CPC®

A DOVER COMPANY

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 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.

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)

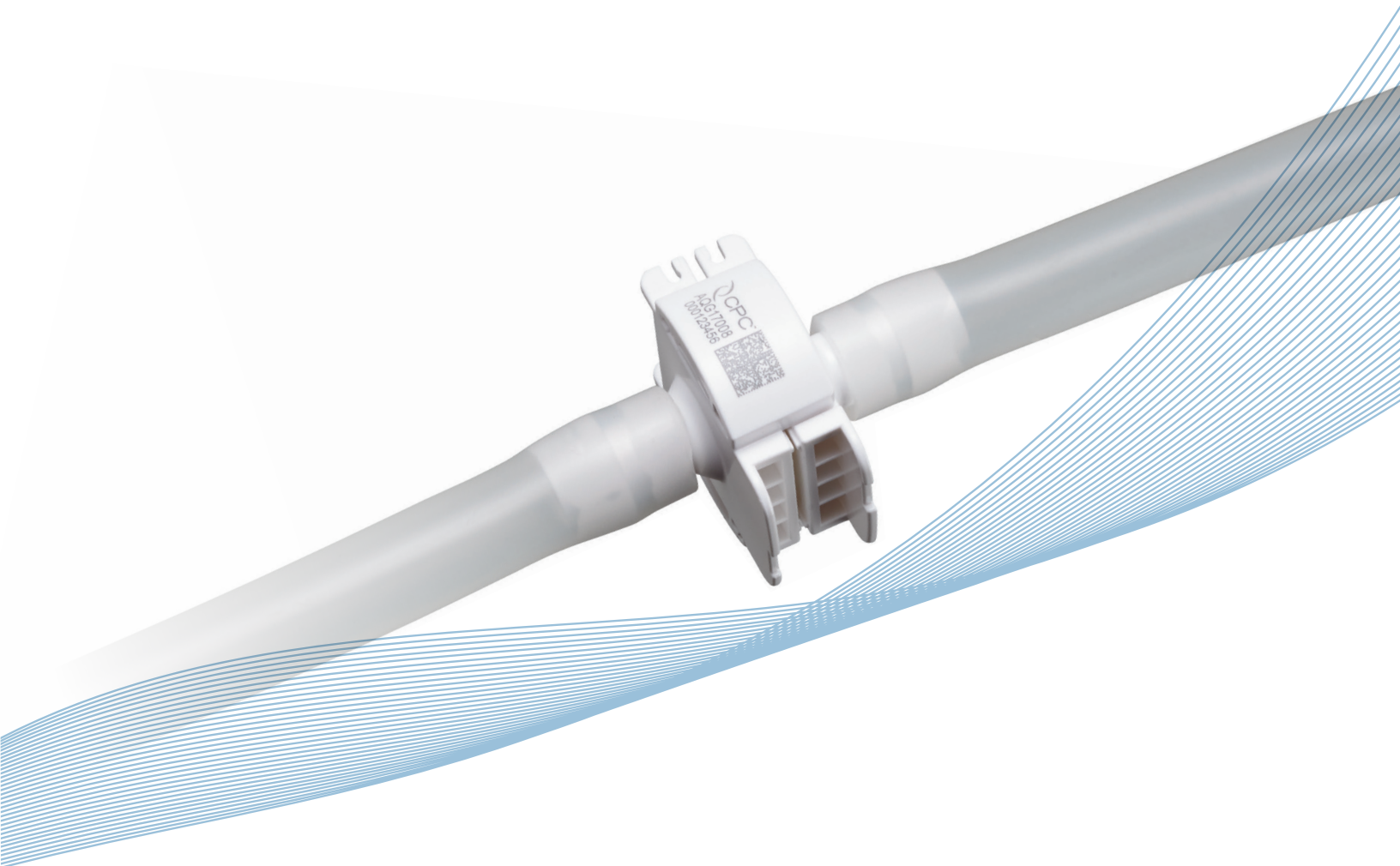
This directive bans new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.

UNDERSTANDING SINGLE-USE SYSTEMS

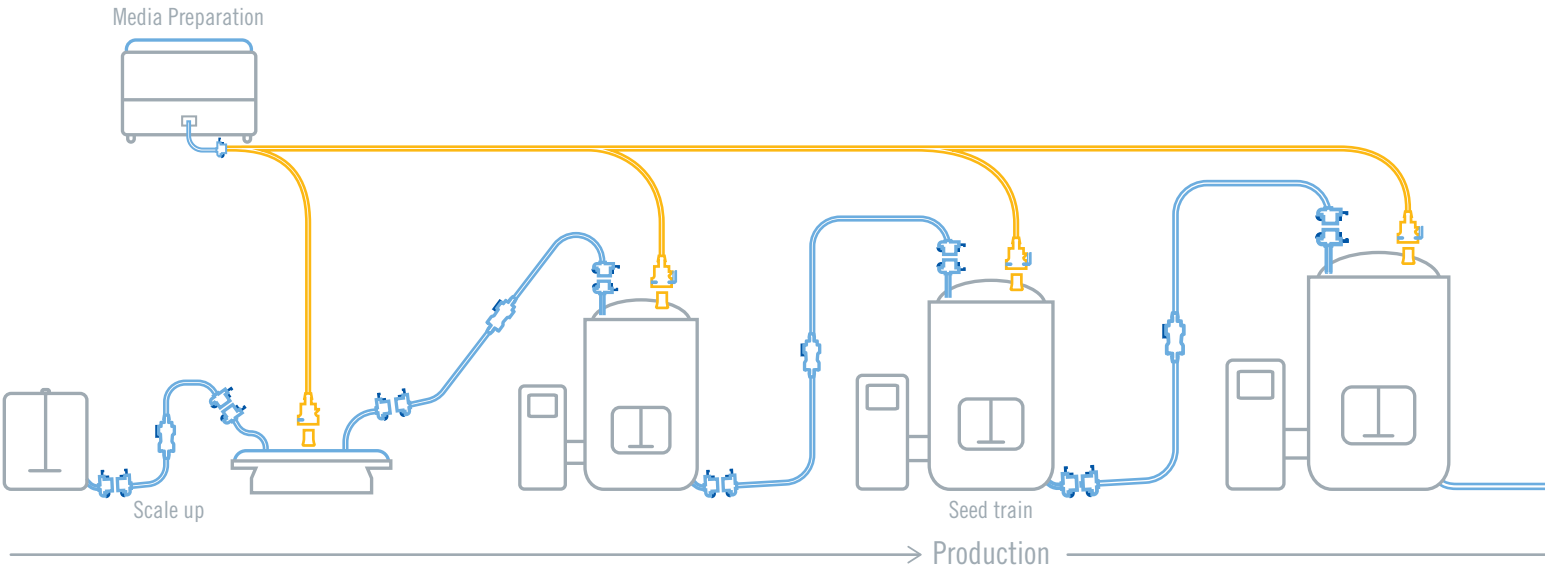
Increasing global demand for new biologics, vaccines and cell therapies is driving manufacturers to replace traditional stainless equipment with single-use systems, which consist of plastic-based processing equipment used in the development and production of biopharmaceutical drugs.

BENEFITS OF SINGLE-USE

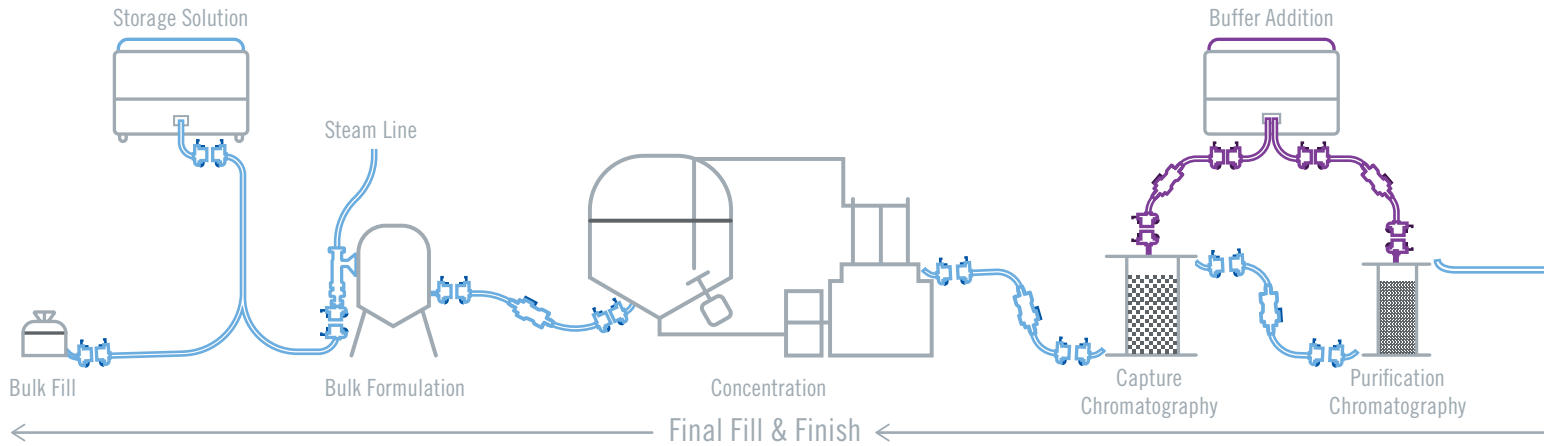
Operational Efficiencies	Increases flexibility and faster batch turnaround.
Cost Effectiveness	Minimizes cleaning and validation requirements.
Economic Advantages	Reduces capital expenditures and facility footprints.
Safety and Quality	Improves sterility assurance while decreasing the risk of cross-contamination 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



UPSTREAM

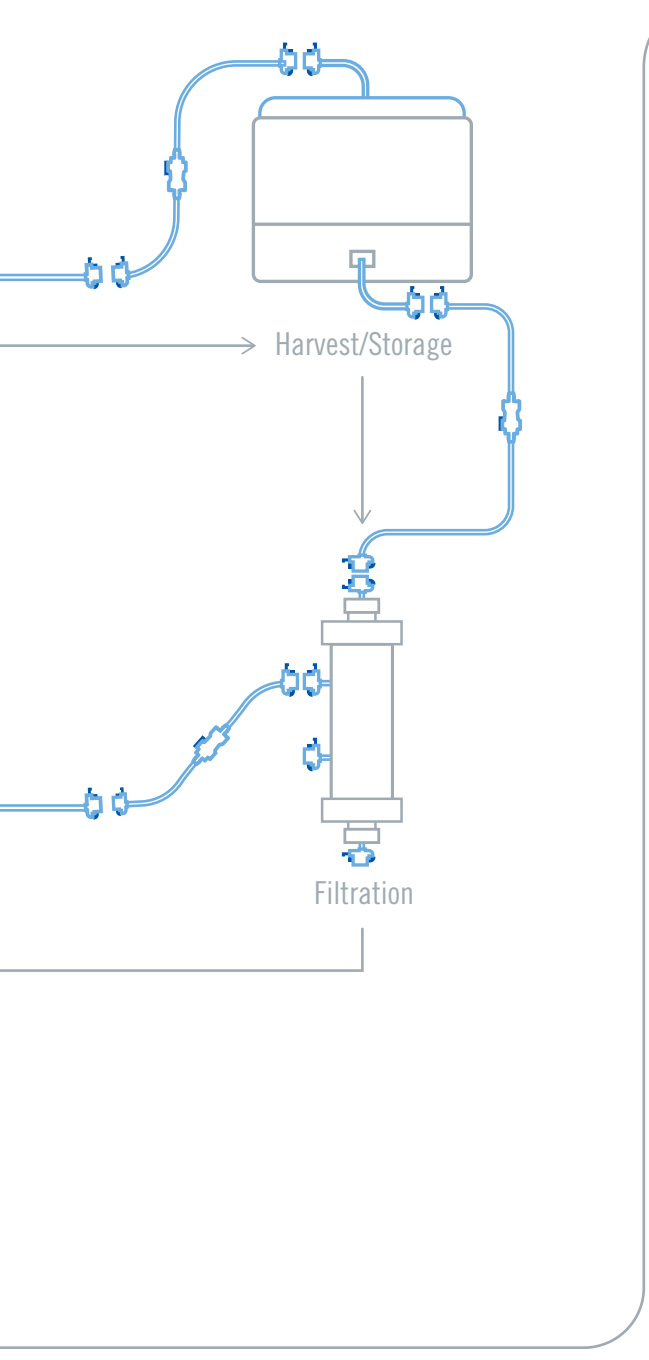


DOWNSTREAM

Main process flow line Connectors: AseptiQuik Series, MicroCNX Series, HFC Disconnect Series, Steam-Thru Series

