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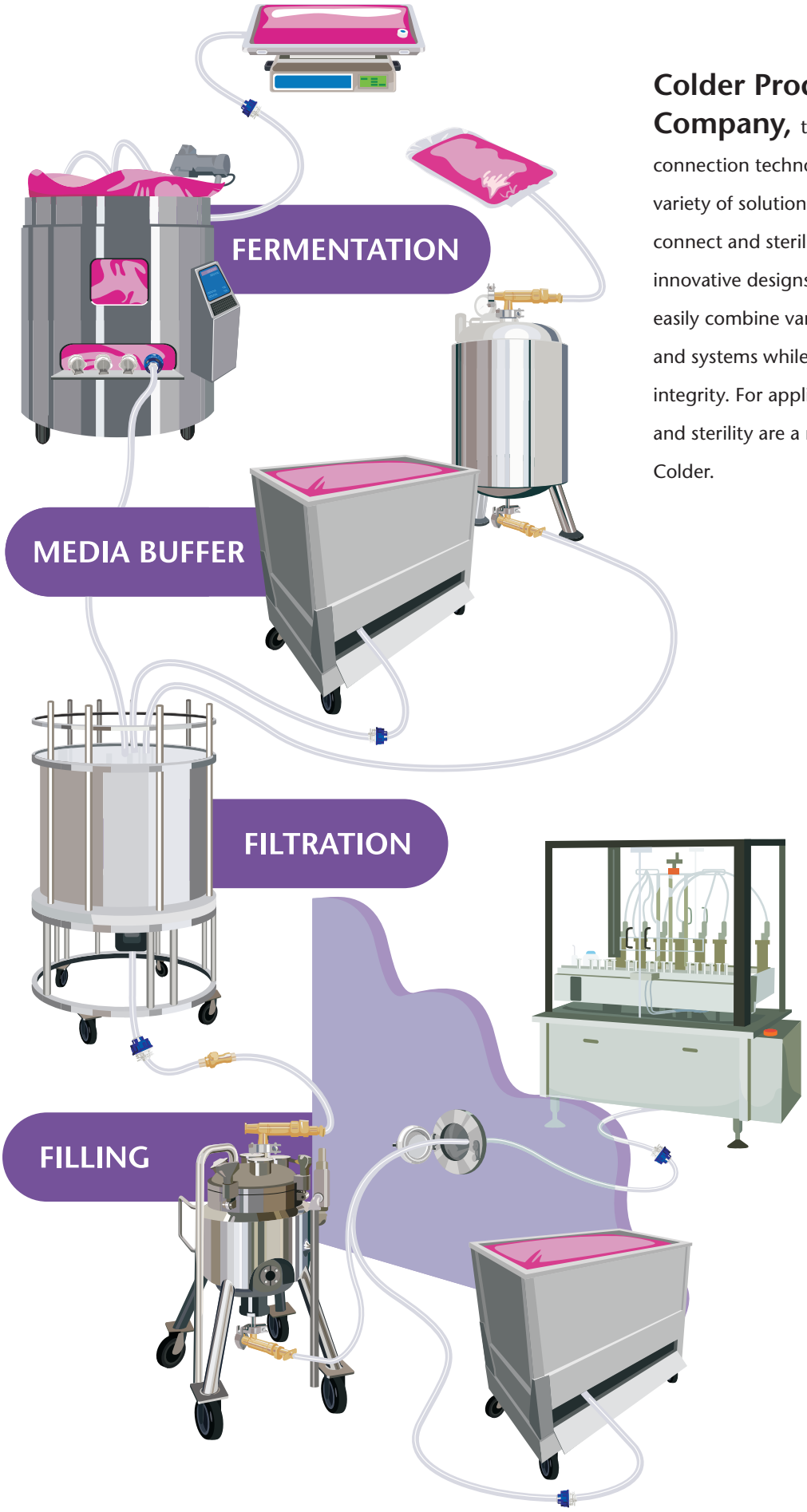
Colder Products Company
Quick Couplings & Fittings for Plastic Tubing

RELIABLE FLEXIBLE COMPATIBLE STERILE

CONNECTION SOLUTIONS *for* BIOPHARMACEUTICAL PROCESSES

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



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.

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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.

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:
1/2" ID hose barb (12.7mm), 3/8" hose barb (9.5mm) 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

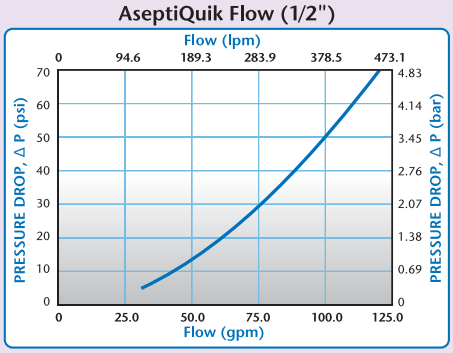
Caps:
Polypropylene (clear), USP Class VI, ADCF

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

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

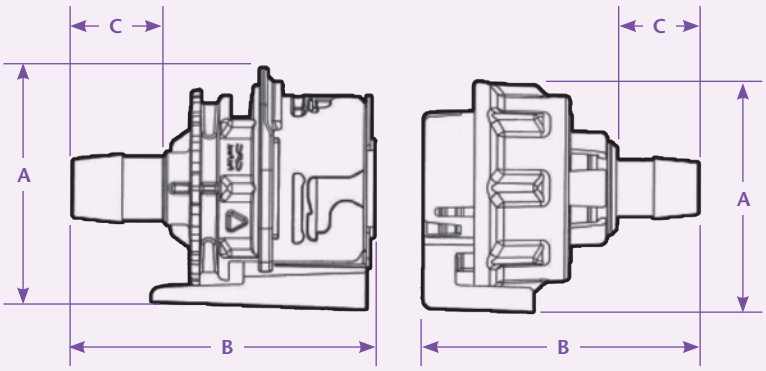
Features	Benefits
CLICK-PULL-TWIST Design	Intuitive three-step connection process reduces risk of operator error
Membrane pull tabs	Ensure simultaneous and secure removal of both membranes
Robust Construction	Repeatable and reliable performance with no additional hardware required
Integrated Lock Ring	Secures final connection preventing disassembly
Colder Click	Audible confirmation of completed assembly steps
Market Availability	Open access through multiple supply chain partners

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 651-645-0091 for more information.



