

Make the Right Connection Connect with Colder.

#### **Couplings and Fittings For Plastic Tubing**

Colder Products Company has been designing and manufacturing quick disconnect couplings, fittings and connectors since 1978. Our broad range of products can be found in thousands of applications across many markets including industrial, life sciences and chemical handling. Used in a wide range of machinery, devices and processes, innovative coupling and connection technologies from Colder allow flexible tubing to be quickly and safely connected and disconnected. To meet the needs of such a diverse range of markets and applications, Colder offers more than 7,500 standard and custom-designed products. The robust and easy-to-use design of Colder's quick disconnect couplings and fittings provides reliable, secure and leak-free connections for fluid and air management.

#### Where To Buy

Find your local distributor by visiting www.colder.com or call Colder's Customer Service at 1-800-444-2474 or 651-645-0091. You can also send an e-mail to info@colder.com.

#### Quality

Quality is a key component of Colder's success. Colder is an ISO 13485:2003 and ISO 9001:2008 certified company and our cleanroom is certified to ISO Class 7 certification standards.

#### **New Products**

Exciting additions to Colder's product offering include:

<ul> <li>NS212 Non-Spill Couplings</li> </ul>	Page 28
Hybrid Connectors	Page 72
<ul> <li>AseptiQuik® DC Connector</li> </ul>	Page 86
• 1/8" MPC Quick Disconnect Couplings	Page 76
<ul> <li>Expanded line of FitQuik<sup>™</sup> Connectors</li> </ul>	Page 110

INTRODUCTION

Colder's proprietary, engineered solutions improve the overall functionality and design of the equipment and processes in which they are used. Special product features include built-in shutoff valves to prevent product spills and an easy-to-use, push-button thumb latch for quick connecting and disconnecting. In addition, IdentiQuik Smart Couplings™ integrate RFID (Radio Frequency Identification) to automatically exchange product data at the exact time and location of connection. For users of Colder's advanced coupling technologies the result is cleaner, faster, safer and smarter fluid management. Specific applications for Colder couplings include:

#### **Industrial**

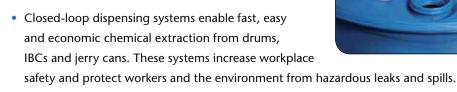
• Colder's broad offering of coupling options is found in many industrial markets. Applications include analytical instrumentation, printing and ink management, engine systems, biohazard detection equipment, electronic cooling and portable hydration systems.

#### **Life Sciences**

- Colder products for the Life Sciences market are assembled in our cleanroom and satisfy the most stringent acceptance requirements. They are also compatible with popular sterilization techniques. Applications include reusable and disposable connection devices in surgical and dialysis equipment, blood pressure monitoring and patient therapy devices.
- Colder offers single-use connections for media transfer in feeding, harvesting and sampling applications. Innovative solutions provide biopharmaceutical manufacturers the ideal transition from stainless processing equipment to disposable bag systems, manifolds and tube sets. In addition, Colder's single-use aseptic connection and disconnection technologies offer biopharmaceutical manufacturers the security needed to ensure sterility is maintained throughout the process cycle. These solutions feature the ease-of-use and robustness that manufacturers expect from Colder.

#### **Chemical Management**

• Colder's wide range of chemically resistant quick disconnect couplings and chemical dispensing systems provides non-spill operation and improve the safety of chemical management environments. Applications include semiconductor and pharmaceutical manufacturing as well as pump, filter and de-ionized water connections.



• Colder's fitments, closures and couplings for bag-in-box and rigid containers are found in many industrial applications such as cleaning, soap and detergent dispensing and bulk ink management.

# **Engineered Solutions Worldwide**

Colder's success is grounded in its expertise in research & development and application engineering. Many of Colder's standard couplings and fittings began as custom engineered solutions that found broader use in applicable markets. To date, Colder has produced over 7,500 custom and standard products to meet the fluid handling challenges of various industries worldwide. With our extensive test lab, prototype equipment and modeling capabilities we are able to provide our customers with world class product design and development support. Our worldwide distribution network enables global manufacturers to consolidate vendors without losing the advantage of local delivery. Colder's connectivity solutions are the preferred choice of engineers worldwide.





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All couplings are shown connected and in actual size unless otherwise noted. For additional terminations and configurations, see individual product pages.



# **General Purpose Couplings**

PAGE | DESCRIPTION



12 SMC & SMF1: Twist-to-connect design provides reliable and secure alternative to luer-type connections. Material: Acetal, polypropylene, ABS, chrome-plated brass Tubing ID Sizes: 1/16" to 1/8" (1.6mm to 3.2mm)

 $\rightarrow \leftarrow \rightarrow \leftarrow$ 



16 PMC: Features one-hand connection and disconnection and integral terminations; easier to use than ball-and-sleeve designs.

Tubing ID Sizes: 1/16" to 1/4" (1.6mm to 6.4mm)

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**20** PMC12: Offered with a variety of configurations and chemical resistance for demanding applications; gamma sterilizable. Material: Polypropylene

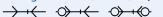
Tubing ID Sizes: Microbore to 1/4" (Microbore to 6.4mm)





**24** MC: Durable and able to withstand higher pressure and temperature; easy one-hand connection and disconnection. Material: Chrome-plated brass

Tubing ID Sizes: 1/8" to 1/4" (3.2mm to 6.4mm)





28 NS212: Twist-to-connect design features non-spill valves designed to provide fast, safe and virtually leak-free fluid line

Material: Glass-filled polypropylene Tubing ID Sizes: 1/8" and 1/4" ID (3.2mm and 6.4mm ID)



**30 PLC:** Widest selection of sizes and configurations offered; resistant to most mild chemical solutions.

Material: Acetal

**Tubing ID Sizes:** 1/4" to 3/8" (6.4mm to 9.5mm)

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**34** PLC12: Materials of construction offer broad chemical resistance for demanding applications; gamma sterilizable. Material: Polypropylene

**Tubing ID Sizes:** 1/4" to 3/8" (6.4mm to 9.5mm)





38 LC: Durable and able to withstand higher pressure and temperature; easy one-hand connection and disconnection. Material: Chrome-plated brass **Tubing ID Sizes:** 1/4" to 3/8" (6.4mm to 9.5mm)

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**General Purpose Couplings** 

PAGE | DESCRIPTION



**42** APC: Features plastic thumb latch, fewer moving parts and a smooth contoured design to deliver ease-of-use and excellent flow. Tubing ID Sizes: 1/4" to 3/8" (6.4mm to 9.5mm)

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**46** BreakAway<sup>TM</sup>: Provides safe and easy fluid transfer with protection from costly product loss and equipment damage. Material: Acetal

Tubing ID Sizes: 1/4" and 3/8" (6.4mm and 9.5mm)





**48 EFC12:** High efficiency valve design provides high flow capability; bulkhead panel mount option facilitates tight seals against tank walls and drums. Material: Polypropylene

Tubing ID Sizes: 1/4" and 3/8" (6.4mm and 9.5mm)



50 NS4: Non-spill coupling that virtually eliminates spills, minimizes downtime and enhances operator safety. Material: Glass-filled polypropylene, ABS
Tubing ID Sizes: 1/8" and 3/8" (3.2mm to 9.5mm)

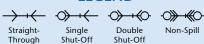




**52** NS6: Durable, yet lightweight construction that features non-spill valves and is compatible with many chemicals. Material: Glass-filled polypropylene Tubing ID Sizes: 3/8" and 1/2" (9.5mm and 12.7mm)

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#### **LEGEND**



# **General Purpose Couplings**

PAGE | DESCRIPTION

**54** NSH: Pressure-balanced non-spill design with 100% metal-free, spring-free flow path. Material: Glass-filled polypropylene **Tubing ID Sizes:** 3/8" to 3/4" (9.5mm to 19.0mm)





**56 HFC12:** Efficient valve design leads to high flow and exceptionally low spillage; shrouded thumb latch is easy to grip and simple to operate. Material: Polypropylene

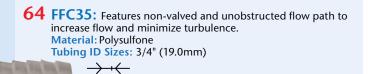
Tubing ID Sizes: 3/8" to 3/4" (9.5mm to 19.0mm)



60 HFC35 & 57: Withstand harsh environments and offered with or without UV-resistant materials to withstand harmful rays without affecting performance.

Material: Polysulfone (white), UV-resistant polysulfone (black) Tubing ID Sizes: 3/8" to 3/4" (9.5mm to 19.0mm)

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PAGE | DESCRIPTION



**66** Tentube™: Allows connection and disconnection of up to ten lines with one slide latch; tubing orientation ensured by physical keying.

Material: Nylon, acetal, polypropylene
Tubing ID Sizes: 1/16" to 1/8" (1.6mm to 3.2mm)





**68 Sixtube<sup>TM</sup>:** Snap-in panel mount design and flexibility to connect and disconnect six separate lines with or without

Material: Acetal, polypropylene Tubing ID Sizes: 1/16" to 1/8" (1.6mm to 3.2mm)



Twin Tube™: One easy-to-use quick disconnect for two separate non-valved flow paths.

Material: Acetal, ABS

Tubing ID Sizes: 1/16" to 1/8" (1.6mm to 3.2mm)





**70** Multi-Mount: Connects three to five lines at once; keyed to prevent mismatched connections. Material: Acetal, chrome-plated brass Tubing ID Sizes: 1/8" to 3/8" (3.2mm to 9.5mm)

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**72 Hybrid Connector:** Eliminates the need for multiple connections and simplifies the user interface between remote tools and a device.

Material: Glass-filled polypropylene.



73 Mini Hybrid Connector: Eliminates the need for multiple connections and simplifies the user interface between remote tools and a device.

Material: Glass-filled polypropylene.

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



**LEGEND**  $\rightarrow \leftarrow \rightarrow \leftarrow \rightarrow \leftarrow \rightarrow \leftarrow \rightarrow \leftarrow$ Single Shut-Off



# Life Sciences - Medical & Bioprocessing

PAGE | DESCRIPTION



**74** SMC: Twist-to-connect design manufactured and packaged

Material: Medical-grade polycarbonate **Tubing ID Sizes:** 1/16" to 1/8" (1.6mm to 3.2mm)





75 SRC: A unique small bore connector that eliminates the potential for misconnections with luer fittings. Material: Medical-grade polypropylene Tubing ID Sizes: Sizes: 1/8" to 3/16" (3.2mm to 4.8mm)





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

Material: Medical-grade ABS, polycarbonate, polysulfone Tubing ID Sizes: 1/8" to 3/8" (3.2mm to 9.5mm)





**78** MPX: Larger flow easy-to-use and secure connection for critical fluid applications; includes pressure sealing caps and plugs and optional locking sleeves. Higher flow rate than the

Material: Medical-grade polycarbonate, polysulfone Tubing ID Sizes: 3/8" and 1/2" (9.5mm and 12.7mm)





80 Back-To-Back Body Adapters: Allow end users to connect off-the-shelf single-use systems that may feature identical coupling connections at the end of their tubing. Material: Medical-grade polycarbonate and medical-grade polysulfone



**81** Sanitary: 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: Medical-grade polysulfone Termination Sizes: 3/4", 1"and 1-1/2" sanitary

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**82** SaniQuik<sup>TM</sup>: Integral sanitary termination attaches to hard-plumbed systems with sanitary clamps; permits quick and easy connection to single-use bag systems, manifolds or tube sets with MPC or MPX bodies. Material: 316L stainless steel

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

# Life Sciences - Medical & Bioprocessing

**83** MPU: Larger flow twist-to-connect design features easy-to-use locking mechanism that guards against accidental disconnects. Material: Medical-grade polysulfone **Tubing ID Sizes: 3/4" (19.0mm)** 





**84** HFC39: Features aseptic disconnect functionality with automatic shutoff valves, preventing external organisms from entering the media flowpath upon disconnection. Material: Medical-grade polysulfone Tubing ID Sizes: 1/4", 3/8" and 1/2" (6.4mm, 9.5mm and 12.7mm)





**86** AseptiQuik® Connector: Provides a quick and easy sterile connection, even in non-sterile environments. Material: Medical-grade polycarbonate Termination Sizes: 1/2" (12.7mm) HB, 3/8" (9.5mm) HB and 3/4" sanitary

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**88** AseptiQuik DC Connector: All-in-one single-use connection technology offering both a sterile connection and a sterile disconnection.

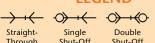
Material: Medical-grade polycarbonate Termination Sizes: 1/4", 3/8" and 1/2" (6.4mm, 9.5mm and 12.7mm)

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# **High Purity Couplings**

PAGE | DESCRIPTION

94 ChemQuik® CQH06/CQV06: All plastic design for ultra-pure media and high chemical resistance. Material: Natural, virgin polypropylene and PVDF Tubing Sizes: 1/4" to 1/2" flare; 3/8" to 3/4" NPT

→ +



Shown at 50% scale

**96** ChemQuik CQGO6: Spring-free and metal-free flow path for high flow capacity and non-spill, high purity connections. Material: Natural, virgin polypropylene
Tubing Sizes: 3/8" to 3/4" flare; 3/8" to 3/4" NPT





**97** ChemQuik Dual Containment System: Flare nuts and panel mount fittings that facilitate double containment of critical chemical lines. Material: Natural, virgin polypropylene

## **Dispensing Connectors**

PAGE | DESCRIPTION



98 DrumQuik® PRO & DrumQuik PUR: Closed chemical dispensing system with a reusable coupler and a recyclable dip-tube assembly for chemical extraction from drums, jerry cans and IBCs.

Material: Food grade, virgin polypropylene and polyethylene **Thread Sizes:** 

Drum Inserts: 2" American buttress, BCS 56x4 and 2" NPS (G8) Couplers: 1/2" NPT, 3/4" hose barb and 3/4" BSPP

**102** DrumQuik Adapters and Accessories: Colder offers many accessories intended for use with DrumQuik® PRO and DrumQuik PUR systems. These include vent check valves, foot valves, fittings and more.

#### **Dispensing Connectors**

PAGE | DESCRIPTION



104 DrumQuik® 3-Port UDA: Used with 3/4" male NPT coupling terminations to adapt dip-tubes to standard drum closures for closed system dispensing. Material: Food grade, virgin polypropylene Thread Sizes: UDA 3-Port: 3/4" male NPT; UDA: none

**105 Bottle Adaptor Kits:** Intended for use on reagent bottles with SP400-38mm threads. Material: Natural, virgin polypropylene Thread Sizes: SP400-38mm

> DrumQuik Asian Drum Adaptors, **Plugs and Caps**



106 UDC: Provides closed connection to bag-in-box packaging with 38mm threaded and snap-in necks. Material: Polypropylene and acetal
Tubing ID Sizes: 3/8" to 3/4" (9.5mm to 19mm)





**108** Puncture Seal: Provides closed connection to Hedwin Cubitainer® bag-in-box container systems and flexible bags or bottles with SP400 38mm threads...

Material: Polypropylene (coupling) and polyethylene (cap)
Tubing ID Sizes: 1/4" and 3/8" (6.4mm and 9.5mm)



## **Fittings**



**110** FitQuik<sup>™</sup> Connectors: High quality fittings for leak-free tubing connections. These precision molded fittings are designed to eliminate tubing leak points in applications such as medical devices, analytical instrumentation or airdriven equipment.

#### Additional Products & Information



**128** Custom Capabilities: Colder works directly with our customer's design engineering team to solve the most difficult fluid and air management problems.



- **130 Accessories:** Offering includes a variety of ancillary components from fittings and luers to PTF nuts and dust caps.
- Sterilization and Disinfectant Methods
- **132** Coupling Material Descriptions

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The SMC & SMF1 are Colder's smallest couplings. These twist-to-connect couplings provide a reliable and more secure alternative to luer-type connections. They also allow for the tubing to rotate freely when connected. This important feature prevents both kinked tubing and accidental disconnection during use.

The SMC Series is also available with optional RFID (Radio Frequency Identification) capability.

#### **Features**

Twist to connect Free coupling rotation Quarter turn latch clicks when connected

C<sub>v</sub>=Average coefficient across various flow rates (see chart

 $\Delta P$ =Pressure drop across coupling (psi) S=Specific gravity of liquid

Prevents accidental disconnects Eliminates kinked tubing

## **Benefits**

Prevents damage due to over torquing

	BODIES	SMM01	SMM02	BODIES	SMM01	SMM02
t)	SMF01	.03	.03	SMFD02	.03	.08
	SMFD01	.03	.03	SMPT02	.03	.19
	SMF02	.03	.19	SMPTD02	.03	.08

# **Specifications**

Pressure: Vacuum to 100 psi, 6.9 bar

#### **Temperature:**

Acetal, Chrome-Plated Brass: -40°F to 180°F (-40°C to 82°C)

#### Polypropylene:

32°F to 180°F (0°C to 82°C)

-40°F to 160°F (-40°C to 71°C)

#### **Materials:**

Main components: ABS, acetal, polypropylene,

chrome-plated brass

Locking sleeves: Acetal

Valves: Acetal

Valve spring: 316 stainless steel

O-rings: Buna-N with acetal or chrome-plated

brass, EPDM with polypropylene

#### **Color:**

Main components: Natural white (acetal and ABS), almond (polypropylene), chrome and black (chrome-plated brass)

#### **Tubing Sizes:**

1/16" to 1/8" ID, 1.6mm to 3.2mm and 5.0mm

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 products in their own application

> Note: BS EN 1060-3 compatible - prevents misconnections in medical applications

#### **Liquid Flow Rates Liquid Flow Rate**

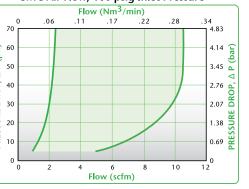
# **Information for Couplings**

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.

# C<sub>v</sub> Values for Subminiature Couplings

BODIES	SMM01	SMM02	BODIES	SMM01	SMM02	
SMF01	.03	.03	SMFD02	.03	.08	
SMFD01	.03	.03	SMPT02	.03	.19	
SMF02	.03	.19	SMPTD02	.03	.08	

#### SMC Air Flow, 100 psig Inlet Pressure



# SMC Water Flow Flow (lpm) .95 1.89 2.84 3.78 4.73 5.67 6.62 3.45 2.07 .75 1.00 1.25 1.50 1.75

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.

## The IdentiQuik® Series of

smart couplings are RFID enabled couplings used on equipment and in processes. RFID is an identification method that relies on remotely writing and reading data. Smart coupling applications include: inventory level meters, surgical tool identification, product protection and many more.

# **RFID Specifications**

**RF Communication** Range: Approximately 1"

**Operating** Voltage: 8-24V standard

#### **Power Consumption:**

1.2W Maximum

**Communication:** ASCII RS-232 (DB-9), USB

#### **I-Code RFID Tags:** 13.56 MHz

ISO-15693 - 112 bytes programmable

NOTE: RFID tags not approved for e-beam or gamma sterilization.

#### **Operating** Temperature: 32°F to 150°F (0°C to 66°C)

Materials are listed on page 12. Customized parts (materials, voltage, termination, cable length, etc.) available.

Call for more information.

# **IdentiQuik SMC Series**

(( Identify misconnections: eliminate out-of-sequence connections or misconnections due to operator error

**SMART COUPLINGS WITH RFID** 

- (( Protect your brand: prevent out-of-date, incorrect or misapplied products from being used
- ((( Prolong equipment life: prevent the accidental or unintentional use of harmful media
- (( Save time: automatic documentation of package and media lot numbers, date codes and more

Product Dimensions (See drawing on page 14)

# **Coupling Inserts**



Patented

TION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF		
	1/16" ID	1.6mm ID	iSMFT0103	iSMFDT0103	.76	.76/.9
В	1/8" ID	3.2mm ID	iSMFT0203	iSMFDT0203	.76	.91/.9



7							
מער	TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU			
	IN-LINE	1/16" ID	1.6mm ID	iSMFT0100	.76	.76	
	HOSE BARB	1/8" ID	3.2mm ID	iSMFT0200	.76	.91	



TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU		
IN-LINE	1/16" ID	1.6mm ID	iSMMT0103	.76	.76
HOSE BARB	1/8" ID	3.2mm ID	iSMMT0203	.76	.91



All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. NOTE: iSMC Readers are built on a custom basis. I-Code SL1 tags are available for existing applications, contact the factory **SMC SERIES** 

**Coupling Bodies** 

TERMINATION

PIPE THREAD

**TERMINATION** 

**TERMINATION** 

PANEL MOUNT

TERMINATION

PIPE THREAD TERMINATION

IN-LINE

IN-LINE

SLEEVE)

**HOSE BARB** 

(ACETAL LOCKING

**TERMINATION** 

PANEL MOUNT

(ACETAL LOCKING SLEEVE)

HOSE BARB

**SMF1** Disposable

**Bodies** 

**HOSE BARB** 

IN-LINE

IN-LINE

**HOSE BARB** 

**NUT THREAD** 

7/16-24UNF

.51

.51

.48

.48

.48

.48

.48

.48

.58

.58

.58

.58

.58

.58

.51

.48

.48

.58 .58

STRAIGHT THRU

SMF10297MBLK

SMF1M597MBLK

SMF10297

SMF1M597

.86

.86

.75/.90

.75/.90

1.00

1.00

.90

.90

.75/.90

.75/.90

1.00

1.00

.90

.90

.86

.75/.90

.75/.90 1/2

1/2

.82

.82

.69

.69

.90

.90

.38

.42

.42

.42

В

7/16

7/16

1/2

1/2

1/2

1/2

1/2

1/2

7/16

**PANEL** 

1/2

**NUT HEX** 

**SHUTOFF** 

SMPTD02

**SHUTOFF** 

SMFDM3

SMFD02

SHUTOFF

SMFPMD01

SMFPMDM3

SMFPMD02

SMFPMD01BLK

SMFPMDM3BLK

SMFPMD02BLK

SMFD01

SMPTD02BLK

SMFD01MBLK

SMFDM3MBLK

SMFD02MBLK

AND INSERTS

STRAIGHT THRU

**STRAIGHT THRU** 

SMPT02

SMF01

SMFM3

SMF02

SMPT02BLK

SMF01MBLK

SMFM3MBLK

SMF02MBLK

SMFPM01

SMFPMM3 SMFPMM3BLK

SMFPM02

STRAIGHT THRU

SMFPM01BLK

SMFPM02BLK

STRAIGHT THRU

STRAIGHT THRU

**STRAIGHT THRU** 

METRIC EQ.

3.2mm ID

3.2mm ID

5mm ID

5mm ID

SMFPM0112

SMFPM0212

**TUBING SIZE** 

1/8" ID

1/8" ID

lubrication step to our SMF1 manufacturing process. This revolutionary new technique allows the lube to be placed only where you need it to ensure consistent connection forces throughout the lifetime of

SMPT0212

SMF0112

SMF0212

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

C = Hex Size on Main

**THREAD SIZE** 

**TUBING SIZE** 

1/8" NPT

1/8" NPT

1/16" ID

1/16" ID

1/8" ID

1/8" ID

1/16" ID

1/16" ID

1/8" ID

1/8" ID

THREAD SIZE

**TUBING SIZE** 

**TUBING SIZE** 

1/8" NPT

1/16" ID

1/8" ID

1/16" ID

1/8" ID

POLYPROPYLENE

**TUBING SIZE** 

Component

Polycarbonate SMC products manufactured in Colder's cleanroom

METRIC EQ.

1.6mm ID

1.6mm ID

3.0mm ID 3.0mm ID

3.2mm ID

3.2mm ID

METRIC EQ.

1.6mm ID

1.6mm ID

3.0mm ID

3.0mm ID

3.2mm ID

3.2mm ID

METRIC EQ.

1.6mm ID

3.2mm ID

METRIC EQ.

1.6mm ID

3.2mm ID

**TERMINIATION** 

IN-LINE

the connectors, even when aggressive cleaning techniques are used.

HOSE BARB

also available.

See page 74.

# **ACETAL**

.80

.80

TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/16" ID 1/16" ID 1/8" ID 1/8" ID	METRIC EQ. 1.6mm ID 1.6mm ID 3.0mm ID 3.0mm ID 3.2mm ID 3.2mm ID 5.0mm ID	STRAIGHT THRU SMM01 SMM01MBLK SMMM3 SMMM3MBLK SMM02 SMM02MBLK SMM05	A .48 .48 .48 .48 .48 .48	8 .75 .75 .80 .80 .90 .90
TERMINATION PANEL MOUNT HOSE BARB	<b>TUBING SIZE</b> 1/16" ID 1/16" ID	METRIC EQ. 1.6mm ID 1.6mm ID	STRAIGHT THRU SMMPM01 SMMPM01BLK	A .50 .50	<b>B</b> .75 .75

SMMPMM3

SMMPMM3BLK

3.0mm ID

3.0mm ID

3.2mm ID

3.2mm ID

1/8" ID

1/8" ID



#### SMMPM02 .50 .90 SMMPM02BLK CHROME-PLATED BRASS

.50

.50

TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/8" ID	METRIC EQ. 3.2mm ID	STRAIGHT THRU SMM02CBMBLK	<b>A</b> .48	<b>B</b> .90
TERMINATION PANEL MOUNT HOSE BARB	TUBING SIZE 1/8" ID	METRIC EQ. 3.2mm ID	STRAIGHT THRU SMMPM02CBBLK	<b>A</b> .50	<b>B</b> .90





# **POLYPROPYLENE**

TERMINATION IN-LINE HOSE BARB (ACETAL LOCKING SLEEVE)	TUBING SIZE 1/16" ID 1/8" ID	METRIC EQ. 1.6mm ID 3.2mm ID	STRAIGHT THRU SMM0112 SMM0212	.48 .48	B .75 .90
TERMINATION PANEL MOUNT HOSE BARB (ACETAL LOCKING SLEEVE)	TUBING SIZE 1/16" ID 1/8" ID	METRIC EQ. 1.6mm ID 3.2mm ID	STRAIGHT THRU SMMPM0112 SMMPM0212	A .50 .50	B .75 .90



# **ACETAL**

TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/16" ID 1/16" ID	METRIC EQ. 1.6mm ID 1.6mm ID 3.0mm ID 3.0mm ID	STRAIGHT THRU SMC01 SMC01MBLK SMCM3 SMCM3MBLK	SHUTOFF SMCD01 SMCD01MBLK SMCDM3 SMCDM3MBLK	B 1.32/1.46 1.32/1.46 1.62 1.62
	1/8" ID	3.2mm ID 3.2mm ID	SMC02	SMCD02 SMCD02MBLK	1.61
	1/8" ID	3.2mm ID	SMC02MBLK	SMICDUZIVIBLK	1.61

**SMC Complete In-Line Couplings** 



D		/D	D			VIE
	U			V		 <b>UL</b>

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	В
IN-LINE	1/16" ID	1.6mm ID	SMC0112	1.32
HOSE BARB	1/8" ID	3.2mm ID	SMC0212	1.61

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. MBLK = molded black material. BLK = dyed black material.



All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. MBLK = molded black material. BLK = dyed black material.

DID YOU KNOW ... In response to our customer's requests we have added a proprietary

**SMC SERIES** 



Pressure: Vacuum to 120 psi, 8.3 bar

#### **Temperature:**

-40°F to 180°F (-40°C to 82°C)

#### **Materials:**

Main components and valves: Acetal

Thumb latch: Stainless steel

Valve spring: 316 stainless steel

External springs and pin: Stainless steel

O-rings: Buna-N

#### **Color:**

Natural white, others available

#### **Tubing Sizes:**

1/16" to 1/4" ID, 1.6mm to 6.4mm 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 products in their own application

Don't forget: you can always visit <u>www.colder.com</u> for more product information.

The 1/8" flow PMC coupling covers a wide variety of generalpurpose applications. Featuring the Colder thumb latch, the PMC is easier to use than ball-and-sleeve designs. One-hand connection/disconnection and integral terminations make the PMC the choice for ease of use and manufacture.

This coupling is NuSeal compatible. See page 25 for details.

#### **Features**

Hose barb shroud Integral terminations

Compatible

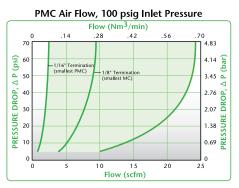
Clicks when connected

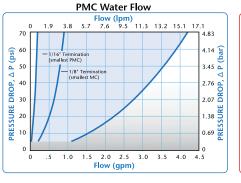
#### Benefits

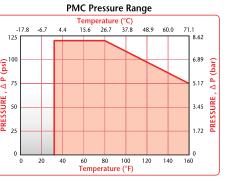
Extra protection for the 1/16" hose barb Fewer leak points, shorter assemblies, faster installations

Mates with PMC12 and MC Series couplings (see pages 20 and 24)

Assurance of a reliable connection







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.

## **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 to the right.

Q=Flow rate in gallons per minute
C<sub>v</sub>=Average coefficient across various flow rates (see chart)  $\Delta P$ =Pressure drop across coupling (psi)

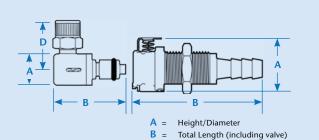
#### C, Values for 1/8" Flow PMC Couplings

	PMC	PMCD	PMC	PMC	PMC	PMCD	PMC	PMCD	PMC	PMCD										
BODIES	2004	2004	2006	2006	2202	2202	2204	2204	2402	2402	2404	2404	2602	2304	2104	2304	2203	2203	2201	2201
PMC1002	.40	.18	.50	.19	.25	.16	.50	.19	.50	.20	.51	.19	.50	.50	.38	.24	.30	.17	.03	.03
PMCD1002	.27	.18	.31	.18	.24	.16	.28	.20	.26	.20	.29	.18	.26	.26	.27	.24	.25	.17	.03	.03
PMC1004	.40	.21	.50	.24	.26	.18	.50	.24	.50	.20	.51	.24	.50	.50	.38	.26	.30	.19	.03	.03
PMCD1004	.29	.19	.32	.23	.25	.17	.30	.23	.27	.21	.28	.23	.27	.28	.29	.24	.25	.18	.03	.03
PMC1204	.40	.18	.50	.18	.25	.16	.40	.18	.40	.16	.36	.18	.40	.40	.38	.21	.30	.17	.03	.03
PMCD1204	.21	.17	.22	.17	.20	.16	.22	.17	.21	.17	.20	.17	.21	.22	.21	.18	.21	.16	.03	.03
PMC1602	.23	.15	.28	.18	.19	.14	.27	.15	.27	.15	.28	.18	.27	.27	.23	.16	.20	.14	.03	.03
PMCD1602	.19	.15	.19	.15	.17	.14	.19	.15	.18	.15	.18	.15	.18	.19	.19	.15	.18	.14	.03	.03
PMC1604	.33	.23	.44	.24	.24	.18	.44	.23	.44	.20	.38	.24	.38	.44	.33	.26	.26	.19	.03	.03
PMCD1604	.23	.17	.26	.21	.22	.16	.26	.21	.26	.19	.25	.21	.21	.26	.23	.24	.22	.16	.03	.03
PMC1703	.25	.20	.30	.20	.20	.17	.30	.20	.30	.19	.28	.20	.28	.30	.25	.18	.21	.17	.03	.03
PMCD1703	.20	.17	.20	.17	.19	.15	.21	.17	.19	.17	.20	.17	.19	.20	.20	.16	.19	.16	.03	.03
PMC1701	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.02
PMCD1701	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.02	.02

## **DID YOU KNOW ...**

CAD models are available for all Colder couplings. These files are available in many formats including STEP, IGES and native file formats. You can see them online at www.colder.com.