Media Addition Connectors: Open format, such as MPC Series, MPX Series, MPU Series

Harsh Chemical Applications Connectors: AQG PPSU Series



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 12-31

16 MICROCNX® SERIES CONNECTORS: Sterile connection technology for 1/8" flow rate applications

MATERIAL: Polycarbonate and silicone – membrane is made up of hydrophobic polyethersulfone

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

18 MICROCNX® ULT SERIES CONNECTORS: Sterile connection technology for 1/8" flow rate and cryogenic freezing applications

MATERIAL: Polycarbonate, Polyphenylsulfone and silicone – membrane is made up of hydrophobic polyethersulfone

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

20 MICROCNX® NANO SERIES CONNECTORS: Sterile connection technology for 1/16" flow rate and cryogenic freezing applications

MATERIAL: Polycarbonate, Polyphenylsulfone and silicone – membrane is made up of hydrophobic polyethersulfone

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

24 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

26 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 & MPC insert

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

MATERIAL: Polyphenylsulfone, polycarbonate and silicone

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

30 ASEPTIQUIK® W SERIES CONNECTORS: Sterile connection for your 1 1/2" flow applications

MATERIAL: Polycarbonate, silicone

TERMINATIONS: 1"; 1 ¼"; 1 ½" ID hose barb (25.4mm; 31.75mm; 38.1mm); 1-1/2" sanitary

STERILE DISCONNECTION TECHNOLOGY* PAGES 32-37

36 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)

ASEPTIC COMBINATION CONNECTORS PAGES 38-43

42 ASEPTIQUIK® G DC SERIES CONNECTORS: Sterile connection and disconnection combination for 1/2" flow applications

MATERIAL: Polycarbonate

TERMINATIONS: 1/4"; 3/8"; 1/2" ID hose barb (6.4mm; 9.5mm and 12.7mm)

OPEN FORMAT CONNECTION TECHNOLOGY PAGES 44-57

48 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)

50 MPX SERIES CONNECTORS: 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)

52 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

54 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

56 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 58-65

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

MATERIAL: Polysulfone and silicone

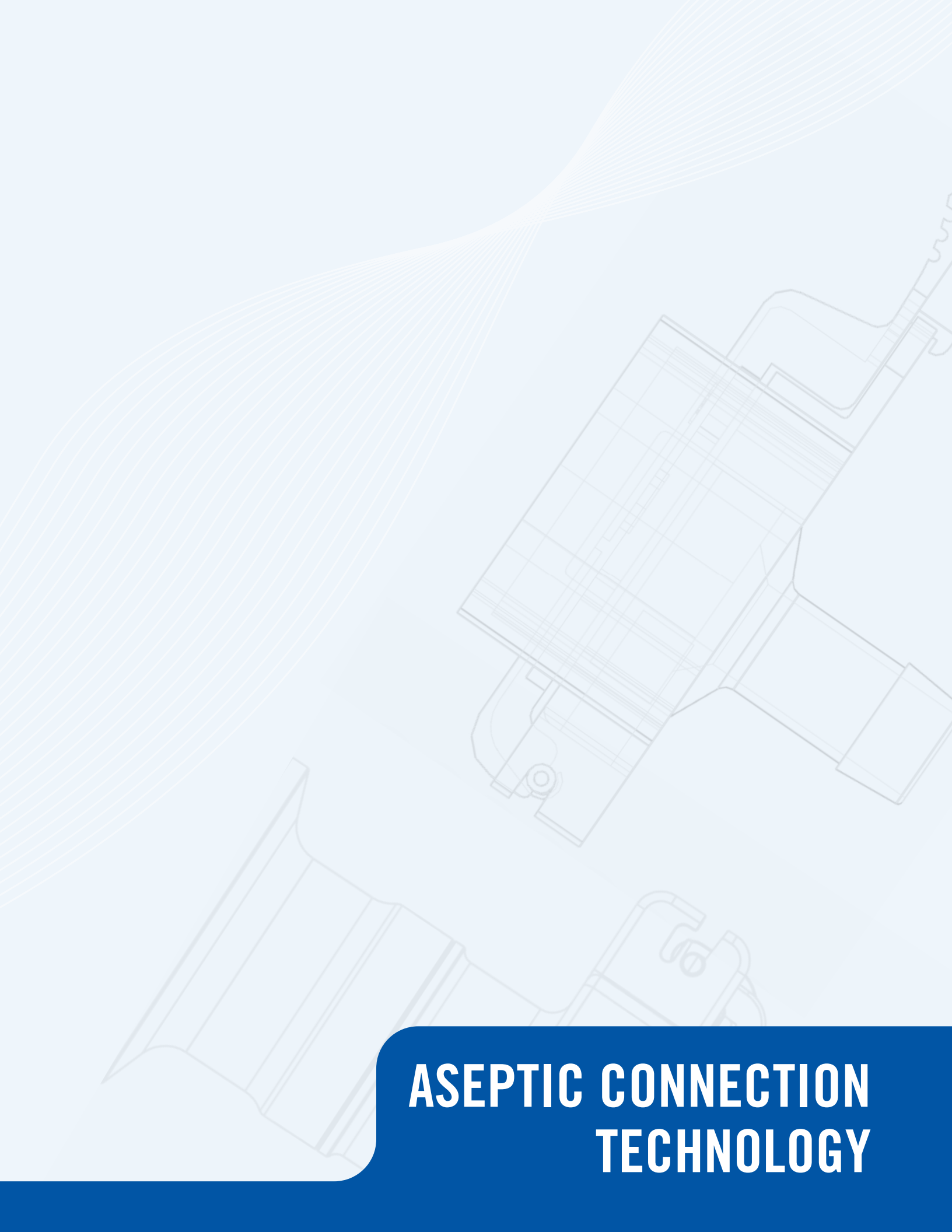
TERMINATIONS: 3/8" & 1/2" ID hose barb (9.5mm & 12.7mm) 3/4"; 1 1/2" sanitary

64 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.



ASEPTIC CONNECTION TECHNOLOGY

MICROCNX® SERIES CONNECTORS?

Introducing 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 innovation 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	BENEFITS
PINCH/PULL-CLICK-PULL	Intuitive three-step connection process reduces risk of operator error
Easy-to-Use	Lowers risk of operator error and related performance, reliability and safety concerns
Ultra-Low Temperature & Chemical compatibility(ULT & Nano)	Can be frozen down to vaporized liquid nitrogen temperature (-190C). Able to handle harsh chemicals like liquid nitrogen and Dimethly Sulfoxide (DMSO)
Low and ultra-low Profiles	The smallest profile with a compact size that fits in freeze cassettes (MicroCNX ULT and MicroCNX Nano)
Low Hold-up Volume	The smallest profile with a compact size that fits in freeze cassettes (MicroCNX ULT and MicroCNX Nano)

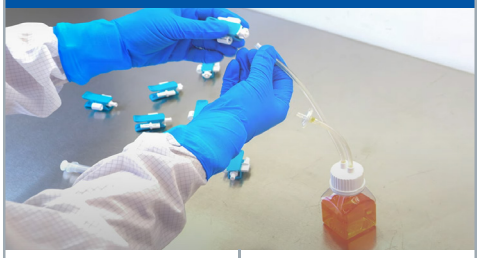
NOTES

MICROCNX CONNECTORS OPTIONS

	TERMINATIONS				MATERIALS			CYRO COMPATIBILITY			FLOW INFORMATION	
	HOSE BARB											
	1/8"	1/16"	3/32"	LUER	TPE	SILICONE	PVC	FREEZE TO -80°C	FREEZE TO -190°C	DMSO	NOMINAL FLOW PATH	CV VALUE RANGE
MICROCNX® STANDARD	✓	✓	✓		✓			✓			1/8"	0.04-0.27
MICROCNX® LUER				✓	✓			✓			1/8"	0.04-0.27
MICROCNX® ULT	✓	✓	✓		✓	✓	✓	✓	✓	✓	1/8"	0.04-0.27
MICROCNX® NANO	✓	✓	✓		✓	✓	✓	✓	✓	✓	1/16"	0.03-0.06

UNDERSTANDING THE OPTIONS FOR MAINTAINING STERILITY

OPEN SYSTEM: BIO SAFETY CABINET



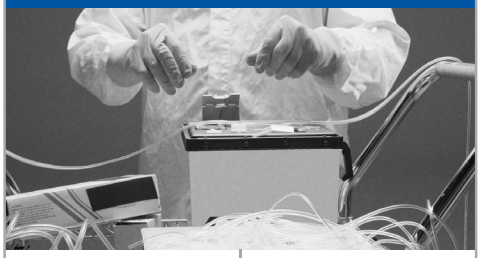
PROS

- Familiarity to those who work in cell culture
- Offers flexibility – which often makes it an easier and more cost-effective choice for an R&D environment

CONS

- Contamination risks
- Not a scalable process for commercial mfg.
- Large capital investment
- Labor intensive and must be maintained

TUBE WEDLING



PROS

- When done correctly, tube welding can be reliable and cost-effective approach
- Offers flexibility with continuous weld with same process line
- Allows disconnection flexibility

CONS

- Time to weld: 30 secs to 30 mins for multiple welds
- Large capital investment
- Maintenance and validation of equipment
- Requires movement of tube welding equipment