Product Dimensions

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

Coupling Bodies

POLYCARBONATE with Blue Pull Tabs

TERMINATION	PART NO.	FLOW	A	B	C
1/2" HOSE BARB	AQC17008	.50	2.36 (59.9)	2.95 (74.9)	0.89 (22.6)
3/8" HOSE BARB	AQC17006	.34	2.36 (59.9)	2.74 (69.6)	0.65 (16.5)
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
1/2" HOSE BARB	AQC17008HT	.50	2.36 (59.9)	2.95 (74.9)	0.89 (22.6)
3/8" HOSE BARB	AQC17006HT	.34	2.36 (59.9)	2.74 (69.6)	0.65 (16.5)
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
1/2" HOSE BARB	AQC22008	.50	2.50 (63.5)	2.99 (75.9)	0.89 (22.6)
3/8" HOSE BARB	AQC22006	.34	2.50 (63.5)	2.90 (73.7)	0.65 (16.5)
3/4" SANITARY	AQC44012	.50	2.50 (63.5)	2.80 (71.1)	0.70 (17.8)

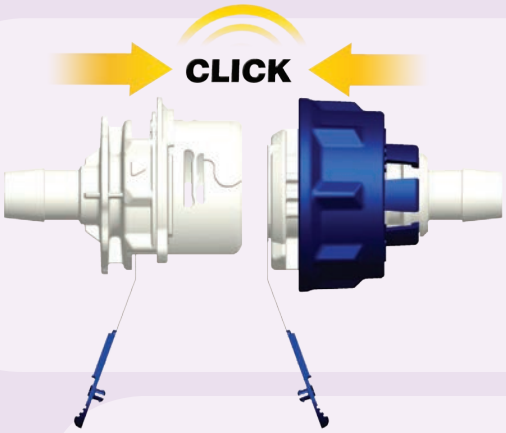
Coupling Inserts - High Temperature

POLYCARBONATE with White Pull Tabs

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

Pre-Assembly Cap Removal

CLICK–PULL–TWIST Assembly Procedure



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.

Snap membrane pull tabs together and pull from connector.

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 CONNECTOR

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

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

Specifications

Pressure: Up to 60 psi, 4.1 bar

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

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

Termination Sizes:
1/4", 3/8" and 1/2" (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

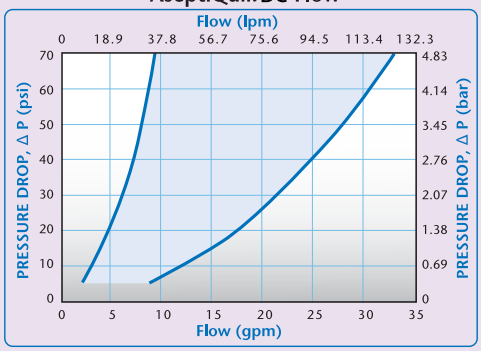
Membrane:
Polyethylene (standard version), USP Class VI, ADCF
Hydrophobic polyethersulfone (HT version), USP Class VI

Springs:
316 stainless steel

Mates with standard AseptiQuik halves.
- AQCDC Inserts mate with standard AQC Bodies
- AQCDC Bodies mate with standard AQC Inserts

Features	Benefits
CLICK-PULL-TWIST Design	Intuitive three-step connection process reduces risk of operator error
Simple One-Step Disconnection	Maintains media sterility in each half by preventing external organisms from entering the flow path
Membrane Pull Tabs	Ensure simultaneous and secure removal of both membranes
Robust Construction	Repeatable and reliable performance with no additional hardware required
Colder Click	Audible confirmation of completed assembly steps
Market Availability	Open access through multiple supply chain partners

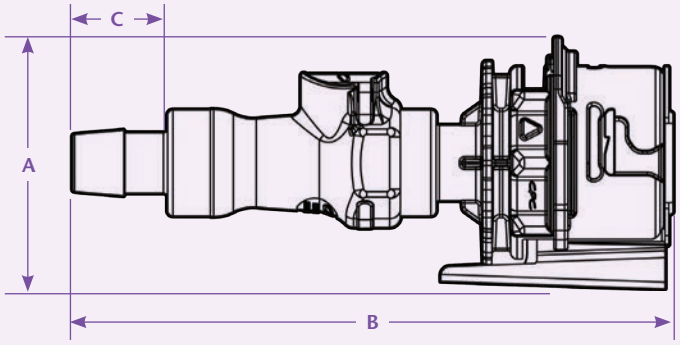
AseptiQuik DC Flow



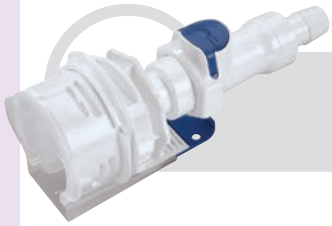
This graph is intended to give you a general idea of the performance of the product.

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

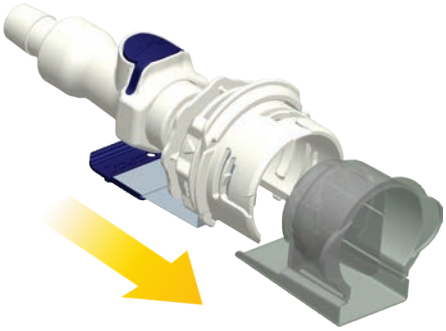
TERMINATION	PART NO.	FLOW	A	B	C
1/4" HOSE BARB	AQCDC22004	1/4"	2.50 (63.5)	5.41 (137.4)	0.60 (15.2)
3/8" HOSE BARB	AQCDC22006	3/8"	2.50 (63.5)	5.41 (137.4)	0.60 (15.2)
1/2" HOSE BARB	AQCDC22008	3/8"	2.50 (63.5)	5.70 (144.8)	0.89 (22.6)