PMC SERIES



D = Elbow Radial Length

Greenlee® punch number 60077

+.010	PANEL OPENING	MAX. PANEL THICKNESS	MIN. PANE THICKNESS
COUPLING BODIES	see drawing	.50	.05
COUPLING INSERTS	1/2	.30	.05

_/

PANEL	PANEL
NUT HEX	<b>NUT THREAD</b>
5/8	1/2-24UNF

# **Coupling Bodies**

	<b>ACETAL</b>						
	TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/8" NPT 1/8" BSPT 1/4" NPT 1/4" BSPT		STRAIGHT THRU PMC1002 PMC1002BSPT PMC1004 PMC1004BSPT	SHUTOFF PMCD1002 PMCD1002BSPT PMCD1004 PMCD1004BSPT	A .79 .79 .79 .79	B 1.00 1.00 1.10 1.10
	TERMINATION PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 5/32" OD, .10" ID 1/4" OD, .17" ID	METRIC EQ. 4.0mm OD, 2.0mm ID 4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID	STRAIGHT THRU PMC12M42 PMC12025 PMC1204	SHUTOFF PMCD12M42 PMCD12025 PMCD1204	A .77 .77 .77	B 1.65 1.70 1.72
	TERMINATION PANEL MOUNT HOSE BARB	TUBING SIZE 1/16" ID 1/8" ID 3/16" ID 1/4" ID	METRIC EQ. 1.6mm ID 3.2mm ID 4.8mm ID 6.4mm ID	STRAIGHT THRU PMC1601 PMC1602 PMC1603 PMC1604	SHUTOFF PMCD1601 PMCD1602 PMCD1603 PMCD1604	A .77 .77 .77	B 1.40 1.65 1.85 1.85
	TERMINATION PANEL MOUNT FEMALE THREAD	THREAD SIZE 10-32 UNF		STRAIGHT THRU PMC181032	SHUTOFF PMCD181032	<b>A</b> .77	B 1.25
800	TERMINATION IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE  5/32" OD, .10" ID  1/4" OD, .17" ID	METRIC EQ. 4.0mm OD, 2.0mm ID 4.0mm OD, 2.5mm ID 5.0mm OD, 3.0mm ID 6.4mm OD, 4.3mm ID	STRAIGHT THRU PMC13M42 PMC13025 PMC13M5 PMC1304	SHUTOFF PMCD13M42 PMCD13025 PMCD13M5 PMCD1304	A .81 .81 .81	B 1.65 1.65 1.72 1.75
	TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/16" ID 1/8" ID 3/16" ID 1/4" ID	METRIC EQ. 1.6mm ID 3.2mm ID 4.8mm ID 6.4mm ID	STRAIGHT THRU PMC1701 PMC1702 PMC1703 PMC1704	SHUTOFF PMCD1701 PMCD1702 PMCD1703 PMCD1704	.81 .81 .81 .81	B 1.41 1.45/1.65 1.65/1.85 1.65/1.85
	TERMINATION IN-LINE	THREAD SIZE		STRAIGHT THRU	SHUTOFF	A	B

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. †NOTE: Colder's Ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

PMC191032

PMCD191032

.81

1.25

**Coupling Inserts** 

ACEIAL			Λ.	
	A			

TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/8" NPT 1/8" BSPT 1/4" NPT 1/4" BSPT		STRAIGHT THRU PMC2402 PMC2402BSPT PMC2404 PMC2404BSPT	SHUTOFF PMCD2402 PMCD2402BSPT PMCD2404 PMCD2404BSPT	A .58 .58 .65 .65	B 1.03/1.45 1.03/1.44 1.13/1.42 1.13/1.42		
TERMINATION PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID	METRIC EQ. 6.4mm OD, 4.3mm ID	STRAIGHT THRU PMC4004	SHUTOFF PMCD4004	<b>A</b> .72	B 1.70/1.82		Š
TERMINATION PANEL MOUNT HOSE BARB	TUBING SIZE 1/16" ID 1/8" ID 3/16" ID 1/4" ID	METRIC EQ. 1.6mm ID 3.2mm ID 4.8mm ID 6.4mm ID	STRAIGHT THRU PMC4201 PMC4202 PMC4203 PMC4204	SHUTOFF PMCD4201 PMCD4202 PMCD4203 PMCD4204		B 1.38/1.50 1.63/1.75 1.83/1.95 1.83/1.95		03
TERMINATION IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE  5/32" OD, .10" ID  1/4" OD, .17" ID  3/8" OD, .25" ID	METRIC EQ. 4.0mm OD, 2.0mm ID 4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	STRAIGHT THRU PMC20M42 PMC20025 PMC2004 PMC2006	SHUTOFF PMCD20M42 PMCD20025 PMCD2004 PMCD2006	A .58 .58 .58 .65	B 1.08/1.60 1.13/1.65 1.15/1.57 1.40/1.52		S.
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/16" ID 1/8" ID 3/16" ID 1/4" ID	METRIC EQ. 1.6mm ID 3.2mm ID 4.8mm ID 6.4mm ID	STRAIGHT THRU PMC2201 PMC2202 PMC2203 PMC2204	SHUTOFF PMCD2201 PMCD2202 PMCD2203 PMCD2204	A .50 .50 .50 .50	B .80/1.47 1.00/1.67 1.20/1.88 1.22/1.70		
TERMINATION IN-LINE FEMALE THREAD	THREAD SIZE 10-32 UNF		STRAIGHT THRU PMC281032	SHUTOFF PMCD281032	<b>A</b> .58	B .63/1.31		6
TERMINATION ELBOW FERRULELESS POLYTUBE FITTING, PTF†	<b>TUBING SIZE</b> 5/32" OD, .10" ID 1/4" OD, .17" ID	METRIC EQ. 4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID	STRAIGHT THRU PMC21025 PMC2104	SHUTOFF PMCD2104	A .50 .50	B 1.17 1.17/1.21	D .75 .77	
TERMINATION ELBOW HOSE BARB	TUBING SIZE 1/8" ID 1/4" ID	METRIC EQ. 3.2mm ID 6.4mm ID	STRAIGHT THRU PMC2302 PMC2304	SHUTOFF PMCD2302 PMCD2304	A .50 .50	B .85/1.21 1.00/1.21	D .75/.69 .95/.90	
								202



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. †NOTE: Colder's Ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse. PTF fittings are designed for semirigid tubing, i.e., polyethylene, nylon, polyurethane, etc.



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

10-32 UNF

FEMALE THREAD



Pressure: Vacuum to 120 psi, 8.3 bar

**Temperature:** 

32°F to 160°F (0°C to 71°C)

#### **Materials:**

Main components and valves: Polypropylene

Thumb latch: Stainless steel Valve spring: 316 stainless steel

External spring and pin: Stainless steel

O-rings: EPDM

**Sterilization:** 

Gamma: Up to 50 kGy irradiation

Color: Almond

#### **Tubing Sizes:**

Microbore to 1/4" ID, Microbore to 6.4mm 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 products in their own application conditions. Use the graph to the right as a guide.

Don't forget: you can always visit <u>www.colder.com</u> for more product information.

#### The 1/8" flow polypropylene PMC12 offers many of the same configuration options as the PMC. The polypropylene material adds greater chemical resistance and is gamma sterilizable. The PMC12 also mates to small diameter rigid tubing. Available with a 1/4-28 flat bottom port and 1/4-28 UNF threads, these couplings eliminate the need to thread and re-thread common compression nuts each time a tubing connection is made.

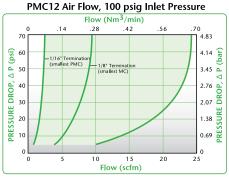
#### **Features**

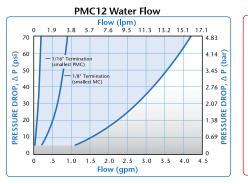
Integral terminations

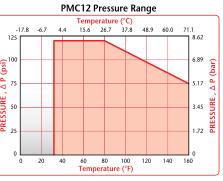
Chemically resistant and gamma-

Greater chemical resistance One-hand connection and

disconnection Fewer leak points, shorter assemblies, faster installations







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.

## **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 to the right.

C<sub>v</sub>=Average coefficient across various flow rates (see chart)  $\Delta P$ =Pressure drop across coupling (psi)

#### C<sub>v</sub> Values for 1/8" Flow PMC12 Couplings

PMC12 PMCD12 BODIES20042004	PMC12   2006	PMCD12 2006	PMC12 2202	PMCD12 2202	PMC12 2204	PMCD12 2204	PMC12 2402	PMCD12 2402	PMC12   2404	PMCD12 2404	PMC12 2602	PMC12 2304	PMC12 2104	PMCD12 2304	PMC12 2203	PMCD12 2203	PMC12   2201	PMCD12 2201	
PMC100212 .40	.18	.50	.19	.25	.16	.50	.19	.50	.20	.51	.19	.50	.50	.38	.24	.30	.17	.03	.03
PMCD100212 .27	.18	.31	.18	.24	.16	.28	.20	.26	.20	.29	.18	.26	.26	.27	.24	.25	.17	.03	.03
PMC100412 .40	.21	.50	.24	.26	.18	.50	.24	.50	.20	.51	.24	.50	.50	.38	.26	.30	.19	.03	.03
PMCD100412 .29	.19	.32	.23	.25	.17	.30	.23	.27	.21	.28	.23	.27	.28	.29	.24	.25	.18	.03	.03
PMC120412 .40	.18	.50	.18	.25	.16	.40	.18	.40	.16	.36	.18	.40	.40	.38	.21	.30	.17	.03	.03
PMCD120412 .21	.17	.22	.17	.20	.16	.22	.17	.21	.17	.20	.17	.21	.22	.21	.18	.21	.16	.03	.03
PMC160212 .23	.15	.28	.18	.19	.14	.27	.15	.27	.15	.28	.18	.27	.27	.23	.16	.20	.14	.03	.03
PMCD160212 .19	.15	.19	.15	.17	.14	.19	.15	.18	.15	.18	.15	.18	.19	.19	.15	.18	.14	.03	.03

# **DID YOU KNOW ...**

You can prevent misconnections and crossed lines to help protect people and equipment? One method of preventing tubing or line misconnection is by combining different sizes of standard couplings to make correct line connections obvious to users. The following guidelines can help:

- Use one APC coupling and one PLC coupling.
- Use one MC/PMC size and one LC/PLC size.
- Use one panel mount body and one panel mount insert
- Use Multi-Mount couplings (connect 3-5 lines simultaneously).





Colder thumb latch

Polypropylene material

000	PANEL	MAX. PANEL	MIN. PANEL
	OPENING	THICKNESS	THICKNESS
COUPLING BODIES	see drawing	.50	.05
COUPLING INSERTS	see drawing	.30	.06



PANEL **PANEL NUT THREAD NUT HEX** 1/2-24UNF

**SHUTOFF** 

SHUTOFF

PMCD100212

PMCD100412

PMCD120412

PMCD160112

PMCD160212

PMCD160412

PMCD130412

**SHUTOFF** 

PMCD100212BSPT

PMCD100412BSPT

.88

.88

.88

.88

.79

.88

.88

.88

.89

1.00

1.00

1.10

1.10

1.72

1.40

1.65

1.85

1.74

1.57

1.57

STRAIGHT THRU

PMC100212BSPT

PMC100412BSPT

STRAIGHT THRU

PMC100212

PMC100412

PMC120412

PMC160112

PMC160212

PMC160412

PMC130412

STRAIGHT THRU

# **Coupling Bodies**

# **POLYPROPYLENE**

B = Total Length (including valve)

D = Elbow Radial Length

0	
4	

TERN	<b>MINATION</b>
IN-LI	NE
PIPE	THREAD











1/16" ID

1/8" ID

1/4" ID

**TUBING SIZE** 

1/4" OD, .17" ID

















PMC12 SERIES



TERMINATION
IN-LINE
HOSE BARB







METRIC EO.

1.6mm ID

3.2mm ID

6.4mm ID

METRIC EQ.

6.4mm OD, 4.3mm ID

6.4mm OD, 4.3mm ID









PMCD18042812

**SHUTOFF** PMCD19042812

#### 1.42 .89 1.67 .89 .89 1.87

0.88

0.89

# PMC12 1/4-28 Coupling Bodies

# **POLYPROPYLENE**





TERMINATION
IN-LINE
WITH A 1/4-28 FLAT
BOTTOM PORT

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. †NOTE: Colder's Ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

.50 .80/1.47

**TERMINATION THREAD SIZE** PMC240212 IN-LINE 1/8" NPT PMCD240212 .58 1.03/1.45 PIPE THREAD STRAIGHT THRU **TERMINATION TUBING SIZE** SHUTOFF IN-LINE 1/4" OD, .17" ID 6.4mm OD, 4.3mm ID PMC200412 PMCD200412 1.15/1.58 **FERRULELESS** POLYTUBE

FITTING, PTF†

**TERMINATION** 

FITTING, PTF†

WITH A 1/4-28 **FLAT BOTTOM** 

IN-LINE

**TUBING SIZE** 

1/16" ID



**Coupling Inserts** 

HOSE BARB	1/8" ID 1/4" ID	3.2mm ID 6.4mm ID	PMC220212 PMC220412	PMCD220212 PMCD220412	.50 .50	1.05/1.67 1.20/1.71	
TERMINATION ELBOW FERRULELESS POLYTUBE	TUBING SIZE 5/32" OD, .10" ID 1/4" OD, .17" ID	METRIC EQ. 4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID	STRAIGHT THRU PMC2102512 PMC210412	SHUTOFF PMCD2102512 PMCD210412	A .50 .50	B 1.09/1.21 1.17/1.21	.77

STRAIGHT THRU

PMCD220112

PMC220112

METRIC EQ.

1.6mm ID



TERMINATION	<b>TUBING SIZE</b> 1/8" ID 1/4" ID	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B	D
ELBOW		3.2mm ID	PMC230212	PMCD230212	.50	1.09/1.21	.69
HOSE BARB		6.4mm ID	PMC230412	PMCD230412	.50	1.09/1.21	.90

# PMC12 1/4-28 Coupling Inserts

#### **TERMINATION** STRAIGHT THRU PMC24042812 PMCD24042812 .50 IN-LINE WITH 1/4-28 UNF THREADS **TERMINATION** SHUT PANEL MOUNT PMCI



TOFF D48042812	<b>A</b> .72	<b>B</b> 1.55	



TUBING SIZE 1/16" and 1.8mm 1/8" and 3mm 1/16" and 1.8mm	DESCRIPTION  1/4-28 Polypropylene Nut (natural)  1/4-28 Polypropylene Nut (natural)  1/4-28 Acetal Nut (black)	PART NUMBE 2418900 2419000 2419199 2419299
1/8" and 3mm	1/4-28 Acetal Nut (black)	2419299



Nuts

1/16" Ferrule, ETFE (blue) 2419300 1/8" Ferrule, ETFE (vellow) 2419400	
1/8"       Ferrule, ETFE (yellow)       2419400         1.8mm       Ferrule, ETFE (green)       2419500         3.0mm       Ferrule, ETFE (orange)       2419600	



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. †NOTE: Colder's Ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse. PTF fittings are designed for semirigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

Colder Products and CPC are registered trademarks with the US Patent & Trademark Office.

PMC12 SERIES



# Colder's MC Series chrome-plated brass

couplings are built tough and made to last in the most demanding applications. Ideal for use with higher temperatures or pressures, MC Series couplings feature one-hand operation for swift and easy connects and disconnects. These couplings offer the flexibility of multiple configurations and terminations and mate with both PMC acetal and PMC12 polypropylene couplings.

#### **Features**

Brass material

MC SERIES

High temperature capability Colder thumb latch Compatible

## Benefits

Durable and able to withstand higher pressure and temperature Versions rated to 400°F (204°C) One-hand connection and disconnection MC mates with PMC and PMC12 Series couplings

Note: High temperature versions available with ratings to 400° f

## **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 to the right.

Q=Flow rate in gallons per minute  $C_v$ =Average coefficient across various flow rates (see chart)  $\Delta P$ =Pressure drop across coupling (psi)

S=Specific gravity of liquid

## C, Values for 1/8" Flow MC Couplings

						•	_												
	MC12 2004	MCD12 2004	MC12 2006	MCD12 2006	MC12 2202	MCD12 2202	MC12 2204	MCD12 2204	MC12 2402	MCD12 2402	MC12 2404	MCD12 2404	MC12 2602	MC12 2304	MC12 2104	MCD12 2304	MC12 2203	MCD12 2203	
MC100212	.40	.18	.50	.19	.25	.16	.50	.19	.50	.20	.51	.19	.50	.50	.38	.24	.30	.17	
WICTOUZIZ	.10																		
MCD100212	.27	.18	.31	.18	.24	.16	.28	.20	.26	.20	.29	.18	.26	.26	.27	.24	.25	.17	
MC100412	.40	.21	.50	.24	.26	.18	.50	.24	.50	.20	.51	.24	.50	.50	.38	.26	.30	.19	
MCD100412	.29	.19	.32	.23	.25	.17	.30	.23	.27	.21	.28	.23	.27	.28	.29	.24	.25	.183	
MC120412	.40	.18	.50	.18	.25	.16	.40	.18	.40	.16	.36	.18	.40	.40	.38	.21	.30	.173	
MCD120412	.21	.17	.22	.17	.20	.16	.22	.17	.21	.17	.20	.17	.21	.22	.21	.18	.21	.16	
MC160212	.23	.15	.28	.18	.19	.14	.27	.15	.27	.15	.28	.18	.27	.27	.23	.16	.20	.14	

## **Specifications**

Pressure: Vacuum to 250 psi, 17.3 bar

#### **Temperature:**

-40°F to 180°F (-40°C to 82°C)

(High temperature versions available with ratings

#### **Materials:**

Main components: Chrome-plated brass

Thumb latch: Stainless steel

Valves: Acetal

Valve spring: 316 stainless steel

External springs and pin: Stainless steel

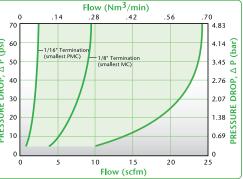
O-rings: Buna-N

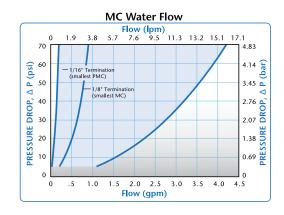
Finish: Chrome **Tubing Sizes:** 

1/8" to 1/4" ID, 3.2mm to 6.4mm 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

#### MC Air Flow, 100 psig Inlet Pressure





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.

**DID YOU KNOW ...** 

Colder's MC Series couplings are also available in keyed, color-coded versions? Specifically designed for applications requiring foolproof connections and non-interchangeable lines, these couplings are a durable and attractive solution for high-volume applications. **Contact Colder for more information.** 



# Nu-Seal™ **Specifications**

#### **Pressure:**

Vacuum to 20 psi, 1.4 bar

**Materials:** 

Main components: Low density polyethylene

Color:

Translucent

**Tubing Size:** 1/8" ID, 3.2mm ID

# Nu-Seal™ quick disconnect coupling

**inserts** feature a patented integral seal and are USP Class VI compliant. These economic inserts are ideal for applications that require limited connect/disconnect cycles.



## **Features**

Patented integral seal

Low density polyethylene Chemically resistant

Compatible

## Benefits

Economical, allows for disposability and provides leak-free connections Sterilizable by Et0, E-beam & gamma Works in many critical USP Class VI material applications Mates with MC, PMC, PMC12 couplings

# **Product Dimensions**

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

000	
COUPLING BODIES	
(except male thread)	
MALE THREAD	
COUPLING INSERTS	

	PANEL OPENING	MAX. PANEL THICKNESS	MIN. PANEL THICKNESS
d)	see drawing	.50	.05
	see drawing	.21	.05
S	see drawing	.30	.05



PANEL	PANEL
<b>NUT HEX</b>	NUT THREAD
5/8	1/2-24UNF

# **Coupling Bodies**

# **CHROME-PLATED BRASS**

D = Elbow Radial Length

	TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/8" NPT 1/8" BSPT 1/4" NPT 1/4" BSPT		STRAIGHT THRU MC1002 MC1002BSPT MC1004 MC1004BSPT	SHUTOFF MCD1002 MCD1002BSPT MCD1004 MCD1004BSPT	A .76 .76 .76 .76	B 1.00 1.00 1.10 1.10
OF FIFE	TERMINATION PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 5/32" OD, .10" ID 1/4" OD, .17" ID	METRIC EQ. 4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID	STRAIGHT THRU MC12025 MC1204	SHUTOFF MCD12025 MCD1204	A .76 .76	B 1.67 1.77

TRANS							
	TERMINATION PANEL MOUNT HOSE BARB	TUBING SIZE 1/8" ID 3/16" ID 1/4" ID	METRIC EQ. 3.2mm ID 4.8mm ID 6.4mm ID	STRAIGHT THRU MC1602 MC1603 MC1604	SHUTOFF MCD1602 MCD1603 MCD1604	A .76 .76 .76	B 1.67 1.89 1.89
	TERMINATION PANEL MOUNT FEMALE THREAD	THREAD SIZE 10-32 UNF		STRAIGHT THRU MC181032	SHUTOFF MCD181032	<b>A</b> .76	B 1.22

TERMINATION PANEL MOUNT MALE THREAD	THREAD SIZE 1/8" NPT		STRAIGHT THRU MC1502	SHUTOFF MCD1502	<b>A</b> .76	<b>B</b> 1.20
TERMINATION IN-LINE FERRULELESS	TUBING SIZE 1/4" OD, .17" ID	METRIC EQ. 6.4mm OD, 4.3mm ID	STRAIGHT THRU MC1304	SHUTOFF MCD1304	<b>A</b> .76	B 1.77

40							
ato 289							
Direction of the second	TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/8" ID 3/16" ID 1/4" ID	METRIC EQ. 3.2mm ID 4.8mm ID 6.4mm ID	STRAIGHT THRU MC1702 MC1703 MC1704	SHUTOFF MCD1702 MCD1703 MCD1704	A .76 .76 .76	B 1.67 1.89 1.89

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. †NOTE: Colder's Ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc. **NOTE**: Elbow configurations are available. Contact Colder for more information.

TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/8" NPT 1/8" BSPT 1/4" NPT		STRAIGHT THRU MC2402 MC2402BSPT MC2404	SHUTOFF MCD2402 MCD2402BSPT MCD2404	A .58 .58/.72 .65	B 1.03/1.43 1.03/1.43 1.08/1.43	non-valved spars
TERMINATION IN-LINE PIPE THREAD (FEMALE)	THREAD SIZE 1/8" NPT Female 1/4" NPT Female 1/4" BSPP Female		STRAIGHT THRU MC2602 MC2604 MC2604BSPP	SHUTOFF MCD2602 MCD2604 MCD2604BSPP	A .58 .72 .72	B .95/1.65 1.15/1.82 1.23/1.91	D
TERMINATION PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	<b>TUBING SIZE</b> 1/4" OD, .17" ID	METRIC EQ. 6.4mm OD, 4.3mm ID	STRAIGHT THRU MC4004	SHUTOFF MCD4004	<b>A</b> .72	B 1.75/1.85	a Million
TERMINATION PANEL MOUNT HOSE BARB	TUBING SIZE 1/8" ID 3/16" ID 1/4" ID	METRIC EQ. 3.2mm ID 4.8mm ID 6.4mm ID	STRAIGHT THRU MC4202 MC4203 MC4204	SHUTOFF MCD4202 MCD4203 MCD4204	A .72 .72 .72	B 1.65/1.75 1.87/1.97 1.87/1.97	and the same of th
TERMINATION IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 5/32" OD, .10" ID 1/4" OD, .17" ID 3/8" OD, .25" ID	METRIC EQ. 4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	STRAIGHT THRU MC20025 MC2004 MC2006	SHUTOFF MCD20025 MCD2004 MCD2006	A .58 .58 .58	B 1.13/1.53 1.15/1.55 1.30/1.50	ed to
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/8" ID 3/16" ID 1/4" ID	METRIC EQ. 3.2mm ID 4.8mm ID 6.4mm ID	STRAIGHT THRU MC2202 MC2203 MC2204	SHUTOFF MCD2202 MCD2203 MCD2204	A .58 .58 .58	B 1.05/1.65 1.25/1.85 1.25/1.67	
TERMINATION IN-LINE FEMALE THREAD	THREAD SIZE 10-32 UNF		STRAIGHT THRU MC281032	SHUTOFF MCD281032	<b>A</b> .58	B .63/1.30	
TERMINATION ELBOW FERRULELESS POLYTUBE FITTING, PTF†	<b>TUBING SIZE</b> 5/32" OD, .10" ID 1/4" OD, .17" ID	METRIC EQ. 4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID	STRAIGHT THRU MC21025 MC2104	SHUTOFF MCD21025 MCD2104	A .63 .63	B D 1.18/1.28 .81 1.18/1.28 .83	
TERMINATION ELBOW HOSE BARB	<b>TUBING SIZE</b> 1/8" ID 1/4" ID	METRIC EQ. 3.2mm ID 6.4mm ID	STRAIGHT THRU MC2302 MC2304	SHUTOFF MCD2302 MCD2304	A .62 .63	B D 1.18/1.28 .76 1.18/1.28 .76	
Also available in							

# **POLYETHYLENE**

**TERMINATION** TUBING SIZE METRIC EO. PART NO. IN-LINE 1/8" ID 3.2 mm ID DSM2202 .50 **HOSE BARB** 

Coupling bodies must have integral terminations to be compatible.



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. †NOTE: Colder's Ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc. NOTE: Elbow configurations are available. Contact Colder for more information.



MC SERIES

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

POLYTUBE FITTING,

PTF†

OPENING see drawing

MAX. PANEL THICKNESS .30

**Product Dimensions** 

**Coupling Bodies** 

# **POLYPROPYL**



A = Height/Diamete

B = Total Length

IN-LINE

HOSE BARB

PANEL MOUNT

REPLACEMENT

**GASKET** 

1/4" ID

# **Coupling Inserts**



3.2mm ID

6.4mm ID

For sealing panel mount bodies listed above



1.52





All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc. †NOTE: Colder's Ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse

# **Specifications**

Pressure: Vacuum to 45 psi, 3.1 bar

Temperature: 32°F to 120°F (0°C to 49°C)

#### **Materials:**

Main components and valves: Glass-filled polypropylene

Valve spring: 316 stainless steel

Seal material: EPDM (FKM/Simriz® FFKM optional)

**Color:** Gray with black accent standard

#### **Tubing Sizes:**

1/8" and 1/4" ID, 3.2mm and 6.4mm ID

Spillage: <0.025 cc/disconnect

Inclusion: 0.009 cc/connect

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

The new NS212

compatibility

information.

NS212 Series couplings were built on the company's proven platform of non-spill valves designed to provide fast, safe and virtually leak-free fluid line connections. The NS212 is an easy, twist-to-connect coupling with an integrated locking mechanism and double-sided non-spill shutoff valves. It is also chemically resistant and ideal for a diverse range of applications including printing and ink management, analytical instrumentation, electronic cooling and chemical handling. NS212 couplings provide high-flow fluid transfer in a small footprint.

#### **Features**

Efficient, non-spill design Multiple seal materials

Twist-to-connect locking

Compact design Ultra low air inclusion

#### Benefits

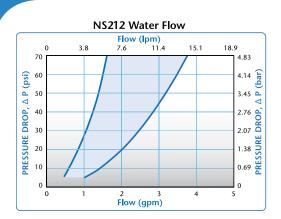
Disconnect under pressure with no spills Broad chemical compatibility for diverse applications

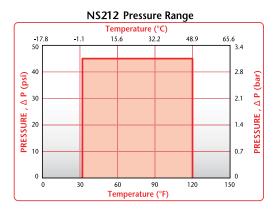
Easy, non-spill connections in tight

High flow in a small connector

need to purge lines

does not mate with the original NSZ parts. Contact Colder for additional Minimizes contaminants, reduces the





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.

NS2D220412 .64

worldwide in thousands of applications and offers the widest selection of sizes and configurations. PLC couplings are injection molded from acetal thermoplastic and are resistant to most mild chemical solutions. One-hand connection/disconnection, plus integral terminations make the PLC Series the choice for ease of use and manufacture.

The PLC Series is also available with optional RFID (Radio Frequency Identification) capability.

## **Features**

PLC SERIES

30

Colder thumb latch Integral terminations

Clicks when connected Compatible

#### **Benefits**

One-hand connection and disconnection Fewer leak points, shorter assemblies, faster installations

Assurance of a reliable connection Mates with LC Series couplings

**Specifications** 

Pressure: Vacuum to 120 psi, 8.3 bar

**Temperature:** 

-40°F to 180°(-40°C to 82°C)

#### **Materials:**

Main components and valves: Acetal

Thumb latch: Stainless steel Valve spring: 316 stainless steel

External springs and pin: Stainless steel

O-rings: Buna-N

Color: Natural white, others available

#### **Tubing Sizes:**

1/4" to 3/8" ID, 6.4mm to 9.5mm ID

#### JG® Tubing Specifications:

Tube tolerances: 1/4" OD, +0.001/-0.004 | 3/8" OD, +0.001/-0.004 Tube Types: Plastic tube: Polyethylene, nylon, polyurethane. For soft or thin wall tubing with JG® terminations, tube supports are recommended Metal tube: Brass, copper and mild steel

> Also available in NSF listed versions, please visit our web site for part number information

# **Liquid Flow Rates**

#### **Liquid Flow Rate Information for Couplings**

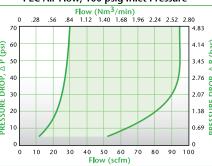
The chart below shows the flow rate for Colder couplings. Each coupling was tested with water at 70°F (21°C). To determine flow rates for specific coupling configurations use the formula to the right.