CLOSED SYSTEM: STERILE CONNECTORS

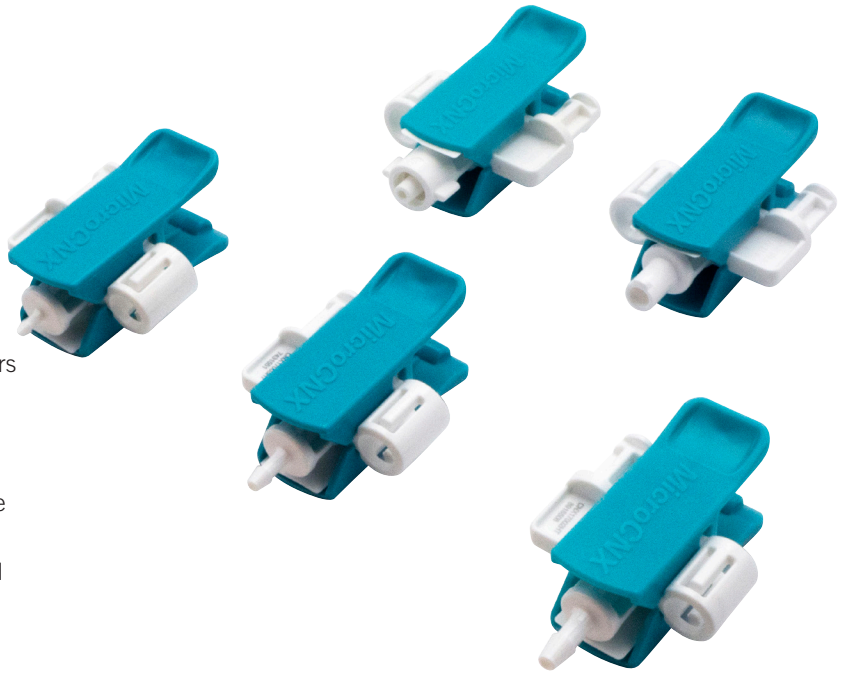
PROS

- Quick and easy setup + consistent and reliable results
- Reduction in training and operation time
- 4-6X faster than tube welding
- Cost savings: 80-90% in labor, equipment, validation, calibration, and maintenance/ repair costs

CONS

- Moving from an open system to a closed system can take time to shift approaches (6-12 months)
- At face value, connectors cost more
- Need a more robust system for sterile connectors

MICROCNX®
SERIES CONNECTORS



The **MicroCNX® Standard and Luer** are micro-connectors that provide a simple, efficient method of connecting tubing for small-format biomanufacturing assemblies. The MicroCNX series is engineered specifically for the challenging conditions of biological media transfer in bioprocessing, cell therapy, and gene therapy applications. The connector comes in a range of tubing sizes featuring a luer connection option to create a sterile, closed connection on an existing luer connection.

SPECIFICATIONS

OPERATING PRESSURE
Up to 60 psi, 4.1 bar (Standard)
Up to 75 psi, 5.1 bar for 48 hours (Standard)
Up to 43.5 psi, 3 bar (Luer)

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

STORAGE TEMPERATURE
-112° F to 140° F (-80° C to 60° C)

TERMINATIONS
1/16", 3/32", 1/8" ID hose barb (1.6mm, 2.4mm, 3.2mm), Male Luer; Female Luer

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

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

FEATURES	BENEFITS
PINCH-CLICK-PULL →	Easy to use three-step connection process reduces risk of operator error
Easy-to-Use →	No hassling with external machines or equipment, or mismatched tubing
Luer adapter →	Connect to a luer/open format connection in a biosafety cabinet, remove from the biosafety cabinet, and have a sterile connection anywhere in your production.

TYPICAL FLOW RATE
Cv Value Range: 0.04-0.27

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.

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

SCAN

cpcworldwide.com/MicroCNX

MICROCNX® SERIES DIMENSIONS

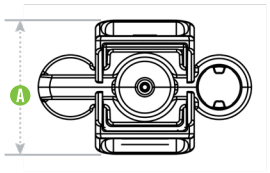
POLYCARBONATE with teal cover For autoclave or gamma irradiation applications.

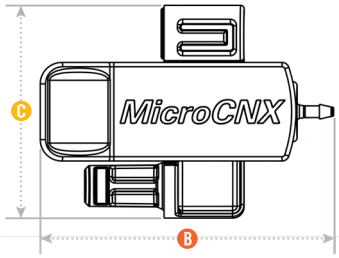
MicroCNX® Standard

MicroCNX® Luer

TERMINATION	METRIC EQ.	PART NO.	A	B	C
1/16" HOSE BARB	1.6 mm	CNX17001HT	0.93" (23.6 mm)	2.05" (52.1 mm)	1.49" (37.8 mm)
3/32" HOSE BARB	2.4 mm	CNX17003HT	0.93" (23.6 mm)	2.16" (54.9 mm)	1.49" (37.8 mm)
1/8" HOSE BARB	3.2 mm	CNX17002HT	0.93" (23.6 mm)	2.25" (57.2 mm)	1.49" (37.8 mm)
FEMALE LUER		CNX170LFHT	0.93" (23.6 mm)	2.15" (54.6 mm)	1.49" (37.8 mm)
MALE LUER		CNX170LMHT	0.93" (23.6 mm)	2.15" (54.6 mm)	1.49" (37.8 mm)

PRODUCT DIMENSIONS





A = Height
B = Total Length
C = Total Width

MICROCNX® CONNECTORS ASSEMBLY PROCEDURE

PINCH

Remove the protective cover on each half.

CLICK

Join halves and click together.

PULL

Pull membrane strips directly away from the connector.

MICROCNX® ULT SERIES CONNECTORS

The **MicroCNX® ULT aseptic connectors** is specifically designed for the challenging conditions of biological media transfer in cell therapy and gene therapy applications. It can withstand ultra-low temperatures down to -190°C (cryogenic freezing applications) and fits directly into freezing cassettes used in CGT processing. Like the original MicroCNX standard connector, the ULT provides a simple, efficient method of connecting tubing for small-format biomanufacturing assemblies. The MicroCNX ULT comes in 1/8", 3/32," and 1/16" size connections to PVC tubing.

SPECIFICATIONS

OPERATING PRESSURE
Up to 43.5 psi, 3 bar

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

STORAGE TEMPERATURE
-310°F to 140°F (-190°C to 60°C)

WARNING: Do not submerge connectors in liquid nitrogen. MicroCNX ULT has been tested and validated for cryogenic freezing use in gaseous phase of liquid nitrogen.

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

MATERIALS
Main Components: Polycarbonate (white), Polyphenylsulfone (off white)
Seals: Silicone (clear), platinum-cured
Protective Cover: Polycarbonate (gold)
Membrane: Hydrophobic Polyethersulfone

STERILIZATION
Gamma: Up to 50kGy irradiation.
Autoclave: One cycle up to 250°F (121°C) for 30 minutes

FEATURES	BENEFITS
PULL-CLICK-PULL →	Easy to use three-step connection process reduces risk of operator error
Easy-to-Use →	No hassling with external machines or equipment, or mismatched tubing
Ultra-Low Tempaerature and Chemical compatability →	Ability to be frozen down to vaporized liquid nitrogen temp (-190°C), and increased compatibility to harsh chemicals
Tubing Compatibility →	Can be used with PVC, TPE and silicone tubing
Low profile →	Compact size to fit in freezing cassettes

TYPICAL FLOW RATE

Cv Value Range: 0.04-0.27

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.

DID YOU KNOW

Termination and flow path are made from PPSU to allow for increased chemical compatibility to handle harsh chemicals like liquid nitrogen and Dimethyl sulfoxide (DMSO).

Scan code to visit webpage

SCAN

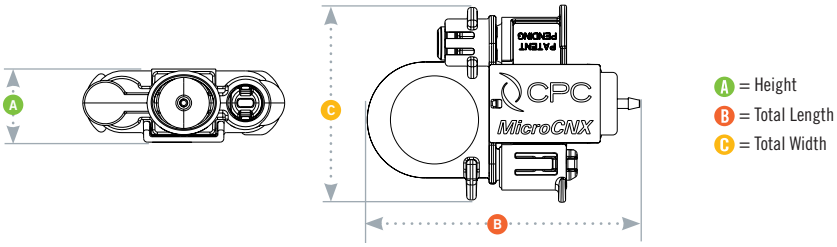
cpcworldwide.com/MicroCNX

MICROCNX® SERIES DIMENSIONS

POLYPHENYLSULFONE with gold cover For autoclave or gamma irradiation applications.

TERMINATION	METRIC EQ.	PART NO.	A	B	C
1/16" HOSE BARB	1.6 mm	CNX17101HT	0.62" (15.7 mm)	2.35" (59.7 mm)	1.70" (43.2 mm)
3/32" HOSE BARB	2.4 mm	CNX17103HT	0.62" (15.7 mm)	2.46" (62.5 mm)	1.70" (43.2 mm)
1/8" HOSE BARB	3.2 mm	CNX17102HT	0.62" (15.7 mm)	2.56" (65.0 mm)	1.70" (43.2 mm)

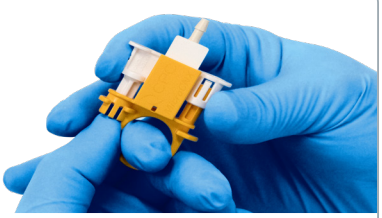
PRODUCT DIMENSIONS



A = Height
B = Total Length
C = Total Width

MICROCNX® ULT CONNECTORS ASSEMBLY PROCEDURE

PINCH



Remove the protective cover on each half.

CLICK

Join halves and click together.

PULL

Pull membrane strips directly away from the connector.

MICROCNX® NANO
SERIES CONNECTORS

The **MicroCNX® Nano** aspetic connector is specifically designed for the challenging conditions of biological media transfer in cell therapy and gene therapy (CGT) applications. It can withstand ultra-low temperatures down to -190°C (cryogenic freezing applications) and is the lowest profile connector in the industry; ensuring a fit into any freezing cassette used in CGT processing. Like the original MicroCNX standard connector, the MicroCNX Nano provides a simple, efficient method of connecting tubing for small-format biomanufacturing assemblies. The MicroCNX Nano comes in 1/8", 3/32," and 1/16" hose barb terminations for connection to a variety of tubing types including silicone, TPE and PVC.

SPECIFICATIONS

OPERATING PRESSURE
Up to 29 psi, 2 bar

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

STORAGE TEMPERATURE
-310°F to 140°F (-190°C to 60°C)

WARNING: Do not submerge connectors in liquid nitrogen. MicroCNX ULT has been tested and validated for cryogenic freezing use in gaseous phase of liquid nitrogen.

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

MATERIALS
Main Components: Polycarbonate (white), Polyphenylsulfone (off white)
Seals: Silicone (clear), platinum-cured
Protective Cover: Polycarbonate (gold)
Membrane: Hydrophobic Polyethersulfone

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

FEATURES	BENEFITS
PULL-CLICK-PULL →	Intuitive three-step connection process reduces risk of operator error
Easy-to-Use →	No hassling with external machines or equipment, or mismatched tubing
Ultra-Low temperature and Chemical compatability →	Can be frozen down to vaporized liquid nitrogen temperature (-190°C)
Aseptic, single-use connection technology →	The only aseptic media transfer method that consistently and reliably transfers aseptic fluid at 1/16" tubing
Tubing Compatibility →	Can be used with PVC, TPE and silicone tubing
Low and ultra-low profiles →	The smallest profile with a compact size that fits in freeze cassettes
Low Hold-up Volume →	Minimize lost fluid during transfers

TYPICAL FLOW RATE
Cv Value Range: 0.03-0.06

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.

