



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 biopharma 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 video 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.

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.

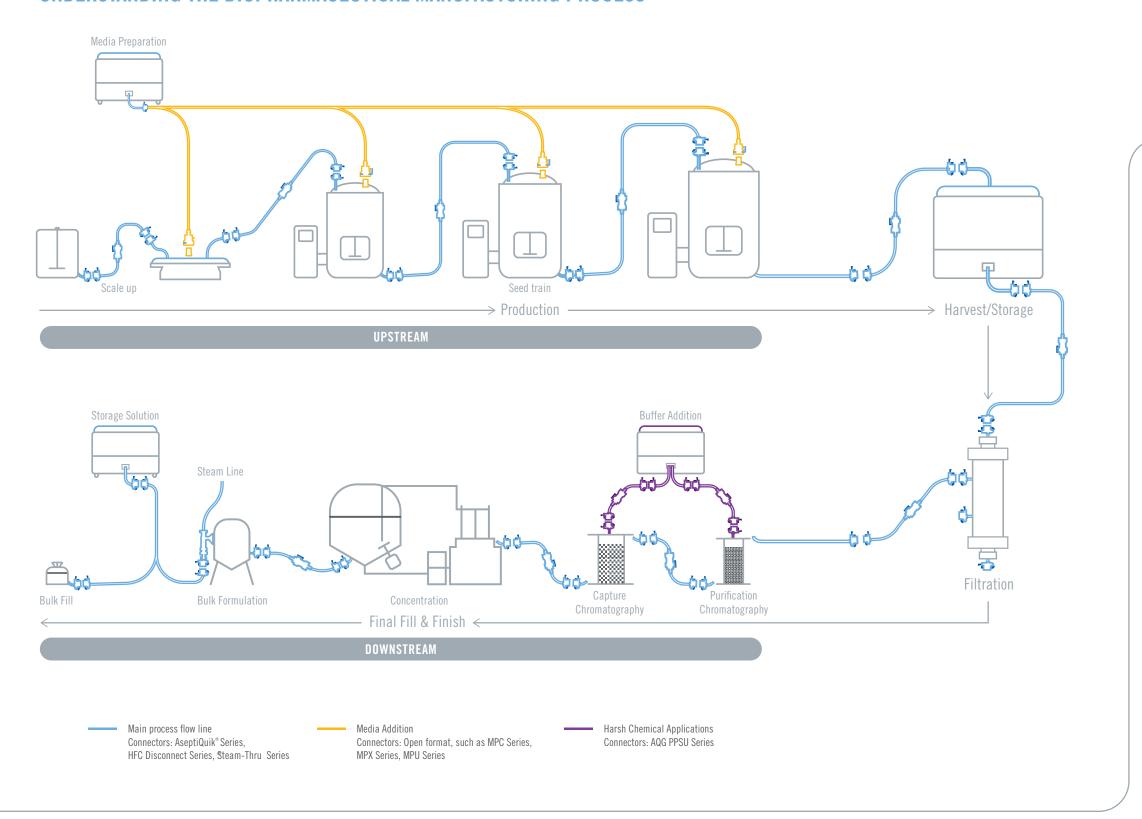
Safety and Quality Improves sterility assurance while decreasing the risk of cross-contamination and product loss.

Flexibility Facilitates multi-drug production and fast product changeover.

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. Sustainability



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.





ASEPTIC CONNECTION TECHNOLOGY* PAGES 10-23

12 MICROCNX™ SERIES CONNECTORS: Sterile connection for your 1/8" flow applications

MATERIAL: Polycarbonate, silicone

TERMINATIONS: 1/16"; 3/32" & 1/8" ID hose barb (1.6mm, 2.4mm and 3.2mm)



18 ASEPTIQUIK® S SERIES CONNECTORS: Sterile connection for your 1/4" flow applications

MATERIAL: Polycarbonate, silicone

TERMINATIONS: 1/8"; 1/4"; 3/8" ID hose barb (3.2mm, 6.4mm and 9.5mm); 1/4"; 3/4" sanitary & MPC insert



20 ASEPTIQUIK® G SERIES CONNECTORS: Sterile connection for your 1/2" flow applications

MATERIAL: Polyphenylsulfone, polycarbonate and silicone

TERMINATIONS: 1/4"; 3/8"; 1/2"; 3/4" ID hose barb (6.4mm, 9.5mm, 12.7mm, 19.0mm) & 3/4"; 1 1/2" sanitary



22 ASEPTIQUIK® L SERIES CONNECTORS: Sterile connection for your 1" flow applications

MATERIAL: Polycarbonate, silicone

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



STERILE DISCONNECTION TECHNOLOGY* PAGES 24-29

28 HFC DISCONNECT SERIES

MATERIAL: Polysulfone, alloy spring, and silicone

TERMINATIONS: 1/4"; 3/8" & 1/2" ID 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" ID hose barb (3.2mm, 6.4mm, 9.5mm)



 ${\bf 36\ MPX\ SERIES\ CONNECTORS:\ }{\it Open-format\ connection\ for\ your\ 1/2"\ flow\ applications$

MATERIAL: Polycarbonate, polysulfone, and silicone

TERMINATIONS: 3/8"; 1/2" ID 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 their tubing.

MATERIAL: Polycarbonate, polysulfone and silicone



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 3/4" flow applications

MATERIAL: Polysulfone and silicone

TERMINATIONS: 3/4" (19.0mm) & 1" ID (25.4 mm)



STEAM-IN-PLACE CONNECTION TECHNOLOGY PAGES 44-52

48 STEAM-THRU® SERIES CONNECTORS: Hybrid connection between stainless steel and single use applications

MATERIAL: Polysulfone and silicone

TERMINATIONS: 3/8" & 1/2" ID hose barb (9.5mm & 12.7mm) 3/4"; 1 1/2" sanitary



50 ASEPTIQUIK® 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 1/2" sanitary







^{*}If you don't see a product line, please contact your CPC representative for more information.



THE END OF THE WELD IS HERE.

INTRODUCING MICCOCK SERIES CONNECTORS



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









MICROCNXTM SERIES CONNECTORS

MicroCNXTM 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.



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)

TERMINATIONS1/16", 3/32" 1/8" ID hose barb (1.6mm, 2.4mm, 3.2mm)

MATERIALS

Main Components: Polycarbonate (white), USP Class VI, ADCF

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

Protective Cover: Polypropylene (teal), USP Class VI, ADCF

Membrane: Hydrophobic Polyethersulfone, USP Class VI

STERILIZATION

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

FEATURES

Genderless —

CPC Click -

BENEFITS

Intuitive three-step connection process reduces risk of operator error

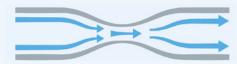
Lowers risk of operator error and related performance, reliability and safety concerns

Eases single-use systems specifications with one part number for both halves

Audible confirmation of assembly with no additional hardware required

TYPICAL FLOW RATE

Cv Value Range: 0.04-0.27 for MicroCNX 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.

Caution: CPC does not recommend the use of PVC tubing with the polycarbonate MicroCNXTM Series Connectors. Leachables 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.

NOTE

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

DID YOU KNOW

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

Scan code to visit webpage



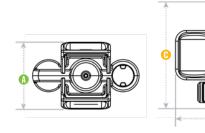
cpcworldwide.com/MicroCNX

MICROCNX™ SERIES DIMENSIONS AND WEIGHTS

POLYCARBONATE with teal cover *For autoclave or gamma irradiation applications.*



PRODUCT DIMENSIONS



♠ = Height
 ♠ = Total Length
 ♠ = Total Width

MICROCNX™ CONNECTORS ASSEMBLY PROCEDURE

Remove the protective cover on each half.





Caution: CPC does not recommend the use of PVC tubing with the polycarbonate MicroCNXTM Series Connectors. Leachables 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.





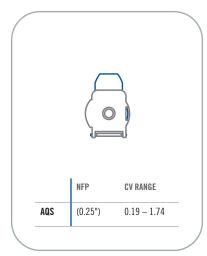
WHAT IS ASEPTIQUIK® STERILE TECHNOLOGY?

