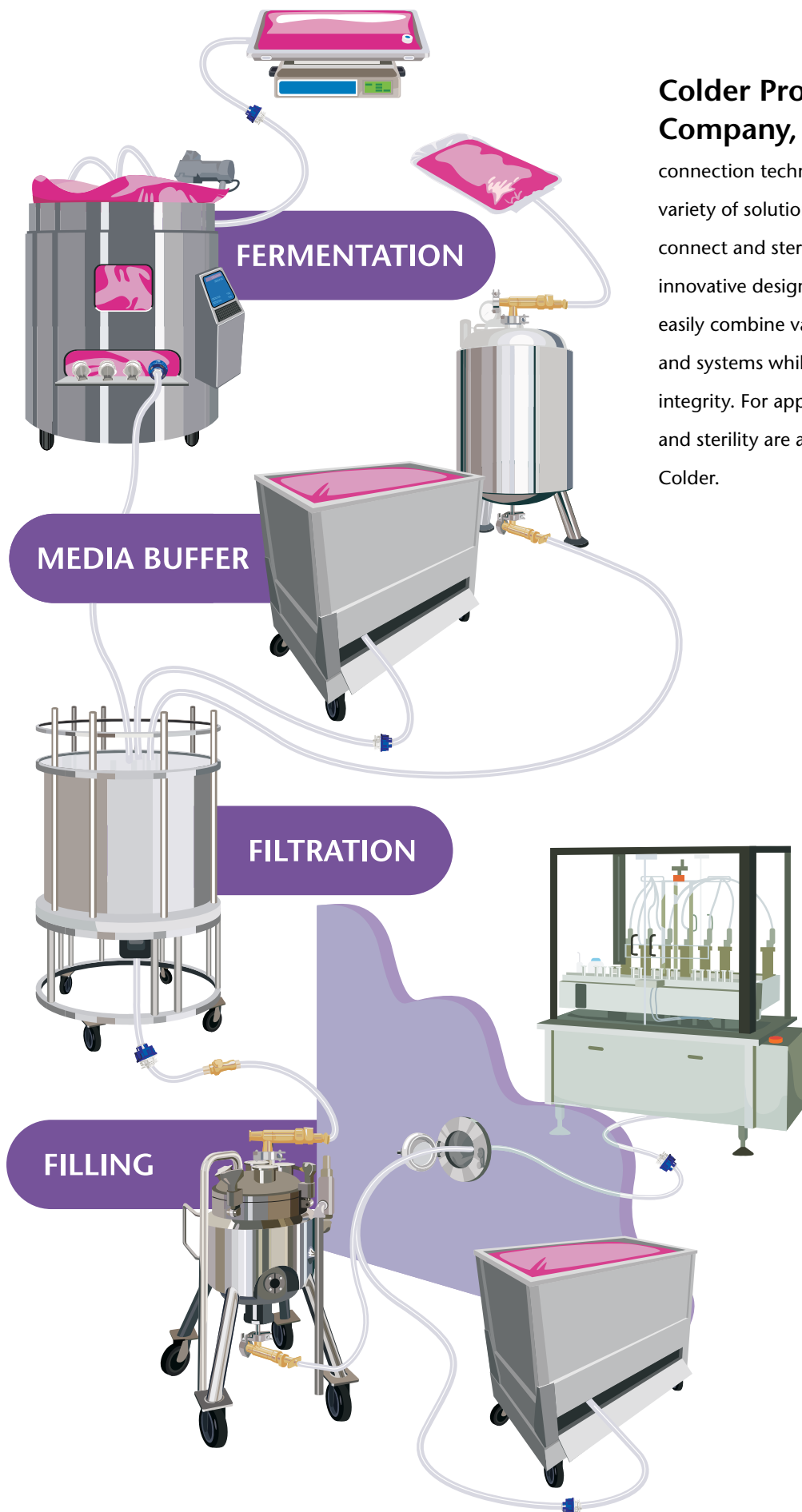


CONNECTION SOLUTIONS for BIOPHARMACEUTICAL PROCESSES

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



APPLICATIONS

**Colder Products**

Company, the leader in single-use connection technology, offers a wide variety of solutions including sterile connect and sterile disconnect. Our innovative designs offer flexibility to easily combine various components and systems while maintaining product integrity. For applications where reliability and sterility are a must, Connect with Colder.



- 4 AseptiQuik®:** Provides a quick and easy sterile connection, even in non-sterile environments.

Material: Polycarbonate

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



- 7 AseptiQuik® DC:** All-in-one single-use connection technology offering both a sterile connect and a sterile disconnect.

Material: Polycarbonate

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



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

Material: Polysulfone

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



- 12 Steam-Thru® Connections:** Allow quick and easy sterile connection via SIP between biopharmaceutical processing equipment and disposable bag and tube assemblies.

Material: Polysulfone

Termination Sizes: 3/8" (9.5mm) HB to 1/2" (12.7mm) HB and 3/4" sanitary



- 16 AseptiQuik® STC:** Allows an AseptiQuik sterile connection to be steamed on to stainless equipment via SIP.

Material: Polycarbonate and polysulfone



- 19 MPC:** Easy-to-use and secure connection for critical fluid applications; includes pressure sealing caps and plugs with optional locking sleeves.

Material: Polycarbonate and polysulfone

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



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

Material: Polycarbonate and polysulfone

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



- 24 Back-to-Back Body Adapters:** Allow end users to connect off-the-shelf single-use systems that may feature two male insert connections at the end of the tubing.

Material: Polycarbonate and polysulfone



- 25 Sanitary Series:** Attaches directly to 3/4", 1" and 1-1/2" sanitary terminations to provide greater flexibility for integrating components into single-use or hybrid process systems.

Material: Polysulfone

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



- 26 SaniQuik™:** Integral sanitary termination attaches to hard-plumbed systems with tri-clover clamps; permits quick and easy connection to single-use bag systems, manifolds or tube sets.

Material: 316L stainless steel

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



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

Material: Polysulfone

Tubing ID Sizes: 3/4" (19.1mm)



LEGEND



Straight-Through



Single Shut-Off



Double Shut-Off



Non-Spill

ASEPTIQUIK® CONNECTOR



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

Features

- CLICK-PULL-TWIST design
- Membrane pull tabs
- Robust construction
- Integrated lock ring
- Colder Click
- Market availability

Benefits

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

Specifications

Pressure: Up to 60 psi, 4.1 bar

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

Typical Flow Rate:
 $C_v = 14.4$ max

Sterilization:

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

Termination Sizes:

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

Materials:

Main Components:

Polycarbonate (white), USP Class VI, ADCF

Lock Ring:

Polycarbonate (blue), USP Class VI, ADCF

Pull Tabs:

Polycarbonate (blue, standard version),
USP Class VI, ADCF

Polycarbonate (white, HT version),
USP Class VI, ADCF

Caps:

Polypropylene (clear), USP Class VI, ADCF

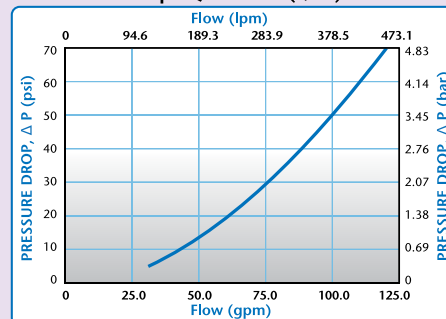
Seals:

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

Membrane:

Polyethylene (standard version),
USP Class VI, ADCF
Hydrophobic polyethersulfone (HT version),
USP Class VI

AseptiQuik Flow (1/2")



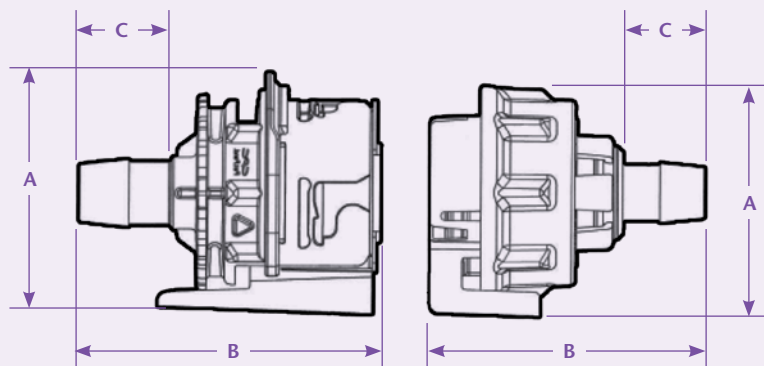
This graph is intended to give you a general idea of the performance of the product.

