment. The Steam-Thru product lines offer versatility within your process by having connection options for 3/8” and 1/2” ID tubing on the single-use side of the connector and 3/4” and 1-1/2” sanitary connections for attachment to the stainless-steel processing equipment.

FEATURES

Innovative three-port design
Intuitive valve design
Steam-Thru II Thumb Latch
3/4” and 1-1/2” Sanitary Terminations

BENEFITS

Allows for a true steam-through SIP process to eliminate dead legs and the need for laminar flow hoods
Enables sterile connection/disconnection while permitting a high media flow rate
Secures valve position, provides visual indicator of process stage
Easily connects to process equipment
Enables uncomplicated actuation between the SIP steam pathway and fluid transfer (flow) pathway

Additional features and benefits for the AseptiQuick Steam-Thru Combination:
Genderless AseptiQuick
FLIP-CCLICK−PULL
CPC Click
Sanitary interface between the two connectors

NOTIONAL FLOW PATH (NFP) SIZE

<table>
<thead>
<tr>
<th>CV RANGE</th>
<th>STEAM-THRU GOLD</th>
<th>STEAM-THRU II GOLD</th>
<th>AQUA G</th>
<th>AQUA S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2”</td>
<td>0.375”</td>
<td>0.5”</td>
<td>3/8”</td>
<td>1/2”</td>
</tr>
<tr>
<td>4.0 – 7.0</td>
<td>3.0 – 9.0</td>
<td>1.0 – 2.0</td>
<td>3.0 – 9.0</td>
<td>3.0 – 9.0</td>
</tr>
</tbody>
</table>

STEP 1

Attach the equipment port to the stainless-steel processing equipment using a sanitary gasket and sanitary tri-clamp.

STEP 2

Attach the steam condensate line to the steam condensate port using a sanitary gasket and tri-clamp.

STEP 3

Perform a steam-in-place sterilization per your validated parameters and allow the connector to cool to room temperature.

STEP 4

Perform fluid transfer through the connector.

STEP 5

Press the thumb latch and change the connector from the steam position to the flow position.

STEP 6

Perform a second steam-in-place cycle to “steam off” the connection.

NOMINAL FLOW PATH (NFP) SIZE

<table>
<thead>
<tr>
<th>CV RANGE</th>
<th>STEAM-THRU GOLD</th>
<th>STEAM-THRU II GOLD</th>
<th>AQUA G</th>
<th>AQUA S</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2”</td>
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<td>3.0 – 9.0</td>
<td>1.0 – 2.0</td>
<td>3.0 – 9.0</td>
<td>3.0 – 9.0</td>
</tr>
</tbody>
</table>

Cv values represent the approximate expected flow rate in gallons per minute of water at room temperature for a 1 PSI pressure drop. The flow is generally constrained by the smallest diameter, which in some cases will be the termination diameter and not the NFP.
### STEAM-THRU® SERIES CONNECTORS

Steam-Thru® Connectors 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.

### SPECIFICATIONS

#### OPERATING CONDITIONS (Fluid Transfer)

**POLYSULFONE with polycarbonate sleeve**

#### STEAM-THRU SERIES DIMENSIONS

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PART NO.</th>
<th>D</th>
<th>Actuated Length</th>
<th>Hose Barb Length</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; x 3/8&quot; SANITARY X 3/8&quot; HB</td>
<td>STC1700000</td>
<td>1.42&quot; (36.1 mm)</td>
<td>0.80&quot; (20.3 mm)</td>
<td>2.89&quot; (73.4 mm)</td>
<td></td>
</tr>
<tr>
<td>3/4&quot; x 3/8&quot; SANITARY X 1/2&quot; HB</td>
<td>STC2020000</td>
<td>1.20&quot; (30.5 mm)</td>
<td>0.80&quot; (20.3 mm)</td>
<td>2.04&quot; (51.8 mm)</td>
<td></td>
</tr>
<tr>
<td>3/4&quot; x 3/8&quot; SANITARY X 3/4&quot; HB</td>
<td>STC2020300</td>
<td>1.20&quot; (30.5 mm)</td>
<td>0.80&quot; (20.3 mm)</td>
<td>2.04&quot; (51.8 mm)</td>
<td></td>
</tr>
</tbody>
</table>