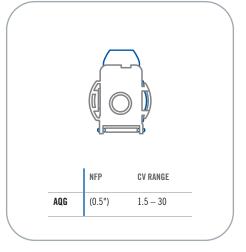
AseptiQuik® Connectors provide quick and easy sterile connections, even in non-sterile environments—a critical capability for biopharmaceutical manufacturers. Featuring a straightforward, simple three-step connection process and a wide range of termination options—including 1/8- to 1 1/2-inch sizes and 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.

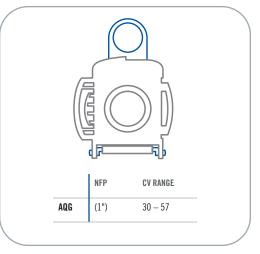


FEATURES BENEFITS Eases integration of single-use systems with universal mating between connectors of the same Genderless design Repeatable and reliable performance with no Rubust construction additional hardware required Innovative three-step connection process reduces risk FLIP-CLICK-PULL of operator error Pull tabs act as protective cover reducing part Integrated pull tab covers complexity and ensure simultaneous removal of both membranes CPC Click Audible confirmation of assembly

NOMINAL FLOW PATH (NFP) SIZE





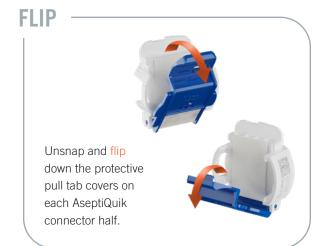


Cv values represent the approximate expected flow rate in gallons per minute of water at room temperature for a 1 PSI pressure drop. The flow is generally constrained by the smallest diameter, which in some cases will be the termination diameter and not the NFP.

ASEPTIQUIK CONNECTORS OPTIONS

| | | TERMINATIONS | | | | | | MA | ATERIA | | (CHO | IZATION DSE 1) | | FLOW Rmation | | |
|------------------------------|-----|--------------|--------------|----------|---------------------|----------|----|------------|----------|---------------|-----------------|-------------------|----------|-----------------|------|-----------------|
| | | HOSE BARB | | | SANITARY FLANGES | | | THE POLICE | SOMAL | CHINA WISHING | Alloca III PATE | THE WORLD | ON CHIEF | | | |
| | 100 | Jai | مارة ماري | 17 | Sli | 2 | 14 | 3/li | 1/1 | SILIM | POLICE | POTON | CHIM | All College | MINE | St. MOI. HAI.D. |
| ASEPTIQUIK® S SERIES | ✓ | ✓ | ✓ | | | | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ | 1/4" | 0.19 – 1.74 |
| ASEPTIQUIK® G SERIES | | ✓ | ✓ | ✓ | √ | | | ✓ | ✓ | ✓ | ✓ | | ✓ | √ | 1/2" | 1.5 - 31 |
| ASEPTIQUIK® G PPSU SERIES | | ✓ | ✓ | √ | ✓ | | | ✓ | | ✓ | | ✓ | ✓ | | 1/2" | 1.5 - 31 |
| ASEPTIQUIK® L SERIES | | | | | ✓ | ✓ | | | ✓ | ✓ | ✓ | | ✓ | ✓ | 1" | 30-57 |

ASEPTIQUIK CONNECTORS ASSEMBLY PROCEDURE



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

CPC

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

ASEPTIQUIK® S SERIES CONNECTORS

AseptiQuik® 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.



SPECIFICATIONS

OPERATING PRESSUREUp 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 couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

FEATURES

Genderless

FLIP-CLICK-PULL

CPC Click

AQS-MPC Combination

AQS 1/4" Sani with Smooth Bore

BENEFITS

Eases single-use systems specifications with onepart 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 singleuse 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



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.

Scan code to visit webpage



cpcworldwide.com/AseptiQuik-S

NOTE

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

DID YOU KNOW

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

ASEPTIQUIK S SERIES DIMENSIONS

POLYCARBONATE with blue pull tabs - For gamma irradiation applications.



| TERMINATION | METRIC EQ. | PART NO. | A | В | C |
|----------------|------------|----------|-----------------|-----------------|-----------------|
| 1/8" HOSE BARB | 3.2 mm | AQS17002 | 2.25" (57.2 mm) | 1.30" (33.0 mm) | 0.50" (12.7 mm) |
| 1/4" HOSE BARB | 6.4 mm | AQS17004 | 2.25" (57.2 mm) | 1.45" (36.8 mm) | 0.65" (16.5 mm) |
| 1/4" SANITARY | 6.4 mm | AQS33004 | 2.25" (57.2 mm) | 1.50" (38.1 mm) | 0.70" (17.8 mm) |
| 3/8" HOSE BARB | 9.5 mm | AQS17006 | 2.25" (57.2 mm) | 1.45" (36.8 mm) | 0.65" (16.5 mm) |
| 3/4" SANITARY | 19.1 mm | AQS33012 | 2.25" (57.2 mm) | 1.60" (40.6 mm) | 0.80" (20.3 mm) |
| MPC INSERT | | AQS17MPC | 2.25" (57.2 mm) | 1.49" (37.9 mm) | 0.69" (17.5 mm) |

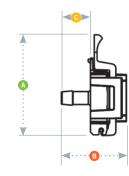
POLYCARBONATE HT with white pull tabs - For autoclave or gamma irradiation applications.

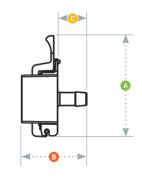


| TERMINATION | METRIC EQ. | PART NO. | A | B | C |
|----------------|------------|------------|-----------------|-----------------|-----------------|
| 1/8" HOSE BARB | 3.2 mm | AQS17002HT | 2.25" (57.2 mm) | 1.30" (33.0 mm) | 0.50" (12.7 mm) |
| 1/4" HOSE BARB | 6.4 mm | AQS17004HT | 2.25" (57.2 mm) | 1.45" (36.8 mm) | 0.65" (16.5 mm) |
| 1/4" SANITARY | 6.4 mm | AQS33004HT | 2.25" (57.2 mm) | 1.50" (38.1 mm) | 0.70" (17.8 mm) |
| 3/8" HOSE BARB | 9.5 mm | AQS17006HT | 2.25" (57.2 mm) | 1.45" (36.8 mm) | 0.65" (16.5 mm) |
| 3/4" SANITARY | 19.1 mm | AQS33012HT | 2.25" (57.2 mm) | 1.60" (40.6 mm) | 0.80" (20.3 mm) |
| MPC INSERT | | AQS17MPCHT | 2.25" (57.2 mm) | 1.49" (37.9 mm) | 0.69" (17.5 mm) |

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PRODUCT DIMENSIONS





| A = Height/Diameter |
|----------------------|
| B = Total Length |
| (= Hose Barb Length |

NOTES



ASEPTIQUIK® G **SERIES CONNECTORS**

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

TERMINATIONS

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), (standard and HT versions) Polyphenylsulfone (off white) (PPSU version)

Pull Tabs/Caps:

Polycarbonate (blue, standard), (white, HT version), (purple, PPSU version)

Seals:

Silicone (clear), platinum-cured

Membranes:

Polyethylene (standard and PPSU versions), Hydrophobic polyethersulfone (HT version), PTFE strip sticker

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

FEATURES

Genderless FLIP-CLICK-PULL

CPC Click

Chemical Compatibility and pH Range

BPA-free

BENEFITS

Eases single-use systems specifications with onepart number for both halves

Intuitive three-step connection process reduces risk of operator error

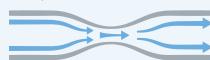
Audible confirmation of connection with no additional hardware required

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:

Cv Value Range: 1.5 - 31 for AseptiQuik G



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.