Visit us at

www.colder.com/aseptiquik or call
800-444-2474 for more information.



Product Dimensions



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

Coupling Bodies

POLYCARBONATE with Blue Pull Tabs

TERMINATION	PART NO.	FLOW	A	B	C
3/8" HOSE BARB	AQC17006	.34	2.36 (59.9)	2.74 (69.6)	0.65 (16.5)
1/2" HOSE BARB	AQC17008	.50	2.36 (59.9)	2.95 (74.9)	0.89 (22.6)
3/4" SANITARY	AQC33012	.50	2.36 (59.9)	2.73 (69.3)	0.70 (17.8)



Coupling Bodies - High Temperature

POLYCARBONATE with White Pull Tabs

TERMINATION	PART NO.	FLOW	A	B	C
3/8" HOSE BARB	AQC17006HT	.34	2.36 (59.9)	2.74 (69.6)	0.65 (16.5)
1/2" HOSE BARB	AQC17008HT	.50	2.36 (59.9)	2.95 (74.9)	0.89 (22.6)
3/4" SANITARY	AQC33012HT	.50	2.36 (59.9)	2.73 (69.3)	0.70 (17.8)



Coupling Inserts

POLYCARBONATE with Blue Pull Tabs

TERMINATION	PART NO.	FLOW	A	B	C
3/8" HOSE BARB	AQC22006	.34	2.50 (63.5)	2.90 (73.7)	0.65 (16.5)
1/2" HOSE BARB	AQC22008	.50	2.50 (63.5)	2.99 (75.9)	0.89 (22.6)
3/4" SANITARY	AQC44012	.50	2.50 (63.5)	2.80 (71.1)	0.70 (17.8)



Coupling Inserts - High Temperature

POLYCARBONATE with White Pull Tabs

TERMINATION	PART NO.	FLOW	A	B	C
3/8" HOSE BARB	AQC22006HT	.34	2.50 (63.5)	2.90 (73.7)	0.65 (16.5)
1/2" HOSE BARB	AQC22008HT	.50	2.50 (63.5)	2.99 (75.9)	0.89 (22.6)
3/4" SANITARY	AQC44012HT	.50	2.50 (63.5)	2.80 (71.1)	0.70 (17.8)



Call toll free 1-800-444-2474 or visit us at www.colder.com

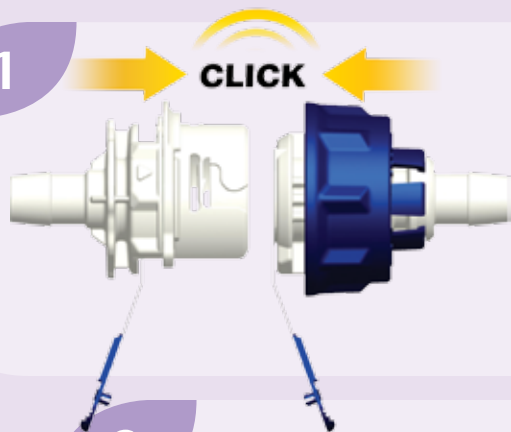
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Pre-Assembly Cap Removal



CLICK-PULL-TWIST Assembly Procedure

1



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

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

2

Snap membrane pull tabs together and pull from connector.



3

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



Connect with Colder
Sterile Fluid Transfer



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

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

Features

- CLICK-PULL-TWIST design
- Simple one-step disconnection
- Membrane pull tabs
- Robust construction
- Colder Click
- Market availability

Benefits

- Intuitive three-step connection process reduces risk of operator error
- Maintains media sterility in each half by preventing external organisms from entering the flow path
- Ensure simultaneous and secure removal of both membranes
- Repeatable and reliable performance with no additional hardware required
- Audible confirmation of completed assembly steps
- Open access through multiple supply chain partners

Specifications

Pressure: Up to 60 psi, 4.1 bar

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

Sterilization:

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

Termination Sizes:

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

Materials:

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

Lock Ring:
Polycarbonate (blue), USP Class VI, ADCF

Pull Tabs:
Polycarbonate (blue, standard version),
USP Class VI, ADCF

Polycarbonate (white, HT version),
USP Class VI, ADCF

Caps:
Polypropylene (clear), USP Class VI, ADCF

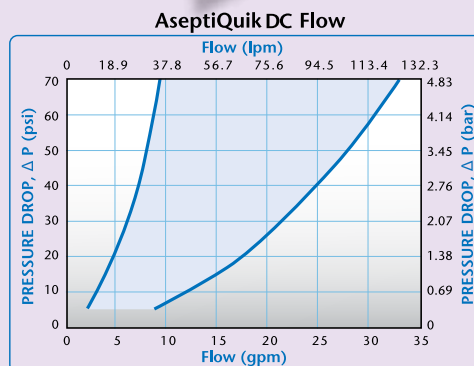
Seals:
Silicone (clear), platinum-cured, USP Class VI,
ADCF

Membrane:
Polyethylene (standard version),
USP Class VI, ADCF
Hydrophobic polyethersulfone (HT version),
USP Class VI

Springs:
316 stainless steel

Mates with standard AseptiQuik halves.

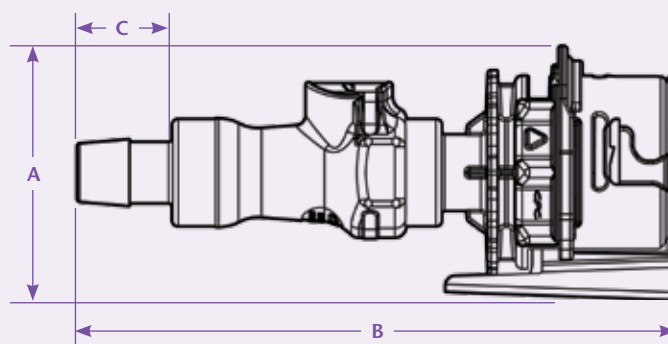
- AQCDC Inserts mate with standard AQC Bodies
- AQCDC Bodies mate with standard AQC Inserts



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

Product Dimensions

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



Coupling Bodies



POLYCARBONATE with Blue Pull Tabs

TERMINATION	PART NO.	FLOW	A	B	C
1/4" HOSE BARB	AQCDC17004	1/4"	2.36 (59.9)	5.33 (135.4)	0.60 (15.2)
3/8" HOSE BARB	AQCDC17006	3/8"	2.36 (59.9)	5.33 (135.4)	0.60 (15.2)
1/2" HOSE BARB	AQCDC17008	3/8"	2.36 (59.9)	5.62 (142.7)	0.89 (22.6)

Coupling Bodies - High Temperature



POLYCARBONATE with White Pull Tabs

TERMINATION	PART NO.	FLOW	A	B	C
1/4" HOSE BARB	AQCDC17004HT	1/4"	2.36 (59.9)	5.33 (135.4)	0.60 (15.2)
3/8" HOSE BARB	AQCDC17006HT	3/8"	2.36 (59.9)	5.33 (135.4)	0.60 (15.2)
1/2" HOSE BARB	AQCDC17008HT	3/8"	2.36 (59.9)	5.62 (142.7)	0.89 (22.6)