#### STEAM-THRU II SERIES DIMENSIONS

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PART NO.</th>
<th>D</th>
<th>Actuated Length</th>
<th>Hose Barb Length</th>
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</tr>
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<tbody>
<tr>
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<td>STC1700000</td>
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<td>0.80&quot; (20.3 mm)</td>
<td>2.89&quot; (73.4 mm)</td>
<td></td>
</tr>
<tr>
<td>3/4&quot; x 3/8&quot; SANITARY X 1/2&quot; HB</td>
<td>STC2020000</td>
<td>1.20&quot; (30.5 mm)</td>
<td>0.80&quot; (20.3 mm)</td>
<td>2.04&quot; (51.8 mm)</td>
<td></td>
</tr>
<tr>
<td>3/4&quot; x 3/8&quot; SANITARY X 3/4&quot; HB</td>
<td>STC2020300</td>
<td>1.20&quot; (30.5 mm)</td>
<td>0.80&quot; (20.3 mm)</td>
<td>2.04&quot; (51.8 mm)</td>
<td></td>
</tr>
</tbody>
</table>

### FEATURES

- **Innovative three-port design**
- **Patented valve design**
- **Steam-Thru II thumb latch**
- **3/4" and 1-1/2" sanitary terminations**
- **Easy disconnect to connect equipment**

### BENEFITS

- Allows a true steam-through SIP process which eliminates "dead legs" and the need for laminar flow hoods.
- Maintains sterile connection and disconnection and permits high media flow rate.
- Provides visual indicator of process stage.
- Secures valve position.
- Easily connects to process equipment.

### TYPICAL FLOW RATES: Cv Value Range

**Steam-Thru**

4.0 - 7.0 for Steam-Thru

3.0 - 9.0 for Steam-Thru II

**Steam-Thru II**

3.0 - 9.0 for Steam-Thru II

### MATERIALS

- **Connection:** Polysulfone (amber tint)
- **O-rings:** Silicone (clear), platinum-cured
- **Removable Sleeve:** Polycarbonate

### NOTES

- **Validation and Extractables data can be requested at cpcworldwide.com/STC**

### DID YOU KNOW

Steam-Thru connectors are perfect for any hybrid processing at your facility. If using a stainless-steel bioreactor and single-use systems, easily make a sterile connection between the two systems with a Steam-Thru connector on your single-use system and mounting it directly onto your bioreactor.

### STEAM-THRU CONNECTIONS

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 CONNECTIONS

Steam-Thru II Connections offer the sterile flow path to single-use systems. Steam-Thru II Series connectors are perfect for any hybrid processing at your facility. If using a stainless-steel bioreactor and single-use systems, easily make a sterile connection between the two systems with a Steam-Thru connector on your single-use system and mounting it directly onto your bioreactor.

### OPERATING CONDITIONS

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>39°F to 104°F (4°C to 40°C)</td>
<td>Up to 30 psi, 2.1 bar (Steam-Thru) Up to 35 psi, 2.4 bar (Steam-Thru II)</td>
</tr>
<tr>
<td>265°F (129°C)</td>
<td>3.0 - 9.0 psi (20.7 kPa)</td>
</tr>
</tbody>
</table>

### FLOW POSITION

Temperature: 39°F to 104°F (4°C to 40°C)
Pressure: Vacuum to 20 psi, 1.4 bar

### STERILIZATION

- **Full Connector Assembly**
  - Gamma: Up to 50 kGy irradiation
  - Autoclave: Up to 250°F (122°C) for 60 minutes

### TYPICAL FLOW RATES

**Steam-Thru II**

3.0 - 9.0 for Steam-Thru II

**Steam-Thru II Hybrid**

3.0 - 9.0 for Steam-Thru II

### STEAM-THRU II TYPICAL FLOW RATES

**Steam-Thru II Hybrid**

3.0 - 9.0 for Steam-Thru II

### STEAM-THRU TERMINATIONS

- 3/8" (9.5mm) to 1/2" (12.7mm) ID hose barb (Steam-Thru)
- 3/4" (9.5mm) to 1/2" (12.7mm) ID hose barb and 3/4" sanitary (Steam-Thru II)