Scan code to visit webpage



cpcworldwide.com/AseptiQuik-G

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NOTE

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

DID YOU KNOW

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

ASEPTIQUIK G SERIES DIMENSIONS

POLYCARBONATE with blue pull tabs - For gamma irradiation applications.



| TERMINATION | METRIC EQ. | PART NO. | Δ | B | G |
|-----------------|------------|----------|-----------------|-----------------|-----------------|
| 1/4" HOSE BARB | 6.4 mm | AQG17004 | 2.62" (66.6 mm) | 1.62" (41.2 mm) | 0.82" (20.8 mm) |
| 3/8" HOSE BARB | 9.5 mm | AQG17006 | 2.62" (66.6 mm) | 1.62" (41.2 mm) | 0.82" (20.8 mm) |
| 1/2" HOSE BARB | 12.7 mm | AQG17008 | 2.62" (66.6 mm) | 1.95" (49.5 mm) | 1.15" (29.2 mm) |
| 3/4" HOSE BARB | 19.1 mm | AQG17012 | 2.62" (66.6 mm) | 2.36" (59.9 mm) | 1.56" (39.6 mm) |
| 3/4" SANITARY | 19.1 mm | AQG33012 | 2.62" (66.6 mm) | 1.66" (42.2 mm) | 0.86" (21.8 mm) |
| 1-1/2" SANITARY | 38.1 mm | AQG33024 | 2.62" (66.6 mm) | 2.86" (72.6 mm) | 2.02" (51.3 mm) |

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



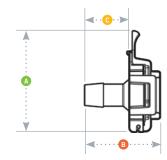
| TERMINATION | METRIC EQ. | PART NO. | A | В | C |
|-----------------|------------|------------|-----------------|-----------------|-----------------|
| 1/4" HOSE BARB | 6.5 mm | AQG17004HT | 2.62" (66.6 mm) | 1.62" (41.2 mm) | 0.82" (20.8 mm) |
| 3/8" HOSE BARB | 9.5 mm | AQG17006HT | 2.62" (66.6 mm) | 1.62" (41.2 mm) | 0.82" (20.8 mm) |
| 1/2" HOSE BARB | 12.7 mm | AQG17008HT | 2.62" (66.6 mm) | 1.95" (49.5 mm) | 1.15" (29.2 mm) |
| 3/4" HOSE BARB | 19.1 mm | AQG17012HT | 2.62" (66.6 mm) | 2.36" (59.9 mm) | 1.56" (39.6 mm) |
| 3/4" SANITARY | 19.1 mm | AQG33012HT | 2.62" (66.6 mm) | 1.66" (42.2 mm) | 0.86" (21.8 mm) |
| 1-1/2" SANITARY | 38.1 mm | AQG33024HT | 2.62" (66.6 mm) | 2.86" (72.6 mm) | 2.02" (51.3 mm) |

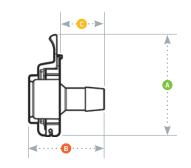
POLYPHENYLSULFONE with purple pull tabs - For gamma irradiation applications.



| TERMINATION 1/4" HOSE BARB | METRIC EQ. 6.4 mm | PART NO. AQG17104 | A 2.62" (66.6 mm) | B 1.62" (41.2 mm) | C 0.82" (20.8 mm) |
|----------------------------|----------------------|----------------------|-------------------|----------------------|-------------------|
| 3/8" HOSE BARB | 9.5 mm | AQG17106 | 2.62" (66.6 mm) | 1.62" (41.2 mm) | 0.82" (20.8 mm) |
| 1/2" HOSE BARB | 12.7 mm | AQG17108 | 2.62" (66.6 mm) | 1.95" (49.5 mm) | 1.15" (29.2 mm) |
| 3/4" HOSE BARB | 19.1 mm | AQG17112 | 2.62" (66.6 mm) | 2.36" (59.9 mm) | 1.56" (39.6 mm) |
| 3/4" SANITARY | 19.1 mm | AQG33112 | 2.62" (66.6 mm) | 1.66" (42.2 mm) | 0.86" (21.8 mm) |

PRODUCT DIMENSIONS







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

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.

FEATURES

Genderless FLIP-CLICK-PULL

CPC Click

Large Internal Diameter

BENEFITS

Eases single-use systems specifications with onepart number for both halves

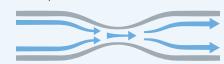
Intuitive three-step connection process reduces risk of operator error

Audible confirmation of connection with no additional hardware required

Fast and efficient fluid transfer of large volumes under low pressures

TYPICAL FLOW RATE:

Cv Value Range: 30 - 57 for AseptiQuik L



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.

Scan code to visit webpage



cpcworldwide.com/AseptiQuik-L

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NOTE

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

ASEPTIQUIK L SERIES DIMENSIONS

Polycarbonate with blue pull tabs - For gamma irradiation applications.



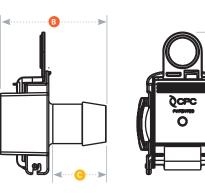
| TERMINATION | METRIC EQ. | PART NO. | A | В | 0 |
|-----------------|------------|----------|------------------|-----------------|-----------------|
| 3/4" HOSE BARB | 6.4 mm | AQL17012 | 4.22" (107.2 mm) | 2.95" (74.9 mm) | 1.50" (38.1 mm) |
| 1" HOSE BARB | 25.4 mm | AQL17016 | 4.22" (107.2 mm) | 3.15" (80.0 mm) | 1.70" (43.2 mm) |
| 1-1/2" SANITARY | 38.1 mm | AQL33024 | 4.22" (107.2 mm) | 3.40" (86.4 mm) | 1.95" (49.5 mm) |

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



| TERMINATION | METRIC EQ. | PART NO. | A | В | C |
|-----------------|------------|------------|------------------|-----------------|-----------------|
| 3/4" HOSE BARB | 6.4 mm | AQL17012HT | 4.22" (107.2 mm) | 2.95" (74.9 mm) | 1.50" (38.1 mm) |
| 1" HOSE BARB | 25.4 mm | AQL17016HT | 4.22" (107.2 mm) | 3.15" (80.0 mm) | 1.70" (43.2 mm) |
| 1-1/2" SANITARY | 38.1 mm | AQL33024HT | 4.22" (107.2 mm) | 3.40" (86.4 mm) | 1.95" (49.5 mm) |

PRODUCT DIMENSIONS



- A = Height/Diameter
- B = Total Length
- c = Hose Barb Length



when choosing sterile connectors.







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1 EASE OF USE 2 RELIABILITY 3 ACCESSIBILITY