Coupling Inserts



POLYCARBONATE with Blue Pull Tabs

TERMINATION	PART NO.	FLOW	A	B	C
1/4" HOSE BARB	AQCDC22004	1/4"	2.50 (63.5)	5.41 (137.4)	0.60 (15.2)
3/8" HOSE BARB	AQCDC22006	3/8"	2.50 (63.5)	5.41 (137.4)	0.60 (15.2)
1/2" HOSE BARB	AQCDC22008	3/8"	2.50 (63.5)	5.70 (144.8)	0.89 (22.6)

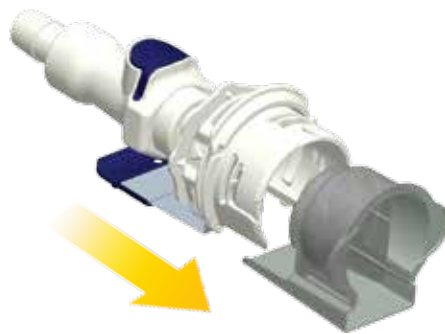
Coupling Inserts - High Temperature



POLYCARBONATE with White Pull Tabs

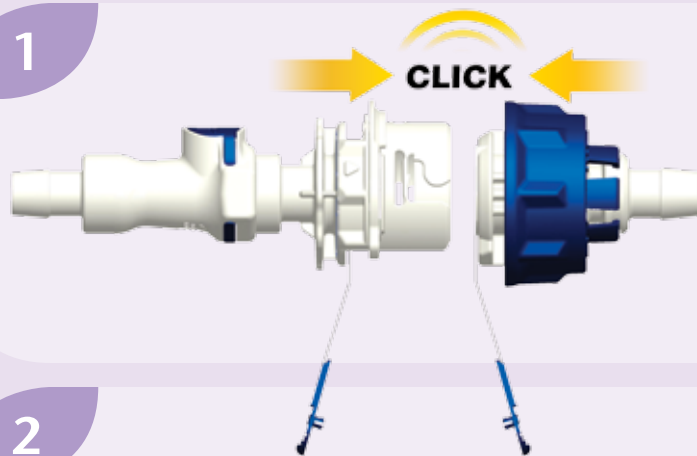
TERMINATION	PART NO.	FLOW	A	B	C
1/4" HOSE BARB	AQCDC22004HT	1/4"	2.50 (63.5)	5.41 (137.4)	0.60 (15.2)
3/8" HOSE BARB	AQCDC22006HT	3/8"	2.50 (63.5)	5.41 (137.4)	0.60 (15.2)
1/2" HOSE BARB	AQCDC22008HT	3/8"	2.50 (63.5)	5.70 (144.8)	0.89 (22.6)

Pre-Assembly Cap Removal



CLICK-PULL-TWIST Assembly Procedure

1



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

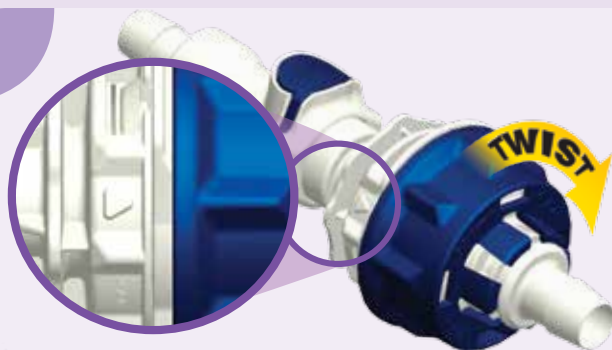
Slight rotation of blue lock ring may be required for proper alignment prior to connection.

2

Snap membrane pull tabs together and pull from connector.



3



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

4

The connector is now ready for sterile fluid transfer.

5



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



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

HFC39 Series sterile disconnect couplings

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

Features

Simple one-step disconnection

Automatic shutoff valves

Colder Click

Lightweight

BSE/TSE free materials

Benefits

Maintains media sterility in each half by preventing external organisms from entering the flow path

Stop flow and eliminate need for pinch clamps

Audible confirmation of secure connection

Easy integration with single-use assemblies

Meet ADCF requirements

HFC39 SERIES

Specifications

Pressure: Vacuum to 125 psi, 8.6 bar

Temperature:

-40°F to 280°F (-40°C to 138°C)

Materials:

Main components:

Polysulfone (amber tint), USP Class VI, ADCF

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

Springs: 316 stainless steel

Sterilization:

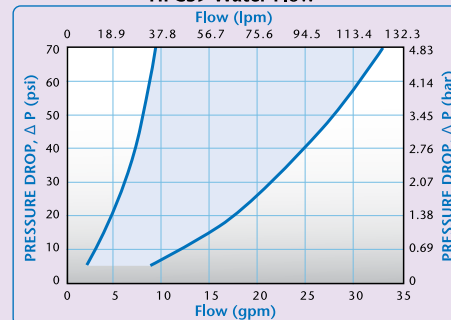
Gamma: Up to 50 kGy irradiation. Sterilize coupled or uncoupled.

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

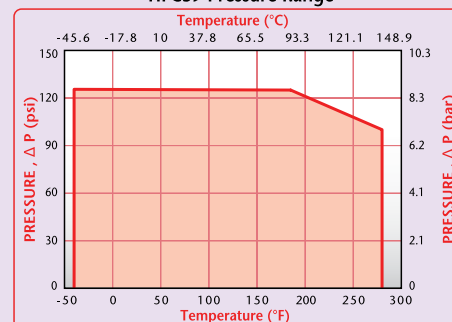
Termination Sizes:

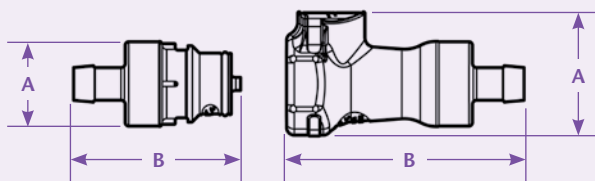
1/4", 3/8" and 1/2" ID hose barb
(6.4mm, 9.5mm and 12.7mm)

HFC39 Water Flow



HFC39 Pressure Range





Product Dimensions

A = Height/Diameter
B = Total Length (including valve)

Coupling Bodies

POLYSULFONE



TERMINATION	TUBING SIZE	METRIC EQ.	FLOW	SHUTOFF	A	B
IN-LINE	1/4" ID	6.4mm ID	1/4"	HFCD17439M	1.44 (36.6)	2.82 (71.6)
HOSE BARB	3/8" ID	9.5mm ID	3/8"	HFCD17639M	1.44 (36.6)	2.82 (71.6)
	1/2" ID	12.5mm ID	1/2"	HFCD17839M	1.44 (36.6)	2.82 (71.6)

Coupling Inserts

POLYSULFONE



TERMINATION	TUBING SIZE	METRIC EQ.	FLOW	STRAIGHT THRU	SHUTOFF	A	B
IN-LINE	1/4" ID	6.4mm ID	1/4"	HFC22439M	HFCD22439M	1.00 (25.4)	2.02 (51.3)
HOSE BARB	3/8" ID	9.5mm ID	3/8"	HFC22639M	HFCD22639M	1.00 (25.4)	2.02 (51.3)
	1/2" ID	12.5mm ID	1/2"	HFC22839M	HFCD22839M	1.00 (25.4)	2.02 (51.3)

Mating Parts

SEALING CAP HFC32039		MATERIAL Polysulfone	A 1.44 (36.6)	B 2.73 (69.3)
SEALING PLUG HFC30039M	O-RING Silicone Seal USP Class VI	MATERIAL Polysulfone	A 1.00 (25.4)	B 1.81 (46.0)



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



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

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

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

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

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

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

All of our bioprocessing connections are manufactured in an ISO Class 7 certified cleanroom and all fluid contact materials meet USP Class VI and ADCF requirements. Contact us for validation reports, biocompatibility and extractables data.