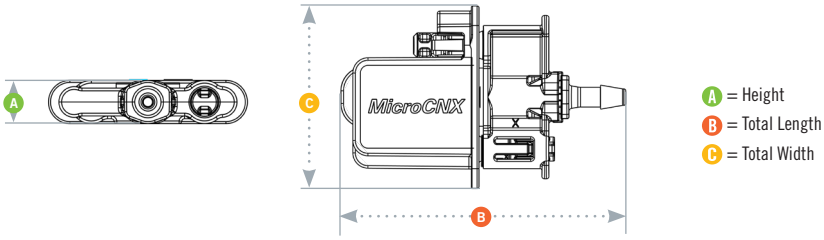
DID YOU KNOW
MicroCNX connectors get you out of the hood (bio safety cabinet), the closed connection enables you to make connections anywhere, even in non-sterile environments.

MICROCNX® NANO SERIES DIMENSIONS

POLYPHENYLSULFONE with gold cover For autoclave or gamma irradiation applications.

TERMINATION	METRIC EQ.	PART NO.	A	B	C
1/16" HOSE BARB	1.6 mm	CNY17101HT	0.31" (7.9 mm)	1.96" (49.8 mm)	1.44" (36.6 mm)
3/32" HOSE BARB	2.4 mm	CNY17103HT	0.31" (7.9 mm)	2.06" (52.3 mm)	1.44" (36.6 mm)
1/8" HOSE BARB	3.2 mm	CNY17102HT	0.31" (7.9 mm)	2.16" (54.9 mm)	1.44" (36.6 mm)

PRODUCT DIMENSIONS



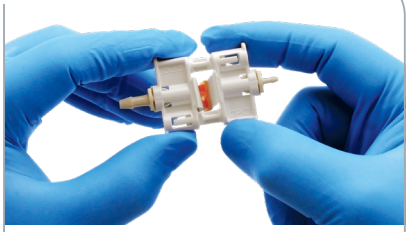
A = Height
B = Total Length
C = Total Width

MICROCNX® NANO CONNECTORS ASSEMBLY PROCEDURE

PULL

Remove the protective cover on each half.

CLICK



Join halves and click together.

PULL

Pull membrane strips directly away from the connector.

Scan code to visit webpage

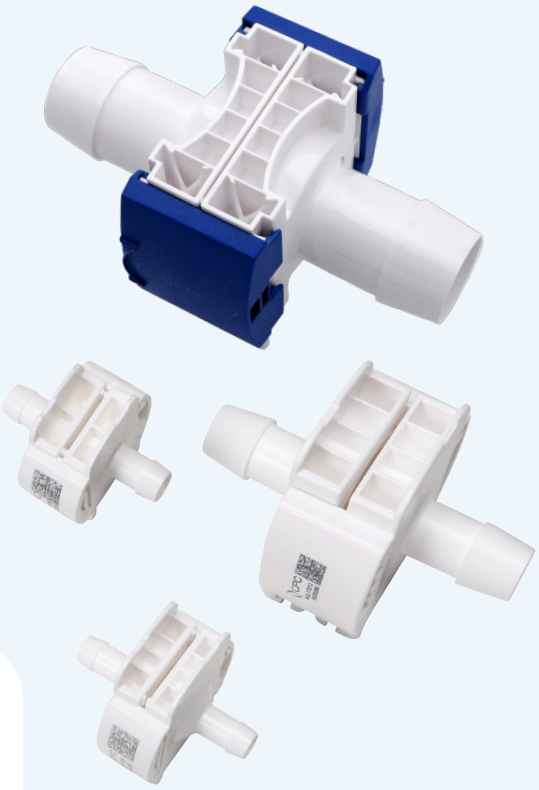
SCAN

cpcworldwide.com/MicroCNX

NOTE

Validation and extractables can be requested at cpcworldwide.com/MicroCNX

WHAT IS ASEPTIQUIK® STERILE TECHNOLOGY?

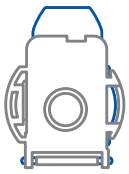


AseptiQuik® Connectors provide quick and easy sterile connections, even in non-sterile environments–a critical capability for biopharmaceutical manufacturers. Featuring a straightforward, simple three-step connection process and a wide range of termination options—including 1/8- to 1 1/2-inch sizes and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

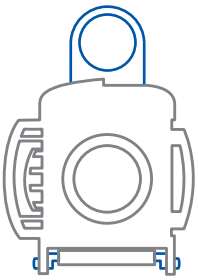
FEATURES	BENEFITS
Genderless design	Eases integration of single-use systems with universal mating between connectors of the same series
Rubust construction	Repeatable and reliable performance with no additional hardware required
FLIP-CLICK-PULL	Innovative three-step connection process reduces risk of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

NOMINAL FLOW PATH (NFP) SIZE

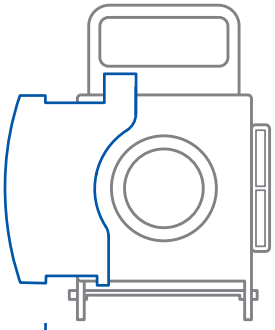
	NFP	CV RANGE
AQS	(0.25")	0.19 – 1.74



	NFP	CV RANGE
AQG	(0.5")	1.5 – 31



	NFP	CV RANGE
AQL	(1")	30 – 57



	NFP	CV RANGE
AQW	(1 1/2")	39 – 118

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												MATERIALS			STERILIZATION (CHOOSE 1)		FLOW INFORMATION	
	HOSE BARB								SANITARY FLANGES										
	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	1/4"	3/4"	1 1/2"	MPC INSERT	SILICONE SEAL	POLYCARBONATE	POLYPHENYLSULFONE	GAMMA COMPATIBLE	AUTOCLAVABLE	NOMINAL FLOW PATH	CV VALUE RANGE
ASEPTIQUIK® S SERIES	✓	✓	✓						✓	✓		✓	✓	✓		✓	✓	1/4"	0.19 – 1.74
ASEPTIQUIK® G SERIES		✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	1/2"	1.5 - 31
ASEPTIQUIK® L SERIES					✓	✓					✓		✓	✓	✓	✓	✓	1"	30-57
ASEPTIQUIK® W SERIES						✓	✓	✓			✓		✓	✓		✓	✓	1 1/2"	39-118

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

SCAN

https://youtu.be/un2PnvUAZ0w

Note – For AQW assembly see product page

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 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

or

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	BENEFITS
Genderless	Eases single-use systems specifications with one-part number for both halves
FLIP-CLICK-PULL	Intuitive three-step connection process reduces risk of operator error
CPC Click	Audible confirmation of connection with no additional hardware required
AQS-MPC Combination	Enables the ability to change a BPC or other single-use system with open format connections to closed systems
AQS ¼" Sani with Smooth Bore	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

SCAN

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

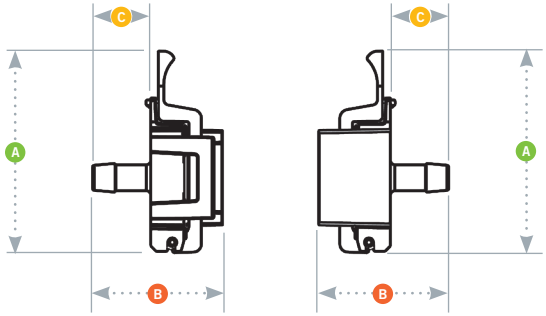
POLYCARBONATE with blue pull tabs - For gamma irradiation applications.

TERMINATION	METRIC EQ.	PART NO.	A	B	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)

PRODUCT DIMENSIONS



A = Height/Diameter
B = Total Length
C = 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 (excluding AQGMPC)

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
or
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	BENEFITS
Genderless	Eases single-use systems specifications with one-part number for both halves
FLIP-CLICK-PULL	Intuitive three-step connection process reduces risk of operator error
CPC Click	Audible confirmation of connection with no additional hardware required
Chemical Compatibility and pH Range	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
BPA-free	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

SCAN

cpcworldwide.com/AseptiQuik-G

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.	A	B	C
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)	1.93" (48.9 mm)	1.13" (28.6 mm)
MPC INSERT		AQG17MPC	2.62" (66.6 mm)	1.50" (38.1 mm)	0.70" (17.8 mm)

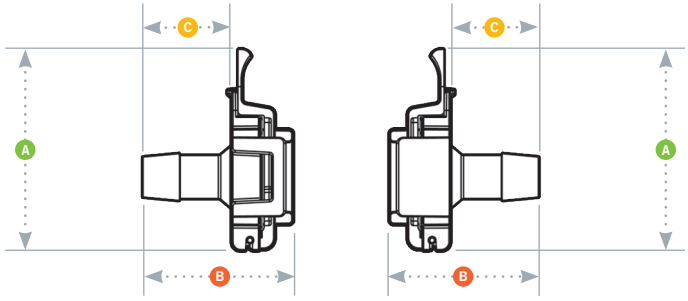
POLYCARBONATE HT with white pull tabs - For autoclave or gamma irradiation applications.

TERMINATION	METRIC EQ.	PART NO.	A	B	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)	1.93" (48.9 mm)	1.13" (28.6 mm)
MPC INSERT		AQG17MPCHT	2.62" (66.6 mm)	1.50" (38.1 mm)	0.70" (17.8 mm)

POLYPHENYLSULFONE with purple pull tabs - For gamma irradiation applications.

TERMINATION	METRIC EQ.	PART NO.	A	B	C
1/4" HOSE BARB	6.4 mm	AQG17104	2.62" (66.6 mm)	1.62" (41.2 mm)	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)
1-1/2" SANITARY	38.1 mm	AQG33124	2.62" (66.6 mm)	1.93" (48.9 mm)	1.13" (28.6 mm)

PRODUCT DIMENSIONS



A = Height/Diameter
B = Total Length
C = Hose Barb Length

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
Standard (blue) and PPSU (purple) Version:
Gamma: up to 50kGy
High Temperature (white) Version:
Gamma: up to 50kGy
or
Autoclave:
One cycle 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), (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	BENEFITS
Genderless	Eases single-use systems specifications with one-part number for both halves
FLIP-CLICK-PULL	Intuitive three-step connection process reduces risk of operator error
CPC Click	Audible confirmation of connection with no additional hardware required
Large Internal Diameter	Fast and efficient fluid transfer of large volumes under low pressures
Chemical Compatibility and pH Range	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

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

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

SCAN

cpcworldwide.com/AseptiQuik-L

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 volumes?

ASEPTIQUIK L SERIES DIMENSIONS

POLYCARBONATE with blue pull tabs - For gamma irradiation applications.

TERMINATION	METRIC EQ.	PART NO.	A	B	C
3/4" HOSE BARB	19.1 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)	2.57" (65.3 mm)	1.13" (28.7 mm)

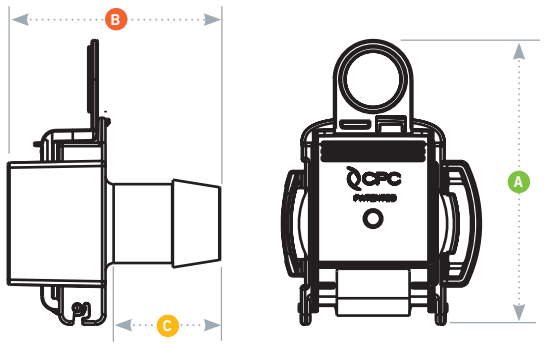
POLYCARBONATE HT with white pull tabs - For autoclave or gamma irradiation applications.