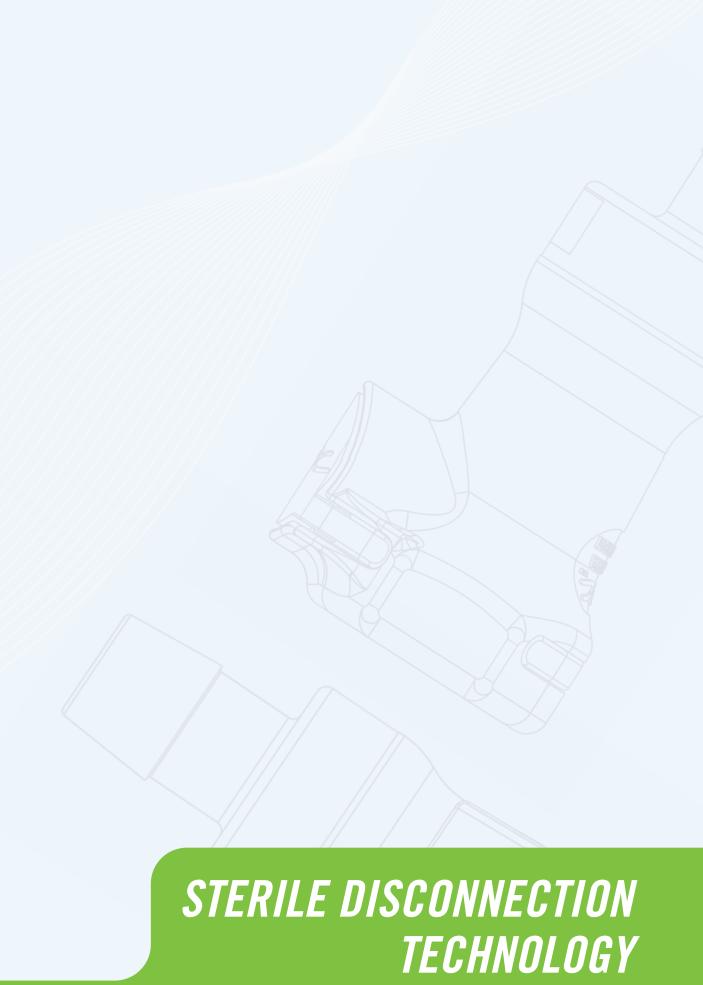


https://www.cpcworldwide.com/Blog/post/how-to-choose-sterile-connectors









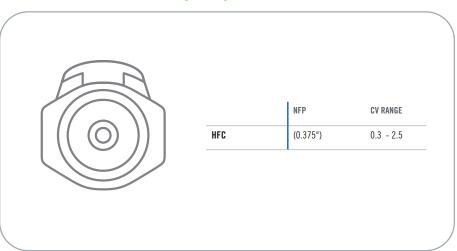
WHAT IS STERILE DISCONNECTION TECHNOLOGY?

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 | BENEFITS |
|---|--|
| Intuitive one-step disconnection process \longrightarrow | No requirement for additional equipment to make sterile disconnection Minimize operator error and ease standard operation procedure creation and training |
| Automatic shutoff valves \longrightarrow | Stop flow upon disconnect |
| Protective thumb latch cover ———————————————————————————————————— | Eliminate accidental disconnects |
| Laser marked item number and lot number \longrightarrow | Full traceability to raw material source |
| Alloy C-276 internal flow path spring ———— | Enable broader application compatibility |

NOMINAL FLOW PATH (NFP) SIZE



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.



HFC DISCONNECT OPTIONS

| | TERMINATIONS | | MATE | RIALS | PRODUCT Feature | | IZATION DSE 1) | INFO | FLOW Drmation | |
|--------------------|--------------|----------|----------|----------|--------------------|---|-------------------|---|--|----------------|
| | ŀ | HOSE BAR | B | SILIBIN | od His | | SHIM COL | THE REAL PROPERTY OF THE PARTY | A THUMING THE STATE OF THE STAT | THE WASHINGTON |
| CONNECTED SET | √ | √ · | <u> </u> | √ | ✓ | ✓ | ✓ ✓ | ✓ × | 3/8" | 0.3 – 2.5 |
| UNCONNECTED HALVES | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | √ | 3/8" | 0.3 – 2.5 |

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HFC DISCONNECT PROCEDURE







HFC DISCONNECT **SERIES CONNECTORS**

HFC Disconnects enable sterile disconnection of singleuse biopharma 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 batch traceability.



SPECIFICATIONS

OPERATING PRESSURE Up to 75 psi, 5.17 bar

OPERATING TEMPERATURE 34° F to 104° F (1° C to 40°C)

STERILIZATION

Gamma: Up to 50 kGy irradiation Autoclave: Up to 270°F (132°C), 60 minutes, one cycle

TERMINATIONS

1/4". 3/8" and 1/2" ID hose barb (6.4mm, 9.5mm and 12.7mm)

MATERIALS

Main components:

Polysulfone (amber tint)

0-rings: Silicone (clear), platinum-cured Flow Path Springs: Alloy C-276

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.

Scan code to visit webpage



cpcworldwide.com/HFC-Disconnect

FEATURES

Intuitive one-step disconnection process

Automatic shutoff valves

Protective thumb latch cover

Laser etched item number and lot number — Full traceability to raw material source

Alloy C-276 internal flow path spring ————— Enabling broader application compatibility

BENEFITS

No requirement for additional equipment to make sterile disconnection

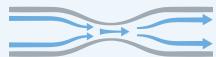
> Stop flow and eliminate need for pinch clamps

→ Guard against accidental disconnects

TYPICAL FLOW RATE:

Cv Value Range: 0.3 - 2.5

for HFC Disconnect



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

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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).

HFC DISCONNECT SERIES DIMENSIONS

COUPLING SETS - Polysulfone



| TERMINATION | METRIC EQ. | PART NO. | Δ | В |
|----------------|------------|--------------|-----------------|-----------------|
| 1/4" HOSE BARB | 6.4 mm ID | HFCD39SET4HC | 1.53" (38.8 mm) | 3.71" (94.3 mm) |
| 3/8" HOSE BARB | 9.5 mm ID | HFCD39SET6HC | 1.53" (38.8 mm) | 3.71" (94.3 mm) |
| 1/2" HOSE BARB | 12.5 mm ID | HFCD39SET8HC | 1.53" (38.8 mm) | 4.29" (109 mm) |

COUPLING BODIES - Polysulfone



| TERMINATION | METRIC EQ. | PART NO. | A | В |
|----------------|------------|--------------|-----------------|-----------------|
| 1/4" HOSE BARB | 6.4 mm ID | HFCD17439MHC | 1.44" (36.6 mm) | 2.82" (71.6 mm) |
| 3/8" HOSE BARB | 9.5 mm ID | HFCD17639MHC | 1.44" (36.6 mm) | 2.82" (71.6 mm) |
| 1/2" HOSE BARB | 12.5 mm ID | HFCD17839MHC | 1.44" (36.6 mm) | 2.82" (71.6 mm) |

COUPLING INSERTS - Polysulfone



| TERMINATION | METRIC EQ. | PART NO. | A | В |
|----------------|------------|--------------|-----------------|-----------------|
| 1/4" HOSE BARB | 6.4 mm ID | HFCD22439MHC | 1.00" (25.4 mm) | 2.02" (51.3 mm) |
| 3/8" HOSE BARB | 9.5 mm ID | HFCD22639MHC | 1.00" (25.4 mm) | 2.02" (51.3 mm) |
| 1/2" HOSE BARB | 12.5 mm ID | HFCD22839MHC | 1.00" (25.4 mm) | 2.02" (51.3 mm) |

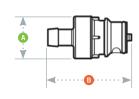
MATING PARTS

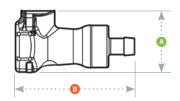


| PART | PART NO. | Δ | В |
|--------------|-----------|-----------------|-----------------|
| SEALING CAP | HFC32039 | 1.44" (36.6 mm) | 2.73" (69.3 mm) |
| SEALING PLUG | HFC30039M | 1.00" (25.4 mm) | 1.81" (46.0 mm) |

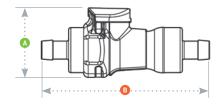
All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted.

PRODUCT DIMENSIONS





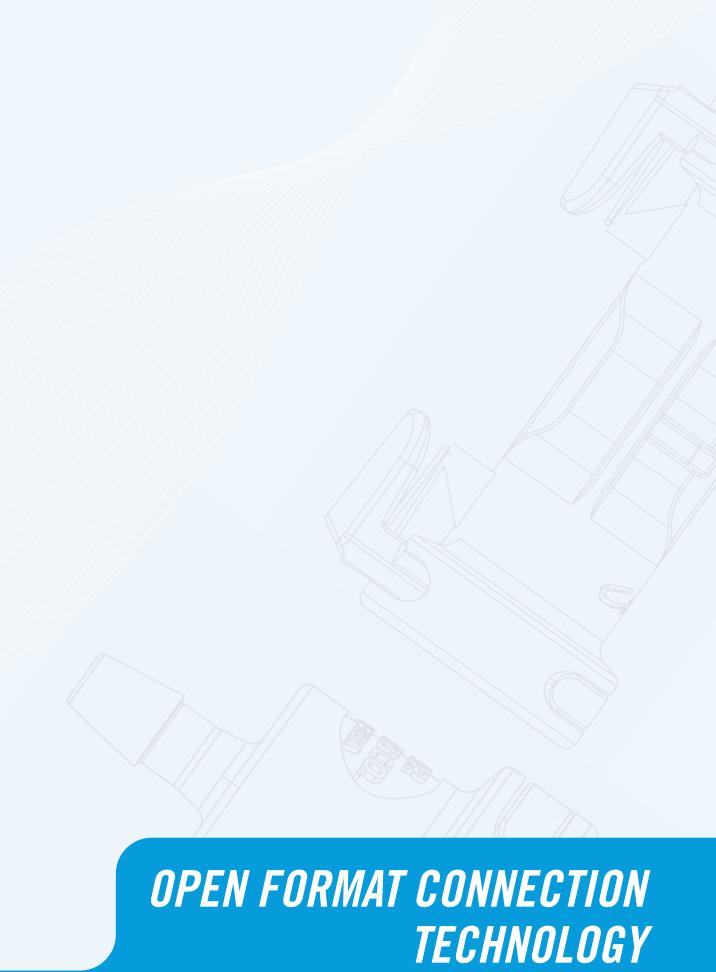
A = Height/Diameter B = Total Length











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.