Call toll free 1-800-444-2474 or visit us at www.colder.com

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Steam-Thru® Connections allow a quick and easy sterile connection between stainless steel biopharmaceutical processing equipment and disposable bag and tube assemblies. The single-use design saves time and money by eliminating unnecessary cleaning procedures and reducing validation burden associated with reusable components.

Features

Innovative three-port design

Patented valve design

Thumb latch/Tear-away sleeve

3/4" and 1-1/2" Terminations

BSE/TSE free materials

Benefits

Allows a true steam-through SIP process which eliminates "dead legs" and the need for laminar flow hoods

Allows sterile connection and disconnection and permits high media flow rate

Secures valve position, provides visual indicator of process stage

Easily connects to process equipment

Meet ADCF requirements

Specifications

Pressure:

Steam position:

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

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

Flow position: Vacuum to 20 psi, 1.4 bar

Temperature:

Steam position:

Up to 266°F (130°C) for 60 minutes (Steam-Thru)

Up to 275°F (135°C) for 60 minutes (Steam-Thru II)

Flow position: 39°F to 104°F (4°C to 40°C)

Materials:

Connection: Polysulfone (amber tint), USP Class VI, ADCF

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

Tear-away sleeve: Polyethylene or polycarbonate (Steam-Thru only), USP Class VI, ADCF

Typical Flow Rate:

$C_v = 4.2 - 4.6$ (Steam-Thru)

$C_v = 5.2 - 8.0$ (Steam-Thru II)

Sterilization:

Gamma: Up to 50 kGy irradiation

Autoclave: Up to 265°F (129°C) for 60 minutes, up to two cycles (applies only to part numbers STC1700500-STC1700800 and STC2020000-STC2021000)

SIP process:

Up to 266°F (130°C) for 60 minutes (Steam-Thru)

Up to 275°F (135°C) for 60 minutes (Steam-Thru II)

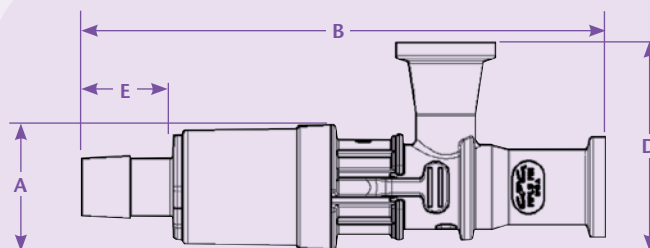
Termination Sizes:

3/8" (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)

Steam-Thru® Configurations

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



C = Actuated Length

POLYSULFONE

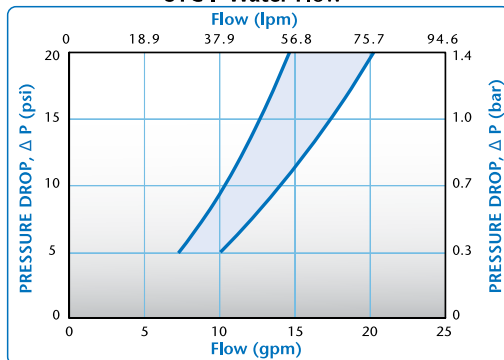
DESCRIPTION	PART NO.	TERMINATIONS	A	B	C	D	E
WITH POLYETHYLENE SLEEVE	STC1700000	3/4" x 3/4" sanitary x 1/2" HB	1.20 (30.5)	5.09 (129.3)	4.44 (112.8)	2.00 (50.8)	0.89 (22.6)
	STC1700100	3/4" x 3/4" sanitary x 3/8" HB	1.20 (30.5)	4.80 (121.9)	4.15 (105.4)	2.00 (50.8)	0.60 (15.2)
	STC1700200	3/4" x 1-1/2" sanitary x 1/2" HB	1.20 (30.5)	5.09 (129.3)	4.44 (112.8)	2.00 (50.8)	0.89 (22.6)
	STC1700300	3/4" x 1-1/2" sanitary x 3/8" HB	1.20 (30.5)	4.80 (121.9)	4.15 (105.4)	2.00 (50.8)	0.60 (15.2)



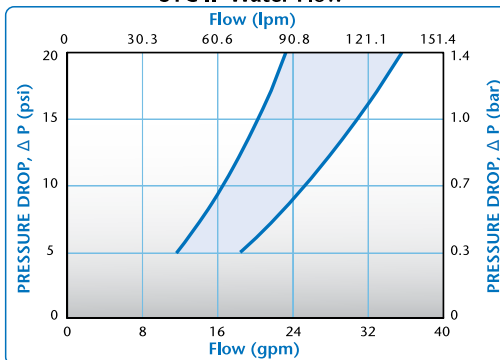
DESCRIPTION	PART NO.	TERMINATIONS	A	B	C	D	E
WITH AUTOCLAVABLE POLYCARBONATE SLEEVE	STC1700500	3/4" x 3/4" sanitary x 1/2" HB	1.20 (30.5)	5.09 (129.3)	4.44 (112.8)	2.00 (50.8)	0.89 (22.6)
	STC1700600	3/4" x 3/4" sanitary x 3/8" HB	1.20 (30.5)	4.80 (121.9)	4.15 (105.4)	2.00 (50.8)	0.60 (15.2)
	STC1700700	3/4" x 1-1/2" sanitary x 1/2" HB	1.20 (30.5)	5.09 (129.3)	4.44 (112.8)	2.00 (50.8)	0.89 (22.6)
	STC1700800	3/4" x 1-1/2" sanitary x 3/8" HB	1.20 (30.5)	4.80 (121.9)	4.15 (105.4)	2.00 (50.8)	0.60 (15.2)



STC I Water Flow



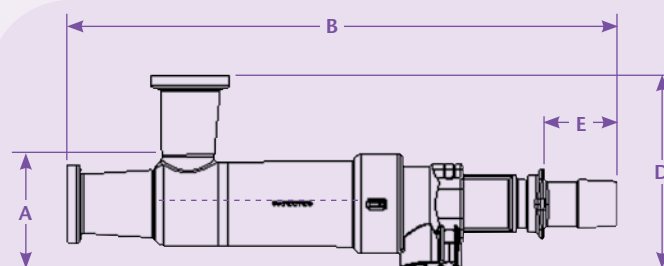
STC II Water Flow



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

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.



C = Actuated Length

POLYSULFONE

TERMINATION	PART NO.	TERMINATIONS	A	B	C	D	E
	STC2020000	3/4" x 3/4" sanitary x 1/2" HB	1.42 (36.1)	6.84 (173.7)	5.93 (150.6)	2.40 (61.0)	.88 (22.4)
	STC2020100	3/4" x 3/4" sanitary x 3/8" HB	1.42 (36.1)	6.76 (171.7)	5.93 (150.6)	2.40 (61.0)	.80 (20.3)
	STC2020200	3/4" x 1-1/2" sanitary x 1/2" HB	1.42 (36.1)	6.84 (173.7)	5.93 (150.6)	2.40 (61.0)	.88 (22.4)
	STC2020300	3/4" x 1-1/2" sanitary x 3/8" HB	1.42 (36.1)	6.76 (171.7)	5.93 (150.6)	2.40 (61.0)	.80 (20.3)
	STC2020900	3/4" x 3/4" sanitary x 3/4" sanitary	1.42 (36.1)	6.60 (167.6)	5.93 (150.6)	2.40 (61.0)	.62 (15.7)
	STC2021000	3/4" x 1-1/2" sanitary x 3/4" sanitary	1.42 (36.1)	6.60 (167.6)	5.93 (150.6)	2.40 (61.0)	.62 (15.7)



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



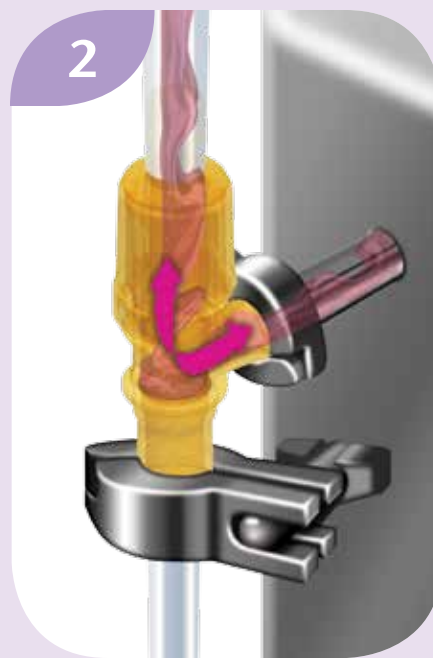
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STEAM-THRU PROCESS



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



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

STEAM-THRU II PROCESS

STEAM ON POSITION



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

TRANSITION TO FLOW



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

FLOW POSITION



Once the valve is locked in the flow position a sterile flow path has been created allowing media transfer.