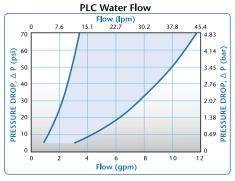
Q=Flow rate in gallons per minute  $C_{\nu}$ =Average coefficient across various flow rates (see chart)  $\Delta$ P=Pressure drop across coupling (psi) S=Specific gravity of liquid

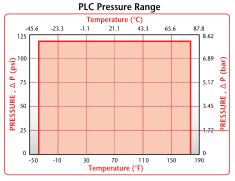
## C<sub>v</sub> Values for 1/4" Flow PLC Couplings

PLC	PLCD	PLC	PLCD	PLC	PLCD	PLC	PLCD	PLC	PLCD	PLC	PLCD	PLC	
BODIES	20004	20004	20006	20006	22004	22004	22006	22006	24004	24004	24006	24006	26004
PLC10004	.40	.36	1.05	.58	.83	.56	1.40	.82	1.40	.75	1.40	.77	.83
PLCD1000	4 .36	.31	.73	.48	.66	.41	.82	.50	.80	.45	.77	.45	.81
PLC10006	.40	.36	1.05	.60	.83	.56	1.40	.81	1.40	.76	1.40	.76	.83
PLCD1000	5 .37	.31	.81	.47	.70	.43	1.02	.51	.98	.46	.99	.48	.98
PLC12006	.38	.36	.84	.63	.74	.56	1.14	.75	1.14	.70	1.14	.72	.74
PLCD12006	.38	.33	.78	.49	.68	.44	.84	.49	.81	.43	.82	.44	.81
PLC16004	.38	.37	.87	.54	.95	.51	1.00	.70	.95	.64	1.00	.66	.95
PLCD16004	1 .37	.31	.61	.44	.57	.41	.78	.44	.78	.43	.75	.46	.78
PLC16006	.38	.37	1.00	.57	.95	.53	1.40	.80	1.40	.71	1.40	.73	1.40
PLCD16006	.38	.32	.71	.49	.63	.42	.89	.51	.96	.45	.92	.49	.97

#### PLC Air Flow, 100 psig Inlet Pressure







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.

## The IdentiQuik® Series of

smart couplings are RFID enabled couplings used on equipment and in processes. RFID is an identification method that relies on remotely writing and reading data. Smart coupling applications include: inventory level meters, surgical tool identification, product protection and many more.

# SMART COUPLINGS WITH RFID

## **IdentiOuik PLC Series**

(( Identify misconnections: eliminate out-of-sequence connections or misconnections due to operator error

(( Protect your brand: prevent out-of-date, incorrect or misapplied products from being used

((( Prolong equipment life: prevent the accidental or unintentional use of harmful media

(( Save time: automatic documentation of package and media lot numbers, date codes and more

# **RFID**

# **Specifications**

#### **RF Communication** Range:

Approximately 1"

#### **Operating** Voltage:

8-24V standard

#### **Power Consumption:**

1.2W Maximum

## **Communication:**

ASCII RS-232 (DB-9), USB

## **I-Code RFID Tags:**

13.56 MHz ISO-15693 - 112 bytes programmable

NOTE: RFID tags not approved for e-beam or gamma

#### **Operating Temperature:** 32°F to 150°F (0°C to 66°C)

Materials are listed on page 30. Customized parts (materials, voltage, termination, cable length, etc.) available. Call for more information.

# **Coupling Readers**

Patented



N	TUBING SIZE	METRIC EC
	1/4" ID	6.4mm ID
	3/8" ID	9.5mm ID

**Product Dimensions (See drawing on page 32)** 

iPLCDR1700403 1.39 2.77 iPLCDR1700603 1.39 2.76

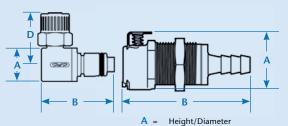
# **Coupling Inserts**



HOSE BARB	3/8" ID	9.5mm ID	iPLCT2200603	iPLCDT2200603	1.05	1.73/1.86	
TERMINATION ELBOW HOSE BARB	TUBING SIZE 1/4" ID 3/8" ID		STRAIGHT THRU iPLCT2300403 iPLCT2300603	SHUTOFF iPLCDT2300403 iPLCDT2300403	1.48	1.27/1.40	

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters NOTE: I-Code SL1 tags are available for existing applications, contact the factory for assistance.

Don't forget: you can always visit <u>www.colder.com</u> for more product information.



- **B** = Total Length (including valve) D = Elbow Radial Length

Ø .688" +.010 000	

COUPLING BODIES

PANEL OPENING	MAX. PANEL THICKNESS	MIN. PANEL THICKNESS
see drawing	.50	.05
see drawing	.30	.05

COUPLING INSERTS

PANEL

13/16

**NUT HEX** 

STRAIGHT THRU

PLC10004BSPT

PLC10006BSPT

**STRAIGHT THRU** 

**STRAIGHT THRU** 

STRAIGHT THRU

STRAIGHT THRU

STRAIGHT THRU

PLC10004

PLC10006

PLC12004

PLC120M8

PLC12006

PLC16004

PLC16005

PLC16006

PLC11004

PLC13004

PLC130M8

PLC13006

PLC17004

PLC17005

PLC17006

PLC130M10

PLC120M10

PANEL **NUT THREAD** 11/16-24UNEF

**SHUTOFF** 

PLCD10004

PLCD10006

**SHUTOFF** 

PLCD12004

PLCD120M8

PLCD12006

**SHUTOFF** 

PLCD16004

PLCD16005

PLCD16006

**SHUTOFF** 

**SHUTOFF** 

PLCD13004

PLCD130M8

PLCD13006

**SHUTOFF** 

PLCD17004

PLCD17005

PLCD17006

PLCD130M10

PLCD11004

PLCD120M10

PLCD10004BSPT

PLCD10006BSPT

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1.17

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1.87

1.95

1.95

1.95

1.95

1.95

1.95

В

1.95

1.82

1.95

1.95

1.95

1.95

1.95

2.09

1.80 /1.95

1.80 /1.95

# **Coupling Bodies**

# **ACETAL**

C	IN-LINE PIPE THREA
OF.	TERMINAT PANEL MOU FERRULELES POLYTUBE FITTING, PT

PLC SERIES

UNT SS

TF†

1/4" OD, .17" ID

3/8" OD, .25" ID

**TUBING SIZE** 

**TUBING SIZE** 

**TUBING SIZE** 

1/4" OD, .17" ID

3/8" OD, .25" ID

**TUBING SIZE** 

1/4" ID

3/8" ID

5/16" ID

1/4" ID

5/16" ID

3/8" ID

1/4" OD

**THREAD SIZE** 

TERMINATION PANEL MOUNT

**TERMINATION** 



PANEL MOUNT JG® PUSH-TO-CONNECT

IN-LINE **FERRULELESS POLYTUBE** 

is a registered trademark of John Guest USA, Inc.







32

TERMINATION IN-LINE PIPE THREAD	

































METRIC EQ.

METRIC EQ.

6.4mm ID

7.9mm ID

9.5mm ID

METRIC EO.

6.4mm OD

METRIC EQ.

METRIC EQ.

6.4mm ID

7.9mm ID

9.5mm ID

6.4mm OD, 4.3mm ID

8.0mm OD, 6.0mm ID

9.5mm OD, 6.4mm ID

10.0mm OD, 8.0mm ID

6.4mm OD, 4.3mm ID

8.0mm OD, 6.0mm ID

9.5mm OD, 6.4mm ID

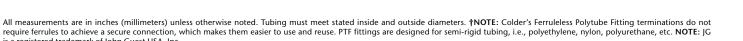
10.0mm OD, 8.0mm ID











**Coupling Inserts** 

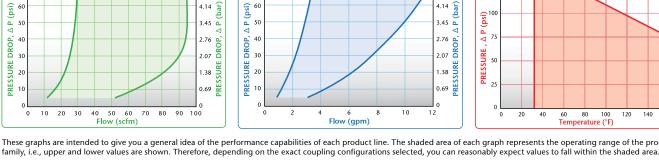
TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT		STRAIGHT THRU PLC24004 PLC24004BSPT PLC24006 PLC24006BSPT	SHUTOFF PLCD24004 PLCD24004BSPT PLCD24006 PLCD24006BSPT	A .72 .72 .87 .87	B 1.25/1.66 1.53/1.66 1.25/1.63 1.51/1.63		
TERMINATION PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID 3/8" OD, .25" ID	METRIC EQ. 6.4mm OD, 4.3mm ID 8.0mm OD, 6.0mm ID 9.5mm OD, 6.4mm ID 10.0mm OD, 8.0mm ID	STRAIGHT THRU PLC40004 PLC400M8 PLC40006 PLC400M10	SHUTOFF PLCD40004 PLCD400M8 PLCD40006 PLCD400M10	A .94 .94 .94 .94	B 1.78/1.91 1.91/2.03 1.91/2.05 1.91/2.05		
TERMINATION PANEL MOUNT HOSE BARB	TUBING SIZE 1/4" ID 5/16" ID 3/8" ID	METRIC EQ. 6.4mm ID 7.9mm ID 9.5mm ID	STRAIGHT THRU PLC42004 PLC42005 PLC42006	SHUTOFF PLCD42004 PLCD42005 PLCD42006	A .94 .94 .94	B 1.91/2.05 1.91/2.05 1.91/2.05		
TERMINATION PANEL MOUNT JG® PUSH-TO- CONNECT	TUBING SIZE 1/4" OD	METRIC EQ. 6.4mm OD	STRAIGHT THRU PLC41004	SHUTOFF PLCD41004	<b>A</b> .94	B 1.91/2.05		
TERMINATION IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID 3/8" OD, .25" ID	METRIC EQ. 6.4mm OD, 4.3mm ID 8.0mm OD, 6.0mm ID 9.5mm OD, 6.4mm ID 10.0mm OD, 8.0mm ID	STRAIGHT THRU PLC20004 PLC200M8 PLC20006 PLC200M10	SHUTOFF PLCD20004 PLCD200M8 PLCD20006 PLCD200M10	A .72 .72 .72 .72	B 1.25/1.88 1.38/1.82 1.38/1.82 1.38/1.82		non.valved.you
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/4" ID 5/16" ID 3/8" ID	METRIC EQ. 6.4mm ID 7.9mm ID 9.5mm ID	STRAIGHT THRU PLC22004 PLC22005 PLC22006	SHUTOFF PLCD22004 PLCD22005 PLCD22006	A .62 .62 .62	B 1.35/1.99 1.35/1.99 1.36/1.81		
TERMINATION IN-LINE JG® PUSH-TO- CONNECT	<b>TUBING SIZE</b> 1/4" OD 3/8" OD	METRIC EQ. 6.4mm OD 9.5mm OD	STRAIGHT THRU PLC29004 PLC29006	SHUTOFF PLCD29004 PLCD29006	A .63 .78	B 1.35/1.95 1.51/2.11		
TERMINATION ELBOW FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 3/8" OD, .25" ID	METRIC EQ. 9.5mm OD, 6.4mm ID	STRAIGHT THRU PLC21006	SHUTOFF PLCD21006	A .61/.62	B 1.22/1.35	D .85/.96	
TERMINATION ELBOW HOSE BARB	TUBING SIZE 1/4" ID 3/8" ID	METRIC EQ. 6.4mm ID 9.5mm ID	STRAIGHT THRU PLC23004 PLC23006	SHUTOFF PLCD23004 PLCD23006		B 1.10/1.28 1.25/1.28		non-valved shouth

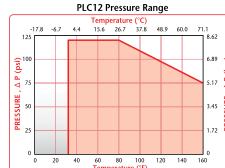
## **DID YOU KNOW ...**



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. †NOTE: Colder's Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc. NOTE: JG is a registered trademark of John Guest USA, Inc.

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





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

**PLC12 Water Flow** 

Flow (lpm) 22.7 30.2 37.8 45.4

## **Materials:**

Main components and valves:

Pressure: Vacuum to 120 psi, 8.3 bar

Polypropylene

**Temperature:** 

**Specifications** 

Thumb latch: Stainless steel Valve spring: 316 stainless steel

32°F to 160°F (0°C to 71°C)

External springs and pin: Stainless steel

O-rings: EPDM

#### **Sterilization:**

Gamma: Up to 50 kGy irradiation

#### Color: Almond

## **Tubing Sizes:**

1/4" to 3/8" ID, 6.4mm 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. Use the graph at the right as a guide.

# The 1/4" flow polypropylene PLC12

offers many of the same configuration options as the PLC. The polypropylene material adds greater chemical resistance for more demanding applications. PLC12 couplings are also gamma sterilizable.

#### **Features**

Polypropylene material **EPDM** o-rings Colder thumb latch Integral terminations

#### Benefits

Chemically resistant and gamma sterilizable Greater chemical resistance

One-hand connection and disconnection

Fewer leak points, shorter assemblies, faster installations

# **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 to the right.

Q=Flow rate in gallons per minute  $C_v$ =Average coefficient across various flow rates (see chart)  $\Delta P$ =Pressure drop across coupling (psi)

# C, Values for 1/4" Flow PLC12 Couplings

PLC	PLCD	PLC	PLCD	PLC	PLCD	PLC	PLCD	PLC	PLCD	PLC	PLCD	PLC	
BODIES	20004	20004	20006	20006	22004	22004	22006	22006	24004	24004	24006	24006	26004
PLC10004	112 .40	.36	1.05	.58	.83	.56	1.40	.82	1.40	.75	1.40	.77	.83
PLCD1000	0412 .36	.31	.73	.48	.66	.41	.82	.50	.80	.45	.77	.45	.81
PLC10006	512 .40	.36	1.05	.60	.83	.56	1.40	.81	1.40	.76	1.40	.76	.83
PLCD1000	0612 .37	.31	.81	.47	.70	.43	1.02	.51	.98	.46	.99	.48	.98
PLC12006	.38	.36	.84	.63	.74	.56	1.14	.75	1.14	.70	1.14	.72	.74
PLCD1200	0612 .38	.33	.78	.49	.68	.44	.84	.49	.81	.43	.82	.44	.81
PLC16004	12 .38	.37	.87	.54	.95	.51	1.00	.70	.95	.64	1.00	.66	.95
PLCD1600	)412 .37	.31	.61	.44	.57	.41	.78	.44	.78	.43	.75	.46	.78
PLC16006	.38	.37	1.00	.57	.95	.53	1.40	.80	1.40	.71	1.40	.73	1.40
PLCD1600	0612 .38	.32	.71	.49	.63	.42	.89	.51	.96	.45	.92	.49	.97

# **SMART COUPLINGS WITH RFID**

# **IdentiQuik PLC Series**

(( Identify misconnections: eliminate out-of-sequence connections or misconnections due to operator error

(( Protect your brand: prevent out-of-date, incorrect or misapplied products from being used

((( Prolong equipment life: prevent the accidental or unintentional use of harmful media

(( Save time: automatic documentation of package and media lot numbers, date codes and more

## **RFID Specifications**

PLC12 Air Flow, 100 psig Inlet Pressure

40 50 60 70 80 90 100

The IdentiQuik® Series of

relies on remotely writing and reading

smart couplings are RFID enabled couplings used on equipment and in processes. RFID

is an automatic identification method that

data. Smart coupling applications include:

inventory level meters, medical equipment

calibration, product protection, and many

Patented

#### **RF Communication** Range:

Approximately 1"

#### **Operating Voltage:**

8-24V standard

#### Power **Consumption:**

1.2W Maximum

#### **Communication:**

ASCII RS-232 (DB-9), USB

#### **I-Code RFID Tags:**

13.56 MHz ISO-15693 - 112 bytes programmable

NOTE: RFID tags not approved for e-beam or gamma sterilization.

#### **Operating Temperature:** 32°F to 150°F (0°C to 65°C)

Materials are listed on page 34. Customized parts (materials, voltage, termination, cable length, etc.) available. Call for more information

# **Coupling Readers**

**Product Dimensions** (See drawing on page 36) iPLCDR1700400 1.39 2.78 1/4" ID 6.4mm ID **HOSE BARB** 3/8" ID iPLCDR1700600 1.39 2.78

# **Coupling Inserts**

#### 1/4" ID 6.4mm ID iPLCT2200400 iPLCDT2200400 1.00 1.38/2.05 **IN-LINE** 1.05 1.74/1.87 HOSF BARB 3/8" ID 9.5mm ID iPLCT2200600 iPLCDT2200600 iPLCDT2300400 1.48 1.27/1.40 **ELBOW** 1/4" ID 6.4mm ID iPLCT2300400 3/8" ID 9.5mm ID iPLCT2300600 iPLCDT2300600 1.48 1.33/1.46

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters NOTE: I-Code SL1 tags are available for existing applications, contact the factory for assistance.

- **B** = Total Length (including valve)



MAX. PANEL MIN. PANEL PANEL **OPENING** THICKNESS THICKNESS **COUPLING BODIES** see drawing .30 .02 **COUPLING INSERTS** see drawing .30 .02



**PANEL** PANEL **NUT HEX NUT THREAD** 11/16-24UNEF 13/16

D = Elbow Radial Length

# **Coupling Bodies**

# **POLYPROPYLENE**



IN-LINE PIPE THREAD

TERMINATION

PANEL MOUNT

**FERRULELESS POLYTUBE** 

FITTING, PTF†

**THREAD SIZE** 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT

**TUBING SIZE** 3/8" OD, 1/4" ID

METRIC EQ.

METRIC EQ.

6.4mm ID

9.5mm ID

METRIC EQ.

9.5mm OD, 6.4mm ID

9.5mm OD, 6.4mm ID

STRAIGHT THRU PLC1200612

PLC1000412

PLC1000612

PLC1000412BSPT

PLC1000612BSPT

STRAIGHT THRU

**STRAIGHT THRU** 

STRAIGHT THRU

PLC1700412

PLC1700612

PLC1600412

PLC1600612

PLC1300612

SHUTOFF PLCD1200612

PLCD1000412

PLCD1000612

PLCD1600412

PLCD1600612

PLCD1300612

PLCD1700412

PLCD1700612

PLCD17040612

PLCD17060812

**SHUTOFF** 

PLCD1000612BSPT

1.00 1.95

PLCD1000412BSPT 1.00 1.15

1.00 1.15

1.00 1.15

1.00 1.15

1.00 1.95

1.00 1.95

1.02 1.96

1.02 1.96

1.02 1.96

1.02 2.20

1.02 2.36

















MINATION	TUBING SIZE
EL MOUNT	1/4" ID
E BARB	3/8" ID
MINATION NE ULELESS TUBE NG, PTF†	TUBING SIZE 3/8" OD, 1/4" ID









PLC12 Couplings are gamma sterilizable; see page 131 for more information on sterilization and disinfection.

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. **tNOTE**: Colder's Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

**Coupling Inserts** 

**POLYPROPYLENE** 

TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/4" NPT		PLC2400412	SHUTOFF PLCD2400412	A .72	B 1.26/1.67
TERMINATION	TUBING SIZE	METRIC EQ.	<b>STRAIGHT THRU</b> PLC4200412 PLC4200612	SHUTOFF	A	B
PANEL MOUNT	1/4" ID	6.4mm ID		PLCD4200412	.94	1.91/2.05
HOSE BARB	3/8" ID	9.5mm ID		PLCD4200612	.94	1.91/2.05





TERMINATION IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	<b>A</b>	B
	3/8" OD, 1/4" ID	9.5mm OD, 6.4mm ID	PLC2000612	PLCD2000612	.72	1.68/1.82



TERMINATION	<b>TUBING SIZE</b>	METRIC EQ.	STRAIGHT THRU	SHUTOFF	Α	В
IN-LINE	1/4" ID	6.4mm ID	PLC2200412	PLCD2200412	.63	1.35/2.00
HOSE BARB	3/8" ID	9.5mm ID	PLC2200612	PLCD2200612	.63	1.35/1.82



TERMINATION IN-LINE SOFTUBE™ FITTING	 METRIC EQ. 9.5mm OD, 6.4mm ID 12.7mm OD, 9.5mm ID	F	SHUTOFF PLCD22040612 PLCD22060812	 B 2.23 2.18



TERMINATION ELBOW FERRULELESS POLYTUBE	TUBING SIZE 3/8" OD, 1/4" ID	METRIC EQ. 9.5mm OD, 6.4mm ID	STRAIGHT THRU PLC2100612	SHUTOFF PLCD2100612	**	B 1.29/1.36	<b>D</b> .95
FITTING, PTF†							



TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A .63 .63	B
ELBOW	1/4" ID	6.4mm ID	PLC2300412	PLCD2300412		1.22/1.36
HOSE BARB	3/8" ID	9.5mm ID	PLC2300612	PLCD2300612		1.28/1.42



PLC12 SERIES

# **DID YOU KNOW ...**

Many of Colder's general purpose couplings and fittings can be used across a wide variety of markets and applications?

Quick tip: use the Chemical Compatibility Table at www.colder.com to help determine which product is best for your fluid handling application.

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. †NOTE: Colder's Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

PLC12 SERIES

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



Pressure: Vacuum to 250 psi, 17.3 bar

#### **Temperature:**

-40°F to 180°F (-40°C to 82°C)

(High temperature versions available with ratings to 400°F)

#### **Materials:**

Main components: Chrome-plated brass

Thumb latch: Stainless steel

Valves: Acetal

Valve springs: 316 stainless steel

External springs and pin: Stainless steel

O-rings: Buna-N

Finish: Chrome

#### **Tubing Sizes:**

1/4" to 3/8" ID, 6.4mm 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

available with

#### Colder's LC Series chrome-plated brass couplings are built tough and made to last in the most demanding applications. Ideal for use with higher temperature or pressure, the LC Series features a one-hand operation for swift and easy connects and disconnects. These couplings offer the flexibility of multiple configurations and terminations to mate with both the PLC acetal and PLC12 polypropylene couplings.

#### **Features**

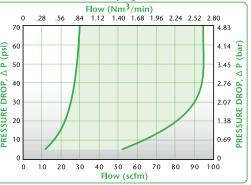
Brass material

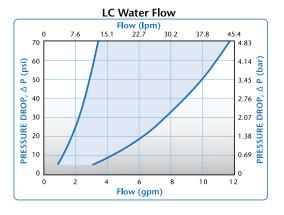
Chrome plating High temperature capability Colder thumb latch Compatible

#### **Benefits**

**Durable construction withstands** higher pressure and temperature Attractive appearance Versions rated to 400°F (204°C) One-hand connection and disconnection LC mates with PLC Series couplings

#### LC Air Flow, 100 psig Inlet Pressure





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.

#### **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 to the right.

Q=Flow rate in gallons per minute
C,=Average coefficient across various flow rates (see chart)  $\Delta P$ =Pressure drop across coupling (psi)

#### C<sub>v</sub> Values for 1/4" Flow LC Couplings

	LC	LCD	LC										
BODIES	20004	20004	20006	20006	22004	22004	22006	22006	24004	24004	24006	24006	26004
LC10004	.40	.36	1.05	.58	.83	.56	1.40	.82	1.40	.75	1.40	.77	.83
LCD10004	.36	.31	.73	.48	.66	.41	.82	.50	.80	.45	.77	.45	.81
LC10006	.40	.36	1.05	.60	.83	.56	1.40	.81	1.40	.76	1.40	.76	.83
LCD10006	.37	.31	.81	.47	.70	.43	1.02	.51	.98	.46	.99	.48	.98
LC12006	.38	.36	.84	.63	.74	.56	1.14	.75	1.14	.70	1.14	.72	.74
LCD12006	.38	.33	.78	.49	.68	.44	.84	.49	.81	.43	.82	.44	.81
LC16004	.38	.37	.87	.54	.95	.51	1.00	.70	.95	.64	1.00	.66	.95
LCD16004	.37	.31	.61	.44	.57	.41	.78	.44	.78	.43	.75	.46	.78
LC16006	.38	.37	1.00	.57	.95	.53	1.40	.80	1.40	.71	1.40	.73	1.40
LCD16006	.38	.32	.71	.49	.63	.42	.89	.51	.96	.45	.92	.49	.97

#### **DID YOU KNOW ...**

O-ring selection is a key decision when determining which connector will perform best in your specific application. It's important that you understand the material characteristics and how they can be affected by both the media being transferred and the environment in which the connector is being used:

Buna-N is the most common o-ring seal due to its solvent, oil and water resistance. Temperature range of -30°to 250°F.

FKM is best suited for applications where chemical resistance and/or high temperatures are a requirement. The temperature range is -15° to 400° F.

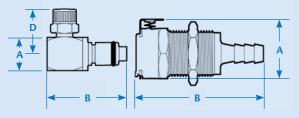
**EPDM** has excellent resistance to polar solvents. This o-ring is not compatible with petroleum. The temperature range is -70° to 300° F.

Food-grade material is used when food is being transferred through the connector.

Silicone seals have good temperature resistance. The temperature range is -70° to 400° and with special compounds can reach 175° to 450° F. Silicone can also be supplied with Class VI requirements for medical/ bioprocessing applications.

For further information about which o-ring material is best for your application please contact Customer Service at 1-800-444-2474 or 651-645-0091.

## **Product Dimensions**



B = Total Length (including valve)

D = Elbow Radial Length

MAX. PANEL MIN. PANEL **OPENING** THICKNESS THICKNESS **COUPLING BODIES** .50 .05 see drawing **COUPLING INSERTS** see drawing .090 .300

**NUT HEX** 

**NUT THREAD** 11/16-24 UNF

# **Coupling Bodies**

# CHROME-DI ATED RRACC

	CHKUIVI	C-PLAID	:U BKAS:				
	TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT		STRAIGHT THRU LC10004 LC10004BSPT LC10006 LC10006BSPT	SHUTOFF LCD10004 LCD10004BSPT LCD10006 LCD10006BSPT	A .88 .88 .88	B 1.15 1.15 1.15 1.15
P. Par	TERMINATION PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID 3/8" OD, .25" ID	METRIC EQ. 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	STRAIGHT THRU LC12004 LC12006	SHUTOFF LCD12004 LCD12006	A .88 .88	B 1.87 2.00
D-HARA	TERMINATION PANEL MOUNT HOSE BARB	TUBING SIZE 1/4" ID 5/16" ID 3/8" ID	METRIC EQ. 6.4mm ID 7.9mm ID 9.5mm ID	STRAIGHT THRU LC16004 LC16005 LC16006	SHUTOFF LCD16004 LCD16005 LCD16006	A .88 .88 .88	B 2.00 2.00 2.00
O PAR	TERMINATION PANEL MOUNT MALE THREAD	THREAD SIZE 1/4" NPT		STRAIGHT THRU LC15004	SHUTOFF LCD15004	<b>A</b> .88	B 1.50
	TERMINATION IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID 3/8" OD, .25" ID	METRIC EQ. 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	STRAIGHT THRU LC13004 LC13006	SHUTOFF LCD13004 LCD13006	A .88 .88	B 1.87 2.00
The same	TERMINATION IN-LINE HOSE BARB	<b>TUBING SIZE</b> 1/4" ID 5/16" ID	METRIC EQ. 6.4mm ID 7.9mm ID	STRAIGHT THRU LC17004 LC17005	SHUTOFF LCD17004 LCD17005	A .88 .88	B 2.00 2.00

Also available in NSF listed versions, please visit our web site for part number information

LC17006

LCD17006

.88

2.00

9.5mm ID

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. †NOTE: Colder's Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

# **Coupling Inserts**

# **CHROME-PLATED BRASS**

TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT		STRAIGHT THRU LC24004 LC24004BSPT LC24006 LC24006BSPT	SHUTOFF LCD24004 LCD24004BSPT LCD24006 LCD24006BSPT	.87	B 1.25/1.68 1.25/1.68 1.25/1.55 1.25/1.55	
TERMINATION IN-LINE PIPE THREAD (FEMALE)	THREAD SIZE 1/4" NPT Female 1/4" BSPP Female		STRAIGHT THRU LC26004 LC26004BSPP	SHUTOFF LCD26004 LCD26004BSPP	A .72 .72	B 1.25/1.90 1.25/1.75	
TERMINATION PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID 3/8" OD, .25" ID	METRIC EQ. 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	STRAIGHT THRU LC40004 LC40006	SHUTOFF LCD40004 LCD40006	<b>A</b> .94 .94	B 1.83/1.98 1.96/2.11	O BOOK
TERMINATION PANEL MOUNT HOSE BARB	TUBING SIZE 1/4" ID 5/16" ID 3/8" ID	METRIC EQ. 6.4mm ID 7.9mm ID 9.5mm ID	STRAIGHT THRU LC42004 LC42005 LC42006	SHUTOFF LCD42004 LCD42005 LCD42006	A .94 .94 .94	B 1.96/2.11 1.96/2.11 1.96/2.11	
TERMINATION IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID 3/8" OD, .25" ID	METRIC EQ. 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	STRAIGHT THRU LC20004 LC20006	SHUTOFF LCD20004 LCD20006	A .72 .72	B 1.25/1.87 1.38/1.83	OFTO
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/4" ID 5/16" ID 3/8" ID	METRIC EQ. 6.4mm ID 7.9mm ID 9.5mm ID	STRAIGHT THRU LC22004 LC22005 LC22006	SHUTOFF LCD22004 LCD22005 LCD22006	A .63 .63	B 1.35/2.00 1.35/1.85 1.35/1.83	
TERMINATION ELBOW FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID 3/8" OD, .25" ID	METRIC EQ. 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	STRAIGHT THRU LC21004 LC21006	SHUTOFF LCD21004 LCD21006	A .63 .63	B D 1.28/1.43 .96 1.28/1.43 .83	
TERMINATION ELBOW HOSE BARB	TUBING SIZE 1/4" ID 3/8" ID	METRIC EQ. 6.4mm ID 9.5mm ID	STRAIGHT THRU LC23004 LC23006	SHUTOFF LCD23004 LCD23006		B D 1.28/1.43 1.28 1.28/1.43 1.28	

DID YOU KNOW ...

LC Series couplings can mate with PLC and PLC12 plastic couplings? See pages 30-37 for more information.



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. †NOTE: Colder's Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

LC SERIES

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

3/8" ID



Pressure: Vacuum to 120 psi, 8.3 bar

#### **Temperature:**

-40°F to 180°F (-40°C to 82°C)

#### **Materials:**

Main components and valves: Acetal

Thumb latch: Acetal

Valve spring: 316 stainless steel External spring: 302 stainless steel

O-rings: Buna-N

#### **Color:**

Natural white with light gray latch

#### **Tubing Sizes:**

1/4" to 3/8" ID, 6.4mm 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 products in their own application

> Also available in NSF listed versions, please visit our web site for part number information NSF

The 1/4" flow APC Series couplings feature a plastic thumb latch, fewer moving parts and a smooth contoured design to deliver ease-of-use and excellent flow in a compact size. The patented APC Series has been expanded to include couplings with valves and thumb latch shrouds. A more rugged design on some models adds durability to increase the APC's application range.