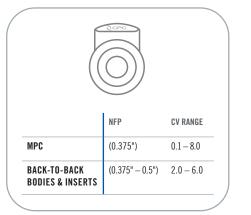
Sanitary adapters within the MPC and MPX product lines facilitate integration of components into single-use or hybrid (single-use to stainless) process systems.

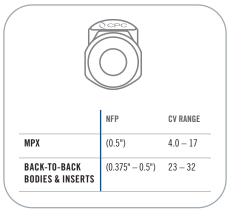
Back-to-back adapters within the MPC and MPX product lines can be used to connect two identical body components or insert components. For additional flexibility, reducer options enable connection between an MPC and MPX product to link 1/8" to 1/2" ID tubing.

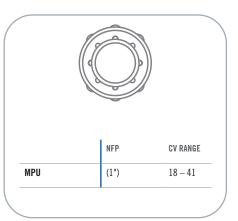


| FEATURES | BENEFITS |
|--|--|
| | Easy to operate — even with gloved hands |
| Parting line-free hose barb —————————————————————————————————— | Creates seamless connection to tubing |
| Optional locking sleeve (MPC, MPX) \longrightarrow | Prevents accidental disconnection |
| Mix and match termination sizes ———————————————————————————————————— | Enables flexibility in your application |

NOMINAL FLOW PATH (NFP) SIZE





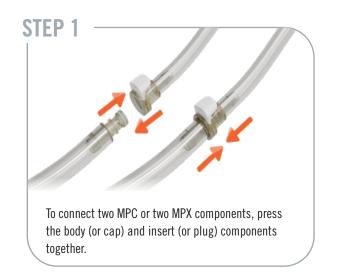


Cv values represent the approximate expected flow rate in gallons per minute of water at room temperature for a 1 PSI pressure drop. The flow is generally constrained by the smallest diameter, which in some cases will be the termination diameter and not the NFP

OPEN FORMAT CONNECTION OPTIONS

| | | TERMINATIONS | | | | | | PRODUCT FLOW-PATH FEATURES MATERIALS | | | STERILIZATION (CHOOSE 1) FLOW INFORMATION | | | | | |
|----------------------------|----|--------------|------|----------|-----|----------|----------|--|--|----------|---|----------|--------------------|--|--|--|
| | | | HOSE | BARB | | | SANI | ITARY | THE WAS THE PARTY OF THE PARTY | | H. H | SOME | - - - | THE COMPANY OF THE PERSON OF T | THE WALL IN THE PARTY OF THE PA | THE SHAPE TO SHAPE THE PARTY OF |
| | 18 | Įū. | 3/6 | J. | 3/4 | 2 | 3/4 | 1.17 | THE WAY OF THE PARTY OF THE PAR | SILCO | NE SULLE | A SOL | THE WILLIAM | AUGUSTAN AUGUSTAN | NOW NEW YORK | CAMPIN |
| MPC | ✓ | ✓ | ✓ | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1/4" | 0.1 – 8.0 |
| MPC SANITARY | | | | | | | ✓ | ✓ | | ✓ | | ✓ | ✓ | ✓ | 1/4" | 0.1 – 8.0 |
| MPC BACK-TO-BACK BODIES | | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | 1/4" - 1/2" | 2.0 - 6.0 |
| MPC BACK-TO-BACK INSERTS | | | | | | | | | | ✓ | | ✓ | ✓ | ✓ | 1/4" - 1/2" | 2.0 – 6.0 |
| MPX | | | ✓ | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1/2" | 4.0 – 17 |
| MPX SANITARY | | | | | | | ✓ | ✓ | | ✓ | | ✓ | ✓ | 1 | 1/2" | 4.0 – 17 |
| MPX BACK-TO-BACK Bodies | | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | 1/4" - 1/2" | 23 – 32 |
| MPX BACK-TO-BACK INSERTS | | | | | | | | | | ✓ | | ✓ | ✓ | ✓ | 1/4" - 1/2" | 23 – 32 |
| MPU | | | | | ✓ | ✓ | | | | ✓ | | ✓ | ✓ | ✓ | 1" | 18 – 41 |

MPC/MPX ASSEMBLY PROCEDURE





NOTE: 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.





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.



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

1/8" to 3/8" ID (3.2mm to 9.5mm)

MATERIALS

Main components:

Polycarbonate (purple tint) Polysulfone (amber tint)

Locking sleeves:

Polysulfone (white)

Thumb Latches:

Polycarbonate (white)

PVDF (white)

0-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.

FEATURES

Ergonomic thumb latch

BENEFITS

 \rightarrow Easy to operate – even with gloved hands

Parting line-free hose barb Prevent potential leak path

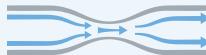
Optional locking sleeve Prevents accidental disconnection

Various options on termination Better flexibility to fit more applications size and material

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.

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.

COUPLING BODIES





MPC SERIES DIMENSIONS



| TERMINATION | METRIC EQ. | POLYCARBONATE Part no. | POLYSULFONE Part no. | A | В |
|------------------------|------------|---------------------------|-------------------------|-----------------|-----------------|
| 1/8" HOSE BARB | 3.2 mm ID | MPC17002T03 | MPC17002T39 | 0.96" (24.4 mm) | 1.10" (27.9 mm) |
| 1/4" HOSE BARB | 6.4 mm ID | MPC17004T03 | MPC17004T39 | 0.96" (24.4 mm) | 1.30" (33.0 mm) |
| 3/8" HOSE BARB | 9.5 mm ID | MPC17006T03 | MPC17006T39 | 0.96" (24.4 mm) | 1.30" (33.0 mm) |
| 1/8" HOSE BARB W/ LOCK | 3.2 mm ID | MPCK17002T03 | MPCK17002T39 | 1.02" (25.9 mm) | 1.10" (27.9 mm) |
| 1/4" HOSE BARB W/ LOCK | 6.4 mm ID | MPCK17004T03 | MPCK17004T39 | 1.02" (25.9 mm) | 1.30" (33.0 mm) |
| 3/8" HOSE BARB W/ LOCK | 9.5 mm ID | MPCK17006T03 | MPCK17006T39 | 1.02" (25.9 mm) | 1.30" (33.0 mm) |

COUPLING INSERTS



| TERMINATION | METRIC EQ. | POLYCARBONATE Part no. | POLYSULFONE Part no. | A | B |
|----------------|------------|---------------------------|-------------------------|-----------------|-----------------|
| 1/8" HOSE BARB | 3.2 mm ID | MPC22002T03M | MPC22002T39M | 0.60" (15.2 mm) | 1.09" (27.7mm) |
| 1/4" HOSE BARB | 6.4 mm ID | MPC22004T03M | MPC22004T39M | 0.60" (15.2 mm) | 1.30" (33.0 mm) |
| 3/8" HOSE BARB | 9.5 mm ID | MPC22006T03M | MPC22006T39M | 0.60" (15.2 mm) | 1.30" (33.0 mm) |

SEALING COMPONENTS



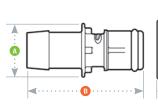




| SEALING CAP | W/LOCK | MATERIAL | A | B |
|---------------------------|-----------|------------------------|--------------------------|-----------------|
| MPC32003 | MPCK32003 | Polycarbonate | 0.96" (24.4 mm) | 1.30" (33.0 mm) |
| MPC32039 | MPCK32039 | Polysulfone | 0.99" (25.2 mm) | 1.30" (33.0 mm) |
| | | | | |
| SEALING PLUG | | MATERIAL | A | B |
| SEALING PLUG MPC30003M | | MATERIAL Polycarbonate | A 0.75" (19.1 mm) | |
| | | | | 1.24" (31.5 mm) |

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PRODUCT DIMENSIONS





A = Height/Diameter

B = Total Length

Scan code to visit webpage



cpcworldwide.com/MPC



SERIES CONNECTORS

MPX Series Connectors add ease of use and security to your media transfer 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.