Coupling Inserts - High Temperature

POLYCARBONATE with White Pull Tabs

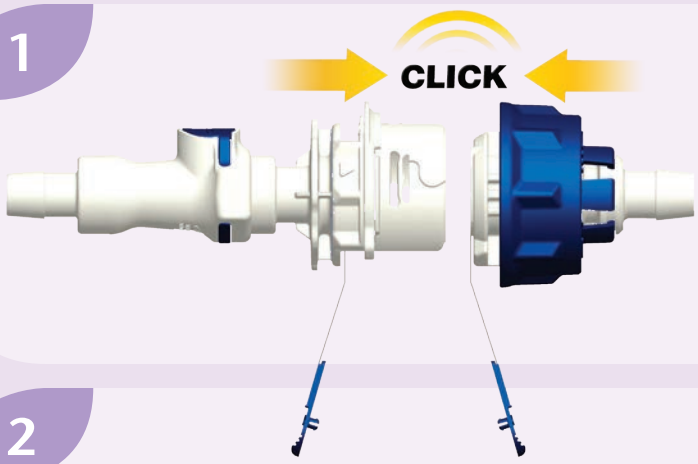
TERMINATION	PART NO.	FLOW	A	B	C
1/4" HOSE BARB	AQCDC22004HT	1/4"	2.50 (63.5)	5.41 (137.4)	0.60 (15.2)
3/8" HOSE BARB	AQCDC22006HT	3/8"	2.50 (63.5)	5.41 (137.4)	0.60 (15.2)
1/2" HOSE BARB	AQCDC22008HT	3/8"	2.50 (63.5)	5.70 (144.8)	0.89 (22.6)

Pre-Assembly Cap Removal



CLICK–PULL–TWIST Assembly Procedure

1



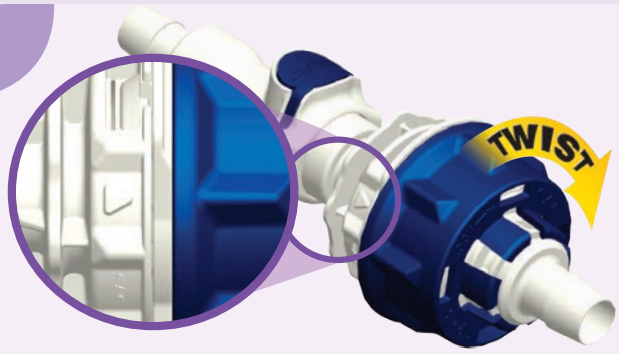
Align male and female couplings, push together until audible *"**Colder Click**"* confirmation.

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

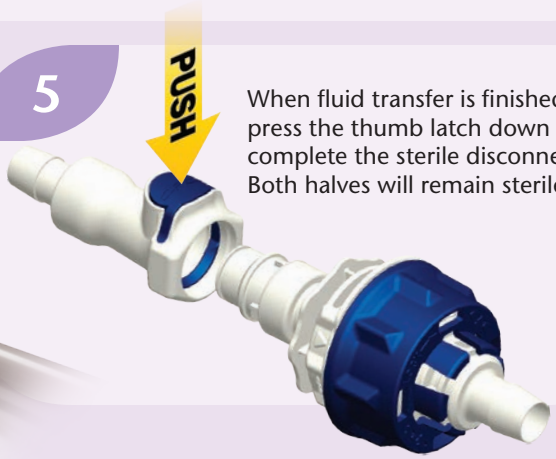


Twist the blue lock ring clockwise until audible *"**Colder Click.**"* Alignment of the lock ring rib with the body's arrow indicator confirms final connection.

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.

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 gamma 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.

Tubing Sizes:
1/4", 3/8" and 1/2" ID
6.4mm, 9.5mm and 12.7mm ID

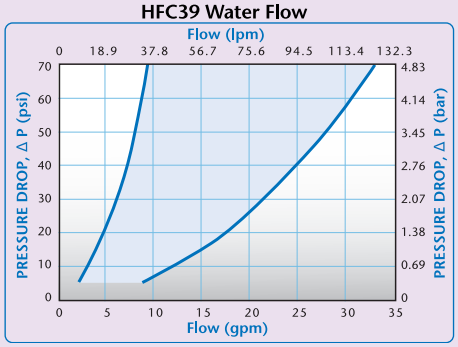
For validation reports, visit www.colder.com/bio and for extractables data, contact info@colder.com

HFC39 Series sterile disconnect couplings

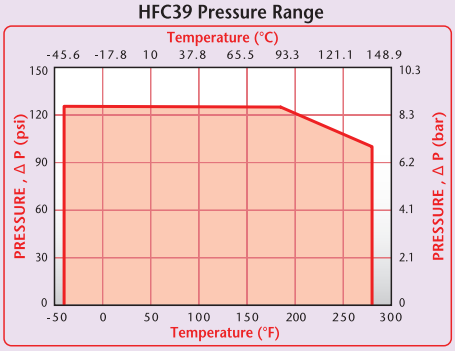
prevent external organisms from entering into the media flow path upon disconnection. Automatic shutoff valves close off the flow path aseptically protecting valuable media while also eliminating the need for pinch clamps and tube welders. The easy-to-use thumb latch design provides a secure, leak-free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

Features	Benefits
Simple One-Step Disconnection	Maintains media sterility in each half by preventing external organisms from entering the flow path
Automatic shutoff valves	Stop flow and eliminate need for pinch clamps
Audible "click"	Provides confidence of a secure connection
Lightweight	Easy integration with single-use assemblies
BSE/TSE free materials	Meet ADCF requirements

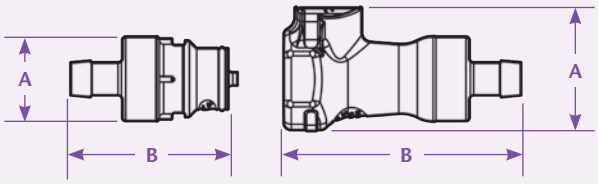
HFC39 Water Flow



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	3/8"	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	3/8"	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.