Steam-Thru Connections Frequently Asked Questions

Q: Why Steam-Thru and Steam-Thru II?

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

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

Q: Can Steam-Thru be mounted at an angle?

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

Q: Is the Steam-Thru only intended for upstream fermentation processes?

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

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

Q: Does the SIP process need to go from the middle sanitary port to the lower as show in the literature?

A: No, the steam can be run from the lower port into the middle port. This approach can be used in conjunction with a small stainless vessel to steam sterilize the inside of the vessel prior to the media addition.

TRANSITION TO STEAM

2a

Thumb latch recessed during valve transition



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

STEAM OFF POSITION

3



Don't forget: you can access many feature articles on Single-Use technology at www.colder.com.

With the valve locked securely in the steam position, complete a second SIP cycle to “steam off” the connection.



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ASEPTIQUICK® STC
CONNECTOR

AseptiQuick® STC Connectors integrate the AseptiQuick® sterile connector and the Steam-Thru® II SIP connector, giving manufacturers even greater flexibility for hybrid stainless steel and single-use processing. The AseptiQuick STC connector features a Steam-Thru II connection that is mounted directly to stainless steel equipment via a sanitary termination.

The union of the two connectors into a single unit with a sanitary clamp allows an AseptiQuick sterile connection to be steamed on to stainless equipment via SIP. The SIP process can be done in advance allowing a quick and easy sterile connection to the AseptiQuick half without having to wait 30-60 minutes for SIP prior to inoculation or harvest.

Features

Combined AseptiQuick and Steam-Thru technologies

AseptiQuick's CLICK-PULL-TWIST design

Steam-Thru's innovative three-port steam design

Robust construction

Patented steam valve design

Sanitary interface between the two connectors

Colder Click

Benefits

Enables SIP of AseptiQuick to stainless equipment

Intuitive three aseptic connection step actuation reduces risk of operator error

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

Repeatable and reliable performance

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

Eliminates need for tubing between connectors

Audible confirmation of assembly steps

Specifications

Pressure:

Steam position: Up to 35 psi, 2.4 bar

Flow position: Up to 20 psi, 1.4 bar

Temperature:

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

Flow position: 39°F to 104°F (4°C to 40°C)

Sterilization:

Gamma: Up to 50kGy irradiation

AutoClave High Temp (HT) version:

Up to 266°F (130°C) for 30 minutes

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

Materials:

Main Components:

AseptiQuick - Polycarbonate (white), USP Class VI, ADCF

Steam-Thru II - Polysulfone (amber tint), USP Class VI, ADCF

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

Pull Tabs:

Polycarbonate (blue, standard version), USP Class VI, ADCF

Polycarbonate (white, HT version), USP Class VI, ADCF

Caps: Polypropylene (clear), USP Class VI, ADCF

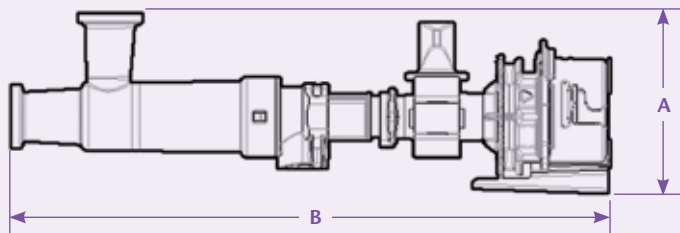
Membrane:

Polyethylene (standard version), USP Class VI, ADCF

Hydrophobic polyethersulfone (HT versions), USP Class VI

Clamp: Nylon 66 (white), USP Class VI

Note: Mates with standard AseptiQuick inserts.



Product Dimensions

- A = Height/Diameter
- B = Total Length (with cap)
- C = Actuated Length

Coupling Bodies

POLYCARBONATE Standard Version with Blue Pull Tabs

TERMINATION

3/4" X 3/4" SANITARY STEAM-THRU II with AseptiQuick Body

3/4" X 1-1/2" SANITARY STEAM-THRU II with AseptiQuick Body (pictured)

PART NO.

AQSTC2330900

A

2.78 (70.6 mm)

B

9.25 (235 mm)

C

8.42 (213.9 mm)

PART NO.

AQSTC2331000

A

2.78 (70.6 mm)

B

9.25 (235 mm)

C

8.42 (213.9 mm)



Coupling Bodies

POLYCARBONATE HT Version with White Pull Tabs

TERMINATION

3/4" X 3/4" SANITARY STEAM-THRU II with AseptiQuick Body (pictured)

3/4" X 1-1/2" SANITARY STEAM-THRU II with AseptiQuick Body

PART NO.

AQSTC2330900HT

A

2.78 (70.6 mm)

B

9.25 (235 mm)

C

8.42 (213.9 mm)

PART NO.

AQSTC2331000HT

A

2.78 (70.6 mm)

B

9.25 (235 mm)

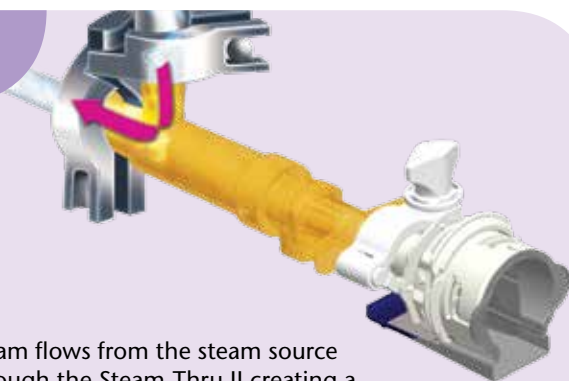
C

8.42 (213.9 mm)



CLICK-PULL-TWIST Assembly Procedure

1



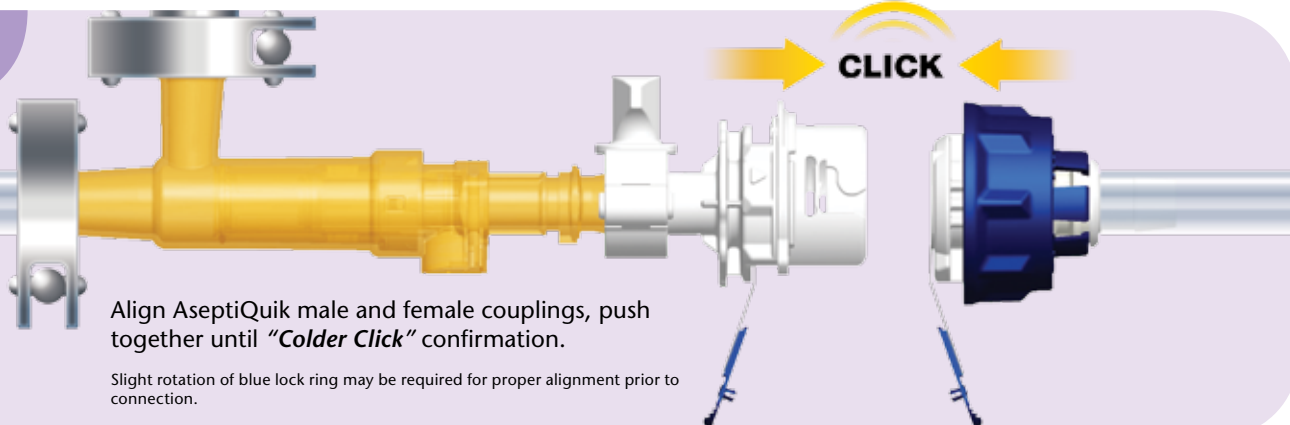
Steam flows from the steam source through the Steam-Thru II creating a "steam-on" sterile connection.