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)

0-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.

FEATURES

BENEFITS

 \rightarrow Easy to operate – even with gloved hands Ergonomic thumb latch

> Prevents potential leak path Parting line-free hose barb -

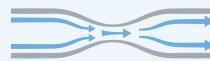
Optional locking sleeve Prevents accidental disconnection

Mix and match termination sizes — → Enables flexiblity in your system and/or application

TYPICAL FLOW RATE:

Cv Value Range: 4 - 17

for MPX



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.

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

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/MPX

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MPX SERIES DIMENSIONS

COUPLING BODIES







| TERMINATION | METRIC EQ. | FLOW | POLYCARBONATE Part no. | POLYSULFONE Part no. | A | В |
|---------------------------|------------|------|---------------------------|-------------------------|-----------------|-----------------|
| 1/2" ID HOSE BARB | 12.7 mm ID | .50" | MPX17803 | MPX17839 | 1.28" (32.5 mm) | 1.96" (49.8 mm) |
| 1/2" ID HOSE BARB W/ LOCK | 12.7 mm ID | .50" | MPXK17803 | MPXK17839 | 1.28" (32.5 mm) | 1.96" (49.8 mm) |

COUPLING INSERTS



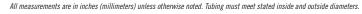
| TERMINATION | METRIC EQ. | FLOW | POLYCARBONATE Part no. | POLYSULFONE Part no. | Δ | В |
|----------------|------------|------|---------------------------|-------------------------|-----------------|-----------------|
| 3/8" HOSE BARB | 9.5 mm ID | .38" | MPX22603M | MPX22639M | 0.85" (21.6 mm) | 1.90" (48.3 mm) |
| 1/2" HOSE BARB | 12.7 mm ID | .50" | MPX22803M | MPX22839M | 0.85" (21.6 mm) | 1.90" (48.3 mm) |

SEALING COMPONENTS



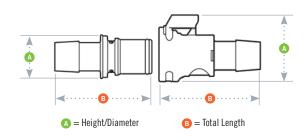


| SEALING CAP | W/LOCK | MATERIAL | A | B |
|---------------------------|-----------|------------------------|----------------------|----------------------|
| MPX32003 | MPXK32003 | Polycarbonate | 1.28" (32.5 mm) | 1.67" (42.4 mm) |
| MPX32039 | MPXK32039 | Polysulfone | 1.28" (32.5 mm) | 1.67" (42.4 mm) |
| | | | | |
| | | | | |
| SEALING PLUG | | MATERIAL | Δ | В |
| SEALING PLUG MPX30003M | | MATERIAL Polycarbonate | A 1.10" (27.9 mm) | B 1.66" (42.2 mm) |
| | | | | |



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PRODUCT DIMENSIONS







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 1/8" to 1/2".



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 Sterlize uncoupled only

Polysulfone: Up to 270°F (132°C), 60 minutes, up to 25 repetitions Sterlize uncoupled only

MATERIALS

Main Components:

Polycarbonate (purple tint) Polysulfone (amber tint)

Thumb Latches:

Polycarbonate (white) PVDF (white)

0-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.

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

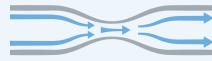
Allows easy transition between multiple size tubing from 1/8" to 1/2" ID

Easy to operate — even with gloved hands

TYPICAL FLOW RATE:

Cv Value Range: 2 - 32

for Back-to-Back hose barb terminations



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.

Scan code to visit webpage



cpcworldwide.com/Back-to-Back-Adapters

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NOTE

Validation and Extractables data can be requested at

cpcworldwide.com/Back-to-Back-Adapters

DID YOU KNOW

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

MPC/MPX BACK-TO-BACK SERIES DIMENSIONS

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



| PART NO. | TYPE | A | В | |
|-------------|------------|--------------|--------------|--|
| MPC22C2239M | MPC to MPC | 0.74" (18.8) | 2.04" (51.0) | |
| MPC22X2239M | MPC to MPX | 0.98" (25.0) | 2.42" (61.5) | |
| MPX22X2239M | MPX to MPX | 0.98" (25.0) | 2.73" (69.5) | |

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



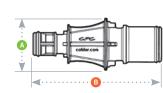
| PART NO. | TYPE | A | В | |
|------------|------------|--------------|--------------|--|
| MPC17C1703 | MPC to MPC | 0.96" (24.5) | 1.81" (46.0) | |
| MPX17X1703 | MPX to MPX | 1.28" (32.5) | 2.44" (62.0) | |
| MPC17X1703 | MPC to MPX | 1.28" (32.5) | 2.13" (54.1) | |

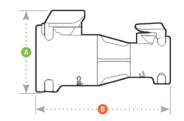
MPC/MPX BACK-TO-BACK BODY ADAPTERS - Polysulfone



| PART NO. | TYPE | A | В |
|------------|------------|--------------|--------------|
| MPC17C1739 | MPC to MPC | 0.96" (24.5) | 1.81" (46.0) |
| MPX17X1739 | MPX to MPX | 1.28" (32.5) | 2.44" (62.0) |
| MPC17X1739 | MPC to MPX | 1.28" (32.5) | 2.13" (54.1) |

PRODUCT DIMENSIONS





| A = Height/Diame |
|-------------------------|
| B = Total Length |

NOTES



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.



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)

0-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.

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

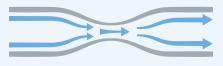
Provides flexibility to easily convert sanitary terminations on filter cartridge or equipment

→ Meet BSE/TSE requirements

NOTE

TYPICAL FLOW RATE:

Cv Value Range: 3 - 17



Cv values represent the approximate expected flow rate in gallons pe 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.

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

DID YOU KNOW

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

Scan code to visit webpage



cpcworldwide.com/Sanitary

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MPC/MPX SANITARY SERIES DIMENSIONS

COUPLING BODIES - Polysulfone



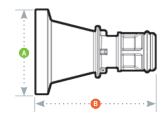
| PART NO. | SIZE | A | B | C |
|------------|------|--------------|--------------|--------------|
| MPC3301239 | 3/4" | 0.98" (24.9) | 1.40" (35.6) | 1.0" (25.4) |
| MPX3301239 | 3/4" | 1.28" (32.5) | 1.70" (43.2) | 1.0" (25.4) |
| MPC3301639 | 1" | 1.50" (38.1) | 1.40" (35.6) | 1.50" (38.1) |

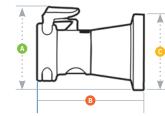
COUPLING INSERTS - Polysulfone



| PART NO. | SIZE | A | 0 |
|--------------|--------|--------------|--------------|
| MPC44012T39M | 3/4" | 0.98" (24.9) | 1.40" (35.6) |
| MPC44024T39M | 1-1/2" | 1.98" (50.3) | 1.40" (35.6) |
| MPX44012T39M | 3/4" | 0.98" (24.9) | 1.71" (43.4) |
| MPX44024T39M | 1-1/2" | 1.98" (50.3) | 1.71" (43.4) |

PRODUCT DIMENSIONS





A = Height/Diameter B = Total Length

Sanitary Flange Diameter

| П | n | т | \mathbf{r} | |
|----|---|---|--------------|---|
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| | | | _ | |





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)

0-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.