#### **Features**

Plastic thumb latch Shrouded thumb latch

Integral terminations

Compatibility

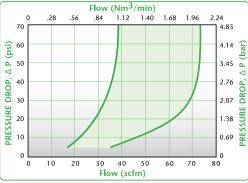
#### Benefits

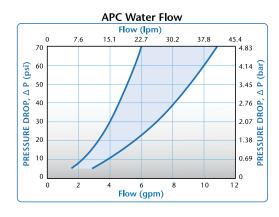
No exposed metal parts Protects against accidental disconnects

Fewer leak points, shorter assemblies, faster installations

Mates with most EFC couplings

#### APC Air Flow, 100 psig Inlet Pressure





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.

#### **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 to the right.

Q=Flow rate in gallons per minute  $C_v$ =Average coefficient across various flow rates (see chart)

 $\Delta P = Pressure drop across coupling (psi)$ S=Specific gravity of liquid

#### C, Values for APC Couplings

BODIES	APC 20004	APCD 20004	APC 20006	APCD 20006	APC 22004	APCD 22004	APC 22006	APCD 22006	APC 24004	APCD 24004	APC 24006	APCD 24006
APC10004	0.4	0.4	1.2	0.9	1.0	0.9	2.0	0.9	1.9	0.8	1.7	0.8
APCD10004	0.4	0.4	1.0	0.7	1.0	0.7	0.8	0.7	1.2	0.6	0.8	0.6
APC10006	0.4	0.4	1.2	0.9	1.2	0.7	1.8	0.9	2.0	0.9	1.7	0.8
APCD10006	0.4	0.4	1.3	0.8	0.6	0.5	1.1	0.7	1.3	0.7	1.0	0.7
APC13004SH	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4
APCD13004SH	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
APC13006SH	0.4	0.4	1.0	0.7	0.9	0.6	1.1	0.7	1.1	0.7	1.0	0.7
APCD13006SH	0.4	0.4	0.8	0.6	0.7	0.5	0.8	0.6	0.9	0.6	0.8	0.6
APC17004SH	0.4	0.4	0.8	0.6	1.0	0.7	0.9	0.7	0.8	0.6	0.7	0.6
APCD17004SH	0.4	0.4	0.7	0.5	0.8	0.6	0.7	0.6	0.7	0.5	0.6	0.5
APC17006SH	0.4	0.4	1.2	0.9	4.0	0.9	2.4	0.9	2.0	0.9	1.9	0.8
APCD17006SH	0.4	0.4	1.2	0.8	1.3	0.8	1.2	0.7	1.2	0.7	1.1	0.7

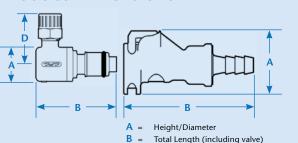
#### **DID YOU KNOW...**

The shelf life of a connector is dependent upon the connector materials and the storage conditions. Colder manufactures quick disconnect couplings and connections made from a variety of metal, plastic and elastomeric raw materials. In general, it is best to store any Colder product in an environment shielded from light at a temperature between 50 °F and 90 °F.

The shelf life of Colder couplings and connections is estimated to be 3 years minimum if the storage conditions comply with those shown above.

NOTE: For product containing lubricated o-rings, the lubricant will dry out over time. Prior to use, it may be advisable to re-lubricate external o-rings. For product containing silicone o-rings, if lube is allowable, use of a synthetic lube is recommended.

APC SERIES



METRIC EQ.

6.4mm ID

9.5mm ID

METRIC EQ.

METRIC EQ.

6.4mm ID

9.5mm ID

METRIC EO.

6.4mm OD, 4.3mm ID

8.0mm OD. 6.0mm ID

9.5mm OD, 6.4mm ID

10.0mm OD, 8.0mm ID

6.4mm OD, 4.3mm ID

8.0mm OD. 6.0mm ID

9.5mm OD, 6.4mm ID

10.0mm OD, 8.0mm ID

**OPENING** see drawing

MAX. PANEL THICKNESS

MIN. PANEL THICKNESS

.93

.93

.93

.93

.93

.93

1.30

1.30

1.30

1.30

1.03

1.03

1.03

1.03

1.30 2.07

1.30 2.07

1.40

1.40

1.40

1.40

1.35

1.35

1.94

2.07

2.07

2.07

1.97

2.10

2.10

2.10

1.03 2.10

1.03 2.10

1.03 2.10

**COUPLING BODIES** 

.50 .02

SHUTOFF

APCD10004

APCD10006

**SHUTOFF** 

**SHUTOFF** 

**SHUTOFF** 

APCD12004

APCD120M8

APCD12006

SHUTOFF

APCD16004

APCD16005

APCD16006

APCD120M10

APCD17004SH

APCD17006SH

APCD13004SH

APCD130M8SH

APCD13006SH

APCD130M10SH

APCD10004BSPT

APCD10006BSPT

**PANEL NUT HEX** 

STRAIGHT THRU

APC10004BSPT

APC10006BSPT

**STRAIGHT THRU** 

**STRAIGHT THRU** 

APC13004SH

APC130M8SH

APC13006SH

APC17004SH

APC17006SH

APC130M10SH

STRAIGHT THRU

STRAIGHT THRU

**STRAIGHT THRU** 

APC12004

APC120M8

APC12006

APC16004

APC16005

APC120M10

APC10004

APC10006

APC17004

APC17006

**PANEL NUT THREAD** 11/16-24UNF

**Coupling Bodies** 

0	
-	

**TERMINATION** IN-LINE PIPE THREAD

**THREAD SIZE** 

1/4" NPT

1/4" BSPT

3/8" NPT

3/8" BSPT

1/4" ID

3/8" ID

**TUBING SIZE** 

**TUBING SIZE** 

**TUBING SIZE** 

**TUBING SIZE** 

1/4" OD, .17" ID

3/8" OD, .25" ID

1/4" ID

3/8" ID

D = Elbow Radial Length

**TERMINATION** 

IN-I INF







**TERMINATION IN-LINE WITH** SHROUD **FERRULELESS** 







**HOSE BARB** 











PANEL MOUNT

REPLACEMENT

GASKET

**Accessories** 

**TUBING SIZE** 1/4" ID 5/16" ID 3/8" ID

For sealing panel mount bodies listed above

METRIC EQ.

6.4mm ID 7.9mm ID

9.5mm ID

APC16006

MATERIAL Buna-N

PART NO. 1830300

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. †NOTE: Colder's Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

# tubing, i.e., polyethylene, nylon, polyurethane, etc.

# **Coupling Inserts**

TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT		STRAIGHT THRU APC24004 APC24004BSPT APC24006 APC24006BSPT	SHUTOFF APCD24004 APCD24004BSPT APCD24006 APCD24006BSPT	A .72 .72 .72 .72	B 1.43/1.77 1.63/1.77 1.50/1.64 1.51/1.65		0
TERMINATION IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID 3/8" OD, .25" ID	METRIC EQ. 6.4mm OD, 4.3mm ID 8.0mm OD, 6.0mm ID 9.5mm OD, 6.4mm ID 10.0mm OD, 8.0mm ID	STRAIGHT THRU APC20004 APC200M8 APC20006 APC200M10	SHUTOFF APCD20004 APCD200M8 APCD20006 APCD200M10	A .72 .72 .72 .72 .72	B 1.86/1.99 1.79/1.93 1.78/1.91 1.79/1.93		000
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/4" ID 3/8" ID	METRIC EQ. 6.4mm ID 9.5mm ID	STRAIGHT THRU APC22004 APC22006	SHUTOFF APCD22004 APCD22006	A .60/.72 .63/.72	B 1.40/2.10 1.40/1.92		n
TERMINATION ELBOW FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID 3/8" OD, .25" ID	METRIC EQ. 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	STRAIGHT THRU APC21004 APC21006	SHUTOFF APCD21004 APCD21006	A 1.22 1.27	B 1.32/1.45 1.33/1.46	D .91 .96	*
TERMINATION ELBOW HOSE BARB	TUBING SIZE 1/4" ID 3/8" ID	METRIC EQ. 6.4mm ID 9.5mm ID	STRAIGHT THRU APC23004 APC23006	SHUTOFF APCD23004 APCD23006	A .63 .63	B 1.20/1.45 1.20/1.50	D .96 .96	2011-1



## **DID YOU KNOW ...**

One of the most versatile coupling series, the APC can be found in such diverse applications as hospital beds and support surfaces, sports hydration equipment, cold and compression therapy and many more! This product platform is also frequently used to develop custom designs. Contact Customer Service at 1-800-444-2474 or 651-645-0091 to learn how we can adapt the APC coupling to your specific requirements.

Quick Tip: These cost-effective, high-value connectors are also available in NSF listed versions for food and beverage dispensing. Visit www.colder.com for equivalent NSF part numbers.

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.

†NOTE: Colder's Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid

Colder Products and CPC are registered trademarks with the US Patent & Trademark Office.



Colder's BreakAway<sup>TM</sup> Series couplings provide safe and easy fluid transfer with protection from costly product

loss and equipment damage. These high quality, leak-free connectors are designed to disconnect when pull force is applied without depressing a latching mechanism, allowing users to make a clean, fast and easy break at

## **Specifications**

Pressure: 0 to 20 psi, 1.4 bar

**Temperature:** 0° F to 150° F (-18° C to 66° C)

#### **Materials:**

Main components and valves: Acetal

Valve springs: 316 stainless steel O-rings: Buna-N

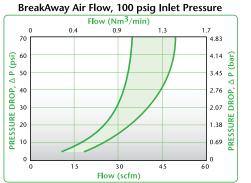
**Retention ring: PPS** 

Color: White or black

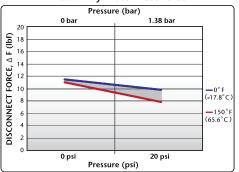
#### **Tubing Sizes:**

1/4" and 3/8" ID, 6.4mm and 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



#### **BreakAway Disconnect Force**



# **Features**

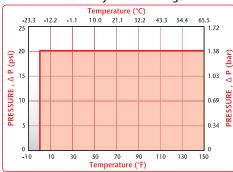
critical moments.

Reliable break-away design Automatic dual shutoff valves Streamlined, flush finish

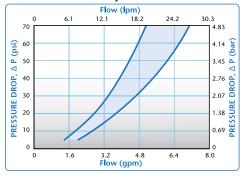
# Benefits

Rapid, automatic disconnection Safe and clean fluid handling Easy-to-use for maximum productivity

#### **BreakAway Pressure Range**

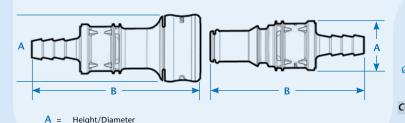


#### **BreakAway Water Flow**



These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of the graphs represent 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.

Force to disconnect is approximately 11 pounds pull force at 0 psi line pressure and 8 pounds pull force at 20 psi. In some applications and with certain types of tubing, a hose clamp may be required.



B = Total Length (including valve)



## **Product Dimensions**

MAX. PANEL MIN. PANEL THICKNESS OPENING

**COUPLING BODIES** 

see drawing

THICKNESS .02

**Coupling Bodies** 

# WHITE ACETAL

			WWIIII L			
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/4" ID 3/8" ID	METRIC EQ. 6.4mm ID 9.5mm ID	SHUTOFF BACD17004 BACD17006	A 0.92 0.92	B 2.29 2.29	0
TERMINATION PANEL MOUNT HOSE BARB	<b>TUBING SIZE</b> 1/4" ID 3/8" ID	METRIC EQ. 6.4mm ID 9.5mm ID	SHUTOFF BACD16004 BACD16006	<b>A</b> 0.92 0.92	B 2.29 2.29	0)

# **BLACK ACETAI**

TERMINATION	TUBING SIZE	METRIC EQ.	SHUTOFF	<b>A</b>	B
IN-LINE	1/4" ID	6.4mm ID	BACD17004MBLK	0.92	2.29
HOSE BARB	3/8" ID	9.5mm ID	BACD17006MBLK	0.92	2.29
TERMINATION	TUBING SIZE	METRIC EQ.	SHUTOFF	<b>A</b>	B
PANEL MOUNT	1/4" ID	6.4mm ID	BACD16004MBLK	0.92	2.29
HOSE BARB	3/8" ID	9.5mm ID	BACD16006MBLK	0.92	2.29



BREAKAWAY SERIES

**Coupling Inserts** 

# **WHITE ACETAL**

TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	Α	В
IN-LINE	1/4" ID	6.4mm ID	BAC22004	BACD22004	0.58/0.69	1.58/2.10
HOSE BARB	3/8" ID	9.5mm ID		BACD22006	0.69	2.10

**BLACK ACETAI** 

TERMINATION **TUBING SIZE** METRIC EQ. **STRAIGHT THRU** IN-LINE 1/4" ID BAC22004MBLK BACD22004MBLK 0.58/0.69 1.58/2.10 6.4mm ID **HOSE BARB** 3/8" ID 9.5mm ID BACD22006MBLK 0.69





# **DID YOU KNOW ...**

BreakAway™ couplings can prevent costly equipment damage? Rapid disconnection from personal cooling systems, medical therapy devices and other equipment prevents breakage and messy spills.

Visit us at www.colder.com or call 651-645-0091 to get a free catalog CD or to find your local distributor.







Pressure: Vacuum to 105 psi, 7.2 bar

**Temperature:** 

32°F to 160°F (0°C to 71°C)

#### **Materials:**

Main components and valves: Polypropylene

Thumb latch: Polypropylene Valve spring: 316 stainless steel Panel mount gasket: EPDM

External springs: 302 stainless steel

O-rings: EPDM

#### **Color:**

Gray with dark gray latch

#### **Tubing Sizes:**

1/4" and 3/8" ID, 6.4mm and 9.5mm ID

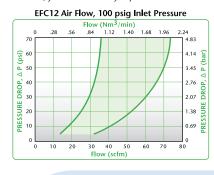
## **Features**

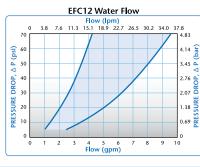
High efficiency valve Plastic thumb latch Polypropylene material Compatible

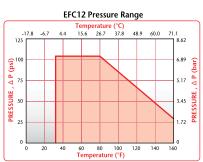
#### Benefits

More flow in a compact size Fewer moving parts Chemically resistant and gamma sterilizable Mates with most APC couplings

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 configuration 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.

## C<sub>v</sub> Values for EFC12 Couplings

	EFC	EFCD	EFC	EFCD	EFC	EFCD	EFC	EFCD	EFCD	EFCD
BODIES	22412	22412	22612	22612	23412	23412	23612	23612	24412	24612
EFCD10412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFCD10612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72
EFCD16412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFCD16612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72
EFCD17412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFCD17612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72



- Q = Flow rate in gallons per minute
- flow rates (see chart)  $\Delta P$  = Pressure drop across coupling (psi)

EFC Series Gasket Thickness: .06" Mounting Hole: .720" diameter Coupling Spacing: 1.25" min. Greenlee® 720 Keyway Punch and 730BB-3/4 Hole Punch.

MAX. PANEL OPENING THICKNESS **THICKNESS** COUPLING BODIES see drawing .25

PANEL PANEL **NUT THREAD NUT HEX** 11/16-24UNF

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

# **Coupling Bodies**

**Product Dimensions** 

# **POLYPROPYLENE**

							-11-4
TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/4" NPT 3/8" NPT		Е	FCD10412	A .93 .93	B 2.29 2.29	
TERMINATION BULKHEAD PANEL MOUNT HOSE BARB	TUBING SIZE 1/4" ID 3/8" ID	METRIC EQ. 6.4mm ID 9.5mm ID	Е	FCD16412	A .93 .93	B 2.23 2.23	
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/4" ID 3/8" ID	METRIC EQ. 6.4mm ID 9.5mm ID	Е		A .93 .93	B 2.23 2.23	0

# **Coupling Inserts**

# **POLYPROPYLENE**

							A 1000
TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/4" NPT 3/8" NPT			SHUTOFF EFCD24412 EFCD24612	A .72 .72	B 1.77 1.77	
TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B	
IN-LINE	1/4" ID	6.4mm ID	EFC22412	EFCD22412	.60/.72	1.33/2.08	
HOSE BARB	3/8" ID	9.5mm ID	EFC22612	EFCD22612	.60/.72	1.33/1.90	
TERMINATION	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	A	B	D
ELBOW	1/4" ID	6.4mm ID	EFC23412	EFCD23412	.63	1.32/1.45	.96
HOSE BARB	3/8" ID	9.5mm ID	EFC23612	EFCD23612	.63	1.32/1.45	.96





**PANEL MOUNT** PART NO. GASKET For sealing panel mount bodies listed above 668400 **REPLACEMENT** 

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. Straight thru dimension is listed first when two measurements are provided.



**EFC12 SERIES** 

NS4 Series couplings feature non-spill valves in a compact size, at a great price. Use the NS4 when even a few drops pose problems regarding safety, media cost or environmental regulations. These innovative couplings are lightweight, chemically resistant and easy to use. The nonspill design effectively eliminates spills, minimizes downtime and enhances operator safety.

#### **Features**

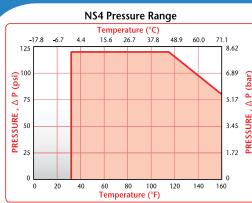
Non-spill design Color coding Glass-filled polypropylene

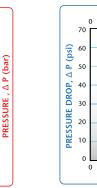
Medical-grade ABS

#### Benefits

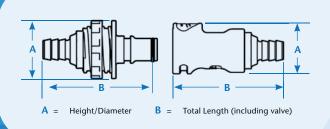
Disconnect under pressure with no spills Instant visual differentiation of media lines Durable and compatible with many chemicals

Gamma sterilizable





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





## **Specifications**

Pressure: Vacuum to 120 psi, 8.3 bar

**Temperature:** 

32 F°to 160°F (0°C to 71°C)

#### **Materials:**

Main components and valves:

Glass-filled polypropylene with TPV\* overmold,

ABS with TPE\* soft-touch overmold

Thumb latch: Glass-filled polypropylene, ABS

Valve spring: 316 stainless steel External spring: 316 stainless steel

O-rings: EPDM

#### Color:

**Polypropylene:** Gray with dark gray overmold standard; gray with red or blue overmold available†

ABS: White with teal overmold

#### **Tubing Sizes:**

1/8" to 3/8" ID, 3.2mm to 9.5mm ID

**Lubricants:** Krytox® PFPE (inert)

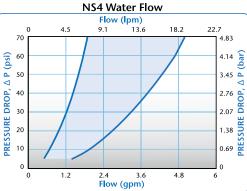
**Spillage:** < 0.10 cc per disconnect at all rated

pressures

Inclusion: 0.26 cc per connect

\*The overmold material TPV (themoplastic vulcanizate) is used with the NS4 polypropylene couplings. TPV is an alloy of polypropylene thermoplastic and fully vulcanized EPDM rubber. TPV is typically resistant to water, acids and bases The overmold material TPE (thermoplastic elastomer) is used with the NS4 ABS couplings. TPE is a blend of additives and copolymers in a special formulation that forms extremely durable bonds to the ABS substrate, while offering the traditional properties of soft-touch overmold.

**†NOTE**: Standard product is gray; color options require a set-up charge and ninimum quantities. Please contact Colder for details



# **Product Dimensions**

PANEL	MAX. PANEL	MIN. PAN
OPENING	THICKNESS	THICKNES
see drawing	.25	.03

# **Coupling Bodies**

**POLYPROPYLENE / ABS** 

TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/4" NPT 1/4" BSPT		POLYPROPYLENE SHUTOFF NS4D10004 NS4D10004BSPT	ABS SHUTOFF NS4D1000406 NS4D10004BSPT06	A 1.05 1.05	<b>B</b> 2.31 2.29	0
TERMINATION IN-LINE FERRULESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID 3/8" OD, 1/4" ID	METRIC EQ. 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	POLYPROPYLENE SHUTOFF NS4D13004 NS4D13006	ABS SHUTOFF NS4D1300606	A 1.05 1.05	B 2.32 2.45	
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/8" ID* 1/4" ID 3/8" ID	METRIC EQ. 3.2mm ID* 6.4mm ID 9.5mm ID	POLYPROPYLENE SHUTOFF NS4D17002 NS4D17004 NS4D17006	ABS SHUTOFF NS4D1700206 NS4D1700406 NS4D1700606	A 1.05 1.05 1.05	B 2.09 2.34 2.34	90

**Coupling Inserts** 

						-	_
			<b>POLYPRO</b>	<b>DPYLEN</b>	JE / A	ABS	
TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/4" NPT 1/4" BSPT		POLYPROPYLENE SHUTOFF NS4D24004 NS4D24004BSPT	ABS SHUTOFF NS4D2400406 NS4D24004BSPT06	<b>A</b> .96 .96	B 1.95 1.95	
TERMINATION IN-LINE FERRULESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID 3/8" OD, 1/4" ID	METRIC EQ. 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	POLYPROPYLENE SHUTOFF NS4D20004 NS4D20006	ABS SHUTOFF NS4D2000606	<b>A</b> .96 .96	<b>B</b> 1.95 2.09	
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/8" ID* 1/4" ID 3/8" ID	METRIC EQ. 3.2mm ID* 6.4mm ID 9.5mm ID	POLYPROPYLENE SHUTOFF NS4D22002 NS4D22004 NS4D22006	ABS SHUTOFF NS4D2200206 NS4D2200406 NS4D2200606	A .96 .96	B 1.73 1.98 1.98	
TERMINATION PANEL MOUNT FERRULESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID 3/8" OD, 1/4" ID	METRIC EQ. 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	POLYPROPYLENE SHUTOFF NS4D40004 NS4D40006	ABS SHUTOFF NS4D4000606	<b>A</b> 1.17 1.17	<b>B</b> 2.30 2.43	
TERMINATION	TUBING SIZE	METRIC EQ.	POLYPROPYLENE SHUTOFF	ABS SHUTOFF	A	В	

NS4D42002

NS4D42004

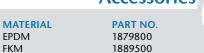
NS4D42006

Accessories

2.07

2.32

2.32



1.17

1.17

1.17





**Coupling Inserts** IN-I INF 1/8"ID iNS4DR1700200 **IN-LINE** 1/8"ID iNS4DR2200200 3.2mm 3.2mm HOSE BARB 1/4"ID 6.4mm iNS4DR1700400 **HOSE BARB** 1/4"ID 6.4mm iNS4DR2200400 iNS4DR2200600 3/8"ID iNS4DR1700600 9.5mm 3/8"ID 9.5mm

NOTE: RFID specifications are located on page 35.

3.2mm ID\*

6.4mm ID

9.5mm ID

For sealing panel mount inserts listed above

**PANEL MOUNT** 

PANEL MOUNT

**GASKET** 

**HOSE BARB** 

1/8" ID\*

1/4" ID

3/8" ID

For Product Dimensions Visit www.colder.com

NS4D4200206

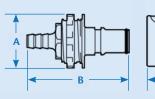
NS4D4200406

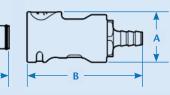
NS4D4200606

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc. †NOTE: Colder's Ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are therefore easier to use and reuse. \*NOTE: Patented 1/8" ID (3.2mm) hose barb connection has a support shroud allowing a maximum tube OD of 1/4" (6.4mm).



**NS4 SERIES** 





A = Height/Diameter B = Total Length

# **Coupling Bodies**

#### **TERMINATION THREAD SIZE SHUTOFF** 1/2" NPT NS6D10008 3.01 IN-LINE 1.31 PIPE THREAD 1/2" BSPT NS6D10008BSPT 1.31 3.01 **TERMINATION TUBING SIZE** METRIC EO. **SHUTOFF** 1.31 IN-LINE 1/2" OD 12.7mm OD NS6D13008 3.53 COMPRESSION **TUBING SIZE TERMINATION** METRIC EQ. **SHUTOFF** IN-LINE 3/8" ID 9.5mm ID NS6D17006 1.31 3.16 **HOSE BARB** 1/2" ID 3.16 12.7mm ID NS6D17008 1.31

MIN. PANEL

**THICKNESS** 

.03

MAX. PANEL

**THICKNESS** 

METRIC EQ.

12.7mm OD

METRIC EO.

9.5mm ID

12.7mm ID

METRIC EO.

12.7mm OD

METRIC EQ.

9.5mm ID

12.7mm ID

For sealing panel mount inserts listed above

.25

**OPENING** 

COUPLING INSERTS see drawing

**THREAD SIZE** 

**TUBING SIZE** 

**TUBING SIZE** 

**TUBING SIZE** 

**TUBING SIZE** 

3/8" ID

1/2" ID

1/2" OD

3/8" ID

1/2" ID

1/2" NPT

1/2" BSPT

1/2" OD

# **Coupling Inserts**

<b>POLYPR</b>	ROPYL	.ENE	
SHUTOFF NS6D24008 NS6D24008BSPT	A 1.31 1.31	B 2.44 2.44	
SHUTOFF NS6D20008	A 1.31	B 3.01	
SHUTOFF NS6D22006 NS6D22008	A 1.31 1.31	B 2.59 2.59	ALCONO.
SHUTOFF NS6D40008	<b>A</b> 1.50	B 3.32	
SHUTOFF NS6D42006 NS6D42008	A 1.50 1.50	B 2.85 2.85	







# **Specifications Pressure:**

Vacuum to 120 psi, 8.3 bar (see graph)

#### **Temperature:**

32°F to 160°F (0°C to 71°C) (see graph)

#### **Materials:**

#### Main components:

Glass-filled polypropylene with TPV\* soft touch

Ø 1.250"

**TERMINATION** 

PIPE THREAD

**TERMINATION** 

**COMPRESSION** 

**TERMINATION** 

**TERMINATION** 

**PANEL MOUNT** 

COMPRESSION

**TERMINATION** 

**PANEL MOUNT** 

PANEL MOUNT

GASKET

**HOSE BARB** 

IN-LINE

IN-LINE

IN-I INF

**HOSE BARB** 

overmold

Thumb latch: Glass-filled polypropylene Valve spring (wetted): 316 stainless steel

External spring: 316 stainless steel

O-rings: EPDM

#### Color:

Gray with dark gray overmold standard; gray with red or blue overmold available†

#### **Tubing Sizes:**

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

**Lubricants:** Krytox® PFPE (inert)

Spillage: ~0.03 cc per disconnect @ 0 psi,

~0.30 cc/disconnect @ 120 psi

Inclusion: 0.42 cc per connect

N\$6 Series couplings feature non-spill valves at a great price. Use the NS6 when even a few drops of spillage pose problems regarding safety, media cost or environmental regulations. These innovative couplings are lightweight, chemically resistant and easy to use. The non-spill design virtually eliminates spills, minimizes downtime and enhances operator safety. Soft touch overmold makes them comfortable in the hand and very attractive.

#### **Features**

#### Non-spill design Color coding Glass-filled polypropylene

Colder thumb latch

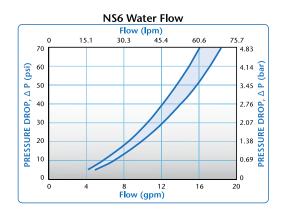
#### Benefits

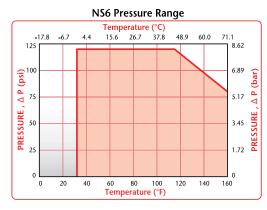
Disconnect under pressure with no spills Instant visual differentiation of media lines Durable and compatible with many chemicals

One-hand connection and disconnection

\*The overmold material is a TPV. (thermoplastic vulcanizate) This TPV is an alloy of polypropylene thermoplastic and fully vulcanized EPDM rubber. The material is typically resistant to water, acids

**†NOTE**: Standard product is gray; color options require a set-up charge and minimum quantities. Please contact Colder for details.





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.

MATERIAL

**EPDM** 

FKM



resistance and exceptionally high flow capacity, allowing instant disconnects (and reconnects), even under pressure.

Their non-spill design virtually eliminates spills, minimizes

downtime and enhances operator safety in a very low cost

# **Specifications**

Pressure: Vacuum to 120 psi, 8.3 bar

**Temperature:** 

32°F to 120°F (0°C to 49°C)

#### **Materials:**

Main components: Glass-filled polypropylene

Thumb latch:

Glass-filled polypropylene

O-rings: EPDM

Springs (non-wetted): 316 stainless steel **Compression nuts:** White polypropylene

Gray with dark gray accent standard;

red or blue thumb latch and insert tip available.

#### **Tubing Sizes:**

3/8" to 3/4" ID, 9.5mm to 19.0mm ID

Lubricants: Krytox® PFPE (inert)

**Spillage:** <0.10 cc/disconnect (reconnect)

Inclusion: 0.03 cc/connect

#### **Panel Mount:**

Optional adaptor kit (see page 57)

Compatible with ChemQuik® Dual Containment System; DrumQuik® Universal Dispense System and Asian Drum Adaptors.

#### **Features**

package.

Non-spill design

Pressure-balanced design

Springless flow path design Optional color coding

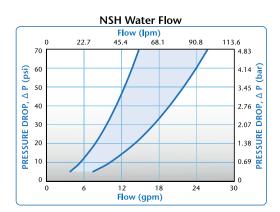
#### Benefits

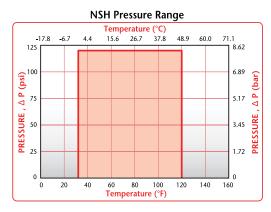
Ultimate protection from chemicals and fumes

Failsafe disconnect, even under pressure; easy to reconnect at high pressure

Eliminates source of metallic contaminants Helps prevent accidental misconnects

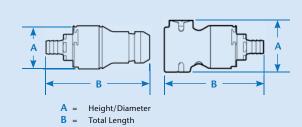
**WARNING:** Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of Colder products in their own application conditions. Use the graphs below as a guide.





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.