STEAM-THRU® CONNECTIONS

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, 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 gamma 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)

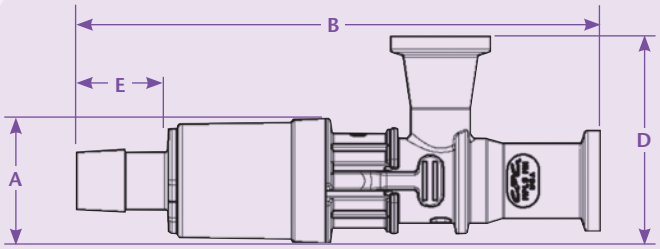
Termination Sizes:
3/8" to 1/2" ID, 9.5mm to 12.7mm ID hose barb (Steam-Thru)
3/8" to 1/2" ID, 9.5mm to 12.7mm ID hose barb and 3/4" sanitary (Steam-Thru II)

Steam-Thru® Connections allow a quick and easy sterile connection between 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	Benefits
Innovative three-port design	Allows a true steam-through SIP process which eliminates "dead legs" and the need for laminar flow hoods
Patented valve design	Allows sterile connection and disconnection and permits high media flow rate
Thumb latch/ Tear-away sleeve	Secures valve position, provides visual indicator of process stage
Industry standard terminations	Speed connect to the process equipment and connect to popular sizes of flexible tubing
BSE/TSE free materials	Meet ADCF requirements

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.



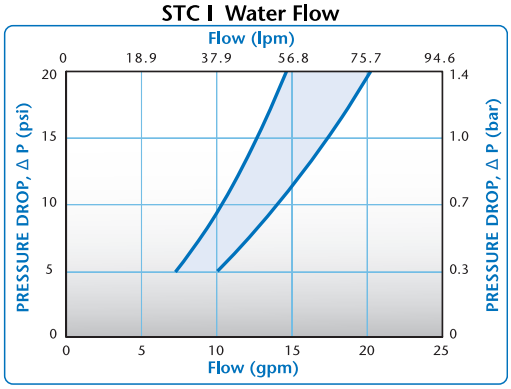
C = Actuated Length

POLYSULFONE

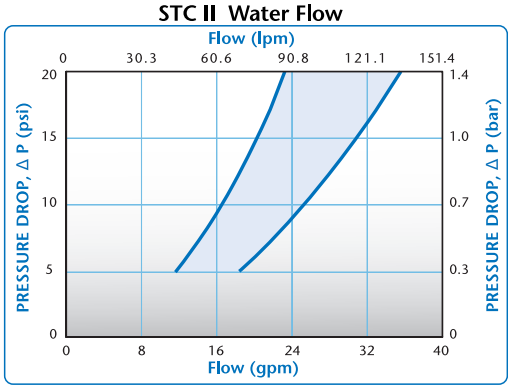
DESCRIPTION	PART NO.	TERMINATIONS	A	B	C	D	E
WITH POLYETHYLENE SLEEVE	STC1700000	3/4" x 3/4" sanitary x 1/2" HB	1.20 (30.5)	5.09 (129.3)	4.44 (112.8)	2.00 (50.8)	0.89 (22.6)
	STC1700100	3/4" x 3/4" sanitary x 3/8" HB	1.20 (30.5)	4.80 (121.9)	4.15 (105.4)	2.00 (50.8)	0.60 (15.2)
	STC1700200	3/4" x 1-1/2"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



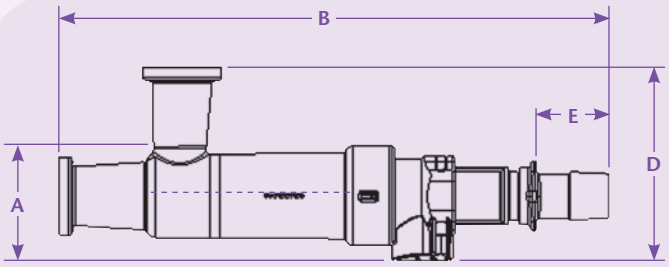
STC II Water Flow



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.



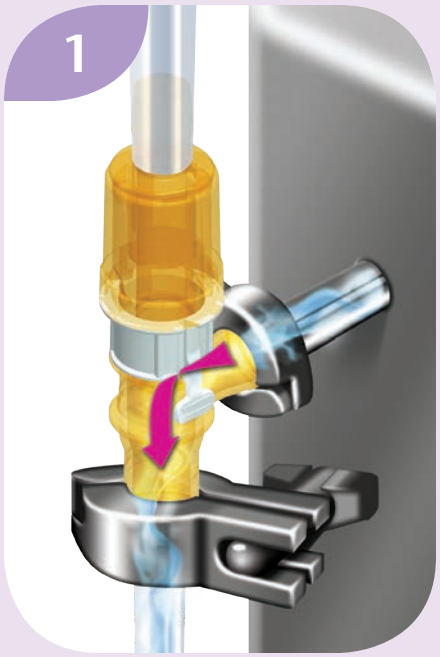
C = Actuated Length

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.

STEAM-THRU PROCESS



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

When the tear-away sleeve is removed, 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

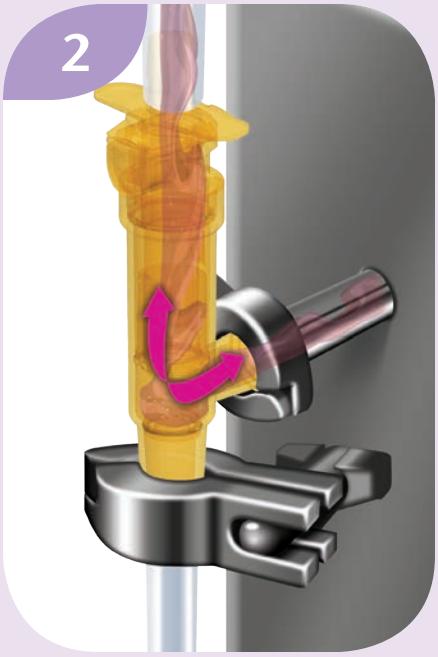
STEAM ON POSITION

Steam flows from the process equipment 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 to not only perform SIP on the connection, but also on a small vessel at the same time before doing a media addition through the Steam-Thru.

TRANSITION TO STEAM

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

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

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

ASEPTIQUIK® STC CONNECTOR

Actual size

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

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. The SIP process can be done in advance allowing a quick and easy sterile connection to the AseptiQuik half without having to wait 30-60 minutes for SIP prior to inoculation or harvest.