2



Remove the protective dust cap from the AseptiQuick STC and AseptiQuick Insert.

3



Align AseptiQuick male and female couplings, push together until "Colder Click" confirmation.

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



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4



Snap membrane pull tabs together and pull from connector.

5



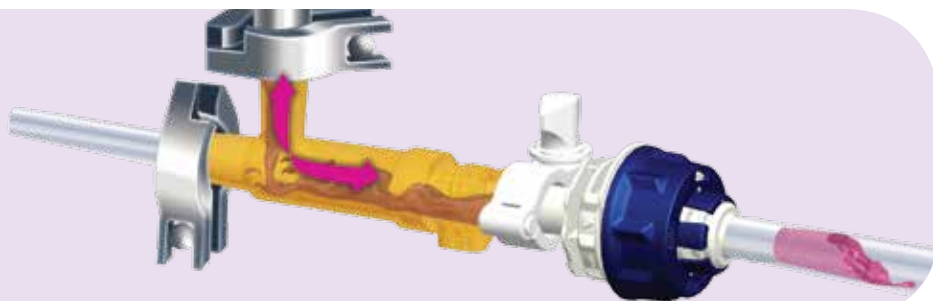
Twist the blue lock ring clockwise until audible "Colder Click." Alignment of the lock ring rib with the body's arrow indicator confirms final connection.

6



Once the AseptiQuik assembly is complete and the steam trap has been closed, simply press the thumb latch to allow the valve to be pushed into the flow position. The "Colder Click" confirms the transition is complete.

7



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

8



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

9



With the valve locked securely into the steam position, complete a second SIP cycle to "steam off" the connection.



MPC SERIES

Specifications

Pressure: Vacuum to 60 psi, 4.1 bar

Temperature:

Polycarbonate:

-40°F to 250°F (-40°C to 121°C)

Polysulfone:

-40°F to 300°F (-40°C to 149°C)

Materials:

Main components:

Polycarbonate (purple tint), USP Class VI, ADCF
Polysulfone (amber tint), USP Class VI, ADCF

Locking sleeves:

Polysulfone (white), USP Class VI, ADCF

Thumb Latches:

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

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

Sterilization:

Gamma: Up to 50 kGy irradiation

Autoclave:

Polycarbonate: Up to 250°F (121°C), 30 minutes, up to 10 repetitions. Sterilize uncoupled only.

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

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

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

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

Features

Ergonomic thumb latch

USP Class VI materials

Sterilizable by autoclave, EtO, e-beam, or gamma

Parting line-free hose barb

BSE/TSE free materials

Benefits

Easy to operate – even with gloved hands

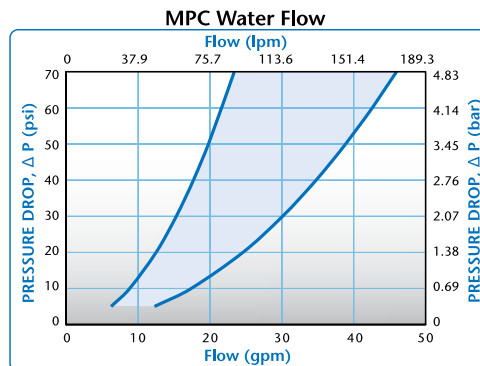
Meet biocompatibility requirements

Reusable, yet economical enough to allow disposability

Eliminates potential leak path

Meet ADCF requirements

Note: MPC Series mates with Back-To-Back Body Adapters and Sanitary Series (pages 24-25) and SaniQuik™ (page 26).



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

Liquid Flow Rates

Liquid Flow Rate Information for Couplings

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

$$Q = C_v \sqrt{\frac{\Delta P}{S}}$$

Q=Flow rate in gallons per minute

C_v=Average constant of various rates (see chart)

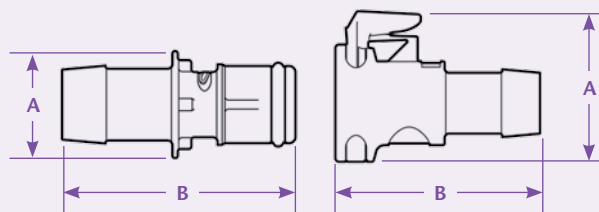
ΔP=Pressure drop across coupling (psi)

S=Specific gravity of liquid

C_v Values for MPC Couplings

BODIES	MPC 22002T03	MPC 22004T03	MPC 22006T03
MPC17002T03	0.11	-	0.21
MPC17004T03	-	2.8	2.8
MPC17006T03	0.14	2.8	5.5

Product Dimensions



A = Height/Diameter
B = Total Length

Coupling Bodies



POLYCARBONATE

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
IN-LINE	1/8" ID	3.2mm ID	.09"	MPC17002T03	.96 (24.4)	1.10 (27.9)
HOSE BARB	1/4" ID	6.4mm ID	.21"	MPC17004T03	.96 (24.4)	1.10 (27.9)
	3/8" ID	9.5mm ID	.29"	MPC17006T03	.96 (24.4)	1.10 (27.9)

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
IN-LINE	1/8" ID	3.2mm ID	.09"	MPCK17002T03	.99 (25.2)	1.10 (27.9)
HOSE BARB	1/4" ID	6.4mm ID	.21"	MPCK17004T03	.99 (25.2)	1.30 (33.0)
WITH LOCK	3/8" ID	9.5mm ID	.29"	MPCK17006T03	.99 (25.2)	1.30 (33.0)



POLYSULFONE

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
IN-LINE	1/8" ID	3.2mm ID	.09"	MPC17002T39	.96 (24.4)	1.10 (27.9)
HOSE BARB	1/4" ID	6.4mm ID	.21"	MPC17004T39	.96 (24.4)	1.10 (27.9)
	3/8" ID	9.5mm ID	.29"	MPC17006T39	.96 (24.4)	1.10 (27.9)

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
IN-LINE	1/8" ID	3.2mm ID	.09"	MPCK17002T39	.99 (25.2)	1.10 (27.9)
HOSE BARB	1/4" ID	6.4mm ID	.21"	MPCK17004T39	.99 (25.2)	1.30 (33.0)
WITH LOCK	3/8" ID	9.5mm ID	.29"	MPCK17006T39	.99 (25.2)	1.30 (33.0)

Accessories



DESCRIPTION	MATERIALS	PART NO.
Leash plug for MPC body	Soft, flexible, medical-grade PVC	MPC30L
Leash cap for MPC insert	Soft, flexible, medical-grade PVC	MPC32L

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

Note: For validation quantities of MPC and MPX, contact Colder for 25 piece bag quantities



DID YOU KNOW ...

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



DID YOU KNOW ...