## **Product Dimensions**



**PANEL** MAX. PANEL MIN. PANEL THICKNESS **OPENING** THICKNESS COUPLING BODIES see drawing .50 OR INSERTS

Not to scale

Ø 2.000'

**Coupling Bodies** 

# **POLYPROPYLENE**

TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 3/8" FEMALE NPT 3/8" BSPT 1/2" NPT 3/4" NPT		SHUTOFF NSHD19006 NSHD10006BSPT NSHD10008 NSHD10012	2.0 2.0 2.0 2.0 2.0	B 3.70 3.67 3.81 4.01	9
TERMINATION IN-LINE COMPRESSION	TUBING SIZE 3/8" OD 1/2" OD	METRIC EQ. 9.5mm OD 12.7mm OD	SHUTOFF NSHD13006 NSHD13008	<b>A</b> 2.0 2.0	B 3.97 4.10	Office of
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 3/8" ID 1/2" ID 5/8" ID 3/4" ID	METRIC EQ. 9.5mm ID 12.7mm ID 15.9mm ID 19.0mm ID	SHUTOFF NSHD17006 NSHD17008 NSHD17010 NSHD17012	A 2.0 2.0 2.0 2.0	B 3.73 3.73 3.88 3.88	9

**Coupling Inserts** 

# **DOIVDRODVI ENIE**

			POLIFR	OPII		
TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 3/8" FEMALE NPT 3/8" BSPT 1/2" NPT 3/4" NPT		SHUTOFF NSHD26006 NSHD24006BSPT NSHD24008 NSHD24012	A 1.64 1.64 1.64 1.64	B 3.87 3.84 3.98 3.98	(a)
TERMINATION IN-LINE COMPRESSION	TUBING SIZE 3/8" OD 1/2" OD	METRIC EQ. 9.5mm OD 12.7mm OD	SHUTOFF NSHD20006 NSHD20008	A 1.64 1.64	B 4.14 4.27	. 5
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 3/8" ID 1/2" ID 5/8" ID 3/4" ID	METRIC EQ. 9.5mm ID 12.7mm ID 15.9mm ID 19.0mm ID	SHUTOFF NSHD22006 NSHD22008 NSHD22010 NSHD22012	A 1.64 1.64 1.64 1.64	B 3.90 3.90 4.05 4.05	5

**Accessories** 

Panel mount kit with panel seal Dust plug/cap for body or insert\* PART NO. NSHPMKIT12 1800700 (not shown)

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. \*Panel mount kit can be used with body for front mount or insert for front or rear mount



Pressure: Vacuum to 60 psi, 4.2 bar

**Temperature:** 

32°F to 160°F (0°C to 71°C)

#### **Materials:**

Main components and valves: Polypropylene

Thumb latch: Polypropylene

Valve spring (wetted): 316 stainless steel

External springs: 316 stainless steel

O-rings: EPDM

Panel mount gasket: EPDM

Compression nut, gripper, ferrule: Polypropylene

#### **Color:**

Gray with dark gray latch

#### **Tubing Sizes:**

3/8" to 3/4" ID, 9.5mm to 19.0mm ID

For compression termination specifications 3/8" OD or 1/2" OD, +0.010/-0.000

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 products in their own application conditions. Use the graphs on the following page as a guide.

> Optional o-ring and spring materials are available, please

Patented HFC12 Series couplings have flow comparable to many 1/2" flow couplings in a 3/8" body size. Compact and lightweight, HFC couplings replace bulky and heavy brass ball-and-sleeve couplings in a wide range of applications. An ergonomic design and a large, shrouded thumb latch pad produce a coupling that is easy to grip and simple to operate. An efficient valve design leads to high flow and low spillage.

#### **Features**

High efficiency valve Ergonomic design Polypropylene material Compatible

#### **Benefits**

More flow in a compact size Easy to grip, simple to operate Chemically resistant and gamma sterilizable Mates with HFC35 and HFC57 couplings

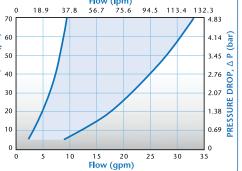
Also available in NSF listed versions, please visit our web site for part number information



#### HFC12 Air Flow, 100 psig Inlet Pressure

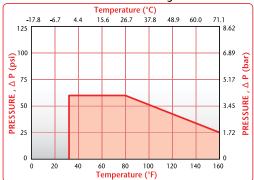


# **HFC12 Water Flow** Flow (lpm) 18.9 37.8 56.7 75.6 94.5 113.4 132.3



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.

#### **HFC12 Pressure Range**



# **DID YOU KNOW ...** Colder offers over 7,500 couplings for a wide variety of applications such as low-pressure air and fluid line connections, high-purity chemical management and bioprocessing connectors. Contact us at 1-800-444-2474 or 651-645-0091 to learn how Colder can make your connections cleaner, faster, safer and smarter!

## Don't forget: you can always visit www.colder.com for more product information.

# **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 to the right.



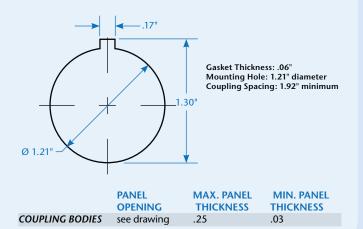
Q=Flow rate in gallons per minute

v=Average coefficient across various flow rates (see chart)  $\Delta P$ =Pressure drop across coupling (psi) S=Specific gravity of liquid

## C, Values for High Flow Couplings (HFC12)

	HFC	HFCD	HFC	HFCD										
BODIES	22612	22612	22812	22812	23612	23612	23812	23812	24612	24612	24812	24812	221212	221212
HFCD10612	1.27	1.27	1.62	1.51	1.14	1.14	1.46	1.36	1.80	1.58	1.70	1.65	-	-
HFCD10812	1.28	1.34	1.62	1.51	1.15	1.24	1.46	1.36	1.81	1.54	1.72	1.56	-	-
HFCD16612	1.07	1.00	1.17	1.14	0.96	0.90	1.05	1.03	1.33	1.26	1.30	1.24	-	-
HFCD16812	1.25	1.23	1.61	1.52	1.13	1.11	1.45	1.37	1.79	1.60	1.68	1.56	-	-
HFCD17612	1.07	1.00	1.17	1.14	0.96	0.90	1.05	1.03	1.33	1.26	1.30	1.24	-	-
HFCD17812	1.25	1.23	1.61	1.52	1.13	1.11	1.45	1.37	1.79	1.60	1.68	1.56	-	-
HFC171212	-	-	-	-	-	-	-	-	-	-	-	-	3.94	-
HFCD171212	-	-	-	-	-	-	-	-	-	-	-	-	-	2.04

- A = Height/Diameter
- **B** = Total Length (including valve)
- D = Elbow Radial Length



# **Coupling Bodies**



**HFC12 SERIES** 

TERMINATION	THREAD SIZ
IN-LINE	3/8" NPT
DIDE TUDE AD	2 /0" DCDT

1/2" NPT 3/4" NPT

**TUBING SIZE** 

**TUBING SIZE** 

3/8" OD

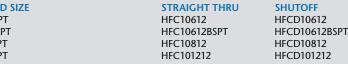
1/2" OD

3/8" ID

1/2" ID

5/8" ID

3/4" ID





#### TERMINATION BULKHEAD PANEL MOUNT HOSE BARB

3/8" ID 1/2" ID 5/8" ID



METRIC EQ.

9.5mm OD

12.7mm OD

METRIC EO.

9.5mm ID

12.7mm ID

15.9mm ID

19.0mm ID



**STRAIGHT THRU** 

STRAIGHT THRU

HFC12612

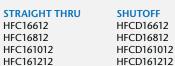
HFC12812

HFC17612

HFC17812

HFC171012

HFC171212





**TERMINATION** BULKHEAD PANEL MOUNT



















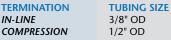


TERMINATION
IN-LINE
HOSE BARB











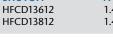












1.44 HFCD13812

1.44

1.44

1.44

1.44

1.82

1.82

1.82

1.82

1.82

1.82

1.44

1.44

1.44

1.44

2.69

2.72

2.88 3.07

2.82

2.82

2.94

2.94

2.96

3.11

2.79

2.79

2.94

2.94

2.96

3.11

Accessories



PANEL MOUNT GASKET REPLACEMENT

For sealing panel mount bodies listed above

**MATERIAL EPDM** 

PART NO. 621200

HFCD12612

HFCD12812

**SHUTOFF** 

HFCD17612

HFCD17812

HFCD171012

HFCD171212

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

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

**Coupling Inserts** 

# **POLYPROPYLENE**

TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 3/8" NPT 3/8" BSPT 1/2" NPT 3/4" NPT		STRAIGHT THRU HFC24612 HFC24612BSPT HFC24812 HFC241212	SHUTOFF HFCD24612 HFCD24612BSPT HFCD24812 HFCD241212	A 1.16 1.16 1.16 1.23	B 1.77/1.89 1.80/1.92 1.95/2.07 2.14/2.26	
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 3/8" ID 1/2" ID 5/8" ID 3/4" ID	METRIC EQ. 9.5mm ID 12.7mm ID 15.9mm ID 19.0mm ID	STRAIGHT THRU HFC22612 HFC22812 HFC221012 HFC221212	SHUTOFF HFCD22612 HFCD22812 HFCD221012 HFCD221212	A 1.00 1.00 1.00 1.00	B 1.97/2.09 1.97/2.09 2.01/2.13 2.14/2.26	
TERMINATION IN-LINE COMPRESSION	<b>TUBING SIZE</b> 3/8" OD 1/2" OD	METRIC EQ. 9.5mm OD 12.7mm OD	STRAIGHT THRU HFC20612 HFC20812	SHUTOFF HFCD20612 HFCD20812	A 1.00 1.00	B 2.14/2.26 2.29/2.41	
TERMINATION ELBOW HOSE BARB	TUBING SIZE 3/8" ID 1/2" ID 3/4" ID	METRIC EQ. 9.5mm ID 12.7mm ID 19.0mm ID	STRAIGHT THRU HFC23612 HFC23812 HFC231212	SHUTOFF HFCD23612 HFCD23812 HFCD231212	A 1.00 1.00 1.00	B 1.93/2.05 1.97/2.09 1.95/2.07	D .93 .93



When selecting a valved coupling for your application, make sure to order a part number with a D just before the numeric portion of the part number. For example, HFC101212 does not have a shut-off valve; HFCD101212 would be the correct part number to order for a valved coupling.

To visually identify a part to determine whether or not it is valved, disconnect the coupling body and insert, and then look through the part. If you can see light all the way through, your part is non-valved. If there is anything obstructing the light, you probably have a valved part. Please contact Customer Service at 1-800-444-2474 or 651-645-0091 if you need further assistance.

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.

HFC12 SERIES



#### **Pressure:**

Vacuum to 125 psi, 8.6 bar

#### **Temperature:**

-40°F to 280°F (-40°C to 138°C)

#### **Materials:**

#### Main components and valves:

HFC35 - Polysulfone

HFC57 - UV-resistant polysulfone

#### Thumb latch:

HFC35 - Polysulfone

HFC57 - UV-resistant polysulfone Valve spring: 316 stainless steel External springs: 316 stainless steel

O-rings: EPDM

Panel mount gasket: EPDM Female GHT gasket: FDA EPDM

#### **Colors:**

HCF35 - Natural white, dark gray latch

HCF57 - Black, black latch

#### **Tubing Sizes:**

3/8" to 3/4" ID, 9.5mm to 19.0mm ID

WARNING: Pressure, temperature, chemicals, and operating environmen can affect the performance of couplings. It is the customer's responsibility to test the suitability of Colder products in their own application conditions. Use the graphs on the following page as a guide.

**HFC35 Series** polysulfone couplings are able to withstand demanding applications and feature physical strength, chemical resistance and autoclavability.

HFC57 Series polysulfone couplings are UV resistant and able to withstand continued exposure to harmful UV rays without affecting performance.

Both can operate in harsh environments in temperatures from -40°F to 280°F (-40°C to 138°C) and pressures from vacuum to 125 psi (8.6 bar). An ergonomic design and a large, shrouded thumb latch pad produce a coupling that is easy to grip and simple to operate. An efficient valve design leads to high flow and exceptionally low spillage. Both series also add bulkhead panel mount, garden hose thread and Hastelloy® C spring options.

#### **Features**

Polysulfone (HFC35) UV Polysulfone (HFC57) High efficiency valve Ergonomic design Compatible

#### **Benefits**

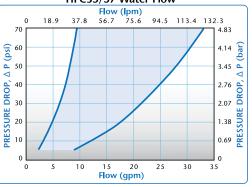
Physically strong and autoclavable Physically strong and UV resistant More flow and less spillage in a compact size Easy to grip, simple to operate Mates with HFC12 couplings

Also available in NSF listed versions, please visit our web site for part number information NSF.

#### HFC35/57 Air Flow, 100 psig Inlet Pressure

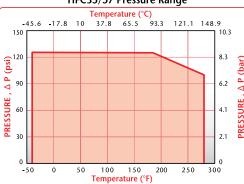


#### HFC35/57 Water Flow



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.

#### HFC35/57 Pressure Range



DID YOU KNOW ...

When specifying products with pipe thread terminations, don't forget to consult Colder's white paper on NPT pipe threads.

Visit the TECHNICAL section of www.colder.com.

#### Don't forget: you can always visit www.colder.com for more product information

# DID YOU KNOW ...

the HFC57 Series polysulfone couplings are UV-resistant and able to withstand continued exposure to harmful rays without affecting performance?

These couplings offer all the same features as our HFC12 and HFC35 Series with the added advantage of UV-resistance to protect the strength and durability of your fluid connections. Use the HFC57 couplings in outdoor applications such as watercraft, lawn irrigation systems and solar heating on roofs and decks where a connector is subjected to the harsh rays of the sun.

# **HFC35 Coupling Bodies**

# **POLYSULFONE**

	TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 3/8" NPT 3/8" BSPT 1/2" NPT 1/2" BSPT 3/4" NPT 3/4" BSPT 3/4" GHT		STRAIGHT THRU HFC10635 HFC10635BSPT HFC10835 HFC10835BSPT HFC101235 HFC101235BSPT HFC101235GHT	SHUTOFF HFCD10635 HFCD10635BSPT HFCD10835 HFCD10835BSPT HFCD101235 HFCD101235BSPT HFCD101235GHT	A 1.44 1.44 1.44 1.44 1.44 1.44	B 2.73 2.73 2.88 2.88 3.12 3.12 2.94
On the second	TERMINATION IN-LINE PIPE THREAD (FEMALE)	THREAD SIZE 3/4" GHT 3/4" BSPP		STRAIGHT THRU HFC191235GHT HFC191235BSPP	SHUTOFF HFCD191235GHT HFCD191235BSPP	<b>A</b> 1.44 1.44	B 2.70 2.70
	TERMINATION BULKHEAD PANEL MOUNT HOSE BARB	TUBING SIZE 3/8" ID 1/2" ID 5/8" ID 3/4" ID	METRIC EQ. 9.5mm ID 12.7mm ID 15.9mm ID 19.0mm ID	STRAIGHT THRU HFC16635 HFC16835 HFC161035 HFC161235	SHUTOFF HFCD16635 HFCD16835 HFCD161035 HFCD161235	A 1.44 1.44 1.44 1.44	B 2.82 2.82 2.94 2.94
	TERMINATION IN-LINE HOSE BARB	TUBING SIZE 3/8" ID 1/2" ID 5/8" ID 3/4" ID	METRIC EQ. 9.5mm ID 12.7mm ID 15.9mm ID 19.0mm ID	STRAIGHT THRU HFC17635 HFC17835 HFC171035 HFC171235	SHUTOFF HFCD17635 HFCD17835 HFCD171035 HFCD171235	A 1.44 1.44 1.44	B 2.82 2.82 2.94 2.94

#### Accessories

HFC35 & HFC57 SERIES

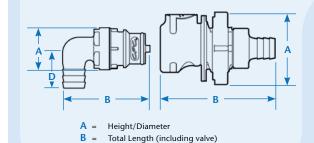
+	PANEL MOUNT GASKET REPLACEMENT	For sealing panel mount bodies listed above	MATERIAL EPDM	PART NO. 621200
	GHT GASKET REPLACEMENT	For sealing female threads	MATERIAL FDA EPDM	PART NO. 2339400

# **HFC35 Coupling Inserts**

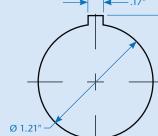
# **POLYSULFONE**

nonvalued to	TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 3/8" NPT 3/8" BSPT 1/2" NPT 1/2" BSPT 3/4" NPT 3/4" BSPT 3/4" GHT		STRAIGHT THRU HFC24635 HFC24635BSPT HFC24835 HFC24835BSPT HFC241235BSPT HFC241235BSPT HFC241235GHT	SHUTOFF HFCD24635 HFCD24635BSPT HFCD24835 HFCD24835BSPT HFCD241235 HFCD241235BSPT HFCD241235GHT	A 1.16 1.16 1.16 1.16 1.23 1.23	B 1.82/1.94 1.97/2.09 1.97/2.09 1.17/2.09 2.22/2.34 2.21/2.33 2.03/2.15	
non-valued see	TERMINATION IN-LINE PIPE THREAD (FEMALE)	THREAD SIZE 3/4" GHT 3/4" BSPP		STRAIGHT THRU HFC261235GHT HFC261235BSPP	SHUTOFF HFCD261235GHT HFCD261235BSPP	A 1.37 1.37	B 1.79/1.91 1.79/1.91	
non-valued to	TERMINATION IN-LINE HOSE BARB	TUBING SIZE 3/8" ID 1/2" ID 5/8" ID 3/4" ID	METRIC EQ. 9.5mm ID 12.7mm ID 15.9mm ID 19.0mm ID	STRAIGHT THRU HFC22635 HFC22835 HFC221035 HFC221235	SHUTOFF HFCD22635 HFCD22835 HFCD221035 HFCD221235	A 1.00 1.00 1.00 1.00	B 1.91/2.03 1.91/2.03 2.03/2.15 2.03/2.15	
umour	TERMINATION ELBOW HOSE BARB	<b>TUBING SIZE</b> 3/8" ID 1/2" ID	METRIC EQ. 9.5mm ID 12.7mm ID	STRAIGHT THRU HFC23635 HFC23835	SHUTOFF HFCD23635 HFCD23835	A 1.00 1.00	B 1.92/2.04 1.96/2.08	D .93 .93

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



D = Elbow Radial Length



## **Product Dimensions**

Gasket Thickness: .06" Mounting Hole: 1.21" diameter Coupling Spacing: 1.92" minimum

MAX. PANEL MIN. PANEL OPENING THICKNESS THICKNESS COUPLING BODIES .03 see drawing .25

# HFC57 Coupling Bodies UV POLYSULFONE

TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 3/8" BSPT 1/2" NPT 1/2" BSPT 3/4" BSPT 3/4" GHT		STRAIGHT THRU HFC10657BSPT HFC10857 HFC10857BSPT HFC101257BSPT HFC101257GHT	SHUTOFF HFCD10657BSPT HFCD10857 HFCD10857BSPT HFCD101257BSPT HFCD101257GHT	A 1.44 1.44 1.44 1.44	B 2.73 2.88 2.88 3.12 2.94	
TERMINATION IN-LINE PIPE THREAD (FEMALE)	THREAD SIZE 3/4" GHT 3/4" BSPP		STRAIGHT THRU HFC191257GHT HFC191257BSPP	SHUTOFF HFCD191257GHT HFCD191257BSPP	<b>A</b> 1.44 1.44	B 2.70 2.70	
TERMINATION BULKHEAD PANEL MOUNT HOSE BARB	TUBING SIZE 3/8" ID 1/2" ID 5/8" ID 3/4" ID	METRIC EQ. 9.5mm ID 12.7mm ID 15.9mm ID 19.0mm ID		SHUTOFF HFCD16657 HFCD16857 HFCD161057 HFCD161257	A 1.82 1.82 1.82 1.82	B 2.82 2.82 2.94 2.94	
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 3/8" ID 1/2" ID 5/8" ID 3/4" ID	METRIC EQ. 9.5mm ID 12.7mm ID 15.9mm ID 19.0mm ID	STRAIGHT THRU HFC17657 HFC17857 HFC171057 HFC171257	SHUTOFF HFCD17657 HFCD17857 HFCD171057 HFCD171257	A 1.44 1.44 1.44 1.44	B 2.82 2.82 2.94 2.94	

# **Accessories**

PANEL MOUNT GASKET REPLACEMENT	For sealing panel mount bodies listed abov	e EPDM	PART NO. 621200	
GHT GASKET REPLACEMENT	For sealing female threads	MATERIAL FDA EPDM	<b>PART NO.</b> 2339400	
NEI EACEMENT			HICET Com	line or line of

#### **HFC57 Coupling Inserts** IIV DOLVCIII EONE

			UV	PULIS	ULF	OINE	
TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 3/8" BSPT 1/2" BSPT 1/2" NPT 3/4" BSPT 3/4" GHT		STRAIGHT THRU HFC24657BSPT HFC24857BSPT HFC241257BSPT HFC241257BSPT HFC241257GHT	SHUTOFF HFCD24657BSPT HFCD24857BSPT HFCD24857 HFCD241257BSPT HFCD241257GHT	A 1.16 1.16 1.16 1.23 1.16	B 1.84/1.96 1.99/2.07 1.95/2.11 2.19/2.31 2.15/2.27	
TERMINATION IN-LINE PIPE THREAD (FEMALE)	THREAD SIZE 3/4" GHT 3/4" BSPP		STRAIGHT THRU HFC261257GHT HFC261257BSPP	SHUTOFF HFCD261257GHT HFCD261257BSPP	A 1.37 1.37	B 1.79/1.91 1.79/1.91	
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 3/8" ID 1/2" ID 5/8" ID 3/4" ID	METRIC EQ. 9.5mm ID 12.7mm ID 15.9mm ID 19.0mm ID	STRAIGHT THRU HFC22657 HFC22857 HFC221057 HFC221257	SHUTOFF HFCD22657 HFCD22857 HFCD221057 HFCD221257	A 1.00 1.00 1.00 1.00	B 1.91/2.03 1.91/2.03 2.03/2.15 2.03/2.15	

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.





the HFC Series couplings. The FFC Series has a nonvalved bore that increases flow and minimizes turbulence. The polysulfone material is able to withstand demanding applications and

features physical strength, chemical resistance and autoclavability. An ergonomic design and a large, shrouded thumb latch pad produce a coupling that is easy to grip and simple to operate.

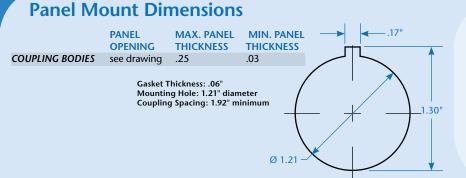
#### **Features**

No valves Polysulfone material Ergonomic design

#### Benefits

**Exceptional flow** 

Physically strong and autoclavable Easy to grip, simple to operate



# **Specifications**

Pressure: Vacuum to 125 psi, 8.6 bar

#### **Temperature:**

-40°F to 280°F (-40°C to 138°C)

#### **Materials:**

Main components: Polysulfone Thumb latch: Polysulfone

External spring: 316 stainless steel

O-rings: FDA Buna-N

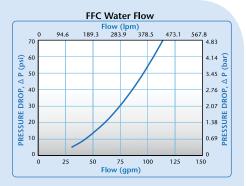
Panel mount gasket: EPDM Female GHT gasket: FDA EPDM

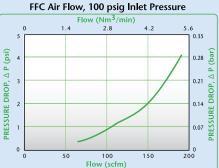
#### Color:

Natural white with dark gray latch

Tubing Sizes: 3/4" ID, 19.0mm 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 products in their own application conditions. Use the graphs on the following page as a guide.





These graphs are intended to give you a general idea of the performance capabilities of each product line.

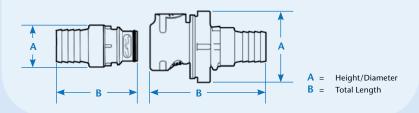
## Non-Valved

Colder's FFC35 Series couplings feature a wide open, straight-thru flow path.





# **Product Dimensions (cont.)**



# **Coupling Bodies POLYSULFONE**

TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/2" NPT 1/2" BSPT 3/4" NPT 3/4" BSPT 3/4" GHT		STRAIGHT THRU FFC10835 FFC10835BSPT FFC101235 FFC101235BSPT FFC101235GHT	A 1.44 1.44 1.44 1.44	B 2.88 2.88 3.12 3.12 2.94	
TERMINATION IN-LINE PIPE THREAD (FEMALE)	THREAD SIZE 3/4" GHT 3/4" BSPP		STRAIGHT THRU FFC191235GHT FFC191235BSPP	<b>A</b> 1.44 1.44	B 2.70 2.70	
TERMINATION BULKHEAD PANEL MOUNT HOSE BARB	TUBING SIZE 3/4" ID	METRIC EQ. 19.0mm ID	STRAIGHT THRU FFC161235	<b>A</b> 1.82	<b>B</b> 2.94	
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 3/4" ID	METRIC EQ. 19.0mm ID	STRAIGHT THRU FFC171235	<b>A</b> 1.44	<b>B</b> 2.94	OF SOM

## **Accessories**

TERMINATION PANEL MOUNT GASKET REPLACEMENT	For sealing panel mount bodies listed above	MATERIAL EPDM	PART NO. 621200
TERMINATION GHT GASKET REPLACEMENT	For sealing female threads	MATERIAL FDA EPDM	<b>PART NO.</b> 2339400

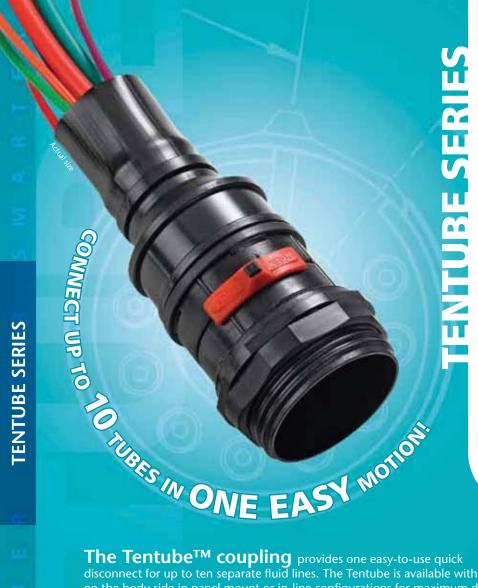


# **Coupling Inserts**

# **POLYSULFONE**

TERMINATION IN-LINE PIPE THREAD	THREAD SIZE 1/2" NPT 1/2" BSPT 3/4" NPT 3/4" BSPT 3/4" GHT		STRAIGHT THRU FFC24835 FFC24835BSPT FFC241235 FFC241235BSPT FFC241235GHT	A 1.16 1.16 1.23 1.23 1.16	B 1.95 1.95 2.14 2.14 2.01	non-valued
TERMINATION IN-LINE PIPE THREAD (FEMALE)	THREAD SIZE 3/4" GHT 3/4" BSPP		STRAIGHT THRU FFC261235GHT FFC261235BSPP	A 1.37 1.37	<b>B</b> 1.77 1.77	non-valued at the
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 3/4" ID	METRIC EQ. 19.0mm ID	STRAIGHT THRU FFC221235	<b>A</b> 1.00	<b>B</b> 2.02	non-valved so

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



#### **Pressure:**

Vacuum to 100 psi, 6.9 bar per line

#### **Temperature:**

Acetal fitting inserts:

-40°F to 180°F (-40°C to 82°C)

Polypropylene fitting inserts:

## 32°F to 180°F (0°C to 82°C)

Main components: Nylon

Valves: Acetal

**Materials:** 

Valve springs: 316 stainless steel

Fitting inserts: Acetal or polypropylene

**O-rings:** Buna-N with acetal or EPDM with polypropylene Panel mount adapter: Acetal

Tube shroud: Acetal

#### Color:

Main components:

Black with red locking latch

Tube shroud: Black

Panel mount adapter: Black

#### **Tubing Sizes:**

1/16" to 1/8" ID. 1.6mm to 3.2mm ID

The Tentube<sup>TM</sup> coupling provides one easy-to-use quick disconnect for up to ten separate fluid lines. The Tentube is available with valves on the body side in panel mount or in-line configurations for maximum design flexibility. The Tentube can connect and disconnect up to ten lines with the use of a simple slide latch. Tubing orientation is ensured by keying the coupling body and insert. Different fluids and tubing sizes can be accommodated by using acetal or polypropylene inserts in three popular sizes.

#### **Features**

Ten line connection Separate flow paths Insert is keyed to body Acetal or polypropylene inserts

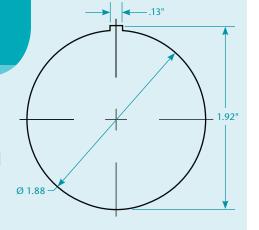
#### Benefits

Fast, efficient operation Pressure and/or vacuum in one coupling Ensures correct line orientation Maximize design flexibility

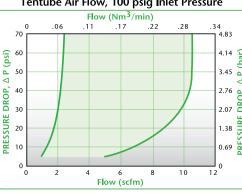
#### **Panel Mount Dimensions**

	PANEL	MAX. PANEL	MIN. PANEI
	OPENING	THICKNESS	THICKNESS
COUPLING BODIES	see drawing	.44	.06





#### Tentube Air Flow, 100 psig Inlet Pressure



# **Tentube Water Flow** Flow (lpm) .95 1.89 2.84 3.78 4.73 5.67 6.62 3.45 2.76 2.07 .75 1.00 1.25 1.50 1.75

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.

Don't forget: you can always visit <u>www.colder.com</u> for more product information.

**TUBING SIZE** 

Without fitting inserts

1/16" ID

1/8" ID

**TERMINATIONS** 

FITTING INSERTS

WITH MALE

**COUPLING INSERT** 

# **Tentube™ Complete**

# **ACETAL / POLYPROPYLENE**

TERMINATIONS COMPLETE COUPLING SET	TUBING SIZE 1/16" ID 1/8" ID	METRIC EQ. 1.6mm ID 3.0mm ID 3.2mm ID	STRAIGHT THRU TT1001 TT10M3 TT1002	SHUTOFF TTD1001 TTD10M3 TTD1002	STRAIGHT THRU TT100112 TT100212
TERMINATIONS COUPLING BODY WITH FEMALE FITTING BODIES	TUBING SIZE 1/16" ID 1/8" ID Without fitting bodies	METRIC EQ. 1.6mm ID 3.0mm ID 3.2mm ID	ACETAL STRAIGHT THRU TFB1001 TFB10M3 TFB1002 TFB10	ACETAL SHUTOFF TFBD1001 TFBD10M3 TFBD1002	POLYPROPYLENE STRAIGHT THRU TFB100112 TFB100212

METRIC EQ.