Specifications

Pressure:
Steam position: Up to 35 psi, 2.4 bar
Flow position: Up to 20 psi, 1.4 bar

Temperature:
Steam position: Up to 275°F (135°C) for 60 minutes
Flow position: 39°F to 104°F (4°C to 40°C)

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

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

Materials:
Main Components:
AseptiQuik - Polycarbonate (white), USP Class VI, ADCF
Steam-Thru II - Polysulfone (amber tint), USP Class VI, ADCF

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

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

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

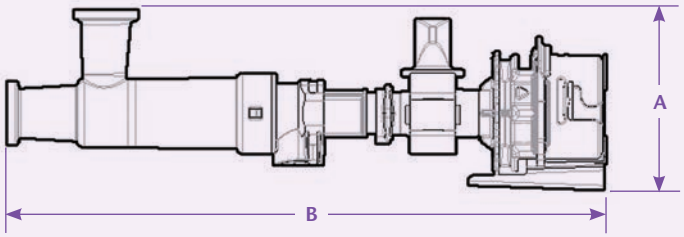
Membrane:
Polyethylene (standard version), USP Class VI, ADCF
Hydrophobic polyethersulfone (HT versions), USP Class VI

Clamp: Nylon 66 (white), USP Class VI

Features	Benefits
CLICK-PULL-TWIST Design	Intuitive three aseptic connection step actuation reduces risk of operator error
Innovative Three-Port Steam Design	Allows a true steam-through SIP process which eliminates “dead legs”
Robust Construction	Repeatable and reliable performance with no additional hardware required
Patented 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
Colder Click	Audible confirmation of assembly steps
Market Availability	Open access through multiple supply chain partners

Note: Mates with standard AseptiQuik inserts.

Product Dimensions



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

Coupling Bodies
POLYCARBONATE *Standard Version with Blue Pull Tabs*

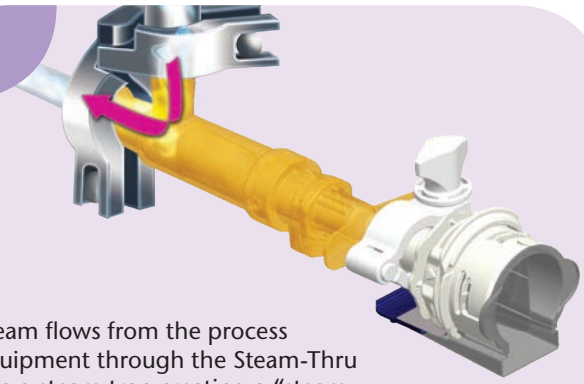
TERMINATION	PART NO.	A	B	C
3/4" X 3/4" SANITARY STEAM-THRU II with AseptiQuik Body	AQSTC2330900	2.78 (70.6 mm)	9.25 (235 mm)	8.42 (213.9 mm)
3/4" X 1-1/2" SANITARY STEAM-THRU II with AseptiQuik Body (pictured)	AQSTC2331000	2.78 (70.6 mm)	9.25 (235 mm)	8.42 (213.9 mm)

Coupling Bodies
POLYCARBONATE *HT Version with White Pull Tabs*

TERMINATION	PART NO.	A	B	C
3/4" X 3/4" SANITARY STEAM-THRU II with AseptiQuik Body (pictured)	AQSTC2330900HT	2.78 (70.6 mm)	9.25 (235 mm)	8.42 (213.9 mm)
3/4" X 1-1/2" SANITARY STEAM-THRU II with AseptiQuik Body	AQSTC2331000HT	2.78 (70.6 mm)	9.25 (235 mm)	8.42 (213.9 mm)

CLICK–PULL–TWIST Assembly Procedure

1

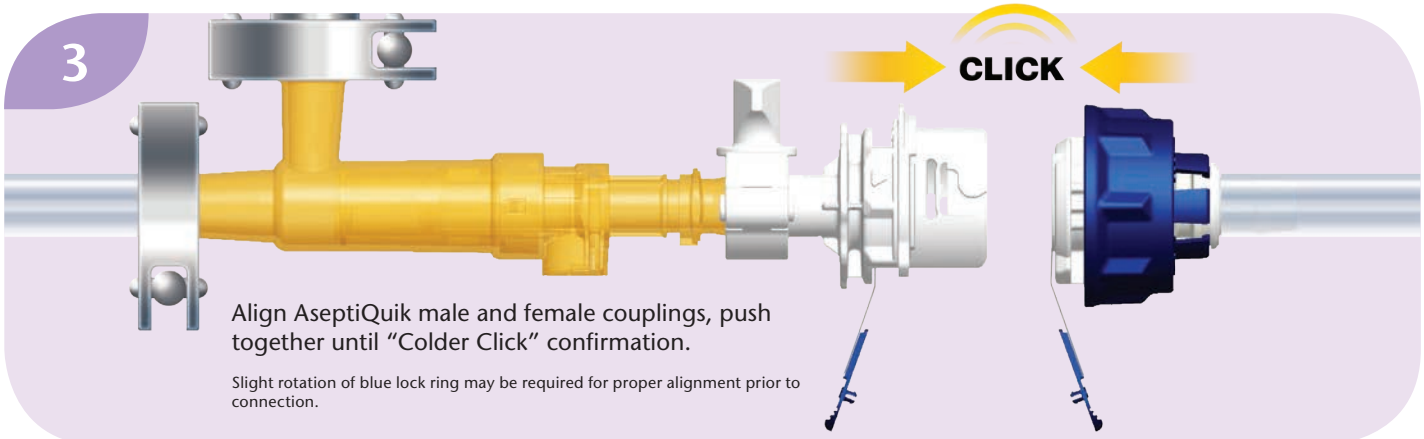


Steam flows from the process equipment through the Steam-Thru II in a steam trap creating a "steam on" sterile connection.

2

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

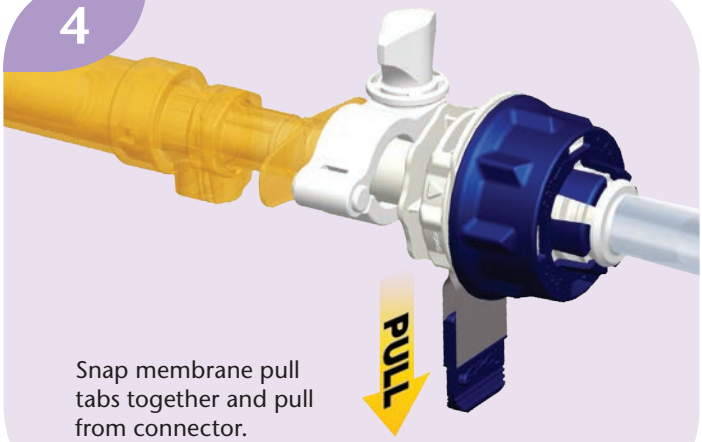
3



Align AseptiQuik 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.