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

Coupling Inserts

POLYCARBONATE



TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
IN-LINE	1/8" ID	3.2mm ID	.09"	MPC22002T03M	Silicone Seal USP Class VI	.60 (15.2)	1.10 (27.9)
HOSE BARB	1/4" ID	6.4mm ID	.21"	MPC22004T03M	Silicone Seal USP Class VI	.60 (15.2)	1.30 (33.0)
	3/8" ID	9.5mm ID	.29"	MPC22006T03M	Silicone Seal USP Class VI	.60 (15.2)	1.30 (33.0)

POLYSULFONE



TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
IN-LINE	1/8" ID	3.2mm ID	.09"	MPC22002T39M	Silicone Seal USP Class VI	.60 (15.2)	1.10 (27.9)
HOSE BARB	1/4" ID	6.4mm ID	.21"	MPC22004T39M	Silicone Seal USP Class VI	.60 (15.2)	1.30 (33.0)
	3/8" ID	9.5mm ID	.29"	MPC22006T39M	Silicone Seal USP Class VI	.60 (15.2)	1.30 (33.0)

Mating Parts



SEALING CAP	SEALING CAP W/LOCK	MATERIAL	A	B
MPC32003	MPCK32003	Polycarbonate	.96 (24.4)	1.30 (33.0)
		Polycarbonate	.99 (25.2)	1.30 (33.0)
MPC32039	MPCK32039	Polysulfone	.96 (24.4)	1.30 (33.0)
		Polysulfone	.99 (25.2)	1.30 (33.0)

Mating Parts



SEALING PLUG	O-RING	MATERIAL	A	B
MPC30003M	Silicone Seal USP Class VI	Polycarbonate	.75 (19.1)	1.24 (31.5)
SEALING PLUG	O-RING	MATERIAL	A	B
MPC30039M	Silicone Seal USP Class VI	Polysulfone	.75 (19.1)	1.24 (31.5)

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



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Patent pending

Actual size

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

Features

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

Benefits

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

MPX SERIES

Specifications

Pressure: Vacuum to 60 psi, 4.1 bar

Temperature:

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

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

Materials:

Main components:

Polycarbonate (purple tint), USP Class VI, ADCF
Polysulfone (amber tint), USP Class VI, ADCF

Locking sleeves:

Polysulfone (white), USP Class VI, ADCF

Thumb Latches:

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

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

Sterilization:

Gamma: Up to 50 kGy irradiation

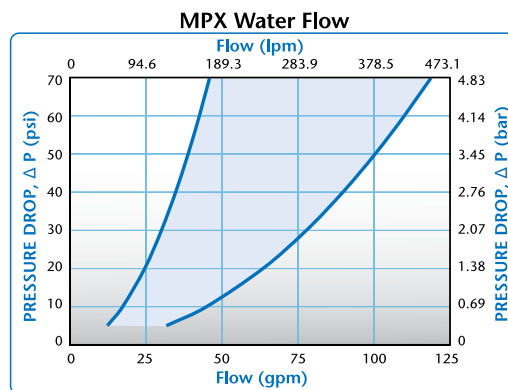
Autoclave:

Polycarbonate: Up to 250°F (121°C), 30 minutes, up to 10 repetitions. Sterilize uncoupled only.

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

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

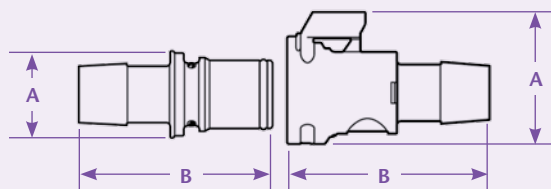
WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of Colder's products in their own application conditions.



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

Note: MPX Series mates with Back-To-Back Body Adapters and Sanitary Series (pages 24-25) and SaniQuik™ (page 26).

Product Dimensions



A = Height/Diameter
B = Total Length

Coupling Bodies

POLYCARBONATE

TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/2" ID	METRIC EQ. 12.7mm ID	FLOW .50"	STRAIGHT THRU MPX17803	A 1.28 (32.5)	B 1.96 (49.8)
TERMINATION IN-LINE HOSE BARB WITH LOCK	TUBING SIZE 1/2" ID	METRIC EQ. 12.7mm ID	FLOW .50"	STRAIGHT THRU MPXK17803	A 1.28 (32.5)	B 1.96 (49.8)



POLYSULFONE

TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/2" ID	METRIC EQ. 12.7mm ID	FLOW .50"	STRAIGHT THRU MPX17839	A 1.28 (32.5)	B 1.96 (49.8)
TERMINATION IN-LINE HOSE BARB WITH LOCK	TUBING SIZE 1/2" ID	METRIC EQ. 12.7mm ID	FLOW .50"	STRAIGHT THRU MPXK17839	A 1.28 (32.5)	B 1.96 (49.8)



Coupling Inserts

POLYCARBONATE

TERMINATION IN-LINE HOSE BARB	TUBING SIZE 3/8" ID	METRIC EQ. 9.5mm ID	FLOW .38"	STRAIGHT THRU MPX22603M	O-RING Silicone Seal USP Class VI	A .85 (21.6)	B 1.90 (48.3)
	1/2" ID	12.7mm ID	.50"	MPX22803M	Silicone Seal USP Class VI	.85 (21.6)	1.90 (48.3)



POLYSULFONE

TERMINATION IN-LINE HOSE BARB	TUBING SIZE 3/8" ID	METRIC EQ. 9.5mm ID	FLOW .38"	STRAIGHT THRU MPX22639M	O-RING Silicone Seal USP Class VI	A .85 (21.6)	B 1.90 (48.3)
	1/2" ID	12.7mm ID	.50"	MPX22839M	Silicone Seal USP Class VI	.85 (21.6)	1.90 (48.3)



Mating Parts

SEALING CAP MPX32003	SEALING CAP W/LOCK MPXK32003	A 1.28 (32.5)	B 1.67 (42.4)
SEALING CAP MPX32039	SEALING CAP W/LOCK MPXK32039	A 1.28 (32.5)	B 1.67 (42.4)



Mating Parts

SEALING PLUG MPX30003M	O-RING Silicone Seal USP Class VI	A 1.10 (27.9)	B 1.66 (42.2)
SEALING PLUG MPX30039M	O-RING Silicone Seal USP Class VI	A 1.10 (27.9)	B 1.66 (42.2)



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



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BACK-TO-BACK

Specifications

Pressure: Vacuum to 60 psi, 4.1 bar

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

Materials:

Main Components:

Polycarbonate (purple tint), USP Class VI, ADCF
Polysulfone (amber tint), USP Class VI, ADCF

Thumb Latches:

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

Sterilization:

Gamma: Up to 50 kGy irradiation

Autoclave:

Polycarbonate: Up to 250°F (121°C) for 30 minutes, up to 10 repetitions. Sterilize uncoupled only.

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

MPC/MPX Back-to-Back Body Adapters

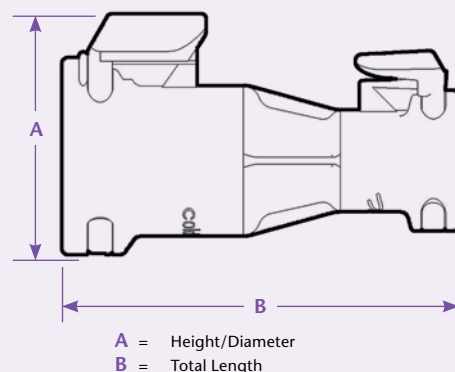
give end users the flexibility of connecting off-the-shelf single-use systems that feature identical inserts. Combining both MPC and MPX bodies provides a reducing option for users who need to transition between tubing with diameters ranging from 1/8" to 1/2".

Features

Compatible with MPC and MPX Series inserts
Tubing reduction option
Ergonomic thumb latches
BSE/TSE free materials

Benefits

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



Note: Mates with MPC polycarbonate and polysulfone inserts and sealing plugs (pages 19-21) and MPX polycarbonate and polysulfone insert and sealing plugs (pages 22-23).

Back-To-Back Body Adapters

POLYCARBONATE



PART NUMBER
MPC17C1703
MPX17X1703
MPC17X1703

TYPE
MPC to MPC
MPX to MPX
MPC to MPX

A
.96 (24.5)
1.28 (32.5)
1.28 (32.5)

B
1.81 (46.0)
2.44 (62.0)
2.13 (54.1)

Back-To-Back Body Adapters

POLYSULFONE



PART NUMBER
MPC17C1739
MPX17X1739
MPC17X1739

TYPE
MPC to MPC
MPX to MPX
MPC to MPX

A
.96 (24.5)
1.28 (32.5)
1.28 (32.5)

B
1.81 (46.0)
2.44 (62.0)
2.13 (54.1)

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

SANITARY
SERIES

Sanitary couplings attach directly to 3/4", 1" and 1-1/2" sanitary terminations to provide greater flexibility for integrating components into single-use or hybrid (single-use to stainless) process systems. Standard bag systems with quick couplings can be easily connected to equipment with sanitary terminations, while single-use cartridge filters can be converted to incorporate quick couplings for greater system modularity.