1.6mm ID

3.0mm ID

3.2mm ID

**ACETAL** 

TMB1001

TMB10M3

TMB1002

TMB10

STRAIGHT THRU



**STRAIGHT THRU** TMB100112 TMB100212

**POLYPROPYLENE** 

POLYPROPYLENE

## **Inserts & Bodies**

# **ACETAL / POLYPROPYLENE**

TERMINATIONS FITTING INSERTS (SEE NOTE ON PAGE 66)	TUBING SIZE 1/16" ID 1/8" ID	METRIC EQ. 1.6mm ID 3.0mm ID 3.2mm ID	ACETAL STRAIGHT THRU TMF01 TMFM3 TMF02		POLYPROPYLENE STRAIGHT THRU TMF0112 TMF0212
TERMINATIONS FITTING BODIES (SEE NOTE ON PAGE 66)	TUBING SIZE 1/16" ID 1/8" ID	METRIC EQ. 1.6mm ID 3.0mm ID 3.2mm ID	ACETAL STRAIGHT THRU TFF01 TFFM3 TFF02	ACETAL SHUTOFF TFFD01 TFFDM3 TFFD02	POLYPROPYLENE STRAIGHT THRU TFF0112 TFF0212

Note: Acetal bodies and inserts are also available in white. To order, add MWHT to the end of the part number.

## **Accessories**

PART NO. DESCRIPTION Tube shroud - snaps into either half TS10 Panel mount adapter & nut - 7/16" max. panel thickness; TPM10 requires 1.875" diameter hole



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.

SIXTUBE & TWIN TUBE

68



The Sixtube<sup>TM</sup> coupling provides one easy-to-use guick disconnect for up to six separate fluid lines. The Sixtube is available with valves on either side for maximum design flexibility. Featuring the Colder thumb latch, the Sixtube can disconnect up to six lines with the push of a button. The snap-in panel mount design keeps a low profile on the front of the equipment panel.

The Twin Tube<sup>TM</sup> coupling provides one easy-touse guick disconnect for two separate fluid lines. The non-valved Twin Tube maintains two individual flow paths in one coupling. Featuring the Colder thumb latch, the Twin Tube can disconnect two lines with the push of a button. The panel mount design keeps a low profile on the front of the equipment panel.

#### **Features**

Six/two line connection Separate flow paths

Sixtube insert is keyed to body

Free coupling rotation (Twin Tube) Colder thumb latch

#### Benefits

Fast, efficient operation Pressure and/or vacuum in one coupling

Ensures correct line orientation

Eliminates kinked tubing

One-hand connection and disconnection

# **Sixtube Specifications**

Pressure: Vacuum to 100 psi, 6.9 bar per line

#### **Temperature:**

Acetal fitting inserts:

-40°F to 180°F (-40°C to 82°C)

Polypropylene fitting inserts:

32°F to 180°F (0°C to 82°C)

#### **Materials:**

Main component: Acetal

Valves: Acetal

Fitting inserts: Acetal, polypropylene

Thumb latch: Acetal

Valve spring: 316 stainless steel

O-rings: Buna-N with acetal or EPDM with

polypropylene

**Color:** Natural white with aqua latch

#### **Tubing Sizes:**

1/16" to 1/8" ID, 1.6mm to 3.2mm ID

NOTE: Caution must be observed when ordering Sixtube assemblies Body and insert halves which both contain female or male fittings will not couple. Contact Colder for questions and ordering assistance.

# **Twin Tube Specifications**

Pressure: Vacuum to 120 psi, 8.3 bar per line

Temperature: -40°F to 180°F (-40°C to 82°C)

#### **Materials:**

Main components: Acetal, ABS Thumb latch: Stainless steel

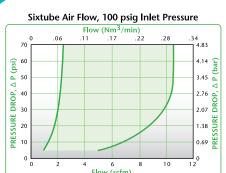
External springs and pin: Stainless steel

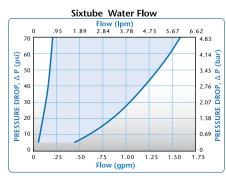
O-rings: Buna-N

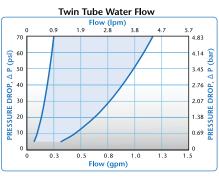
Color: Natural white (acetal), white (ABS)

#### **Tubing Sizes:**

1/16" to 1/8" ID, 1.6mm to 3.2mm ID







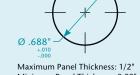
These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configurations selected, you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

# Sixtube<sup>™</sup> Insert **Panel Mount Dimensions** Panel Thickness: 1/8"

Twin Tube™ Body Panel Mount **Dimensions** 



**PANEL** PANEL **NUT HEX NUT THREAD** 13/16 11/16-24UNEF



**Sixtube Coupling Bodies** 

# **ACETAL / POLYPROPYLENE**

TERMINATION WITH MALE FITTING INSERTS	TUBING SIZE 1/16" ID 1/8" ID	METRIC EQ. 1.6mm ID 3.0mm ID 3.2mm ID	ACETAL STRAIGHT THRU SXM1701 SXM17M3 SXM1702	ACETAL SHUTOFF	POLYPROPYLENE STRAIGHT THRU SXM170112 SXM170212
WITH FEMALE FITTING BODIES	1/16" ID 1/8" ID	1.6mm ID 3.0mm ID 3.2mm ID	SXF1701 SXF17M3 SXF1702	SXFD1701 SXFD17M3 SXFD1702	SXF170112 SXF170212
TERMINATION WITHOUT FITTINGS			SX17		

**Sixtube Coupling Inserts** 

# **ACETAL / POLYPROPYLENE**

TERMINATION WITH MALE FITTING INSERTS	TUBING SIZE 1/16" ID 1/8" ID	METRIC EQ. 1.6mm ID 3.0mm ID 3.2mm ID	ACETAL STRAIGHT THRU SXM4201 SXM42M3 SXM4202	ACETAL SHUTOFF	POLYPROPYLENE STRAIGHT THRU SXM420112 SXM420212
WITH FEMALE FITTING BODIES	1/16" ID 1/8" ID	1.6mm ID 3.0mm ID 3.2mm ID	SXF4201 SXF42M3 SXF4202	SXFD4201 SXFD42M3 SXFD4202	SXF420112 SXF420212
TERMINATION WITHOUT FITTINGS			SX42		



Accessories



**DESCRIPTION** Sixtube pressure plugs (For fitting bodies or inserts, see page 67) PART NO. **TMPMWHT** 

# **Twin Tube Coupling Bodies**

# **ACETAL/ABS**

OSE BARB 1/8" ID 3.2mm ID P1C16020 P1C1602096	ERMINATION TUBING ANEL MOUNT 1/16" ID OSE BARB 1/8" ID		ACETAL STRAIGHT THRU PTC16010 PTC16020	ABS STRAIGHT THRU PTC1602096
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**Twin Tube Coupling Inserts** 

**ACETAL/ABS** 

**ACETAL** ABS TERMINATION TUBING SIZE STRAIGHT THRU **STRAIGHT THRU** METRIC EQ. 1/16" ID PTC22010 IN-LINE 1.6mm ID **HOSE BARB** 1/8" ID 3.2mm ID PTC22020 PTC2202096







Multi-Mount couplings provide one easy-touse coupling for connecting from three to five lines at once. Multi-mount couplings are available in a wide variety of materials including acetal and chrome-plated brass. Multimounts are keyed to prevent mismatched connections and can be configured with or without valves for maximum design

#### Features

Three to five line connection Separate flow paths Insert is keyed to body Acetal or chrome-plated brass

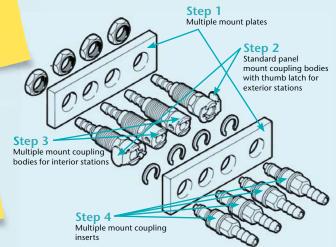
#### Benefits

Fast, efficient operation Pressure and/or vacuum in one coupling Ensures correct line orientation Maximize design flexibility

NOTE: To order in chrome-plated brass, eliminate the "P" at the beginning of the part number.

· Retaining clip is included with each insert.

Multiple mount inserts are designed for mounting in 1/4" thick plates.



#### **Specifications**

#### **Pressure:**

Minimum: Vacuum

**Maximum:** Brass = 500 psi / no. of stations or Acetal = 240 psi / no. of stations

#### **Temperature:**

-40°F to 180°F (-40°C to 82°C)

#### **Materials:**

Main components: Acetal or chrome-plated brass

Thumb latch: Stainless steel

Mounting Plate: Black anodized aluminum

Valves: Acetal

Valve spring: 316 stainless steel

External springs and pin: Stainless steel

O-ring: Buna-N

#### **Tubing Sizes:**

1/8" to 3/8" ID, 3.2mm to 9.5mm ID

#### **Four-Step Multi-Mount Ordering Process**

**Step 1:** Determine flow size and termination type.

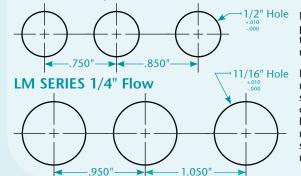
Step 2: Order two "multiple mount plates" (one for the coupling bodies and one for the coupling inserts) with the appropriate number of connection stations for your specific application (available in 3, 4, or 5 connections, or construct your own). Refer to page 73.

Step 3: Order two "standard panel mount coupling bodies with thumb latches" for the exterior stations.

**Step 4:** Order an appropriate number of "multiple mount coupling bodies without thumb latches" to accommodate the remaining interior stations.

**Step 5:** Order an appropriate number of "multiple mount inserts" to connect with standard and multiple mount bodies.

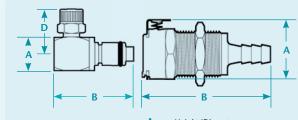
#### MM SERIES 1/8" Flow



Multiple mount plates are keyed to prevent

Multiple mount minimum coupling spacing: Colder offsets the last hole on the mounting plates so they cannot be misconnected.

#### **Product Dimensions**



B = Total Length (including valve)

D = Elbow Radial Length

#### **Retaining Rings**

#### SERIES MC/PMC 101700 LC/PLC 278100

#### **Multiple Mount Plates**

NUMBER OF				
STATIONS	1/8" FLOW SIZE	LENGTH	1/4" FLOW SIZE	LENGTI
3	CP103	2.60	LCP103	3.00
4	CP104	3.35	LCP104	3.35
5	CP105	4.10	LCP105	4.90



Turquoise shading indicates 1/8" flow couplings. These are not compatible with 1/4" flow couplings in non-shaded sections.

### **Coupling Bodies**

### **ACETAL**

TERMINATION PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID 1/4" OD, .17" ID 3/8" OD, .25" ID	METRIC EQ. 6.4mm OD, 4.3mm ID 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	PMM1204 PLM12004 PLM12006	SHUTOFF PMMD1204 PLMD12004 PLMD12006	A .72 .94 .94	B 1.72 1.82 1.95	
TERMINATION PANEL MOUNT HOSE BARB	TUBING SIZE 1/8" ID 3/16" ID 1/4" ID 1/4" ID 5/16" ID 3/8" ID	METRIC EQ. 3.2mm ID 4.8mm ID 6.4mm ID 6.4mm ID 7.9mm ID 9.5mm ID	PMM1602 PMM1603 PMM1604 PLM16004 PLM16005 PLM16006	PLMD16006 PLMD16005 PLMD16006	A .72 .72 .72 .94 .94	B 1.65 1.85 1.85 1.95 1.95	
TERMINATION PANEL MOUNT FEMALE THREAD	THREAD SIZE 10-32 UNF		STRAIGHT THRU PMM181032	SHUTOFF PMMD181032	A .72	B 1.25	

#### **Coupling Inserts**

### **ACETAL**

TERMINATION IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 5/32" OD, .10" ID 1/4" OD, .17" ID 1/4" OD, .17" ID 3/8" OD, .25" ID	METRIC EQ. 4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	STRAIGHT THRU PMM20025 PMM2004 PLM20004 PLM20006	SHUTOFF PMMD20025 PMMD2004 PLMD20004 PLMD20006	A .58 .58 .72 .72	B 1.86/1.96 1.77/1.87 2.10/2.23 2.02/2.15		
TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/8" ID 3/16" ID 1/4" ID 1/4" ID 5/16" ID 3/8" ID	METRIC EQ. 3.2mm ID 4.8mm ID 6.4mm ID 6.4mm ID 7.9mm ID 9.5mm ID	PMM2202 PMM2203 PMM2204 PLM22004 PLM22005 PLM22006	SHUTOFF PMMD2202 PMMD2203 PMMD2204 PLMD22004 PLMD22005 PLMD22006	A .56 .58 .58 .72 .72 .72	B 1.87/1.97 2.08/2.18 1.83/1.93 2.20/2.33 2.20/2.33 2.03/2.16		
TERMINATION ELBOW FERRULELESS POLYTUBE FITTING, PTF†	TUBING SIZE 1/4" OD, .17" ID	METRIC EQ. 6.4mm OD, 4.3mm ID	STRAIGHT THRU PMM2104	SHUTOFF PMMD2104	A .53	B 1.41/1.51	D .77	

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. tNOTE: Colder's Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.



**MULTI-MOUNT SERIES** 



Hybrid Connectors integrate air lines, electronics and fluid into a compact, single connection point for remote tools on medical devices and equipment. This groundbreaking connector technology eliminates the need for multiple connections and allows clinicians or therapy patients to quickly and easily change or replace modular tools umbilicals or hand pieces that require power, signal and gases.

Large Format Hybrid Connector Features multiple dry-break couplings and an easy-to-use twist latch for secure connection of multiple lines

#### **Features**

HYBRID CONNECTOR

Easy quarter turn latch Turnkey solution

Off-the-shelf assembly

Custom options available

#### Benefits

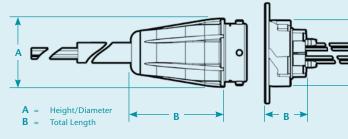
Minimizes engineering design

Design a connector for your unique requirements

Secure reliable connection Accelerate product development

and manufacturing effort

#### **Product Dimensions**



Ø 2.00"

**Coupling Hose** 

CONFIGURATION FLOW PATH 1 FLOW PATH 2 PART NO. HQC17000 2.00 2.80 1/8" ID (3.2mm) 1/16" (1.6mm)

Visit us at www.colder.com or call 651-645-0091 to get a free catalog CD or to find your local distributor.



#### **Coupling Panel**

CONFIGURATION	FLOW PATH 1	FLOW PATH 2	PART NO.	<b>A</b>	B
PANEL MOUNT	1/8" ID (3.2mm)	1/8" ID (3.2mm)	HQC42000	1.96	1.12
.,	1,0 12 (31211111)	., 6 .2 (5.2)			

#### **Hybrid Connector Specifications**

Pressure: Vacuum to 45 psi, 3.1 bar

Temperature: 40°F to 100°F (4°C to 38°C)

#### **Materials:**

Non-wetted coupler components: Glass-filled

polypropylene and acetal

Wetted coupler components: Glass-filled polypropylene

**Springs:** Stainless steel

**Electrical contacts:** Gold-plated brass

O-rings: EPDM **Tubing:** PVC

Color: Black

#### **Terminations:**

Panel: Two 1/8" (3.2mm) hose barbs on panel and four 20 ga wires with 12" (304.3mm) pigtail

**Hose:** 8' (2.44M) umbilical with one 1/8" (3.2mm) ID & one 1/16" (1.6mm) ID PVC tube and four 20ga wires with 3" (76.2mm) pigtail

Number of fluid lines: 2

#### **Electrical Specifications**

Voltage: Up to 24VDC Current: Up to 3 Amps

Wire gauge: 20AWG Number of contacts: 4

### **Mini Hybrid Connector Specifications** Pressure: Vacuum to 25 psi, 1.7 bar

Temperature: 40°F to 80°F (4°C to 27°C)

#### **Materials:**

External coupler components: PET Air coupler components: Acetal

**Springs:** Stainless steel

Panel Mount Nut: Zinc-plated steel Electrical contacts: Gold-plated brass

O-rings: Buna-N Air line: PVC

Color: Gray with gray hose

External umbilical hose: 4 feet

(1219.2mm) PVC

Wire: 22AWG PVC jacket

#### **Terminations:**

Panel: 1/16" hose barb and two 22AWG wires with

11" pigtail

Umbilical: 1/16" ID PVC tube and two 22AWG wires

**FLOW PATH** 

1/16" ID (1.6mm)

with 6" pigtail

Number of air lines: 1

#### **Electrical Specifications**

Voltage: Up to 24VDC

**Current:** Up to 3 Amps

Wire: 22AWG with PVC jacket

Number of contacts: 2

CONFIGURATION

### Mini Hybrid

**Connector** – A compact, single connection point with a smaller form factor that is ideal for use in low-pressure applications where ease of use and ergonomics are important. This valved connector makes it easy to connect power, signal and gases in one simple motion.



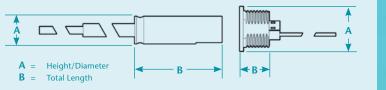
#### **Features**

Easy-to-use breakaway design Small package design Streamlined exterior Proven design

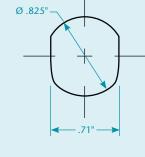
#### Benefits

Quick, automatic disconnect Minimize device size Clean, attractive appearance Accelerate product development

#### **Product Dimensions**







#### **Coupling Panel**

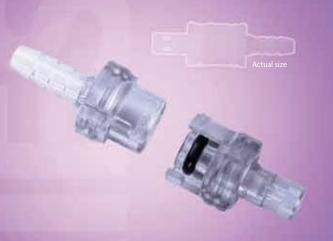
**CONFIGURATION FLOW PATH** PART NO. PANEL MOUNT 1/16" ID (1.6mm) MHQC42000 .825

.62

PART NO.

MHQC17000





The SMC is a twist-to-connect coupling that provides a reliable and more secure alternative to luer-type connections. It also allows for the tubing to rotate freely when connected. This important feature prevents both kinked tubing and accidental disconnection during use.

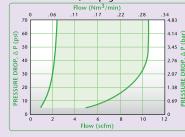
#### **Features**

Twist to connect Free coupling rotation Safer; prevents misconnections

#### **Benefits**

Prevents accidental disconnects Eliminates kinked tubing Does not mate to luers

#### SMC Air Flow, 100 psig Inlet Pressure



SMC Water Flow .95 1.89 2.84 3.78 4.73 5.67 6.62 .75 1.00 1.25 1.50 1.75 Flow (gpm)

These graphs are 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.

Q=Flow rate in gallons per minute C<sub>v</sub>=Average coefficient across various low rates (see chart)

S=Specific gravity of liquid

#### **Specifications**

Pressure: Vacuum to 100 psi, 6.9 bar

**Temperature:** 

-40°F to 250°F (-40°C to 121°C)

#### **Materials:**

Main components: Polycarbonate, USP Class VI, ADCF Locking sleeves: Polycarbonate, USP Class VI, ADCF

O-rings: Buna-N, USP Class V, ADCF

#### Color:

Main components: Purple tint

#### **Sterilization:**

Gamma: Up to 50 kGy irradiation

#### **Tubing Sizes:**

1/16" to 1/8" ID, 1.6mm to 3.2mm 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 products in their own application conditions

#### **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 to the right.

#### C, Values for Subminiature Couplings

BODIES	SMM01	SMM02	
SMF01	.03	.03	
SMF02	.03	.19	

### **Coupling Body**



**Product Dimensions** (See drawing on page 14)

**IN-LINE** HOSE BARB

**TERMINATION** 

TUBING SIZE METRIC EQ. STRAIGHT THRU 1/16" ID 1.6mm ID 1/8" ID 3.2mm ID

SMF0191

#### **Coupling Insert**



TERMINATION TUBING SIZE IN-LINE 1/16" ID **HOSE BARB** 1/8" ID

STRAIGHT THRU METRIC EO. 1.6mm ID SMM0191 .48 .75 3.2mm ID SMM0291 .48 .90

#### **Coupling Set**



1/16" ID

**TERMINATION HOSE BARB** 

1.6mm ID 3.2mm ID

SMC0191 SMC0291

#### .48 1.32 .48 1.61

.48 .75/.90

.48 .90

### **Specifications**

Pressure: Vacuum to 25 psi, 1.7 bar

**Temperature:** 32° to 110° F (0° to 43° C) (rated for shipment uncoupled up to 160° F)

#### **Materials:**

Main components: Polypropylene with overmolded

TPE\* pads, USP Class VI, ADCF

Integral seals: Overmolded TPE\*, USP Class VI, ADCF

**Color:** White with blue pads

Sterilization: EtO, e-beam or gamma

#### **Tubing Sizes:**

1/8" to 3/16" ID, 3.2mm to 4.8mm ID

Add "CL" to the end of the plastic SRC part numbers below for cleanroom manufactured versions.

### **SRC Water Flow** Flow (lpm) 2.3 3.4 4.5 5.7 This graph is intended to give you a general idea of the performance capabilities of the product. 0.9

PANEL MAX. PANEL MIN. PANEL **OPENING THICKNESS** THICKNESS 7/16

#### **COUPLING BODIES** AND INSERTS

PANEL PANEL **NUT THREAD** 

7/16-24UNS

## **Coupling Bodies**

TERMINATION TUBING SIZE METRIC EO. 3.2mm ID 1/8" ID 3/16" ID 4.8mm ID

STRAIGHT THRU SRC1702 .62



### **Coupling Inserts POLYPROPYLENE**

**TERMINATION TUBING SIZE** STRAIGHT THRU METRIC EQ. IN-LINE 1/8" ID 3.2mm ID SRC2202 .38 1.19 **HOSE BARB** 3/16" ID .38 1.19 4.8mm ID SRC2203

## STRAIGHT THRU

**TERMINATION PANEL MOUNT HOSE BARB** 

IN-LINE

**HOSE BARB** 

**TUBING SIZE** 1/8" ID 3/16" ID

METRIC EQ.

3.2mm ID 4.8mm ID

SRC4202CB .57 1.66 .57 SRC4203CB 1.66







The new SRC connector

sconnections with luer fittings. The

uitive design is simple for end users

operate and provides an audible "click"

r added assurance and a secure, leak-free

Benefits

applications

Won't connect to IV lines

Leak-free connections

or kinked tubina

**Product Dimensions** 

Height/Diamete

Total Length

and other non-compatible

Operators know when a secure,

Prevents accidental disconnect

reliable connection is made

connection. This new connector features a

unique elastomeric seal with a smooth, gap-free

flow path that provides better flow characteristics

and eliminates stagnant flow areas.

**Features** 

Prevents misconnections

Reliable elastomeric seals

Audible "click" and

Allows tubing rotation

positive feel

a small bore connector that

ninates the potential for

PART NO. SRC3L

**DESCRIPTION** Tethered cap and plug for SRC body and insert

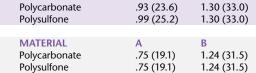
White medical-grade TPE



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

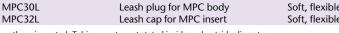
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### **Mating Parts** .93 (23.6) .99 (25.2)



.60 (15.2) 1.30 (33.0)





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

## **POLYSULFONE**

POLYCARBONATE

TERMINATION IN-LINE HOSE BARB	TUBING 1/8" ID 1/4" ID 3/8" ID	METRIC EQ. 3.2mm ID 6.4mm ID 9.5mm ID	FLOW .09" .210" .290"	STRAIGHT THRU MPC17002T39 MPC17004T39 MPC17006T39	A .96 (24.4) .96 (24.4) .96 (24.4)	B 1.10 (27.9) 1.30 (33.0) 1.30 (33.0)
IN-LINE HOSE BARB WITH LOCK	1/8" ID 1/4" ID 3/8" ID	3.2mm ID 6.4mm ID 9.5mm ID	.09" .210" .290"	MPCK17002T39 MPCK17004T39 MPCK17006T39	.99 (25.2) .99 (25.2) .99 (25.2)	1.10 (27.9) 1.30 (33.0) 1.30 (33.0)

STRAIGHT THRU

STRAIGHT THRU

MPC17002T03

MPC17004T03

MPC17006T03

MPCK17002T03

MPCK17004T03

MPCK17006T03

MPC17004T

MPC17006T

### **Coupling Inserts**

**Coupling Bodies** 

.96 (24.4) 1.30 (33.0)

.96 (24.4) 1.30 (33.0)

.96 (24.4) 1.10 (27.9)

.96 (24.4) 1.30 (33.0)

.96 (24.4) 1.30 (33.0)

.99 (25.2) 1.10 (27.9)

.99 (25.2) 1.30 (33.0)

.99 (25.2) 1.30 (33.0)

							<b>AB2</b>
TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	` '	B
IN-LINE	1/4" ID	6.4mm ID	.210"	MPC22004TM	Silicone Seal USP Class VI		1.30 (33.0)
HOSE BARB	3/8" ID	9.5mm ID	.290"	MPC22006TM	Silicone Seal USP Class VI		1.30 (33.0)
IN-LINE	1/4" ID	6.4mm ID	.210"	MPC22004T	Buna-N Seal USP Class V	` ,	1.30 (33.0)
HOSE BARB	3/8" ID	9.5mm ID	.290"	MPC22006T	Buna-N Seal USP Class V		1.30 (33.0)
					DOIVEAD	DON	LATE

					PULICAN	DUI	
TERMINATION IN-LINE HOSE BARB	TUBING 1/8" ID 1/4" ID 3/8" ID	METRIC EQ. 3.2mm ID 6.4mm ID 9.5mm ID	FLOW .09" .210" .290"	STRAIGHT THRU MPC22002T03M MPC22004T03M MPC22006T03M	O-RING Silicone Seal USP Class VI Silicone Seal USP Class VI Silicone Seal USP Class VI	.60 (15.2)	B 1.10 (27.9) 1.30 (33.0) 1.30 (33.0)
IN-LINE HOSE BARB	1/8" ID 1/4" ID	3.2mm ID 6.4mm ID	.09"	MPC22002T03 MPC22004T03	Buna-N Seal USP Class V Buna-N Seal USP Class V	.60 (15.2)	1.10 (27.9) 1.30 (33.0)

TERMINATION	TUBING	METRIC EQ.	FLOW	STRAIGHT THRU	O-RING	Α	B 110 (270)
					POLYS	ULF	ONE
TIOSE DARD	3/8" ID	9.5mm ID	.290"	MPC22006T03	Buna-N Seal USP Class V	` '	1.30 (33.0)

MPC22004T39M

MPC22006T39M



1/4" ID

3/8" ID

**HOSE BARB** 

TERMINATION

TERMINATION

**IN-LINE HOSE BARB** 

IN-LINE

IN-LINE

HOSE BARB

WITH LOCK

**HOSE BARB** 

TUBING

1/4" ID

3/8" ID

TUBING

1/8" ID

1/4" ID

3/8" ID

1/8" ID

1/4" ID

3/8" ID

METRIC EQ.

6.4mm ID

9.5mm ID

METRIC EQ.

3.2mm ID

6.4mm ID

9.5mm ID

3.2mm ID

64mm ID

9.5mm ID

FLOW

.210"

.290"

**FLOW** 

.09"

.210"

.290"

.09"

.210"

.290"

**SEALING CAP** MPC32003 MPC32039 **SEALING PLUG** 

MPC30039M

PART NO.

6.4mm ID

9.5mm ID

MPCK32039 O-RING MPC30003M

.210"

.290"

Silicone Seal USP Class VI Silicone Seal USP Class VI

**SEALING CAP W/LOCK** 

MPCK32003

DESCRIPTION

MATERIALS

Soft, flexible, medical-grade PVC Soft, flexible, medical-grade PVC

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



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" to 3/8" tubing. MPC couplings offer optional locking sleeves to further guard against accidental disconnects. In addition, coupling halves can be rotated when connected to reduce tube kinks.

#### **Features**

**MPC SERIES** 

Ergonomic thumb latch

**USP** Class VI materials

Sterilizable by autoclave, Et0, e-beam, or gamma Parting line-free hose barb **BSE/TSE** free materials

> Note: MPC Series mates with SaniQuikT Back-To-Back Body Adapters, and Sanitary Series.

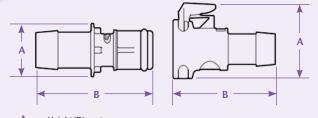
#### Benefits

Validated aseptic disconnect for pre-sterilized systems Meet biocompatibility requirements

Reusable, yet economical enough to allow disposability Eliminates potential leak path Meet ADCF requirements

> of 25 are available for validation testing!

#### **Product Dimensions**



A = Height/Diameter

B = Total Length

#### **Liquid Flow Rates**

#### **Liquid Flow Rate Information for Couplings**

**Specifications** 

Vacuum to 60 psi, 4.14 bar

**ABS:** -40°F to 160°F (-40°C to 71°C)

ABS (white), USP Class VI, ADCF

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

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

Polycarbonate (purple tint), USP Class VI, ADCF

Polysulfone (amber tint), USP Class VI, ADCF

Polysulfone (white), USP Class VI, ADCF

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

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

**MPC Water Flow** 

Flow (lpm) 75.7 113.6

20 30 Flow (gpm)

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.

151.4 189.3

3 45

2.07 💆

1.38 0.69

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.

Gamma: Up to 50 kGy irradiation

**Pressure:** 

**Materials:** 

**Temperature:** 

Main components:

Locking sleeves:

Thumb Latches:

**Sterilization:** 

Autoclave:

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=Flow rate in gallons per minute  $C_v$ =Average coefficient across various flow rates (see chart)  $\Delta P$ =Pressure drop across coupling (psi) S=Specific gravity of liquid

C., Values for MPC Couplings

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

Silicone Seal USP Class VI

Silicone Seal USP Class VI .60 (15.2) 1.30 (33.0)

MATERIAL



### **MPX Specifications**

Pressure: Vacuum to 60 psi, 4.14 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

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

#### **Sterilization:**

Gamma: Up to 50 kGy irradiation

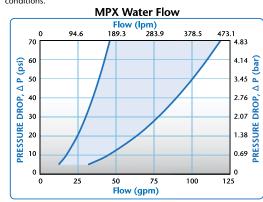
Polycarbonate: Up to 250°F (121°C), 30 minutes, up to 10 repetitions. Sterilize uncoupled only.

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

#### **Tubing Sizes:**

3/8" and 1/2" ID, 9.5mm and 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.



This graph is 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.