4

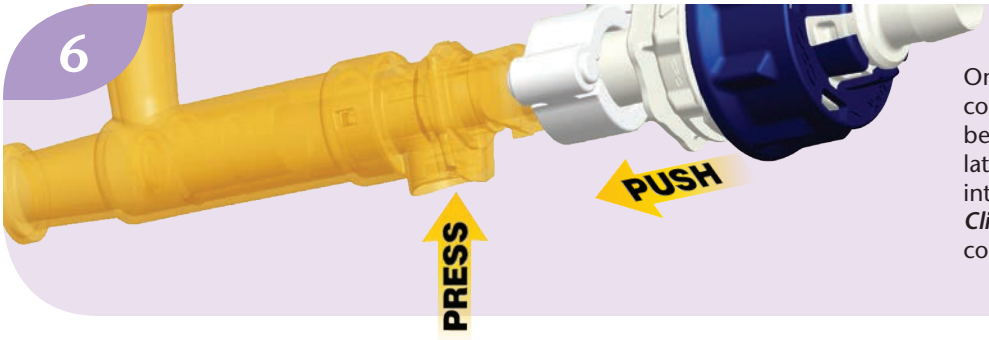


Snap membrane pull tabs together and pull from connector.

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.

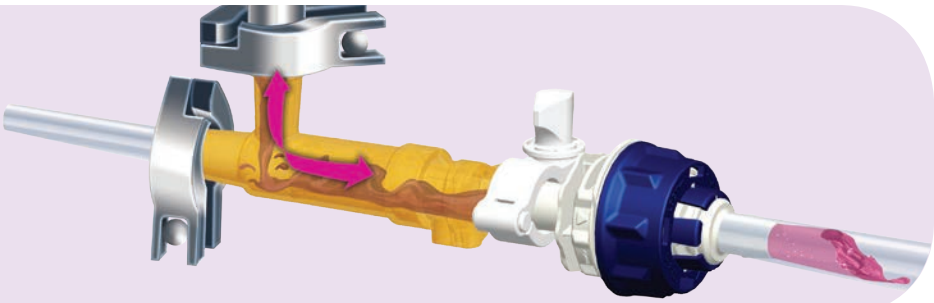
6



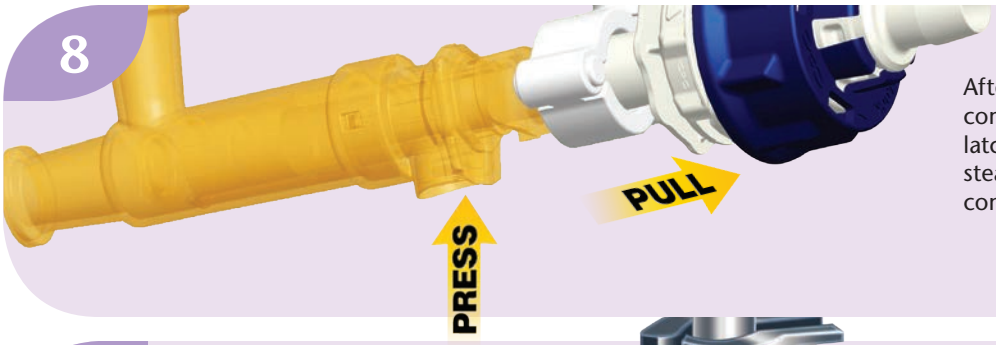
Once the AseptiQuik assembly is complete and the steam trap has been closed, simply press the thumb latch to allow the valve to be pushed into the flow position. The *"Colder Click"* confirms the transition is complete.

7

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



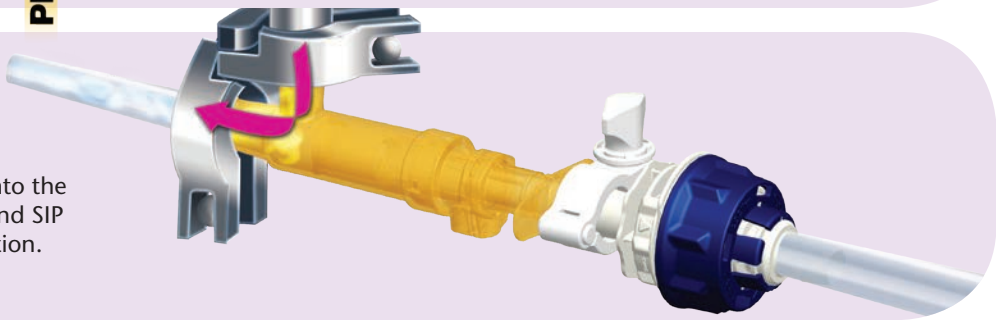
8



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.



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

MPC SERIES

MPC Series couplings add ease of use and security to your most critical fluid handling applications. Choose from a full line of connectors and configurations, including pressure sealing caps and plugs, in sizes to fit 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	Benefits
Ergonomic thumb latch	Easy to operate – even with gloved hands
USP Class VI materials	Meet biocompatibility requirements
Sterilizable by autoclave, Et0, e-beam, or gamma	Reusable, yet economical enough to allow disposability
Parting line-free hose barb	Eliminates potential leak path

Note: MPC Series mates with Back-To-Back Body Adapters and Sanitary Series (pages 24-25) and SaniQuik™ (page 27).

Specifications

Pressure:
Vacuum to 60 psi, 4.1 bar

Temperature:
ABS: -40°F to 160°F (-40°C to 71°C)
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:
ABS (white), USP Class VI, ADCF
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 and Buna-N (black), USP Class V

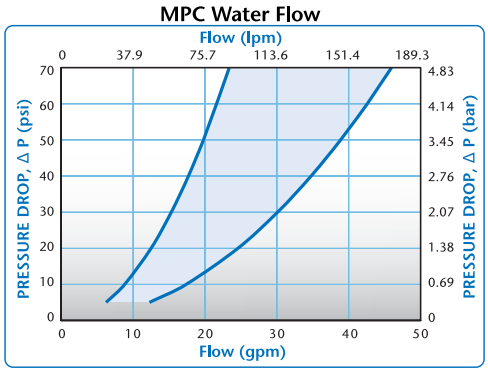
Sterilization:
Gamma: Up to 50 kGy irradiation

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 ID

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.