TERMINATION	METRIC EQ.	PART NO.	A	B	C
3/4" HOSE BARB	19.1 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)	2.57" (65.3 mm)	1.13" (28.7 mm)

POLYPHENYLSULFONE with purple pull tabs - For gamma irradiation applications.

TERMINATION	METRIC EQ.	PART NO.	A	B	C
3/4" HOSE BARB	19.1 mm	AQL17112	4.22" (107.2 mm)	2.95" (74.9 mm)	1.50" (38.1 mm)
1" HOSE BARB	25.4 mm	AQL17116	4.22" (107.2 mm)	3.15" (80.0 mm)	1.70" (43.2 mm)
1-1/2" SANITARY	38.1 mm	AQL33124	4.22" (107.2 mm)	2.57" (65.3 mm)	1.13" (28.7 mm)

PRODUCT DIMENSIONS



A = Height/Diameter
B = Total Length
C = Hose Barb Length

ASEPTIQUIK® W SERIES CONNECTORS

Genderless AseptiQuik® W Series Connectors with nominal 1 ½" flow path enable quick and easy sterile connections, in large-volume, high-flow production and process intensification environments. The genderless design simplifies system integration and minimizes the risk of operator error. The connectors' robust construction provides reliable performance without the need for clamps or fixtures. Biopharmaceutical manufacturers benefit from interchangeable 1", 1 ¼", and 1 ½" termination sizes for full-scale bioprocessing production environments with the quality and market availability they expect from the leader in the 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) Version:
Gamma: up to 50 kGy
High Temperature (white) Version:
Gamma: up to 50 kGy
or
Autoclave: Up to 266°F (130°C) for 60 minutes

TERMINATIONS

1", 1 1/4", 1 1/2" Hose barb, 1 1/2" Sanitary (25.4mm, 31.75mm, 38.1mm, 38.1mm)

MATERIALS

Main components:
Polycarbonate (white)
Shipping Clip:
Polycarbonate (clear)
Side latch:
Polyphenylsulfone (blue)
Pull Tabs/Caps:
Polycarbonate (white: high temp; blue standard temp version)
Pull Tab Guide:
Polyphenylsulfone (gray)
Seals:
Silicone (clear), platinum-cured
Membrane:
Hydrophobic Polyethersulfone (HT version), Polyethylene (standard version)
PTFE strip sticker (both versions)

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
Genderless →	Eases single-use systems specifications with one-part number for both halves
FLIP - CLICK - PULL- SNAP →	Intuitive four-step connection process reduces risk of operator error
Secure Side Latches →	Increases connector robustness for wide variety of applications
Membrane Pull Tabs →	Enables simultaneous and secure removal of both membranes
No Secondary Component Needed →	No need to purchase and store extra materials or tools to complete your sterile connection process
Largest AseptiQuik Flow Diameter (1 1/2" Nominal Flow Path) →	Move liquid medias faster to increase process efficiency

TYPICAL FLOW RATE

Cv Value Range: 39-118 for AseptiQuik W

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-W

Scan code to visit webpage

SCAN

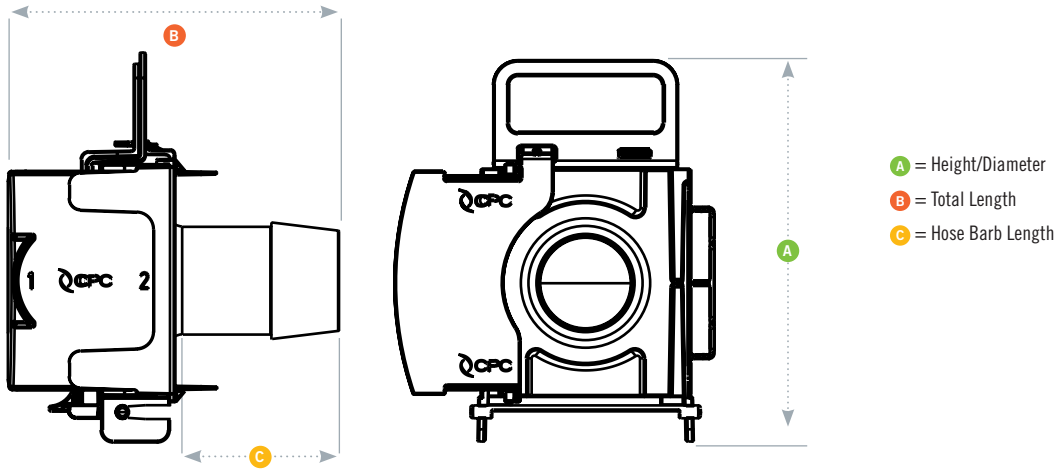
cpcworldwide.com/AseptiQuik-W

ASEPTIQUIK® W SERIES DIMENSIONS

POLYCARBONATE WHITE AND BLUE PULL TABS - For autoclave or gamma irradiation applications.

TERMINATION	METRIC EQ.	PART NO.	A	B	C
1" HOSE BARB	25.4 mm	AQW17016HT AQW17016	5.77" (146.6 mm)	4.00" (101.6 mm)	1.51" (38.4 mm)
1 1/4" HOSE BARB	31.8 mm	AQW17020HT AQW17020	5.77" (146.6 mm)	4.39" (111.5 mm)	1.91" (48.5 mm)
1 1/2" HOSE BARB	38.1 mm	AQW17024HT AQW17024	5.77" (146.6 mm)	4.91" (124.7 mm)	2.42" (61.5 mm)
1 1/2" SANITARY	38.1 mm	AQW33024HT AQW33024	5.77" (146.6 mm)	3.66" (93.0 mm)	1.17" (29.7 mm)

PRODUCT DIMENSIONS



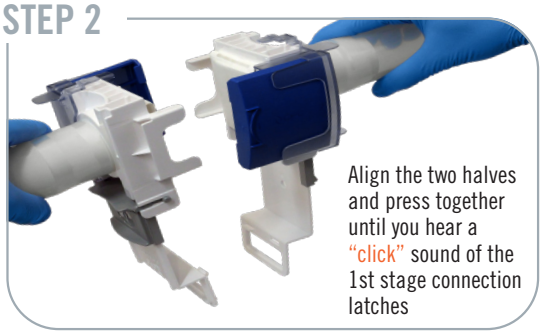
A = Height/Diameter
B = Total Length
C = Hose Barb Length

ASEPTIQUIK® W ASSEMBLY PROCEDURE

STEP 1

Flip the pull tab down while disengaging it from the shipping clip until fully open and clicked into place

STEP 2



Align the two halves and press together until you hear a "click" sound of the 1st stage connection latches

Scan code to watch AseptiQuik W assembly video

SCAN

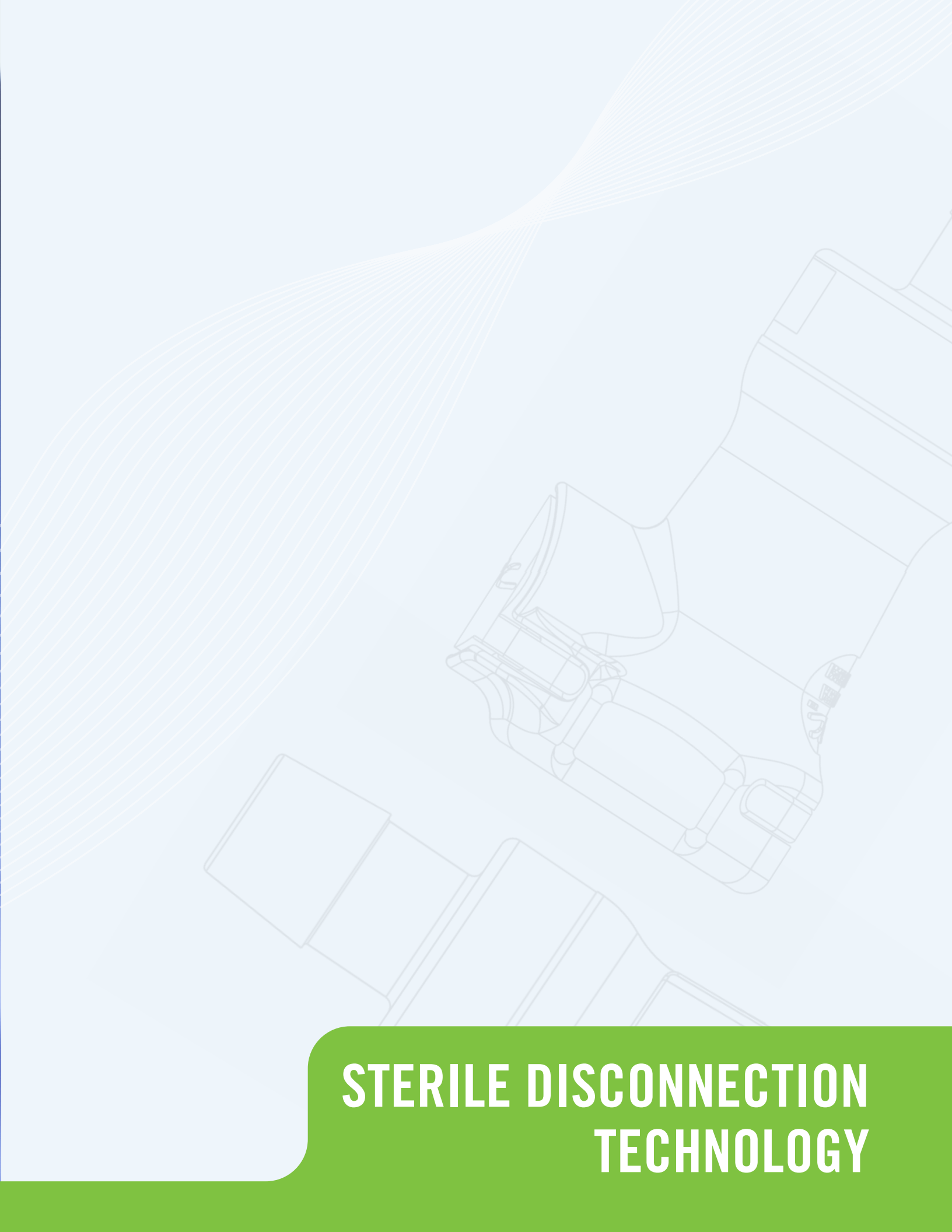
cpcworldwide.com/AQWassembly

STEP 3

Pull the membranes by placing one hand in the handle of the pull tabs and the other hand on the termination (Option 1) OR the pull tab guides (Option 2). (Ensure Step 3 is completed prior to moving to Step 4)

STEP 4

Remove the clear shipping clips then Snap side "1" first, followed by side "2" on each side latch and confirm they are attached to the body



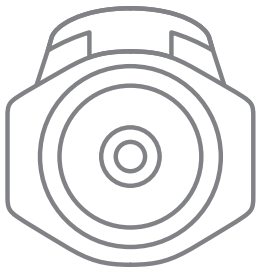
STERILE DISCONNECTION TECHNOLOGY

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

NOMINAL FLOW PATH (NFP) SIZE



	NFP	CV RANGE
HFC	(0.375")	0.3 - 2.5

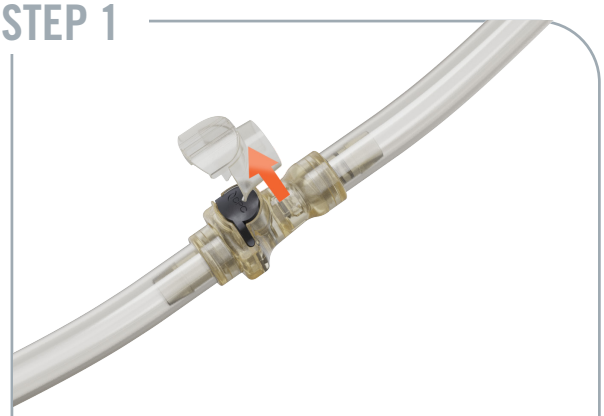
Cv values represent the approximate expected flow rate in gallons per minute of water at room temperature for a 1 PSI pressure drop. The flow is generally constrained by the smallest diameter, which in some cases will be the termination diameter and not the NFP.