### **Features**

Ergonomic thumb latch **USP Class VI materials** Sterilizable by autoclave, Et0, e-beam, or gamma Parting line-free hose barb BSE/TSE free materials

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

#### 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: MPX Series mates with SaniQuikTH Back-To-Back Body Adapters, and Sanitary Series. (pages 80-82)

## A = Height/Diameter B = Total Length

TUBING SIZE METRIC EO. FLOW STRAIGHT THRU

TUBING SIZE METRIC EQ. FLOW STRAIGHT THRU

.500"

.500"

12.7mm ID

12.7mm ID

**TERMINATION** 

**TERMINATION** 

**HOSE BARB WITH** 

1/2" ID

1/2" ID

IN-LINE

IN-I INF

LOCK

HOSE BARB

#### **Product Dimensions**

#### **Coupling Bodies**

### **POLYCARBONATE**

TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/2" ID	METRIC EQ. 12.7mm ID	.500"	STRAIGHT THRU MPX17803	A 1.28 (32.5)	B 1.96 (49.8)
TERMINATION IN-LINE HOSE BARB WITH LOCK	TUBING SIZE	METRIC EQ.	FLOW	STRAIGHT THRU	A	B
	1/2" ID	12.7mm ID	.500"	MPXK17803	1.28 (32.5)	1.96 (49.8)

MPX17839

MPXK17839



### **POLYSHI FONE**

LOLI	JULI	OILL	
	A 1.28 (32.5)	B 1.96 (49.8)	

1.28 (32.5) 1.96 (49.8)





#### **Coupling Inserts**

### **POLYCARBONATE**

TERMINATION IN-LINE	3/8" ID	9.5mm ID	.375"	STRAIGHT THRU MPX22603M	Silicone Seal USP Class VI	` '	` '
HOSE BARB	1/2" ID	12.7mm ID	.500"	MPX22803M	Silicone Seal USP Class VI	.85 (21.6)	1.90 (48.3)



### **POLYSULFONE**

TERMINATION IN-LINE HOSE BARB	TUBING SIZE 3/8" ID 1/2" ID	9.5mm ID		STRAIGHT THRU MPX22639M MPX22839M	O-RING Silicone Seal USP Class VI Silicone Seal USP Class VI	` '	B 1.90 (48.3) 1.90 (48.3)	
-------------------------------------	-----------------------------------	----------	--	---	--	-----	---------------------------------	--



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



SEALING PLUG	O-RING	A	B
MPX30003M	Silicone Seal USP Class VI	1.10 (27.9)	1.66 (42.2)
SEALING PLUG	O-RING	<b>A</b>	B
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.



**MPX SERIES** 

#### **Specifications**

Pressure: Vacuum to 60 psi, 4.14 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.

#### **Termination Sizes:**

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

#### MPC/MPX Back-to-Back Body Adapters

allow end users the flexibility of connecting off-the-shelf singleuse systems that may feature identical coupling connections at the end of their tubing. A version with both MPC and a larger format MPX body will essentially provide a reducing option for users who need to transition from larger-sized tubing to smallersized tubing on two different single-use systems.

#### **Features**

Compatible with MPC and MPX Series inserts

**Tubing Reduction Option** 

Ergonomic thumb latches BSE/TSE free materials

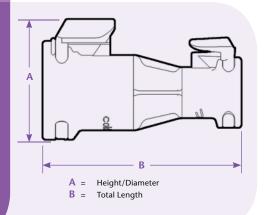
#### Benefits

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 76-77) and MPX polycarbonate and polysulfone inserts and sealing caps (pages 78-79)

#### **Back-To-Back Body Adapters**

#### POLYCARBONATE



MPC17C1703 MPX17X1703

MPC to MPC MPX to MPX

.96 (24.5) 1.28 (32.5) 1.28 (32.5) 1.81 (46.0) 2.13 (54.1) 2.44 (62.0)

#### **Back-To-Back Body Adapters**



MPC17C1739 MPX17X1739 MPC17X1739

MPC to MPC MPX to MPX MPC to MPX

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

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

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

**Specifications Pressure:** 

Vacuum to 60 psi, 4.14 bar

**Temperature:** 

-40°F to 300°F (-40°C to 149°C)

#### Materials:

#### Main components:

Polysulfone (amber tint), USP Class VI, ADCF

O-rings (mating insert): 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 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

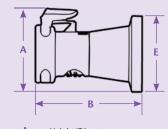
#### Benefits

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** 



A = Height/Diameter

B = Total Length (including valve)

E = Outside Diameter

Note: Mates with MPC and MPX ycarbonate and julfone bodies, nserts, sealing caps

## **Coupling Bodies**

## **POLYSULFONE**

PART NO.	SIZE	Α	В	E
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**



### LYSULFONE

	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)
3	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)

**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.



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



#### **Specifications**

Pressure:

Vacuum to 60 psi, 4.14 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", 1" and 1-1/2" sanitary

**Colder's SaniQuik**<sup>TM</sup> 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 costeffective media transfer solutions for feeding, harvesting or sampling applications.

#### **Features**

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

Compatible with MPC & MPX Series

Integral coupling adaptor

BSE/TSE free materials

#### Benefits

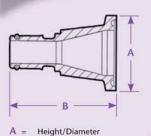
Connect to hard plumbed systems with sanitary gaskets and sanitary clamps

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

Note: Mates with MPC polycarbonate and polysulfone inserts and sealing plugs (pages 76-77) and MPX polycarbonate and polysulfone inserts and sealing caps



B = Total Length

#### Connections

### 316L STAINLE



DESCRIPTION SILICONE SEAL USP CLASS VI

SANITARY SANITARY PART NO. COUPLING SIZE BORE SQCC221212M MPC Series 3/4" 3/4" .98" (24.9) 1.39" (35.3) SQCC222424M MPC Series 1-1/2" 1.98" (50.3) 1.50" (38.1) 1-1/2" SOCX221212M MPX Series 3/4" 3/4" .98" (24.9) 1.43" (39.1) SQCX222416M MPX Series 1-1/2" 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



DESCRIPTION PLATINUM-CURED USP CLASS VI REPLACEMENT SEALS

PART NO. 2260100 2260200

MATING SANIQUIK SQCC221212M, SQCC222424M

SQCX221212M, SQCX222416M, SQCX222424M

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

### **Specifications**

Pressure: Vacuum to 35 psi, 2.41 bar

Temperature:

-40°F to 300°F (-40°C to 149°C)

#### Materials:

#### Main components:

Polysulfone (amber tint), USP Class VI, ADCF

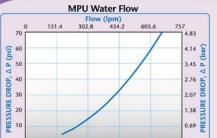
O-rings: Silicone (clear), platinum-cured, USP Class VI,

#### Sterilization:

Gamma: Up to 50 kGy irradiation

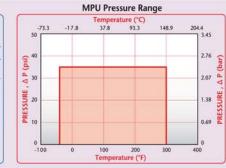
Autoclave: Up to 270°F (132°C) for 60 minutes, up to 25 repetitions. Sterilize uncoupled only.

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



80 120 Flow (gpm)

160



#### **Features** Benefits

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.

3/4" hose barb

Locking feature Sharp barb end

Shrouded, leak-free seal & smooth. internal flow path BSE/TSE free materials

### Facilitates rapid fill

and empty of bioprocessing bags

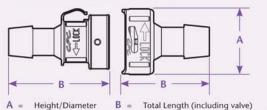
Guards against accidental disconnects

Minimizes fluid turbulence and dead space

Protect valuable fluids and eliminate potential to contaminate fluid path

Meet ADCF requirements

#### **Product Dimensions**



### **Coupling Bodies**

## IN-LINE

## POLYSULFONE

**HOSE BARB** 

TERMINATION TUBING METRIC EO. FLOW STRAIGHT THRU 3/4" ID 19.1mm ID .710" MPU171239

1.75 (44.5) 2.37 (60.2)

### **Coupling Inserts**

TERMINATION TUBING METRIC EQ. FLOW STRAIGHT THRU O-RING A IN-LINE 3/4" ID 19.1mm ID .710" MPU221239M Silicone Seal 1.56 (39.6) 2.88 (73.2) HOSE BARB USP Class VI



S	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.

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



MPU SERIES



#### **Specifications**

Pressure: Vacuum to 125 psi, 8.62 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



## HFC39 Series aseptic 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

#### **Features**

Simple One-Step Disconnection

Automatic shutoff valves

Audible "click"

Lightweight

BSE/TSE free materials

#### Benefits

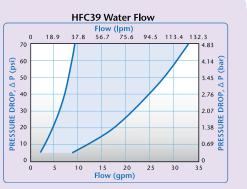
Maintains media sterility in each half by preventing external organisms from entering the flow path

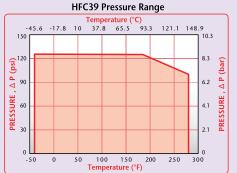
Stop flow and eliminate need for pinch clamps

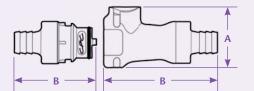
Provides confidence of a secure connection

Easy integration with single-use assémblies

Meet ADCF requirements







#### **Product Dimensions**

A = Height/Diameter

B = Total Length (including valve)

#### **Coupling Bodies**





### **POLYSULFONE**

TERMINATION	TUBING SIZE	METRIC EQ.	FLOW	STRAIGHT THRU	SHUTOFF	Α	В
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)

SEALING CAP		MATERIAL	A	B
HFC32039		Polysulfone	1.44 (36.6)	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)

### **Mating Parts**



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.

to make a quick and easy sterile connection between two single-use systems, even in nonsterile 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.

enable operators to make both a sterile connection and a sterile disconnection, all in one connector.

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.

uik 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 meet USP Class VI and ADCF requirements. Contact us for validation reports, biocompatibility and extractables data.

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

#### **AseptiQuik Specifications**

Pressure: Up to 60 psi, 4.1 bar

**Temperature:** 

39°F to 104°F (4°C to 40°C)

**Typical Flow Rate:** 

 $C_{y} = 14.4 \text{ max}$ 

#### **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

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

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

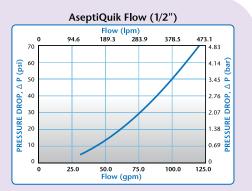
Polypropylene (clear), USP Class VI, ADCF

#### Seals:

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

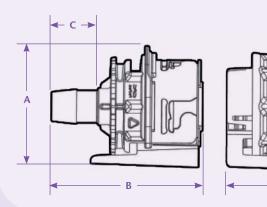
#### Membrane:

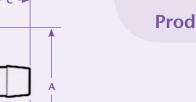
Polyethylene (standard version) Hydrophobic polyethersulfone (HT version)



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.	Α	В	C
1/2" HOSE BARB	AQC17008	2.36 (59.9)	2.95 (74.9)	0.89 (22.6)
3/8" HOSE BARB	AQC17006	2.36 (59.9)	2.74 (69.6)	0.65 (16.5)
3/4" SANITARY	AQC33012	2.36 (59.9)	2.73 (69.3)	0.70 (17.8)

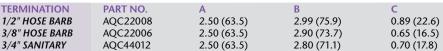


## POLYCARBONATE with White Pull Tabs

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

### **Coupling Inserts**

## **POLYCARBONATE** with Blue Pull Tabs



**Coupling Inserts - High Temperature** 

### **POLYCARBONATE** with White Pull Tabs

TERMINATION	PART NO.	Α	В	С
1/2" HOSE BARB	AQC22008HT	2.50 (63.5)	2.99 (75.9)	0.89 (22.6)
3/8" HOSE BARB	AQC22006HT	2.50 (63.5)	2.90 (73.7)	0.65 (16.5)
3/4" SANITARY	AQC44012HT	2.50 (63.5)	2.80 (71.1)	0.70 (17.8)

### **CLICK-PULL-TWIST Assembly Procedure**



Align male and female couplings, push together until "Colder Click" confirmation. Slight rotation of lock ring may be required for proper alignment prior to connection.





Twist the blue lock ring clock-wise until "Colder Click" and rib to arrow alignment confirms secure final connection.



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ASEPTIQUIK DC

**Coupling Bodies** 

C = Hose Barb Length

**Product Dimensions** 

## POLYCARBONATE with Blue Pull Tabs

TERMINATION 1/4" HOSE BARB AQCDC17004 2.36 (59.9) 5.33 (135.4) 0.60 (15.2) 5.33 (135.4) 0.60 (15.2) 3/8" HOSE BARB AOCDC17006 2.36 (59.9) 1/2" HOSE BARB AQCDC17008 2.36 (59.9) 5.62 (142.7) 0.89 (22.6)

**Coupling Bodies -** High Temperature

## POLYCARBONATE with White Pull Tabs

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

#### **Coupling Inserts**

## POLYCARBONATE with Blue Pull Tabs

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

**Coupling Inserts -** High Temperature

## **POLYCARBONATE** with White Pull Tabs

ERMINATION	PART NO.	Α	В	C
4" HOSE BARB	AQCDC22004HT	2.50 (63.5)	5.41 (137.4)	0.60 (15.2)
/8" HOSE BARB	AQCDC22006HT	2.50 (63.5)	5.41 (137.4)	0.60 (15.2)
2" HOSE BARB	AQCDC22008HT	2.50 (63.5)	5.70 (144.8)	0.89 (22.6)

### **CLICK-PULL-TWIST Assembly Procedure**



push together until audible

prior to connection.

"Colder Click" confirmation.

be required for proper alignment

Align male and female couplings, Snap membrane, pull tabs together and pull from connector. Slight rotation of lock ring may



Twist the blue lock ring clockwise until "Colder Click" and rib to arrow alignment confirms secure final connection.



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

**Sterilization:** 

39°F to 104°F (4°C to 40°C)

Gamma: Up to 50kGy irradiation

Pressure: Up to 60 psi, 4.1 bar

Autoclave:

**Temperature:** 

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 12.7)

**AseptiQuik DC Specifications** 

#### **Materials:**

Main Components:

Polycarbonate (white), USP Class VI, ADCF

Polycarbonate (blue), USP Class VI, ADCF

Polycarbonate (blue, standard version),

USP Class VI, ADCF

Polycarbonate (white, HT version),

USP Class VI, ADCF

Caps:

Polypropylene (clear), USP Class VI, ADCF

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

Membrane:

Polyethylene (standard version) Hydrophobic polyethersulfone (HT version)

Springs:

316 stainless steel

Mates with standard AseptiQuik halves. AQCOC Inserts mate with standard AQC Bodies AQCOC Bodies mate with standard AQC Inserts

#### **Features**

non-sterile environments.

CLICK-PULL-TWIST Design

sanitary clamps, fixtures or tube welders

Simple One-Step Disconnection

AseptiQuik DC Connectors are the first

all-in-one single-use connection technology to offer both a sterile connection and a sterile disconnection. With the AseptiQuik DC Connector, manufacturers can make a quick and easy sterile connection and disconnection, even in

AseptiQuik DC's intuitive "CLICK-PULL-TWIST" design enables

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

users to transfer media easily with less risk of operator error.

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

#### AseptiQuik DC Flow



performance of the product.

STEAM-THRU CONNECTIONS



#### **Specifications**

#### **Pressure:**

Steam position:

Up to 30 psi, 2.07 bar (Steam-Thru) up to

35 psi, 2.41 bar (Steam-Thru II)

Flow position: Vacuum to 20 psi, 1.38 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,

**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 guick 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**

Innovative three-port design

Patented valve design

Thumb latch/ Tear-away sleeve

Industry standard terminations

BSE/TSE free materials

#### Benefits

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

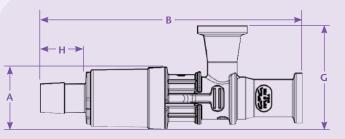
Allows sterile connection and disconnection and permits high media flow rate

Secures valve position, provides visual indicator of process stage

Speed connect to the process equipment and connect to popular sizes of flexible tubing Meet ADCF requirements

#### Steam-Thru® Configurations

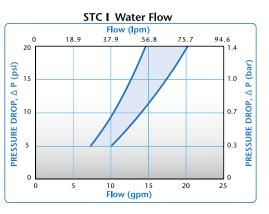
Steam-Thru® Connection's patented three-port design allows steam to pass directly through the lower ports to "steam on" to stainless equipment. After the SIP cycle is completed, the connector's valve is actuated, creating a sterile flow path to single-use systems.

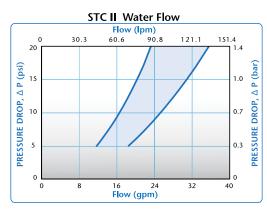


F = Actuated Length

### **POLYSULFONE**

DESCRIPTION WITH POLYETHYLENE SLEEVE	PART NO. STC1700000 STC1700100 STC1700200 STC1700300	TERMINATIONS  3/4" x 3/4" sanitary x 1/2" HB  3/4" x 3/4" sanitary x 3/8" HB  3/4" x 1-1/2" sanitary x 1/2" HB  3/4" x 1-1/2" sanitary x 3/8" HB	A 1.20 (30.5) 1.20 (30.5) 1.20 (30.5) 1.20 (30.5)	B 5.09 (129.3) 4.80 (121.9) 5.09 (129.3) 4.80 (121.9)	F 4.44 (112.8) 4.15 (105.4) 4.44 (112.8) 4.15 (105.4)	2.00 (50.8)	H 0.89 (22.6) 0.60 (15.2) 0.89 (22.6) 0.60 (15.2)
DESCRIPTION WITH AUTOCLAVABLE POLYCARBONATE SLEEVE	PART NO. STC1700500 STC1700600 STC1700700 STC1700800	TERMINATIONS  3/4" x 3/4" sanitary x 1/2" HB  3/4" x 3/4" sanitary x 3/8" HB  3/4" x 1-1/2" sanitary x 1/2" HB  3/4" x 1-1/2" sanitary x 3/8" HB	A 1.20 (30.5) 1.20 (30.5) 1.20 (30.5) 1.20 (30.5)	B 5.09 (129.3) 4.80 (121.9) 5.09 (129.3) 4.80 (121.9)	4.15 (105.4)	2.00 (50.8)	H 0.89 (22.6) 0.60 (15.2) 0.89 (22.6) 0.60 (15.2)



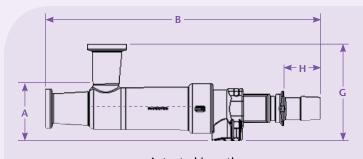


These graphs are intended to give you a general idea of the performance capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower values are shown. Therefore, depending on the exact coupling configurations selected, you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

#### 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.

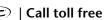


F = Actuated Length

### **POLYSULFONE**

TERMINATION	PART NO.	TERMINATIONS	Α	В	F	G	Н 🦠
	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.

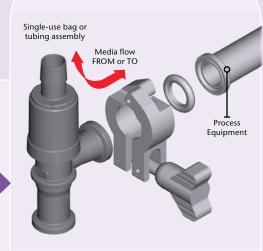


#### **Steam-Thru Process**

# **STEAM POSITION** To steam trap

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.

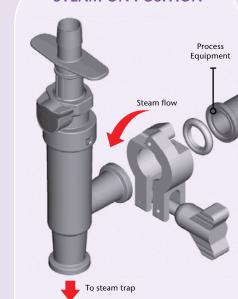
#### **FLOW POSITION**



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.

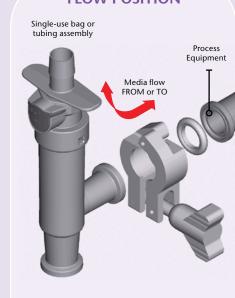
Steam-Thru II Process: An audible "click" and the visual indicator of the raised thumb latch provide assurance that the valve is locked in the flow or steam position.

#### **STEAM ON POSITION**



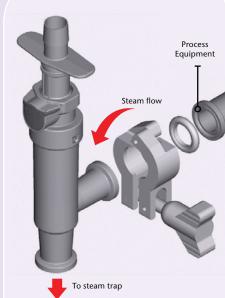
Steam flows from the process equipment through the Steam-Thru II creating a "steam on" sterile connection.

#### **FLOW POSITION**



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

#### **STEAM OFF POSITION**



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

DID YOU KNOW ... there are many advantages of single-use systems?

#### Increase Productivity

The reliability of single-use systems results in increased productivity through the reduction of system downtime associated with cleaning and cleaning validation.

#### **Add Flexibility**

Single-use systems can be easily modified for alternative media handling.

#### Minimize Risk

The integration of single-use systems can help minimize the risk of media contamination in multi-product manufacturing.

#### Reduce Cost

Cost savings include the reduced chemical and utility expenses of cleaning and labor.

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

### **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.

**Thumb** latch recessed during valve transition

#### **TRANSITION TO STEAM**

Once media transfer is complete, simply press the thumb latch to allow the valve to be moved back up to the steam position.



transition

#### The CQH and CQV Series are designed for high-purity use and feature all plastic construction. Molded, virgin materials and lubricant-free design enable use in the most demanding applications. Broad chemical compatibility and cleanroom manufacturing make them ideal for use in critical wet processes.

#### **Features**

100% metal free

High flow valve design Disconnect under pressure

Polypropylene and PVDF

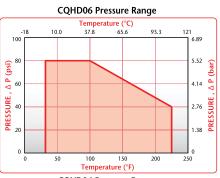
#### **Benefits**

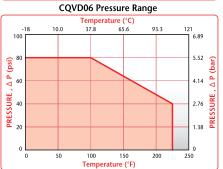
No risk of metal contaminants or corrosion

High flow in a compact package Speeds servicing and reduces risk of injury

Broad chemical compatibility

Visit <u>www.colder.com</u> for information about CQH and CQV modified product options.





#### **Specifications**

**CQH Pressure:** 0 - 80 psig (0 - 5.5 bar)

CQH Temperature: 32°F to 225°F (0°C to 107°C)

#### **CQH Materials:**

#### Main components:

Natural, virgin polypropylene

#### Valve o-rings:

Viton® FKM (black)

#### External insert o-ring:

Simriz® FFKM perfluoro (black)

Valve (wetted) and thumb latch spring: PEEK®

Flare nuts: PVDF

Lubricants: None used

**CQV Pressure:** 0 - 80 psig (0 - 5.5 bar)

CQV Temperature: 0°F to 225°F (-18°C to 107°C)

#### **CQV** Materials:

Main components:

Natural, virgin PVDF

Valve o-rings:

Chemraz FFKM perfluoro (white)

External insert o-ring:

Chemraz FFKM perfluoro (white)

Valve (wetted) and thumb latch spring: PEEK

Flare nuts: PVDF

Lubricants: None used

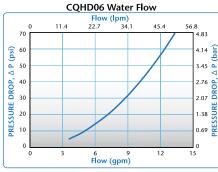
#### Spillage/air inclusion:

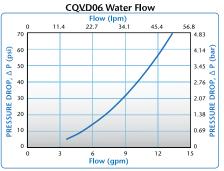
~1.5 cc (ml)/disconnect (reconnect)

#### **Tubing Sizes:**

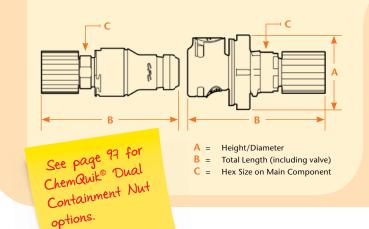
1/4" to 1/2" flare; 3/8" to 3/4" NPT

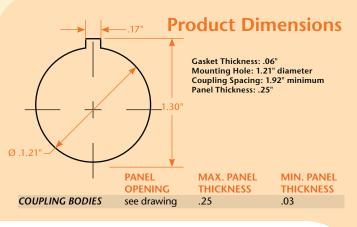
NOTE: CQH & CQV are also available with optional PPS springs and Chemraz





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.





#### **CQH Coupling Bodies**

### **POLYPROPYLENE**

TERMINATION IN-LINE	TUBING/THREAD SIZE 1/4" OD 3/8" OD 1/2" OD 3/8" Taper	TERMINATION TYPE Flare compression Flare compression Flare compression Male NPT	SHUTOFF CQHD06100104 CQHD06100106 CQHD06100108 CQHD06100206	A 1.44 1.44 1.44	B C 3.32 3.38 3.38 2.73 .995	West
TERMINATION PANEL MOUNT	TUBING/THREAD SIZE 1/4" OD 3/8" OD 1/2" OD 3/8" Taper	TERMINATION TYPE Flare compression Flare compression Flare compression Male NPT	SHUTOFF CQHD06110104 CQHD06110106 CQHD06110108 CQHD06110206	A 1.82 1.82 1.82 1.82	B C 3.32 3.38 3.37 2.73 .995	10



### **POLYPROPYLENE**

3/4" laper Male NPI CQHD06200212 1.16 2.26 1.05	FERMINATION N-LINE	TUBING/THREAD SIZE 1/4" OD 3/8" OD 1/2" OD 3/8" Taper 3/4" Taper	TERMINATION TYPE Flare compression Flare compression Flare compression Male NPT Male NPT	SHUTOFF CQHD06200104 CQHD06200106 CQHD06200108 CQHD06200206 CQHD06200212	A 1.00 1.00 1.00 1.16 1.16	B C 2.49 2.55 2.56 1.90 .995 2.26 1.05	
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### **CQV Coupling Bodies**

TERMINATION IN-LINE	TUBING/THREAD SIZE 1/4" OD 3/8" OD 1/2" OD 3/8" Taper	TERMINATION TYPE Flare compression Flare compression Flare compression Male NPT	SHUTOFF CQVD06100104 CQVD06100106 CQVD06100108 CQVD06100206	A 1.44 1.44 1.44 1.44	B C 3.31 3.38 3.37 2.70 1.00	Many
TERMINATION PANEL MOUNT	TUBING/THREAD SIZE 1/4" OD 3/8" OD 1/2" OD 3/8" Taper	TERMINATION TYPE Flare compression Flare compression Flare compression Male NPT	SHUTOFF CQVD06110104 CQVD06110106 CQVD06110108 CQVD06110206	A 1.82 1.82 1.82 1.82	B C 3.24 3.38 3.37 2.70 1.00	13/10



TERMINATION IN-LINE  TUBING/THREAD SIZE 1/4" OD 3/8" OD 1/2" OD 3/8" Taper	TERMINATION TYPE Flare compression Flare compression Flare compression Male NPT	SHUTOFF CQVD06200104 CQVD06200106 CQVD06200108 CQVD06200206	1.00 1.00 1.00 1.16	B C 2.41 2.57 2.57 1.89 1.00
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All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.



## A = Height/Diameter C = Hex Size on Main Component

B = Total Length

OPENING

see drawing .50

MAX. PANEL MIN. PANEL THICKNESS **THICKNESS** 

**Coupling Bodies** 

## **POLYPROPYLENE**

TERMINATION	TUBING/THREAD SIZE	TERMINATION TYPE	SHUTOFF	Α	В	С
IN-LINE	3/8" OD	Flare compression	CQGD06100106	1.96	4.21	
BODIES	1/2" OD	Flare compression	CQGD06100108	1.96	4.42	
	3/4" OD	Flare compression	CQGD06100112	1.96	4.49	
	1/2" Taper	Male NPT	CQGD06100208	1.96	3.81	1.00

COUPLING BODIES

**OR INSERTS** 

**Coupling Inserts** 

### **POLYPROPYLENE**

TERMINATION IN-LINE INSERTS	TUBING/THREAD SIZE 3/8" OD 1/2" OD 3/4" OD 3/8" Taper 1/2" Taper 3/4" Taper	TERMINATION TYPE Flare compression Flare compression Flare compression Male NPT Male NPT Male NPT	SHUTOFF CQGD06200106 CQGD06200108 CQGD06200112 CQGD06200206‡ CQGD06200208 CQGD06200212‡	A 1.62 1.62 1.62 1.62 1.62 1.62	B 4.35 4.45 4.63 3.81 3.95 4.15	1.00 1.00 1.00
	3/ 1 Tapel	Tridic 141 1	CQGD00200212#	1.02	1.15	1.00

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

## **Panel Mount Adaptor**

Panel mount adapter kit (fits both bodies & inserts) CQG06PMKIT01

The ChemQuik® Dual Containment System is an easy way to "double contain" critical chemical lines, protecting plant and personnel in case a primary process line ruptures or "sweats". The system provides a protective secondary line to catch any fluid and routes it to a safe location.

ChemQuik® Dual **Containment Flare Nuts** 

These fittings work with any ChemQuik coupling with fine thread flare terminations or a common flare style fitting. In addition, the panel mount version can be mounted into a pump cabinet or other panel mount connection point. The primary line can then be routed from the coupling directly to a pump, connected to a ChemQuik coupling or to a fitting at the panel mount fitting.

The "weep port" serves to vent the area between the primary and secondary lines so that pressure cannot build up in case of a primary line rupture. The leaking fluid can then be routed to a containment vessel or to a leak detector.

FLARE NUT	DESCRIPTION	FLARE FITTING	DESCRIPTION
CQDCNUT0408	Dual containment nut, 1/4" OD process line x 1/2" OD secondary containment line.	CQPMDCNUT0408	Panel mount dual containment nut, 1/4" OD Process line x 1/2" OD secondary containment line.
CQDCNUT0612	Dual containment nut, 3/8" OD process line x 3/4" OD secondary containment line.	CQPMDCNUT0612	Panel mount dual containment nut, 3/8" OD Process line x 3/4" OD secondary containment line.
CQDCNUT0812	Dual containment nut, 1/2" OD process line x 3/4" OD secondary containment line.	CQPMDCNUT0812	Panel mount dual containment nut, 1/2" OD Process line x 3/4" OD secondary containment line.
CQDCNUT1216	Dual containment nut, 3/4" OD process line x 1" OD secondary containment line.	CQPMDCNUT1216	Panel mount dual containment nut, 3/4" OD Process line x 1" OD secondary containment line.

**Specifications** 

**Materials:** Main components:

Flare nuts: PVDF

Flare nuts: PVDF

Panel nuts: HDPE

**Tubing Sizes:** 

**Lubricants:** None used

**Dual Containment Nut** and Panel Mount Fitting:

Virgin, natural polypropylene

Panel mount o-rings: Viton FKM

<0.1 cc (ml)/disconnect (reconnect)

Panel Mount: Optional adapter kit

3/8" to 3/4" flare; 3/8" to 3/4" NPT

Visit www.colder.com for information about CQH and CQV modified product options.

**CQGD06 Water Flow** 

**CQGD06 Pressure Range** 

Temperature (°C) -17.8 -6.7 4.4 15.6 26.7 37.8 48.9 60.0 71.1

80

90.8 113.6

3.45

Spillage/air inclusion:

**Pressure:** 0 - 80 psig (0 - 5.5 bar)

Natural, virgin polypropylene

Temperature: 32°F to 150°F (0°C to 66°C)

Seals: Viton® FKM (Simriz FFKM optional) Springs (non-wetted): Hastelloy® C

The CQG06 Series high purity couplings feature our patented pressure-balanced, non-spill design. Molded virgin polypropylene and a 100% springless flow path provide broad chemical resistance and exceptionally high flow capacity, allowing instant disconnects (and reconnects), even under pressure.