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.

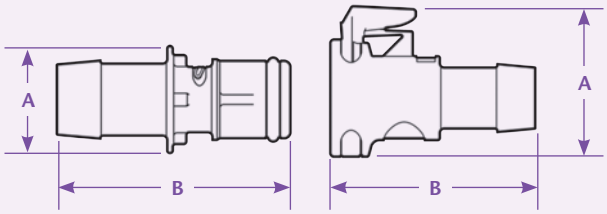
$$Q = C_V \sqrt{\frac{\Delta P}{S}}$$

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

ABS

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
IN-LINE	1/4" ID	6.4mm ID	.21"	MPC17004T	.93 (23.6)	1.30 (33.0)
HOSE BARB	3/8" ID	9.5mm ID	.29"	MPC17006T	.93 (23.6)	1.30 (33.0)

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	.93 (23.6)	1.30 (33.0)
	3/8" ID	9.5mm ID	.29"	MPC17006T03	.93 (23.6)	1.30 (33.0)

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
IN-LINE	1/8" ID	3.2mm ID	.09"	MPCK17002T03	.99 (25.2)	1.10 (33.0)
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	.93 (23.6)	1.30 (33.0)
	3/8" ID	9.5mm ID	.29"	MPC17006T39	.93 (23.6)	1.30 (33.0)

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
IN-LINE	1/8" ID	3.2mm ID	.09"	MPCK17002T39	.99 (25.2)	1.10 (33.0)
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

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

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

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

ABS

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
IN-LINE	1/4" ID	6.4mm ID	.21"	MPC22004TM	Silicone Seal USP Class VI	.60 (15.2)	1.30 (33.0)
HOSE BARB	3/8" ID	9.5mm ID	.29"	MPC22006TM	Silicone Seal USP Class VI	.60 (15.2)	1.30 (33.0)

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
IN-LINE	1/4" ID	6.4mm ID	.21"	MPC22004T	Buna-N Seal USP Class V	.60 (15.2)	1.30 (33.0)
HOSE BARB	3/8" ID	9.5mm ID	.29"	MPC22006T	Buna-N Seal USP Class V	.60 (15.2)	1.30 (33.0)

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)

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
IN-LINE	1/8" ID	3.2mm ID	.09"	MPC22002T03	Buna-N Seal USP Class V	.60 (15.2)	1.10 (27.9)
HOSE BARB	1/4" ID	6.4mm ID	.21"	MPC22004T03	Buna-N Seal USP Class V	.60 (15.2)	1.30 (33.0)
	3/8" ID	9.5mm ID	.29"	MPC22006T03	Buna-N Seal USP Class V	.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)

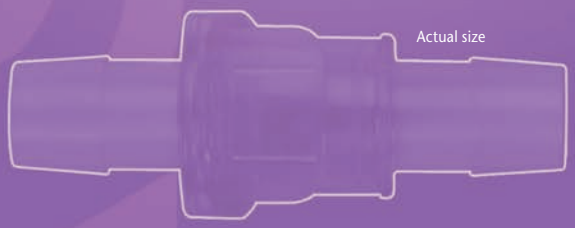
Mating Parts

SEALING CAP	SEALING CAP W/LOCK	MATERIAL	A	B
MPC32003	MPCK32003	Polycarbonate	.93 (23.6)	1.30 (33.0)
MPC32039	MPCK32039	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)
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.



MPX SERIES

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

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.

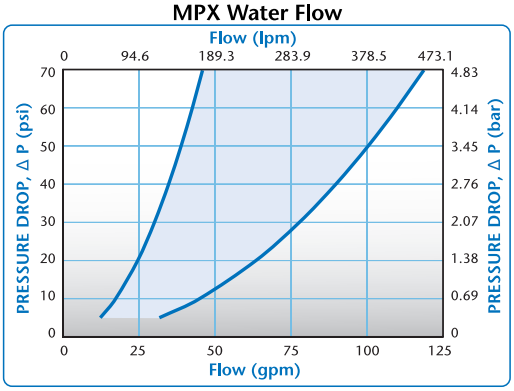
Polysulfone: Up to 270°F (132°C) for 60 minutes, up to 25 repetitions. Sterilize uncoupled only.

Tubing Sizes:

3/8" to 1/2" ID, 9.5mm to 12.7mm ID

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.

MPX Water Flow

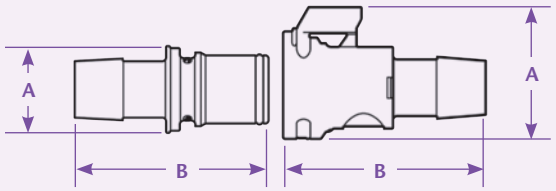


This graph is intended to give you a general idea of the performance capabilities of each product line. The shaded area of the graph represents the operating range of the product family, i.e. upper and lower values are shown. Therefore, depending on the exact coupling configurations selected, you can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

Features	Benefits
Ergonomic thumb latch	Easy to operate – even with gloved hands
USP Class VI materials	Meet biocompatibility requirements
Sterilizable by autoclave, Et0, e-beam, or gamma	Reusable, yet economical enough to allow disposability
Parting line-free hose barb	Eliminates potential leak path
BSE/TSE free-materials	Meet ADCF requirements

Note: MPX Series mates with Back-To-Back Body Adapters and Sanitary Series (pages 24-25) and SaniQuik™ (page 27).