HFC DISCONNECT OPTIONS

	TERMINATIONS			MATERIALS		PRODUCT FEATURE	STERILIZATION (CHOOSE 1)		FLOW INFORMATION	
	HOSE BARB									
	1/4"	3/8"	1/2"	SILICONE SEAL	POLYSULFONE	PROTECTIVE THUMB LATCH COVER	GAMMA COMPATIBLE	AUTOCLAVABLE	NOMINAL FLOW PATH	CV VALUE RANGE
CONNECTED SET	✓	✓	✓	✓	✓	✓	✓	✓	3/8"	0.3 – 2.5
UNCONNECTED HALVES	✓	✓	✓	✓	✓		✓	✓	3/8"	0.3 – 2.5

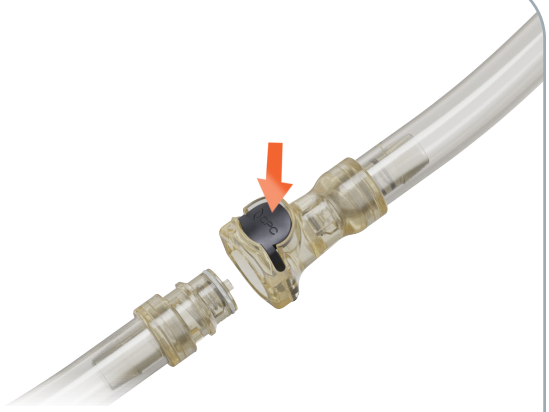
HFC DISCONNECT PROCEDURE

STEP 1



Remove the protective thumb latch cover.

STEP 2



Press the thumb latch to disconnect.

If desired, install cap/plug to disconnected halves.

HFC DISCONNECT
SERIES CONNECTORS

HFC Disconnects enable sterile disconnection of single-use 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
or
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)
O-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

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cpcworldwide.com/HFC-Disconnect

FEATURES	BENEFITS
Intuitive one-step disconnection process	No requirement for additional equipment to make sterile disconnection
Automatic shutoff valves	Stop flow and eliminate need for pinch clamps
Protective thumb latch cover	Guard against accidental disconnects
Laser etched item number and lot number	Full traceability to raw material source
Alloy C-276 internal flow path spring	Enabling broader application compatibility

TYPICAL FLOW RATE

Cv Value Range: 0.7-1.9
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.

NOTE

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.	A	B
1/4" HOSE BARB	6.4 mm ID	HFCD39SET4HC	1.54" (39.1 mm)	3.71" (94.3 mm)
3/8" HOSE BARB	9.5 mm ID	HFCD39SET6HC	1.54" (39.1 mm)	3.71" (94.3 mm)
1/2" HOSE BARB	12.5 mm ID	HFCD39SET8HC	1.54" (39.1 mm)	4.29" (109 mm)

COUPLING BODIES - Polysulfone

TERMINATION	METRIC EQ.	PART NO.	A	B
1/4" HOSE BARB	6.4 mm ID	HFCD17439MHC	1.44" (36.6 mm)	2.78" (70.6 mm)
3/8" HOSE BARB	9.5 mm ID	HFCD17639MHC	1.44" (36.6 mm)	2.78" (70.6 mm)
1/2" HOSE BARB	12.5 mm ID	HFCD17839MHC	1.44" (36.6 mm)	3.07" (78.0 mm)

COUPLING INSERTS - Polysulfone

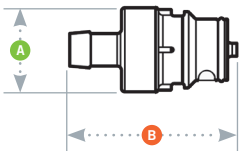
TERMINATION	METRIC EQ.	PART NO.	A	B
1/4" HOSE BARB	6.4 mm ID	HFCD22439MHC	1.00" (25.4 mm)	2.00" (50.8 mm)
3/8" HOSE BARB	9.5 mm ID	HFCD22639MHC	1.00" (25.4 mm)	2.00" (50.8 mm)
1/2" HOSE BARB	12.5 mm ID	HFCD22839MHC	1.00" (25.4 mm)	2.29" (58.2 mm)

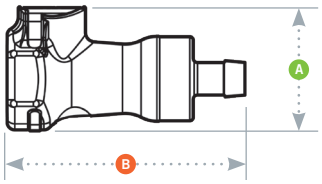
MATING PARTS

PART	PART NO.	A	B
SEALING CAP	HFC32039	1.44" (36.6 mm)	2.73" (69.3 mm)
SEALING PLUG	HFC30039M	1.00" (25.4 mm)	1.80" (45.7 mm)

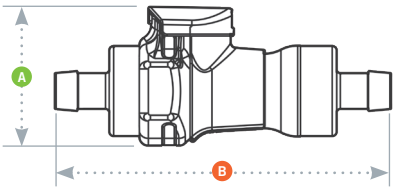
All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted.

PRODUCT DIMENSIONS





A = Height/Diameter
B = Total Length



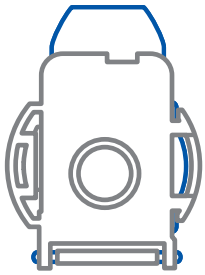
ASEPTIC COMBINATION CONNECTORS

WHAT IS ASEPTIC COMBINATION TECHNOLOGY?

Aseptic Combination Technology offers both a sterile connection AND a sterile disconnection in the same connector. This connect/disconnect combination connector helps process engineers and manufacturers make quick, easy, and sterile connections and disconnections, even in non-sterile environments. CPC's sterile combination technology is engineered using CPC's single-use technology, enabling users to make easy media transfers with less risk of operator error. When media transfers are complete, combination connectors easily and securely disconnect to help maintain sterility. Automatic shutoff valves support this disconnect, providing reliable performance without the need for tube welders.

FEATURES	BENEFITS
Genderless →	Connects with any part number within the AseptiQuik G product line
FLIP - CLICK - PULL →	Intuitive three-step connection process reduces risk of operator error
Simple Two-Step Disconnection →	Maintains system sterility in both sides of the system via disconnect process
Membrane Pull Tabs →	Ensure simultaneous and secure removal of both membranes
Automatic Shutoff Valves →	Eliminate the need for tube sealers post disconnect process
Protective Thumb Latch Cover →	Eliminates accidental disconnects
Alloy C-276 internal flow path spring →	Enables broader application compatibility

NOMINAL FLOW PATH (NFP) SIZE



	NFP	CV RANGE
AQG DC	(0.5")	0.8 – 1.9

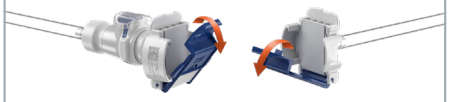
Cv values represent the approximate expected flow rate in gallons per minute of water at room temperature for a 1 PSI pressure drop. The flow is generally constrained by the smallest diameter, which in some cases will be the termination diameter and not the NFP.

ASEPTIQUIK COMBINATION CONNECTORS OPTIONS

	TERMINATIONS									MATERIALS			STERILIZATION (CHOOSE 1)		FLOW INFORMATION	
	HOSE BARB						SANITARY FLANGES									
	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1/4"	3/4"	1 1/2"	SILICONE SEAL	POLYCARBONATE	POLYPHENYLSULFONE	GAMMA COMPATIBLE	AUTOCLAVABLE	NOMINAL FLOW PATH	CV VALUE RANGE
ASEPTIQUIK® G DC SERIES		✓	✓	✓						✓	✓		✓		1/2"	0.8 - 1.9

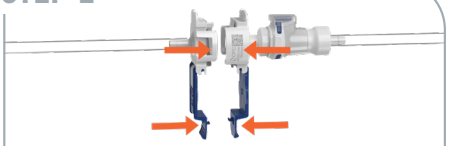
ASEPTIQUIK G DC ASSEMBLY PROCEDURE

STEP 1



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

STEP 2



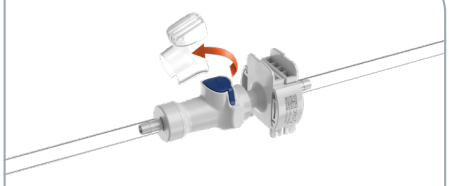
Align the connector halves with the pull tabs hanging down. Slide the two halves together. Independently squeeze each side of the connector until you hear an audible “CPC Click.”

STEP 3

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

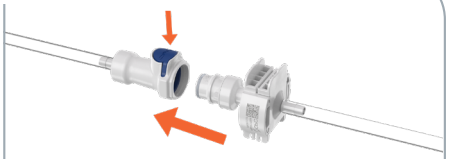
ASEPTIQUIK G DC DISASSEMBLY PROCEDURE

STEP 1



Remove protective thumb latch cover.

STEP 2



Press the thumb latch to disconnect.

ASEPTIQUIK® G DC
SERIES CONNECTORS

AseptiQuik® G DC Series Connector is the first all-in-one, genderless, single-use connection technology to offer both a sterile connection and a sterile disconnection. With the AseptiQuik G DC connector, manufacturers can make quick and easy sterile connections and disconnections – even in non-sterile environments.

The intuitive Flip - Click - Pull design of the AseptiQuik G DC connector enables users to transfer media easily with less risk of operator error. After transfer is complete, a simple two-step disconnection maintains media sterility by preventing environmental ingress into the media flow path.

The connector's robust design and automatic shutoff valves provide reliable performance without the need for fixtures or tube welders/sealers.

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 50 kGy irradiation

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

MATERIALS
Main components:
Polycarbonate (white)
Thumb latch:
Polycarbonate (blue)
Pull Tabs/Caps:
Polycarbonate (blue)
Seals:
Silicone (clear), platinum-cured
Membrane:
Polyethylene
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.