### STEAM-THRU II TERMINATIONS

- 3/4" (9.5mm) to 1/2" (12.7mm) ID hose barb (Steam-Thru II)
- 3/4" (9.5mm) to 1-1/2" (12.7mm) ID hose barb and 3/4" sanitary (Steam-Thru II)

### MATERIALS

- **Connection:** Polysulfone (amber tint)
- **O-rings:** Silicone (clear), platinum-cured
- **Removable Sleeve:** Polycarbonate

### NOTES

- ** 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.**

---

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cpcworldwide.com/bio · 1-800-519-7633
ASEPTIQUIK® STC II SERIES CONNECTORS

AseptiQuik® STC Connectors combine the AseptiQuik® sterile connector and the Steam-Thru® SIP connector, giving manufacturers greater flexibility between hybrid stainless steel and single-use processing equipment.

The union of the two connectors into a single unit through a sanitary clamp allows an AseptiQuik sterile connection to be steam on to stainless equipment via SIP. After the SIP cycle, a wide range of single-use systems can be connected.

OPERATING CONDITIONS
(Fluid Transfer)
Steam Position: Up to 275°F (135°C) (~31 psi) for 60 minutes

Pressure:
Up to 35 psi, 2.4 bar
Flow Position:
Temperature: 7.3°F to 104°F (4°C to 40°C)
Pressure: Up to 20 psi, 1.4 bar

PRESSURE
Up to 20 psi, 1.4 bar

MATERIALS:
Main Components:
AseptiQuik® - Polycarbonate (white)
Steam-Thru® II - Polysulfone (amber tint)
Seals: Silicone (clear), platinum-cured
Removable Sleeve: Polycarbonate (white)
Pull Tabs: Polycarbonate (blue, standard version)
Polyethylene (white, HT version)
Membrane: Hydrophilic polyethersulfone (HT versions), PTFE strip sticker

Clamp: Nylon 66 (white)

TERMINATIONS
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)

NOTE: Steam pressures are estimated based upon information in Steam Tables found in literature

Scan code to visit webpage
cpcworldwide.com/AseptiQuik-STC

NOTE Validation and Extractables data can be requested at cpcworldwide.com/AseptiQuik-STC

TERMINATIONS
3/4” (9.5mm) to 1/2” (12.7mm) ID hose barb
Steam-Thru
3/4” (9.5mm) to 1/2” (12.7mm) ID hose barb and 3/4” sanitary
Steam-Thru II

SPECIFICATIONS

PRODUCT DIMENSIONS

FEATURES
Genderless AseptiQuik
FPX-CLICK-PULL
CPC Click
Innovative three-port steam design
Sanitary interface between the two connectors

BENEFITS
Eases single-use systems specifications with one part number for both halves
Intuitive three-step connection process reduces risk of operator error
Audible confirmation of assembly with no additional hardware required
Allows a true steam-through SIP process which eliminates “dead legs”
Allows sterile connection and disconnection to stainless equipment and permits a high media flow rate
More secure connection than tubing with cable ties

DID YOU KNOW
The AQSSTC provides the same sterile hybrid technology as the Steam-Thru II, but in an even more compact form. The AQSSTC has an AseptiQuik mounted on the single-use port of the Steam-Thru Connector. Meaning fewer single-use systems mounted on your bioreactor during the SIP process. Connect the other end of the AQS at any point after the SIP process and before actuating to the flow position.

TYPICAL FLOW RATE:
Cv Value Range:
3 - 9 for AQGSTCII
1 - 2 for AQSSTC

FOR GAMMA IRRADIATION APPLICATIONS

CPC Click
AseptiQuik® - Polycarbonate with blue pull tabs and Steam-Thru II

COMBINATION PRODUCT - Polycarbonate with blue pull tabs and Steam-Thru II
For gamma irradiation applications.

Steam-Thru II

FOR AUToclAVE OR GAMMA IRRADIATION APPLICATIONS

CPC Click
AseptiQuik® - Polycarbonate with white pull tabs and Steam-Thru II

COMBINATION PRODUCT - Polycarbonate HT with white pull tabs and Steam-Thru II
For autoclave or gamma irradiation applications.
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