Features

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

Benefits

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

Specifications

Pressure: Vacuum to 60 psi, 4.1 bar

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

Materials:

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

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

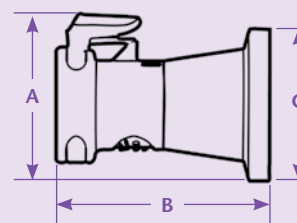
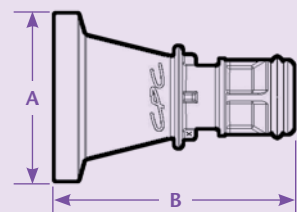
Sterilization:

Gamma: Up to 50 kGy irradiation

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

Termination Sizes:

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



A = Height/Diameter
B = Total Length
C = Outside Diameter

Note: Mates with MPC polycarbonate and polysulfone inserts and sealing plugs (pages 19-21) and MPX polycarbonate and polysulfone insert and sealing plugs (pages 22-23).

Coupling Bodies**POLYSULFONE**

PART NO.	SIZE	A	B	C
MPC3301239	3/4"	.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	O-RING	A	B
MPC44012T39M	3/4"	Silicone Seal USP Class VI	.98 (24.9)	1.40 (35.6)
MPC44024T39M	1-1/2"	Silicone Seal USP Class VI	1.98 (50.3)	1.40 (35.6)
MPX44012T39M	3/4"	Silicone Seal USP Class VI	.98 (24.9)	1.71 (43.4)
MPX44024T39M	1-1/2"	Silicone Seal USP Class VI	1.98 (50.3)	1.71 (43.4)

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. **NOTE:** Sanitary couplings are compatible with both stainless steel and plastic clamps. Clamps and gaskets are referenced for illustration and are not available through Colder.



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Note: Mates with MPC polycarbonate and polysulfone inserts and sealing plugs (pages 19-21), and MPX polycarbonate and polysulfone inserts and sealing caps (pages 22-23) and Back-to-Back Body Adapters (page 24).

SANIQUICK SERIES



Colder's SaniQuik™ connection answers the question of how to integrate single-use components with your existing stainless processing equipment. This integral sanitary termination attaches to hard-plumbed systems with tri-clover clamps. Once attached it permits quick and easy connection to single-use bag systems, manifolds or tube sets with Colder disposable coupling bodies. SaniQuik connections reduce sanitary gasket replacement, enabling cost-effective media transfer solutions for feeding, harvesting or sampling applications.

Features

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

Benefits

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

Specifications

Pressure: Vacuum to 60 psi, 4.1 bar

Temperature:

-40° F to 300° F (-40° C to 149° C)

Materials:

Main component: 316L stainless steel

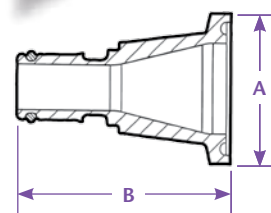
O-rings: Silicone (clear), platinum-cured, USP Class VI, ADCF

Sterilization: Autoclave

Termination Sizes:

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

Note: Mates with MPC polycarbonate and polysulfone inserts and sealing plugs (pages 19-21), and MPX polycarbonate and polysulfone inserts and sealing caps (pages 22-23) and Back-to-Back Body Adapters (page 24).



A = Height/Diameter
B = Total Length

Connections

316L STAINLESS



DESCRIPTION
SILICONE SEAL
USP CLASS VI

PART NO.

SQCC221212M
SQCC222424M
SQCX221212M
SQCX222416M
SQCX222424M

MATING COUPLING

MPC Series
MPC Series
MPX Series
MPX Series
MPX Series

SANITARY SIZE

3/4"
1-1/2"
3/4"
1-1/2"
1-1/2"

SANITARY BORE

3/4"
1-1/2"
3/4"
1"
1-1/2"

A .98" (24.9)
1.98" (50.3)
.98" (24.9)
1.98" (50.3)
1.98" (50.3)

B 1.39" (35.3)
1.50" (38.1)
1.43" (39.1)
1.50" (38.1)
1.50" (38.1)

Accessories

SILICONE (CLEAR)



DESCRIPTION
PLATINUM-CURED
USP CLASS VI
REPLACEMENT
SEALS

PART NO.

2260100
2260200

MATING SANIQUICK

SQCC221212M, SQCC222424M
SQCX221212M, SQCX222416M, SQCX222424M

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

MPU SERIES

Specifications

Pressure: Vacuum to 35 psi, 2.4 bar

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

Materials:**Main components:**

Polysulfone (amber tint), USP Class VI, ADCF

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

Sterilization:

Gamma: Up to 50 kGy irradiation

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

Tubing Sizes: 3/4" ID (19.1mm)

The MPU's twist-to-connect

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

Features

3/4" hose barb

Locking feature

Sharp barb end

Shrouded, leak-free seal & smooth, internal flow path

BSE/TSE free materials

Benefits

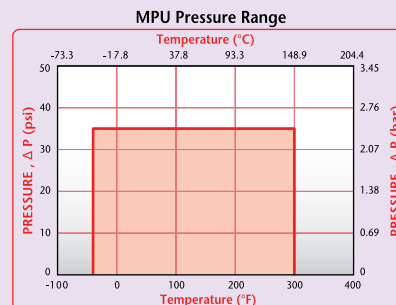
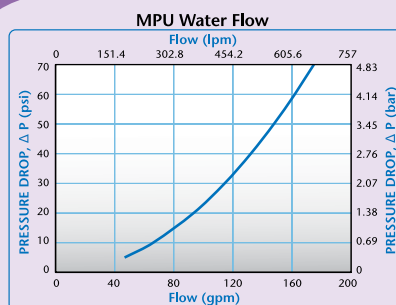
Facilitates rapid fill and empty of bioprocessing bags

Guards against accidental disconnects

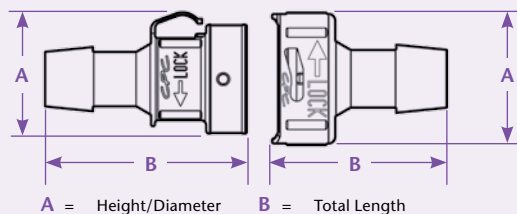
Minimizes fluid turbulence and dead space

Protect valuable fluids and eliminate potential to contaminate fluid path

Meet ADCF requirements



Product Dimensions



Coupling Bodies



POLYSULFONE

TERMINATION
IN-LINE
HOSE BARB

TUBING
3/4" ID

METRIC EQ.
19.1mm ID

FLOW
.71"

STRAIGHT THRU
MPU171239

A

1.75 (44.5)

B

2.37 (60.2)



Coupling Inserts

TERMINATION
IN-LINE
HOSE BARB

TUBING
3/4" ID

METRIC EQ.
19.1mm ID

FLOW
.71"

STRAIGHT THRU
MPU221239M

O-RING
Silicone Seal

USP Class VI

A

1.56 (39.6)

B

2.88 (73.2)

Mating Parts



SEALING CAP
MPU32039

MATERIAL
Polysulfone

A

1.75 (44.5)

B

.79 (20.1)

SEALING PLUG
MPU30039M

O-RING
Silicone Seal
USP Class VI

MATERIAL
Polysulfone

A

1.56 (39.6)

B

1.38 (35.1)

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



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COLDER PRODUCTS COMPANY



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

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

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

Founded in St. Paul, Minn. in 1978, Colder offers more than 10,000 standard and custom products with offices in nine countries and distributor representation in North America, Europe, Asia, South America and Australia. Colder is a Dover company.



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