FEATURES	BENEFITS
Genderless	Connects with any part number within the AseptiQuik G product line
FLIP - CLICK - PULL	Intuitive three-step connection process reduces risk of operator error
Simple Two-Step Disconnection	Maintains system sterility in both sides of the system via disconnect process
Membrane Pull Tabs	Ensure simultaneous and secure removal of both membranes
Automatic Shutoff Valves	Eliminate the need for tube sealers post disconnect process
Protective Thumb Latch Cover	Eliminates accidental disconnects
Alloy C-276 internal flow path spring	Enables broader application compatibility

TYPICAL FLOW RATE
Cv Value Range: 0.8-1.90
for AseptiQuik G DC 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/AseptiQuik-GDC

Scan code to visit webpage

SCAN

cpcworldwide.com/AseptiQuik-GDC

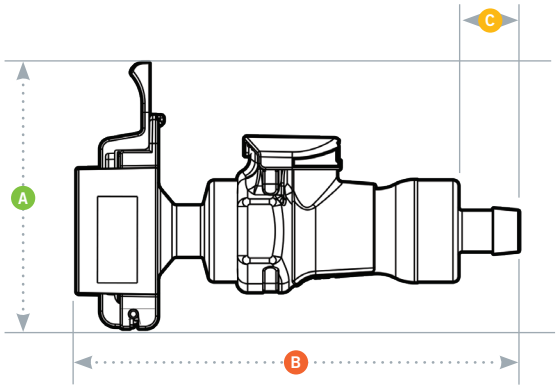
ASEPTIQUIK® G DC SERIES DIMENSIONS

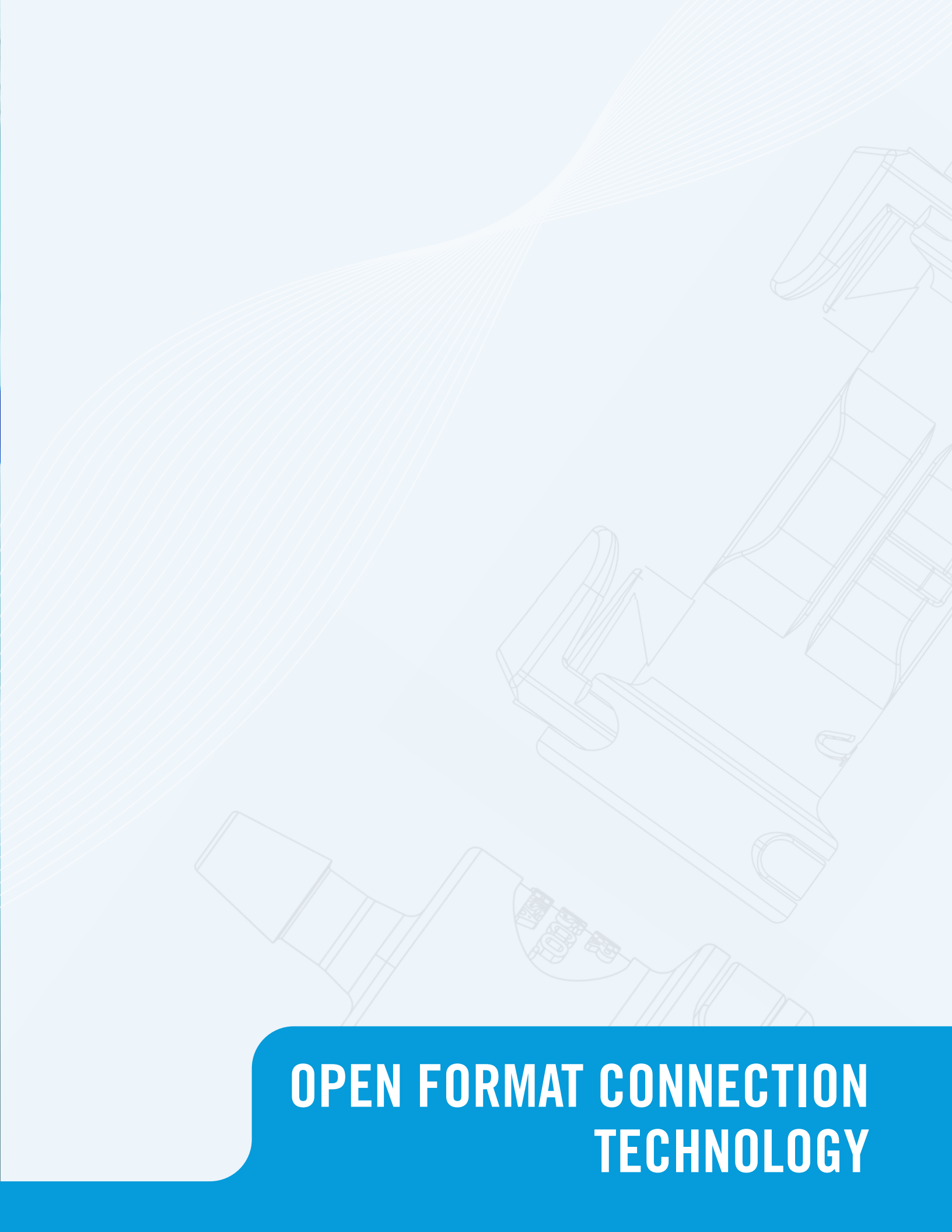
POLYCARBONATE - For gamma irradiation applications.

TERMINATION	TUBING	METRIC EQ.	PART NO.	A	B	C
1/4" HOSE BARB ASEPTIQUIK G DC BODY	1/4"	6.4 mm	AQGDC17004	2.62" (66.5 mm)	4.37" (111.0 mm)	0.60" (15.2 mm)
3/8" HOSE BARB ASEPTIQUIK G DC BODY	3/8"	9.5 mm	AQGDC17006	2.62" (66.5 mm)	4.37" (111.0 mm)	0.60" (15.2 mm)
1/2" HOSE BARB ASEPTIQUIK G DC BODY	1/2"	12.7 mm	AQGDC17008	2.62" (66.5 mm)	4.66" (118.4 mm)	0.89" (22.6 mm)

PRODUCT DIMENSIONS

A = Height/Diameter
B = Total Length
C = Hose Barb Length





OPEN FORMAT CONNECTION TECHNOLOGY

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.

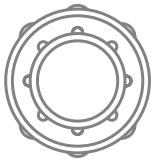
Back-to-back adapters within the MPC and MPX product lines can be used to connect two identical body components or insert components. For additional flexibility, reducer options enable connection between an MPC and MPX product to link 1/8" to 1/2" ID tubing.

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

NOMINAL FLOW PATH (NFP) SIZE

	NFP	CV RANGE
MPC	(0.25")	0.1 – 8.0
BACK-TO-BACK BODIES & INSERTS	(0.375" – 0.5")	2.0 – 6.0

	NFP	CV RANGE
MPX	(0.5")	4.0 – 17
BACK-TO-BACK BODIES & INSERTS	(0.375" – 0.5")	23 – 32



	NFP	CV RANGE
MPU	(1")	18 – 41

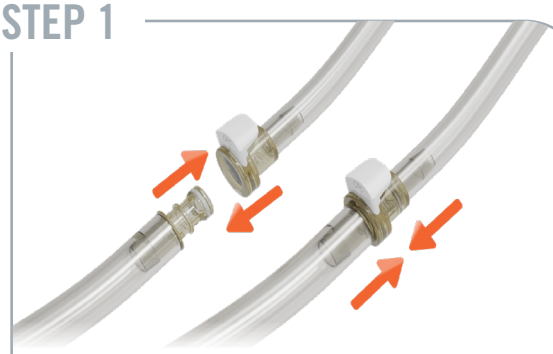
Cv values represent the approximate expected flow rate in gallons per minute of water at room temperature for a 1 PSI pressure drop. The flow is generally constrained by the smallest diameter, which in some cases will be the termination diameter and not the NFP.

OPEN FORMAT CONNECTION OPTIONS

	TERMINATIONS								PRODUCT FEATURES	FLOW-PATH MATERIALS			STERILIZATION (CHOOSE 1)		FLOW INFORMATION	
	HOSE BARB						SANITARY									
	1/8"	1/4"	3/8"	1/2"	3/4"	1"	3/4"	1-1/2" SANITARY	OPTIONAL LOCKING SLEEVE	SILICONE SEAL	POLYCARBONATE	POLYSULFONE	GAMMA COMPATIBLE	AUTOCLAVEABLE	NOMINAL FLOW PATH	CV VALUE RANGE
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							✓	✓		✓		✓	✓	✓	1/2"	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

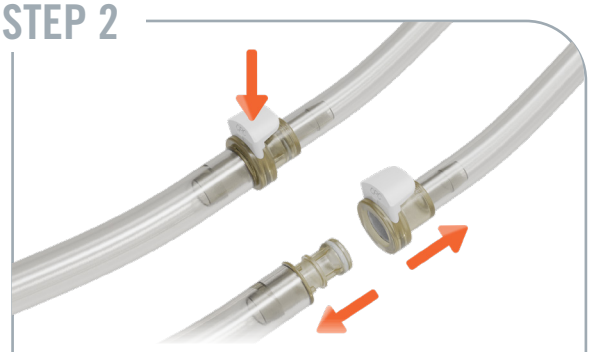
MPC/MPX ASSEMBLY PROCEDURE

STEP 1



To connect two MPC or two MPX components, press the body (or cap) and insert (or plug) components together.

STEP 2



To disconnect two MPC or two MPX components, depress the thumb latch and separate the two components from one another.

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.

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.

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
or
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)
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.

FEATURES	BENEFITS
Ergonomic thumb latch	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 size and material	Better flexibility to fit more applications

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.

Scan code to visit webpage

SCAN

cpcworldwide.com/MPC

MPC SERIES DIMENSIONS

COUPLING BODIES

TERMINATION	METRIC EQ.	POLYCARBONATE PART NO.	POLYSULFONE PART NO.	A	B
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

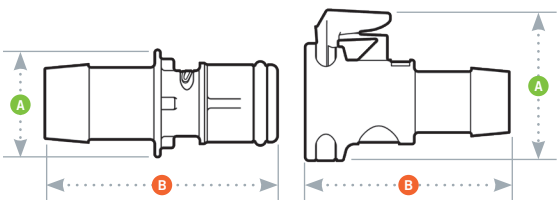
TERMINATION	METRIC EQ.	POLYCARBONATE PART NO.	POLYSULFONE PART NO.	A	B
1/8" HOSE BARB	3.2 mm ID	MPC22002T03M	MPC22002T39M	0.60" (15.2 mm)	1.09" (27.7mm)
1/4" HOSE BARB	6.4 mm ID	MPC22004T03M	MPC22004T39M	0.60" (15.2 mm)	1.30" (33.0 mm)
3/8" HOSE BARB	9.5 mm ID	MPC22006T03M	MPC22006T39M	0.60" (15.2 mm)	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
MPC30003M	Polycarbonate	0.75" (19.1 mm)	1.24" (31.5 mm)
MPC30039M	Polysulfone	0.75" (19.1 mm)	1.24" (31.5 mm)

PRODUCT DIMENSIONS



A = Height/Diameter B = Total Length

MPX
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
or
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.

FEATURES	BENEFITS
Ergonomic thumb latch	Easy to operate – even with gloved hands
Parting line-free hose barb	Prevents potential leak path
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.

Scan code to visit webpage

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cpcworldwide.com/MPX

NOTE
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.

MPX SERIES DIMENSIONS

COUPLING BODIES

TERMINATION	METRIC EQ.	FLOW	POLYCARBONATE PART NO.	POLYSULFONE PART NO.	A	B
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.	A	B
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)

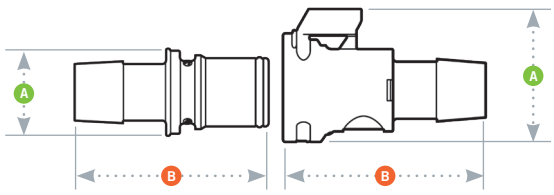
SEALING COMPONENTS

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	A	B
MPX30003M	Polycarbonate	1.10" (27.9 mm)	1.66" (42.2 mm)
MPX30039M	Polysulfone	1.10" (27.9 mm)	1.66" (42.2 mm)

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

PRODUCT DIMENSIONS



A = Height/Diameter B = Total Length

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

or

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)
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.