Product Dimensions



A = Height/Diameter
B = Total Length

Coupling Bodies

POLYCARBONATE

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

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

POLYSULFONE

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

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

Coupling Inserts

POLYCARBONATE

TERMINATION	TUBING SIZE	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
IN-LINE HOSE BARB	3/8" ID	9.5mm ID	.38"	MPX22603M	Silicone Seal USP Class VI	.85 (21.6)	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	TUBING SIZE	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
IN-LINE HOSE BARB	3/8" ID	9.5mm ID	.38"	MPX22639M	Silicone Seal USP Class VI	.85 (21.6)	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	SEALING CAP W/LOCK	A	B
MPX32003	MPXK32003	1.28 (32.5)	1.67 (42.4)
MPX32039	MPXK32039	1.28 (32.5)	1.67 (42.4)

Mating Parts

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

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

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:

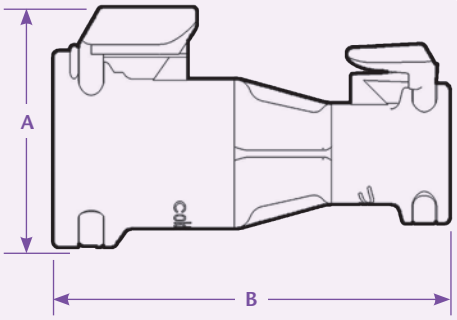
Polycarbonate: Up to 250°F (121°C) for 30 minutes, up to 10 repetitions. Sterlize uncoupled only.

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

MPC/MPX Back-to-Back Body Adapters

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	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
BSE/TSE free materials	Meet ADCF requirements



A = Height/Diameter
B = Total Length

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

Back-To-Back Body Adapters
POLYCARBONATE

PART NUMBER	TYPE	A	B
MPC17C1703	MPC to MPC	.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)

Back-To-Back Body Adapters
POLYSULFONE

PART NUMBER	TYPE	A	B
MPC17C1739	MPC to MPC	.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)

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

Actual size

SANITARY SERIES

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

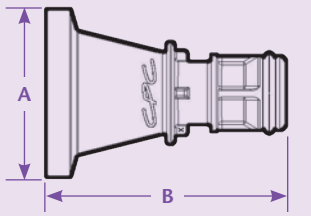
Sterilization:
Gamma: Up to 50 kGy irradiation

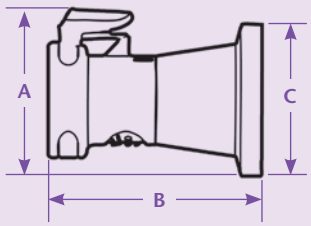
Autoclave: Up to 270°F (132°C) for 60 minutes, up to 25 repetitions. Sterilize uncoupled only.

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

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





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 caps (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: QD sanitary couplings are compatible with both stainless steel and plastic clamps. Clamps and gaskets are referenced for illustration and are not available through Colder.

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

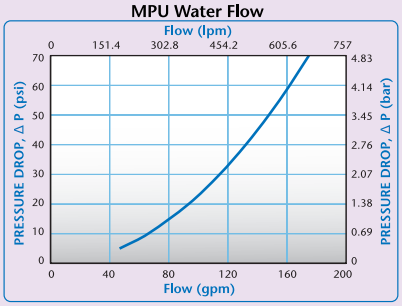
O-rings: Silicone (clear), platinum-cured, USP Class VI, ADCF

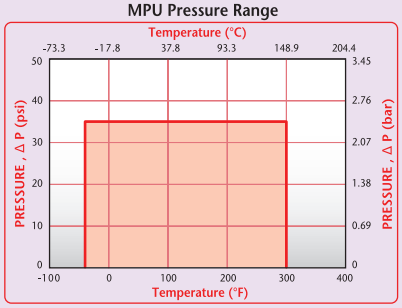
Sterilization:
Gamma: Up to 50 kGy irradiation

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

Tubing Sizes: 3/4" ID, 19.0mm ID

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.

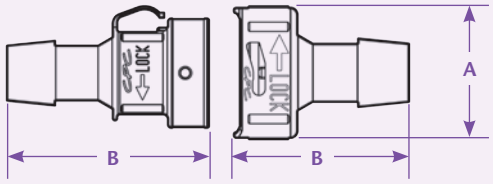




Features / Benefits

Features	Benefits
3/4" 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
BSE/TSE free materials	Meet ADCF requirements

Product Dimensions



A = Height/Diameter B = Total Length

Coupling Bodies

POLYSULFONE

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
IN-LINE HOSE BARB	3/4" ID	19.1mm ID	.71"	MPU171239	1.75 (44.5)	2.37 (60.2)

Coupling Inserts

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	A	B
IN-LINE HOSE BARB	3/4" ID	19.1mm ID	.71"	MPU221239M	Silicone Seal USP Class VI	1.56 (39.6)	2.88 (73.2)

Mating Parts

SEALING CAP		MATERIAL	A	B
MPU32039		Polysulfone	1.75 (44.5)	.79 (20.1)
SEALING PLUG	**O-RING**	**MATERIAL**	**A**	**B**
MPU30039M	Silicone Seal USP Class VI	Polysulfone	1.56 (39.6)	1.38 (35.1)

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

SANIQUIK SERIES

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

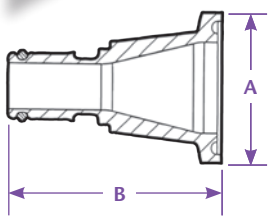
Sterilization: Autoclave

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

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	Benefits
3/4" and 1-1/2" sanitary standard terminations	Connect to hard plumbed systems with sanitary gaskets and sanitary clamps
Compatible with MPC & MPX Series	Quick and easy connections to industry standard plastic couplings on single-use bag and tube sets
Integral coupling adaptor	Disconnecting coupling reduces sanitary gasket replacement
BSE/TSE free materials	Meet ADCF requirements

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	PART NO.	MATING COUPLING	SANITARY SIZE	SANITARY BORE	A	B
SILICONE SEAL USP CLASS VI	SQCC221212M	MPC Series	3/4"	3/4"	.98" (24.9)	1.39" (35.3)
	SQCC222424M	MPC Series	1-1/2"	1-1/2"	1.98" (50.3)	1.50" (38.1)
	SQCX221212M	MPX Series	3/4"	3/4"	.98" (24.9)	1.43" (39.1)
	SQCX222416M	MPX Series	1-1/2"	1"	1.98" (50.3)	1.50" (38.1)
	SQCX222424M	MPX Series	1-1/2"	1-1/2"	1.98" (50.3)	1.50" (38.1)

Accessories

SILICONE (CLEAR)

DESCRIPTION	PART NO.	MATING SANIQUIK
PLATINUM-CURED USP CLASS VI REPLACEMENT SEALS	2260100	SQCC221212M, SQCC222424M
	2260200	SQCX221212M, SQCX222416M, SQCX222424M

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

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 7,500 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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