Scan code to visit webpage



cpcworldwide.com/MPU

FEATURES

3/4" and 1" hose barb

BENEFITS

Facilitates rapid fill and empty of bioprocessing

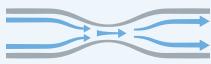
Sharp barb end —————————————————————— Minimizes fluid turbulence and dead space

Shrouded, leak-free seal & smooth, ______ 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.

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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

COUPLING BODIES - Polysulfone



| TERMINATION | METRIC EQ. | PART NO. | A | В |
|-------------------|------------|-----------|-----------------|-----------------|
| 3/4" ID HOSE BARB | 19.0 mm ID | MPU171239 | 1.75" (44.5 mm) | 2.37" (60.2 mm) |
| 1" ID HOSE BARB | 25.4 mm ID | MPU171639 | 1.75" (44.5 mm) | 2.37" (60.2 mm) |

COUPLING INSERTS - Polysulfone



| | TERMINATION | METRIC EQ. | PART NO. | A | В | | |
|---|-------------------|------------|------------|----------------|-----------------|--|--|
|) | 3/4" ID HOSE BARB | 19.0 mm ID | MPU221239M | 1.9" (48.3 mm) | 2.88" (73.2 mm) | | |
| | 1" ID HOSE BARB | 25.4 mm ID | MPU221639M | 1.9" (48.3 mm) | 2.88" (73.2 mm) | | |

SEALING COMPONENTS - Polysulfone



| SEALING CAP | MATERIAL | A | В |
|-------------|-------------|----------------|----------------|
| MPU32039 | Polysulfone | 1.75" (44.5mm) | .79" (20.1mm) |
| MPU30039M | Polysulfone | 1.56" (39.6mm) | 1.38" (35.1mm) |

PRODUCT DIMENSIONS

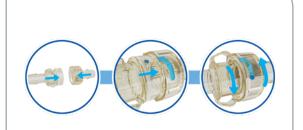




A = Height/DiameterB = Total Length

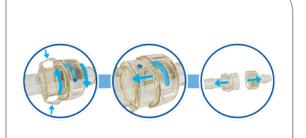
MPU ASSEMBLY PROCEDURE

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.



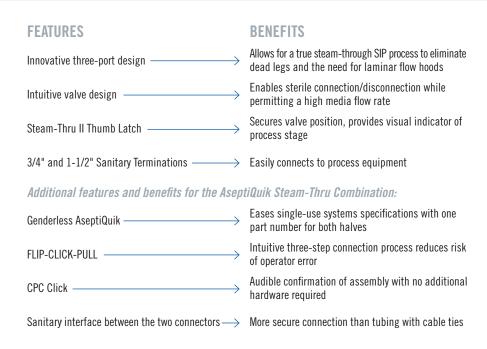




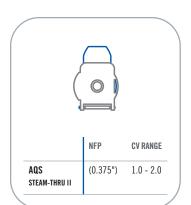
STEAM-IN-PLACE (SIP)
TECHNOLOGY

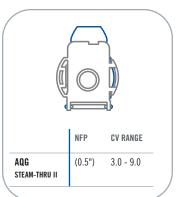
WHAT IS STEAM-IN-PLACE (SIP) TECHNOLOGY?

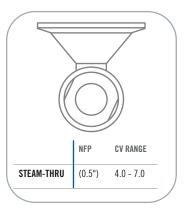
The innovative three port design of CPC's Steam-Thru® technology enables uncomplicated actuation between the SIP steam pathway and fluid transfer (flow) pathway. This provides an easy and sterile connection between flexible single-use tubing and stainless-steel processing equipment. The Steam-Thru product 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.

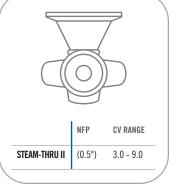


NOMINAL FLOW PATH (NFP) SIZE









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 CONNECTION OPTIONS

| | SINGLE USE System Terminations | | EQUIF Po Termii | RT | CONDENSATE PORT TERMINATION | | ODU Atuf | | STERILI OPTI (CHO) | | SIP | FLO Inform | | | |
|-------------------------------|--------------------------------------|----------|-----------------------|-------------|-----------------------------------|----------|--------------|----------|---|---------|--|---------------|----------|---|--|
| | HO BA | SE RB | | PTI- IIK | SANI | TARY | ARY SANITARY | | A A A A A A A A A A A A A A A A A A A | | THE THE PARTY OF T | | | THE MILE TO THE | |
| | ZÍĞ. | 172 | PQ. | Ph. | Jan Jan | 17/1/1 | | i siki | W. L. | OH LHIM | THE CHIMIT OF | HIOLE | | WE | ON MAN DE |
| STEAM-THRU | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | 1/2" | 4.0 – 7.0 |
| STEAM-THRU II | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1/2" | 3.0 - 9.0 |
| ASEPTIQUIK S STEAM-THRU II | | | ✓ | | ✓ | √ | ✓ | √ | √ | ✓ | ✓ | √ | ✓ | 3/8" | 1.0 – 2.0 |
| ASEPTIQUIK G STEAM-THRU II | | | | √ | ✓ | √ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1/2" | 3.0 – 9.0 |

STEAM-THRU II ASSEMBLY PROCEDURE



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



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.

EP 4







Press the thumb latch and actuate the connector from the flow position to the steam position, and return the guard to its original position

STEP 8

above it.



Perform a second steam-inplace cycle to "steam off" the connection.

IEP 5



With the guard removed you can now press the thumb latch and actuate the connector from the steam position to the flow position.

IEP 6

Perform fluid transfer through the connector.



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)

STEAM POSITION

Temperature:

39°F to 104°F (4°C to 40°C)

Pressure:

Up to 30 psi, 2.1 bar (Steam-Thru) Up to 35 psi, 2.4 bar (Steam-Thru II)

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 265°F (129°C)
for 60 minutes

Steam-In-Place (SIP):

Up to 266°F/130°C (up to ~24psi), 60 minutes (Steam-Thru) Up to 275°F/135°C (up to ~31psi), 60 minutes (Steam-Thru II)

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)

MATERIALS

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

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

FEATURES

Steam-Thru II thumb latch

TYPICAL FLOW RATE:

4.0 - 7.0 for Steam-Thru

3.0 - 9.0 for Steam-Thru II

Cv Value Range:

3/4" and 1-1/2" sanitary terminations —

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

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.

NOTE

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

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. Scan code to visit webpage

Cy values represent the approximate expected flow rate in gallons ne

cpcworldwide.com/STC

STEAM-THRU SERIES DIMENSIONS

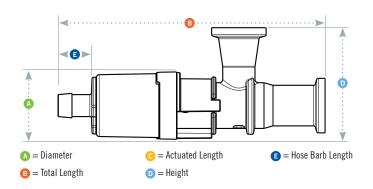
POLYSULFONE with polycarbonate sleeve



| TERMINATION | PART NO. | A | B | © | D | 3 |
|----------------------------------|------------|-----------------|------------------|------------------|-----------------|-----------------|
| 3/4" X 3/4" SANITARY X 1/2" HB | STC1700000 | 1.20" (30.5 mm) | 5.09" (129.3 mm) | 4.44" (112.8 mm) | 2.00" (50.8 mm) | 0.89" (22.6 mm) |
| 3/4" X 3/4" SANITARY X 3/8" HB | STC1700100 | 1.20" (30.5 mm) | 4.80" (121.9 mm) | 4.15" (105.4 mm) | 2.00" (50.8 mm) | 0.60" (15.2 mm) |
| 3/4" X 1-1/2" SANITARY X 1/2" HB | STC1700200 | 1.20" (30.5 mm) | 5.09" (129.3 mm) | 4.44" (112.8 mm) | 2.00" (50.8 mm) | 0.89" (22.6 mm) |
| 3/4" X 1-1/2" SANITARY X 3/8" HB | STC1700300 | 1.20" (30.5 mm) | 4.80" (121.9 mm) | 4.15" (105.4 mm) | 2.00" (50.8 mm) | 0.60" (15.2 mm) |