FEATURES	BENEFITS
Compatible with MPC and MPX Series inserts	Easy conversion to industry standard connections or single-use systems
Tubing reduction option	Allows easy transition between multiple size tubing from 1/8" to 1/2" ID
Ergonomic thumb latches	Easy to operate – even with gloved hands

TYPICAL FLOW RATE
Cv Value Range: 2 - 32
for Back-to-Back 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.

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cpcworldwide.com/Back-to-Back-Adapters

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	B
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)

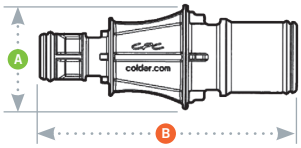
MPC/MPX BACK-TO-BACK BODY ADAPTERS - Polycarbonate

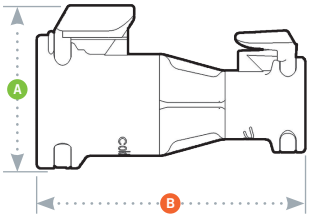
PART NO.	TYPE	A	B
MPC17C1703	MPC to MPC	0.96" (24.5)	1.81" (46.0)
MPX17X1703	MPX to MPX	1.28" (32.5)	2.44" (62.0)
MPC17X1703	MPC to MPX	1.28" (32.5)	2.13" (54.1)

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

PART NO.	TYPE	A	B
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/Diameter
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

or

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

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
3/4", 1" and 1-1/2" sanitary terminations	Install to equipment with sanitary gaskets and sanitary clamps
Compatible with MPC and MPX Series couplings	Quick and easy connections to industry standard plastic couplings
Integral coupling adapters	Provides flexibility to easily convert sanitary terminations on filter cartridge or equipment
ADCF-free materials	Meet BSE/TSE requirements

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.

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cpcworldwide.com/Sanitary

NOTE
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.

MPC/MPX SANITARY SERIES DIMENSIONS

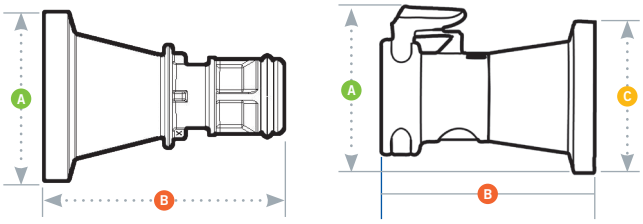
COUPLING BODIES - Polysulfone

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	B
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
C = Sanitary Flange Diameter

NOTES

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

(or)

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

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.

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cpcworldwide.com/MPU

FEATURES	BENEFITS
3/4" and 1" hose barb	Facilitates rapid fill and empty of bioprocessing bags
Locking feature	Guards against accidental disconnects
Sharp barb end	Minimizes fluid turbulence and dead space
Shrouded, leak-free seal & smooth, internal flow path	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

COUPLING BODIES - Polysulfone

TERMINATION	METRIC EQ.	PART NO.	A	B
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)

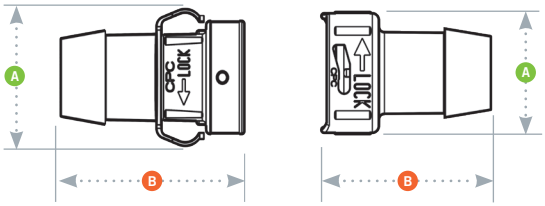
COUPLING INSERTS - Polysulfone

TERMINATION	METRIC EQ.	PART NO.	A	B
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	B
MPU32039	Polysulfone	1.75" (44.5mm)	.79" (20.1mm)
MPU30039M	Polysulfone	1.56" (39.6mm)	1.38" (35.1mm)

PRODUCT DIMENSIONS



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.

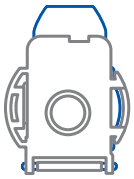
FEATURES	BENEFITS
Innovative three-port design	Allows for a true steam-through SIP process to eliminate dead legs and the need for laminar flow hoods
Intuitive valve design	Enables sterile connection/disconnection while permitting a high media flow rate
Steam-Thru II Thumb Latch	Secures valve position, provides visual indicator of process stage
3/4" and 1-1/2" Sanitary Terminations	Easily connects to process equipment

Additional features and benefits for the AseptiQuik Steam-Thru Combination:

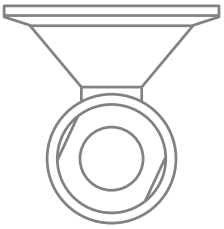
Genderless AseptiQuik	Eases single-use systems specifications with one part number for both halves
FLIP-CLICK-PULL	Intuitive three-step connection process reduces risk of operator error
CPC Click	Audible confirmation of assembly with no additional hardware required
Sanitary interface between the two connectors	More secure connection than tubing with cable ties

NOMINAL FLOW PATH (NFP) SIZE

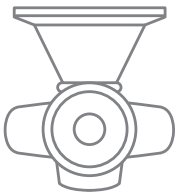
	NFP	CV RANGE
AQS STEAM-THRU II	(0.375")	1.0 - 2.0



	NFP	CV RANGE
AQG STEAM-THRU II	(0.5")	3.0 - 9.0



	NFP	CV RANGE
STEAM-THRU	(0.5")	4.0 - 7.0



	NFP	CV RANGE
STEAM-THRU II	(0.5")	3.0 - 9.0

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				EQUIPMENT PORT TERMINATION		CONDENSATE PORT TERMINATION	PRODUCT FEATURES			STERILIZATION OPTIONS (CHOOSE 1)		SIP	FLOW INFORMATION	
	HOSE BARB		ASEPTI-QUIK		SANITARY		SANITARY								
	3/8"	1/2"	AQS	AQG	3/4"	1-1/2"	3/4"	STEAM-ON	STEAM-OFF	THUMB LATCH ACTUATION	GAMMA COMPATIBLE	AUTOCLAVEABLE		NOMINAL FLOW PATH	CV VALUE RANGE
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

STEP 1

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

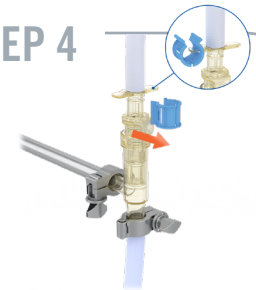
STEP 2

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



Remove the plastic guard from above the connector thumb latch and transfer it to one of the tabs located directly above it.

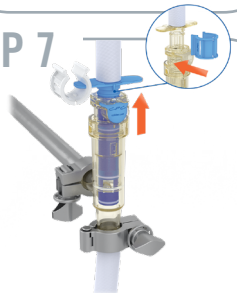
STEP 5

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

STEP 6

Perform fluid transfer through the connector.

STEP 7



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

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

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:
Up to 275°F (135°C) for 60 minutes
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

or
- **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
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	BENEFITS
Innovative three-port design	Allows a true steam-through SIP process which eliminates "dead legs" and the need for laminar flow hoods
Valve design	Allows sterile connection and disconnection and permits high media flow rate
Steam-Thru II thumb latch	Secures valve position, provides visual indicator of process stage
3/4" and 1-1/2" sanitary terminations	Easily connects to process equipment

TYPICAL FLOW RATE
Cv Value Range:
4.0 - 7.0 for Steam-Thru
3.0 - 9.0 for Steam-Thru II

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/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.

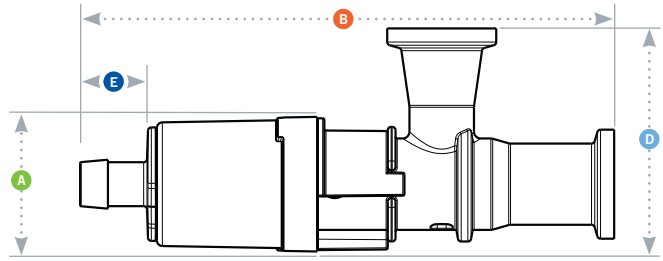
STEAM-THRU SERIES DIMENSIONS

POLYSULFONE with polycarbonate sleeve

TERMINATION	PART NO.	A	B	C	D	E
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 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.



A = Diameter
C = Actuated Length
E = Hose Barb Length
B = Total Length
D = Height

STEAM-THRU II SERIES DIMENSIONS

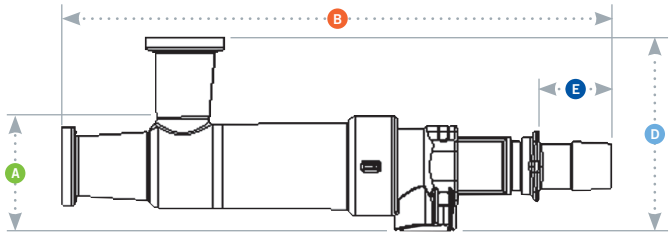
POLYSULFONE with polycarbonate sleeve

TERMINATION	PART NO.	A	B	C	D	E
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.



A = Diameter
C = Actuated Length
E = Hose Barb Length
B = Total Length
D = Height

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 single-use 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

(or)
- **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 Tables found in literature

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TYPICAL FLOW RATE

Cv Value Range:
1 - 2 for AQSSTCII
3 - 9 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

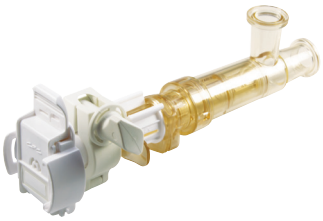
The AQSSTC provides the same sterile hybrid technology as the Steam-Thru II, but in an even more compact form. The AQSSTC has an AseptiQuik mounted on the single-use port of the Steam-Thru Connector. Meaning fewer single-use systems mounted on your bioreactor during the SIP process. Connect the other 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.

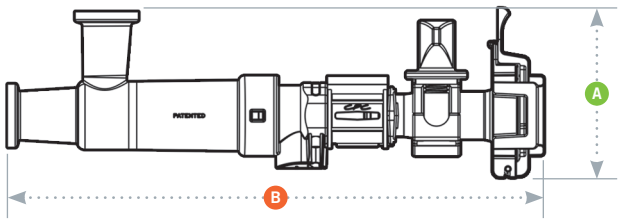
TERMINATION	PART NO.	A	B	C
3/4" X 3/4" SANITARY STEAM-THRU II WITH ASEPTIQUIK G BODY	AQGSTC2330900	3.05" (77.5 mm)	8.26" (209.8 mm)	7.36" (186.9 mm)
3/4" X 1-1/2" SANITARY STEAM-THRU II WITH ASEPTIQUIK G BODY	AQGSTC2331000	3.05" (77.5 mm)	8.26" (209.8 mm)	7.36" (186.9 mm)
3/4" X 3/4" SANITARY STEAM-THRU 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

BENEFITS

FEATURES	BENEFITS
Genderless AseptiQuik	Eases single-use systems specifications with one-part number for both halves
FLIP-CLICK-PULL	Intuitive three-step connection process reduces risk of operator error
CPC Click	Audible confirmation of assembly with no additional hardware required
Innovative three-port steam design	Allows a true steam-through SIP process which eliminates "dead legs"
Steam valve design	Allows sterile connection and disconnection to stainless equipment and permits a high media flow rate
Sanitary interface between the two connectors	More secure connection than tubing with cable ties

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