STEAM-THRU CONFIGURATIONS

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



STEAM-THRU II SERIES DIMENSIONS

POLYSULFONE with polycarbonate sleeve

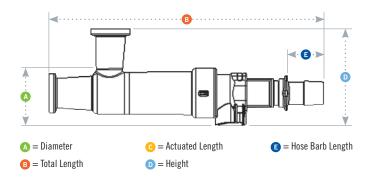


| TERMINATION | PART NO. | Δ | B | © | O | (3) |
|---|------------|-----------------|------------------|------------------|-----------------|-----------------|
| 3/4" X 3/4" SANITARY X 1/2" HB | STC2020000 | 1.42" (36.1 mm) | 6.84" (173.7 mm) | 5.93" (150.6 mm) | 2.40" (61.0 mm) | 0.88" (22.4 mm) |
| 3/4" X 3/4" SANITARY X 3/8" HB | STC2020100 | 1.42" (36.1 mm) | 6.76" (171.7 mm) | 5.93" (150.6 mm) | 2.40" (61.0 mm) | 0.80" (20.3 mm) |
| 3/4" X 1-1/2" SANITARY X 1/2" HB | STC2020200 | 1.42" (36.1 mm) | 6.84" (173.7 mm) | 5.93" (150.6 mm) | 2.40" (61.0 mm) | 0.88" (22.4 mm) |
| 3/4" X 1-1/2" SANITARY X 3/8" HB | STC2020300 | 1.42" (36.1 mm) | 6.76" (171.7 mm) | 5.93" (150.6 mm) | 2.40" (61.0 mm) | 0.80" (20.3 mm) |
| 3/4" X 3/4" SANITARY X 3/4" SANITARY | STC2020900 | 1.42" (36.1 mm) | 6.60" (167.6 mm) | 5.93" (150.6 mm) | 2.40" (61.0 mm) | 0.62" (15.7 mm) |
| 3/4" X 1-1/2" SANITARY X 3/4" SANITARY | STC2021000 | 1.42" (36.1 mm) | 6.60" (167.6 mm) | 5.93" (150.6 mm) | 2.40" (61.0 mm) | 0.62" (15.7 mm) |

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

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.







ASEPTIQUIK® STC II SERIES CONNECTORS

AseptiQuik® STC Connectors combine the AseptiQuik® sterile connector and the Steam-Thru® II 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 steamed on to stainless equipment via SIP. After the SIP cycle, a wide range of singleuse systems can be connected.



SPECIFICATIONS

OPERATING CONDITIONS

(Fluid Transfer)

Steam Position:

Temperature: Up to 275°F (135°C) for 60 minutes

PRESSURE

Up to 35 psi, 2.4 bar

Flow Position:

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

Pressure: Up to 20 psi, 1.4 bar

STERILIZATION

Full Connector Assembly:

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

Steam-In-Place (SIP):

Up to 275°F (135°C) (~31 psi) for 60 minutes

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)

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) Polycarbonate (white, HT version)

Membrane:

Polyethylene (standard version)

Hydrophobic polyethersulfone (HT versions),

PTFE strip sticker

Clamp: Nylon 66 (white)

NOTE: Steam pressures are estimated based upon information in Steam

Scan code to visit webpage

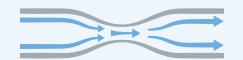


cpcworldwide.com/AseptiQuik-STC

TYPICAL FLOW RATE:

Cv Value Range:

3 - 9 for AQSSTCII 1 - 2 for AQGSTCII



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/AseptiQuik-STC

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.

ASEPTIQUIK STC SERIES DIMENSIONS

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



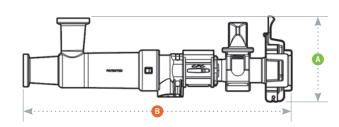
| TERMINATION | PART NO. | A | B | C |
|--|---------------|-----------------|------------------|------------------|
| 3/4" X 3/4" SANITARY STEAM-THRU II With Aseptiquik G Body | AQGSTC2330900 | 3.05" (77.5 mm) | 8.26" (209.8 mm) | 7.36" (186.9 mm) |
| 3/4" X 1-1/2" SANITARY STEAM-THRU II With Aseptiquik G Body | AQGSTC2331000 | 3.05" (77.5 mm) | 8.26" (209.8 mm) | 7.36" (186.9 mm) |
| 3/4" X 3/4" SANITARY STEAM-THRU II With Aseptiquik S Body | AQSSTC2330900 | 2.45" (62.2 mm) | 8.20" (208.2 mm) | 7.30" (185.4 mm) |
| 3/4" X 1-1/2" SANITARY STEAM-THRU II With Aseptiquik S Body | AQSSTC2331000 | 2.45" (62.2 mm) | 8.20" (208.2 mm) | 7.30" (185.4 mm) |

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



| TERMINATION | PART NO. | A | B | C |
|--|-----------------|-----------------|------------------|------------------|
| 3/4" X 3/4" SANITARY STEAM-THRU II With Aseptiquik G Body | AQGSTC2330900HT | 3.05" (77.5 mm) | 8.26" (209.8 mm) | 7.36" (186.9 mm) |
| 3/4" X 1-1/2" SANITARY STEAM-THRU II With Aseptiquik G Body | AQGSTC2331000HT | 3.05" (77.5 mm) | 8.26" (209.8 mm) | 7.36" (186.9 mm) |
| 3/4" X 3/4" SANITARY STEAM-THRU II With Aseptiquik S Body | AQSSTC2330900HT | 2.45" (62.2 mm) | 8.20" (208.2 mm) | 7.30" (185.4 mm) |
| 3/4" X 1-1/2" SANITARY STEAM-THRU II With Aseptiquik S Body | AQSSTC2331000HT | 2.45" (62.2 mm) | 8.20" (208.2 mm) | 7.30" (185.4 mm) |

PRODUCT DIMENSIONS



A = Height/Diameter B = Total Length

FEATURES

Genderless AseptiQuik FLIP-CLICK-PULL CPC Click Innovative three-port steam design Patented steam valve design Sanitary interface between the two connectors

Eases single-use systems specifications with onepart number for both halves

BENEFITS

Intuitive three-step connection process reduces risk of operator error

Audible confirmation of assembly with no additional hardware required

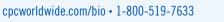
Allows a true steam-through SIP process which eliminates "dead legs"

Allows sterile connection and disconnection to stainless equipment and permits a high media flow rate

More secure connection than tubing with cable ties







PRODUCT INDEX

| ASEPTIC CONNECTION TECHNOLOGY |
|--------------------------------------|
| STERILE DISCONNECTION TECHNOLOGY |
| OPEN FORMAT CONNECTION TECHNOLOGY |
| STEAM-IN-PLACE CONNECTION TECHNOLOGY |
| |





Colder Products Company®

COLDER PRODUCTS COMPANY 2820 CLEVELAND AVE. N., ROSEVILLE, MINNESOTA 55113 U.S.A.

PHONE: +1 (651) 645-0091 FAX: +1 (651) 645-5404 TOLL FREE: +1 (800) 519-7633

COLDER PRODUCTS COMPANY GMBH KURHESSENSTRASSE 15 64546 MÖRFELDEN-WALLDORF GERMANY

PHONE: +49 6026 9973-0

COLDER PRODUCTS COMPANY LIMITED ROOM 1802, BUILDING A, IBC, 391 GUIPING ROAD, XUHUI DISTRICT, SHANGHAI, CHINA 200233

PHONE: +86 21 2411 2666 **TOLL FREE:** +86 400 990 1978

cpcworldwide.com/bio info@cpcworldwide.com

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