#### **Features**

Non-spill design

Pressure-balanced

Springless flow path design

Ultimate protection from chemicals

Failsafe disconnect, even under pressure; easy to reconnect

contaminants

#### **Benefits**

and fumes

at high pressure

Eliminates source of metallic

120

CQG SERIES

#### DrumQuik® PRO and DrumQuik® PUR

dispensing systems are used with common pumps to create a closed transfer system for both general and high purity chemicals. These easy-to-use products meet the strict safety requirements of chemical handling applications as well as the demands of harsh operating environments. DrumQuik® dispensing systems minimize chemical exposure and facilitate the delivery of chemicals from bulk transfer containers to end use applications.

For general chemical dispensing DrumQuik PRO offers a rugged and cost-effective solution. DrumQuik PUR is a 100% metal free. cleanroom packaged, PVDF product designed specifically for applications demanding the highest level of purity. All materials are compliant with FDA standards for food and consumables applications.

#### **Specifications**

#### Pressure:

**Uncoupled:** Vacuum to 45 psig (3.1 bar) Coupled: Vacuum to drum rating

#### **Temperature:**

**Drum insert:** -20°to 120°F (-29°to 49°C) Coupler: HDPE, 32° to 120°F (0° to 49°C) PVDF, 0° to 120°F (-18° to 49°C)

#### Materials:

#### Drum insert & dip-tube:

Virgin polyethylene (HDPE)

#### Shipping plug:

Virgin polyethylene (HDPE)

#### Coupler:

Virgin polypropylene (DrumQuik PRO) Virgin PVDF (DrumQuik PUR)

#### **Spring** (coupler only):

316 stainless steel, Hastelloy® C, virgin PEEK UHP, PPS or Teflon® encapsulated 316 stainless steel (TESS)

Coupler seals: EPDM, FKM, Simriz® UHP FFKM

Perfluoroelastomer

Bung seal: Polyolefin, EPDM, FKM Shipping plug seal: EPDM, FKM

#### **Torque specifications:**

2" Buttress - 20ft-lbs (27 N m) BCS 56x4 - 20ft-lbs (27 N m)

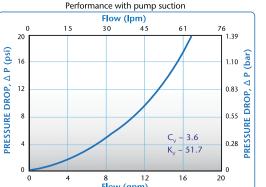
2" NPS (plastic drum) - 20ft-lbs (27 N m)

2" NPS (steel drum) - 15ft-lbs (20 N m)

Shipping plug - hand tight

NOTE: The torque specifications listed above are general recommendations which may need to be adjusted + or - depending on specific application.

#### DrumQuik PRO & DrumQuik PUR Water Flow



The graph above characterizes the flow of the DrumQuik PRO with the coupler vent port open to the atmosphere and a pump drawing liquid out

Visit <u>www.colder.com/dqpro</u> and click on Flow Performance Graphs for flow performance with other possible plumbing configurations.

#### **Couplers:** Polypropylene

	PART NUMBER	DESCRIPTION
	<b>DQPRO</b> 120312	3/4" Hose barb (EPDM seals, 316 SST spring)
Ä	DQPRO120208	1/2" Male NPT (EPDM seals, 316 SST spring)
7	DQPRO120208202	1/2" Male NPT (FKM seals, 316 SST spring)
5	<b>DQPRO</b> 120208206	1/2" Male NPT (EPDM seals, Hastelloy C spring)
ð	DQPRO120208207	1/2" Male NPT (FKM seals, Hastelloy C spring)
5	<b>DQPRO</b> 120712	3/4" Male BSPP (EPDM seals, 316 SST spring)
PR	<b>DQPRO</b> 120712202	3/4" Male BSPP (FKM seals, 316 SST spring)
	<b>DQPRO</b> 120712206	3/4" Male BSPP (EPDM seals, Hastelloy C spring)
	DQPRO120712207	3/4" Male BSPP (FKM seals, Hastelloy C spring)

#### Couplers: PVDF 3/4" Flare Termination

_		
	PART NUMBER	DESCRIPTION
	DQPUR120112	FKM liquid contact seals, FKM vent seal, PEEK plastic spring
~	DQPUR120112203	Simriz® FFKM liquid contact seals, FKM vent seal,
₹		PEEK plastic spring
¥	DQPUR120112208	FKM liquid contact seals, FKM vent seal, PPS plastic spring
2	<b>DQPUR</b> 120112209	Simriz FFKM liquid contact seals, FKM vent seal,
ž		PPS plastic spring
₽	<b>DQPUR</b> 120112210	FKM liquid contact seals, FKM vent seal, Teflon
۵		encapsulated 316 stainless steel (TESS) spring
	DQPUR120112211	Simriz FFKM liquid contact seals, FKM vent seal, Teflon
		encapsulated 316 stainless steel (TESS) spring

#### **Drum Inserts:** Polyethylene (HDPE)

	PART NUMBER	DESCRIPTION
æ	DQPRO202BUT	2" American buttress thread, EPDM seals (NA plastic drums)
PUR	DQPRO202BUT202	2" American buttress thread, FKM seals (NA plastic drums)
₹	DQPRO2056X4	BCS 56x4 thread, EPDM seals (European plastic drums)
፬	DQPRO2056X4202	BCS 56x4 thread, FKM seals (European plastic drums)
ĭ	DQPRO20G2NPSST	2" NPS (ISO G2) thread, EPDM seals
ਙ		(steel drums and IBC caps)
۵	DQPRO20G2NPSST202	2" NPS (ISO G2) thread, FKM seals
ૐ		(steel drums and IBC caps)
2	DQPRO20G2NPSPL	2" NPS (ISO G2) thread, EPDM flat bung seal
٥		(plastic drums and IBC caps)
3	DQPRO20G2NPSPL202	2" NPS (ISO G2) thread, FKM flat bung seal
ğ		(plastic drums and IBC caps)
2	DQPUR202BUT	2" American buttress thread, Polyolefin (POE) bung seal,
3		EPDM shipping plug seal
_	DQPUR202BUT202	2" American buttress thread, Polyolefin (POE) bung seal,
		FKM shipping plug seal

#### **Dip-Tubes:** Polyethylene (HDPE)

표	PART NUMBER	DESCRIPTION
& PUR	DQPRODT0410	13.0" (330mm) long for 5 gal/25L jerry cans
8	DQPRODT0985	35.5" (905mm) long for 55 gal/200L drums
PRO	DQPRODT1070	39.0" (990mm) long for 275 gal/1040L IBCs
7	DQPRODT1274	47.0" (1194mm) long for 330 gal/1250L IBCs
5	DQPURDT0410	13.0" (330mm) long for 5 gal/25L jerry cans
Ş	DQPURDT0985	35.5" (905mm) long for 55 gal/200L drums
چ	DQPURDT1070	39.0" (990mm) long for 275 gal/1040L IBCs
2	DQPURDT1274	47.0" (1194mm) long for 330 gal/1250L IBCs

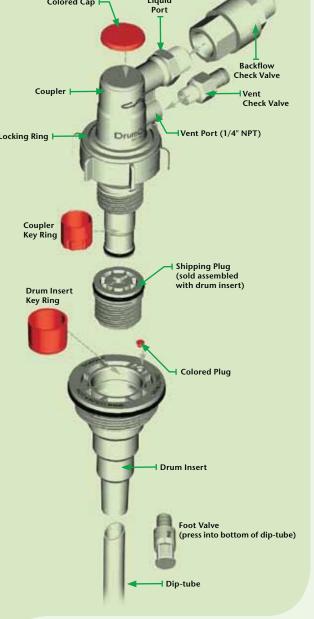
Note: Length indicated in part number is total length when assembled with insert, which is 80mm longer than the actual length of the dip-tube itself. Additional dip-tube lengths are available by custom order.

#### Assembled Drum Inserts & Dip-Tubes

	PART NUMBER	DESCRIPTION
PUR	DQPUR2BUT0410	Drum insert assembly, NAMPAC square jerry can, 20L, 330mm long (from sealing surface)
QUIK	DQPUR2BUT0985	Drum insert assembly with universal dip-tube (drum), 905mm long (from sealing surface)
ORUMO	DQPUR2BUT1070	Drum insert assembly with universal dip-tube (drum), 990mm long (from sealing surface)
٥	DQPUR2BUT1274	Drum insert assembly with universal dip-tube (IBC), 1194mm long (from sealing surface)

Note: Drum insert and dip-tube have been assembled in a cleanroom. Length indicated in part number is total length as measured from the sealing surface of the container to the end of the dip-tube. This is ~ 80mm longer than the actual length of the dip-tube itself.

#### DrumQuik® PRO & PUR **Dispensing Connector System**



### **Vapor Management Options:**

- 1. OPEN: Vent port left open to atmosphere
- 2. REMOTE: Vent port routed to fume hood, scrubber or vapor recovery system
- 3. CHECKED: Connect vent check valve to allow make-up air in without allowing fumes to escape
- 4. BLANKET GAS: Connect a Colder quick disconnect coupling for blanket gas (N<sub>2</sub>, CO<sub>2</sub>)
- 5. FILTERED: Connect vent filter

**DRUMQUIK PRO / DRUMQUIK PUR** 



#### DrumQuik® PRO and DrumQuik PUR

are changing the world of chemical management with their unique closed-system design. Innovative DrumQuik systems help companies reduce costs, increase worker safety and protect the environment. From basic chemical handling to specialty high purity and pharmaceutical applications, DrumQuik dispensing systems make chemical management cleaner, faster, safer and smarter.

#### **DrumQuik® Dispensing Systems for Safer Chemical Management**

Whether you're dispensing edible oils, condiments, detergents, Diesel Exhaust Fluid (DEF), or industrial chemicals, acids, caustics or solvents, DrumQuik PRO and the high purity DrumQuik PUR can make your process cleaner, faster, safer and smarter.

- Provide the critical connection between your chemical container and the end use process
- Create a closed transfer system to protect workers and keep a cleaner work environment

DrumQuik solutions are available for a variety of container types providing interchangeable, reusable connections for:

- Plastic or steel drums
- Chemical packs
- IBCs or totes

For high purity applications DrumQuik PUR provides the assurance of compatibility with chemicals used in semiconductor and flat panel production, pharmaceutical and photovoltaic or solar cell manufacturing.

materials compliant with FDA and RottS standards.

#### **DrumOuik PRO**

#### **Features**

Quick connect/disconnect Automatic shutoff valve Disposable drum insert

Ported vent system for vapor management

Multiple standard thread sizes

#### Benefits

Allows faster drum change-outs Stops flow when disconnected Reduces messy handling and chemical exposure

Allows make-up air into drum or connection of blanket gas (N,,CO,)

Can be used with many common steel and plastic containers

### **DrumQuik PUR**

#### **Features**

Quick connect/disconnect

All plastic construction

Automatic shutoff valve

Cleanroom manufactured

Disposable drum insert

#### Benefits

Allows faster drum change-outs

No metallic corrosion/ contamination

Stops flow when disconnected

Assures high level of purity

Minimizes chemical exposure &

## **ACCESSORIES**

#### **Color Coding and Keying Options** Colored Key Kits for Physical Coding: Polyethylene

DQPRO PART NUMBER	DQPUR PART NUMBER	DESCRIPTION
DQPROKEYCPGRY00	DQPURKEYCPGRY00	Key kit for coupler, gray
DQPROKEYCPRED01	DQPURKEYCPRED01	Key kit for coupler, red
DQPROKEYCPYEL02	DQPURKEYCPYEL02	Key kit for coupler, yellow
DQPROKEYCPGRN03	DQPURKEYCPGRN03	Key kit for coupler, green
DQPROKEYCPBRN04	DQPURKEYCPBRN04	Key kit for coupler, brown
DQPROKEYCPBLU05	DQPURKEYCPBLU05	Key kit for coupler, blue
DQPROKEYCPBLK99	DQPURKEYCPBLK99	Key kit for coupler, black
DQPROKEYCPCOMBO	DQPURKEYCPCOMBO	One of every coupler key ring
		and cap
Key kits for coupler include coupler DQPROKEYDIRED01	DQPURKEYDIRED01	Key kit for drum insert, red
DQPROKEYDIRED01 DQPROKEYDIYEL02	DQPURKEYDIRED01 DQPURKEYDIYEL02	Key kit for drum insert, red Key kit for drum insert, yellow
DQPROKEYDIRED01 DQPROKEYDIYEL02 DQPROKEYDIGRN03	DQPURKEYDIRED01 DQPURKEYDIYEL02 DQPURKEYDIGRN03	Key kit for drum insert, red Key kit for drum insert, yellow key kit for drum insert, green
DQPROKEYDIRED01 DQPROKEYDIYEL02 DQPROKEYDIGRN03 DQPROKEYDIBRN04	DQPURKEYDIRED01 DQPURKEYDIYEL02 DQPURKEYDIGRN03 DQPURKEYDIBRN04	Key kit for drum insert, red Key kit for drum insert, yellow key kit for drum insert, green Key kit for drum insert, brown
DQPROKEYDIRED01 DQPROKEYDIYEL02 DQPROKEYDIGRN03	DQPURKEYDIRED01 DQPURKEYDIYEL02 DQPURKEYDIGRN03	Key kit for drum insert, red Key kit for drum insert, yellow key kit for drum insert, green

#### **Color Coded Parts** Colored Caps & Button Plugs for Visual Coding: Polyethylene

PART NUMBER	DESCRIPTION	
DQPROCAPGRY00	Colored cap for coupler, gray	
DQPROCAPRED01	Colored cap for coupler, red	
DQPROCAPYEL02	Colored cap for coupler, yellow	
DQPROCAPGRN03	Colored cap for coupler, green	
DQPROCAPBRN04	Colored cap for coupler, brown	
DQPROCAPBLU05	Colored cap for coupler, blue	
DQPROCAPBLK99	Colored cap for coupler, black	
DQPROCAPCOMBO	One each of every color cap	
DQPROPLUGGRY00	Colored button plug for drum insert, gray	
DQPROPLUGRED01	Colored button plug for drum insert, red	
DQPROPLUGYEL02	Colored button plug for drum insert, yellow	
DQPROPLUGGRN03	Colored button plug for drum insert, green	
DQPROPLUGBRN04	Colored button plug for drum insert, brown	
DQPROPLUGBLU05	Colored button plug for drum insert, blue	
DQPROPLUGBLK99	Colored button plug for drum insert, black	
DQPROPLUGCOMBO	One each of every color plug	

<sup>\*</sup> Colored caps and button plugs can be used with both DrumQuik PRO and DrumQuik PUR.





DrumQuik® PRO & PUR

**Key Kits** 



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

**Easy Installation and** Dispensing

Fully press diptube into drum insert socket.



2 Place the drum insert assembly

in drum.



(3)Turn shipping plug counter-clockwise to remove. (Use a large, flat blade or #4 Phillips screwdriver.)

**ACCESSORIES** 



4 Insert coupler into drum insert assembly.



Turn the coupler locking ring-clockwise until stop is reached (approximately 2 full turns); valve is opened during this process.

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Visit <u>www.colder.com/dqpro</u> and click on Installation Guide for more information.

#### **Tools**

PART NUMBER	DESCRIPTION
2408900	Torque socket tool (blue, glass-filled nylon)
2479100	Bung wrench (aluminum)
2375600*	Key installation tool (for key kits)
	*Shipping plug may also be used to install keys
DQPURFT08	Flaring Tool, 1/2" tubing
DQPURFT12	Flaring Tool, 3/4" tubing

#### **Sample Kits**

(Includes one coupler, one insert and one dip-tube)		
PART NUMBER	DESCRIPTION	
DQPRONASAMP	2" Buttress drum insert, 905mm dip-tube, 1/2 NPT	
	coupler (EPDM O-rings, 316 SST spring in coupler)	
DQPRONASAMP207	2" Buttress drum insert, 905mm dip-tube, 1/2 NPT	
	coupler (FKM seals & Hastelloy C spring in coupler)	
DQPROEUSAMP	BSC 56x4 drum insert, 905mm dip-tube, 3/4 BSPP	
	coupler (EPDM seals, 316 SST spring in coupler)	
DQPROEUSAMP207	BSC 56x4 drum insert, 905mm dip-tube, 3/4 BSPP	
	coupler (FKM seals & Hastelloy C spring in coupler)	
DQPRONPSSTSAMP	2" NPS (ISO G2) drum insert, 905mm dip-tube, 1/2 NPT	
	coupler (EPDM Bung O-rings, 316 SST spring in coupler)	
DQPRONPSSTSAMP207	2" NPS (ISO G2) drum insert, 905mm dip-tube, 1/2 NPT	
	coupler (FKM seals & Hastelloy C spring in coupler)	
DQPRONPSPLSAMP	2" NPS (ISO G2) drum insert, 905mm dip-tube, 1/2	
	NPT coupler (EPDM Flat Gasket, 316 SST Spring)	
DQPRONPSPLSAMP207	2" NPS (ISO G2) drum insert, 905mm dip-tube, 1/2	
	NPT coupler (FKM seals & Hastelloy C spring in coupler)	
DQPURSAMP202	Kit includes 1 Coupler (DQPUR 12 0112 (PEEK & FKM)	
	& 1 assembled Dip-tube (DQPUR 2BUT 0985 202)	
DQPURSAMP209	Kit includes 1 Coupler (DQPUR 12 0112 209 (PPS & SIMRIZ)	
	& 1 Dip-tube assy. (DQPUR 2BUT 0985 202)	

#### **Shipping Plugs**

PART NUMBER	DESCRIPTION
DQPROPUMPAD	Internal 3/4 NPT Thread pump adaptor shipping plug
	(HDPE, EPDM)
DQPROPUMPAD202	Internal 3/4 NPT Thread pump adaptor shipping plug
	(HDPE, FKM)
DQPRPUMPAD202	Extended shipping plug for venting internal pressure from
DQPROSHPLUGEX	drum (HDPE, EPDM)
DQPROSHIPLUGEX202	Extended shipping plug for venting internal pressure from
	drum (HDPE, FKM)
2007900	Shipping plug for drum insert (Does not include shipping plug o-ring)
2290100	Shipping plug o-ring, EPDM
2307200	Shipping plug o-ring, FKM
DQPURSP	Shipping Plug with EPDM seal
DQPURSP202	Shipping Plug with FKM seal

#### **Replacement Parts**

PART NUMBER	DESCRIPTION
DQPURDISEALPOE	Drum insert POE bung seal
DQPURDISEALFEP	Drum insert FEP encapsulated silicone bung seal
DQPURCPSEALFKM	Coupler seal kit (2 seals), FKM
DQPURCPSEALSMZ	Coupler seal kit (2 seals), Simriz
2423400	Coupler o-ring kit, EPDM (Includes 2 o-rings)
2423500	Coupler o-ring kit, FKM (Includes 2 o-rings)
2166000	Drum insert flat gasket, 2" buttress, FDA EPDM
2166100	Drum insert flat gasket, 2" buttress, FKM
2165800	Drum insert o-ring, 2" NPS (ISO G2) EPDM for steel drums
2165900	Drum insert o-ring, 2" NPS (ISO G2) FKM for steel drums
2165800	Drum insert o-ring, BCS 56x4, EPDM (same as ISO G2 for steel)
2165900	Drum insert o-ring, BCS 56x4, FKM (same as ISO G2 for steel)
2525200	Drum insert flat gasket, 2" NPS (ISO G2) EPDM for plastic drums
2525300	Drum insert flat gasket, 2" NPS (ISO G2) FKM for plastic drums
2594900	Replacement Drum Insert Seal, 2" Buttress, FDA
EPDMDQPRO70X6AD	70 X 6 Adaptor with EPDM O-Ring
DQPRO70X6AD202	70 X 6 Adaptor with FKM (Viton®) O-Rings

#### Accessories

PART NUMBER	DESCRIPTION
Tether/Dust Cap	
DQPROTETHER	Tether/Dust Cap for use with DrumQuik PRO shipping plugs and couplers (PVC, Vinyl)
Coupler Vent Port Optior	ns
2879800	Vent check valve, 1/2" ID x 1/4" male NPT (316 SST, Santoprene)
2879801	Vent check valve, 1/2" ID x 1/4" male NPT (Hastelloy® C, FKM)
DQPROFIL01	Air filter, coupler vent port, 1/4" male NPT (polypropylene, 70 micron)
APCD24004	Vent coupling insert, 1/4" male NPT (Acetal, 316 SST, Buna-N)
APCD17004SH	Vent coupling body with shroud, 1/4" hose barb (Acetal, 316 SST, Buna-N)
APCD17006SH	Vent coupling body with shroud, 3/8" hose barb (Acetal, 316 SST, Buna-N)
EFCD24412	Vent coupling insert, 1/4" male NPT (Polypropylene, 316 SST, EPDM)
EFCD17412	Vent coupling body, 1/4" hose barb (Polypropylene, 316 SST, EPDM)
EFCD17612	Vent coupling body, 3/8" hose barb (Polypropylene, 316 SST, EPDM)
<b>NOTE:</b> Parts listed above are su blanket gas applications (see pa	ggested for use in the vent port, but any 1/4" NPT Colder coupling can be used for ige 97.)
Backflow Prevention Opt	tions   Material: Polypropylene
2478900	Check valve for couplers, 1/2" female NPT x 1/2" male NPT (EPDM, 302 SST)
2478901	Check valve for couplers, 1/2" female NPT x 1/2" male NPT (FKM, 302 SST)
2478902	Check valve for couplers, 1/2" female NPT x 1/2" male NPT (EPDM, Hastelloy C)
2478903	Check valve for couplers, 1/2" female NPT x 1/2" male NPT (FKM, Hastelloy C)
2479000	Foot valve for dip-tube, 1/2" hose barb (EPDM, 316 SST)
2479001	Foot valve for dip-tube, 1/2" hose barb (FKM, 316 SST)
2479002	Foot valve for dip-tube, 1/2" hose barb (FPDM, Hastelloy C)
2479003	Foot valve for dip-tube, 1/2" hose barb (FKM, Hastelloy C)
NOTE: Colder Products Compa	in y distributes the above check valves and foot valves. These valves are not produced of claims or warranty regarding suitability for use in specific applications.
Coupler Liquid Port Fitti	
2402600	1/2" female NPT x 3/8" OD compression
2402700	1/2" female NPT x 1/2" OD compression
2402800	1/2" female NPT x 5/8" OD compression
2402900	1/2" female NPT x 3/8" ID hose barb
2403000	1/2" female NPT x 1/2" ID hose barb
2403100	1/2" female NPT x 3/4" ID hose barb
DQPUR Accessory Fitting	
DQPUR MC0404	Male Connector, PVDF, 1/4" Flare x 1/4" NPT
DQPUR MC0604	Male Connector, PVDF, 3/8" Flare x 1/4" NPT
DQPUR MC0804	Male Connector, PVDF, 1/2" Flare x1/4" NPT
DQPUR FR1208	Flare Reducer, PFA, 3/4" Female Flare x 1/2" Male Flare
DQPUR FI1216	Flare Increaser, PFA, 3/4" Female Flare x 1" Male Flare
DQPUR TFMC1208	Female flare x male connector, PFA, 3/4" Female Flare x 1/2" Male NP
DQPUR SE0808	Sweep Elbow, PFA, 1/2" Female Flare x 1/2" Male Flare
DQPURSE1212	Sweep Elbow, PFA, 3/4" Female Flare x 3/4" Male Flare
DQPURDCPM0812	Double Containment Panel Mount Fitting, PFA, 1/2" process line x 3/4" secondary containment line
DODLIDD CDM1216	Double Containment Panel Mount Fitting, PFA,
IN PURIN PIVITAIN	
DQPURDCPM1216	3/4" process line x 1" secondary containment line
DQPURDCN0812	3/4" process line x 1" secondary containment line  Double Containment Adapter, PFA,
DQPURDCN0812	Double Containment Adapter, PFA, 1/2" process line x 3/4" secondary containment line
	Double Containment Adapter, PFA,













3/4" process line x 1" secondary containment line

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

**DRUMQUIK ACCESSORIES** 

(shown with HFC12 and NS4)





Universal Drum Adaptor Kit

#### DrumQuik® 3-Port UDA Kit Polypropylene

The 3-Port UDA features a 3/4" male NPT thread that mates with common containers, bung plugs and caps. The adaptor ports enable simultaneous chemical extraction, venting or application of blanket gas. In addition, the third port can be used to recirculate priming chemical to the container in metering pump applications.

Optional system components including foot valves, air filters and vent check valves are also available. For your convenience, Colder offers a variety of drum adaptor plugs to facilitate easy drum connections. (See plugs and caps on page 103.)

PART NO. DQUDA3PKIT	<b>DESCRIPTION</b> 3-port adaptor, EPDM seal, locking nut, 35.5" (905mm) dip-tube, $1/2$ " x $3/8$ " & $1/2$ " x $1/4$ " reducer bushings and $1/4$ " & $3/8$ " NPT plugs
DQUDA3PKIT202	3-port adaptor, FKM seal, locking nut, 35.5" (905mm) dip-tube, 1/2" x 3/8" $\&$ 1/2" x 1/4" reducer bushings and 1/4" $\&$ 3/8" NPT plugs
DQUDA3P	3-port adaptor bulk packaged (1/2" female NPT liquid outlet port, 3/8" $\&$ 1/4" NPT vent/recirculation ports)
DQUDA3PNUT	Locking nut for the 3-port adaptor
2717000	EPDM seal for the 3-port adaptor
2717100	FKM seal for the 3-port adaptor
2621100	Reducer bushing, black polypropylene, 1/2" male NPT x 3/8" female NPT
2621200	Reducer bushing, black polypropylene, 1/2" male NPT x 1/4" female NPT
2621300	Pipe plug, black polypropylene, 1/4" male NPT
2621400 Use with PLC, Non-Sp	Pipe plug, black polypropylene, 3/8" male NPT ill, EFC and ChemQuik Series couplings.

NOTE: DrumQuik® UDA 3-Port uses DrumQuik PRO dip-tubes and accessories.

#### **DrumQuik UDA Kit** Polypropylene

The DrumQuik® UDA Kit turns ChemQuik® or general purpose (HFC or NSH) couplings into a dip-tube that can easily be threaded into the 3/4" female NPS port of common drum closures. It provides a simple and inexpensive way to dispense chemicals in pumped systems. For your convenience, Colder offers a variety of drum adaptor plugs to facilitate easy drum connections. (See plugs and caps on page 103.)

Tress together to			
Dip-tube	Bushing	Coupling Insert	Coupling Body
		Coupling insert	Coupling Body
PART NO. DQUDAKITPP35	DESCRIPTION Adaptor & dip-t FKM seal	tube, 37" (889mm) long from	o-ring surface (approx.), Viton®
DQUDAKITPP55 Use with HFC, NSH ar		tube, 55" (1397mm) long, Vito eries couplings.	n FKM o-ring

#### **DrumQuik UDA Foot Valve**

PART NO. DQMFVPP0708	<b>DESCRIPTION</b> Foot valve for use with DrumQuik UDA dip-tubes, fits 1/2" OD
- ~	tubing, PTFE seal

#### **BottleQuik® UBA 2-Port Kit Polypropylene**

The BottleQuik® is intended for use on reagent bottles with SP400-38mm threads. It can be used in either the upright position or inverted and has two 3/8" female NPT ports for liquid and vent ports.

PART NO. DQUDACAP2PKITPP	<b>DESCRIPTION</b> 2-Port adaptor CAP for 38mm SP400 bottles & dip-tubes, 17.75" (451mm) long, Viton FKM o-ring. 3/8" female NPT liquid port, 3/8" female NPT vent port, 3/8" female NPT vent port.			
Use above kits with CQG, CQH and CQV Series couplings.				

#### **DrumQuik® Asian Drum Adaptors** Polypropylene

The DrumQuik® Asian drum adaptors allow ChemQuik® or general purpose (HFC or NSH) couplings to be easily connected to the unique threads common in many drum closures (with integral dip-tubes) manufactured in Asia, e.g., Kodama, Accelo, Stella, Dung Woo, etc. A 3/4" female NPT inner thread can accept any coupling or fitting with a 3/4" male NPT termination.

PART NO. DQADAPP0212 TYPE A	DESCRIPTION Adaptor, Viton® FKM seals, 3/4" female NPT inner port x 3/4" NPS male thread to fit drum plug.
DQADAPP0622 Type B	Adaptor, Viton FKM seals, $3/4$ " female NPT inner port x 1-3/8" male buttress thread to fit drum plug.

#### **DrumQuik Plugs and Caps**

For your convenience, Colder offers several sizes of common bung plugs and caps that have the internal 3/4" female NPS thread, into which the DrumQuik Universal Drum Adaptors/ChemQuik couplings are threaded.

PART NO. DQMBUNGPP2BUT12	<b>DESCRIPTION</b> Bung closure, polypropylene, EPDM o-ring, 2" buttress x 3/4" female NPS
DQMBUNGPP2NPS12	Bung closure, polypropylene, EPDM o-ring, 2" NPS x 3/4" female NPS
DQMBUNGPP56X412	Bung closure, polypropylene, EPDM o-ring, BCS56x4 x 3/4" female NPS
DQMBUNGPP70X612	Bung closure, polypropylene, EPDM o-ring, BCS70x6, 3/4" female NPS
DQMCAPPP70MM	Cap closure, polypropylene, EPDM o-ring, 70mm x 3/4" female NPS
DQMCAPPP63MM	Cap closure, polypropylene, EPDM o-ring, 63mm, 3/4" female NPS

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. **NOTE**: The DQ UDA kits are designed to work with Colder couplings that have 3/4" NPT male terminations. The DQ UDA 3-Port kits are designed to work with a 1/2" NPT male on the liquid port and a 1/4" NPT male on the vent port. A 1/2" male NPT to 1/4" female NPT reducer bushing may be required to accommodate smaller NS4, PLC and PMC Series couplings. BottleQuik features two 3/8" female NPT ports. NOTE: DrumQuik Adaptors are intended for end-use applications not requiring compliance with UN/



(shown with CQG and CQH)



For use with closure plugs with a 3/4" NPS









The patented 3/8" flow Universal Dispensing Coupler (UDC) provides a universal connection to a 38mm threaded or snap-in fitment neck. Make instant connections to bulk packaging systems including bag-in-box (BIB), flexible and rigid packaging styles. Automatic flush face valves minimize costly or dangerous spillage. An ergonomic design and a large, shrouded thumb latch pad produce a coupling that is easy to grip and simple to operate.

The UDC Series is also available with optional RFID (Radio Frequency Identification) capability.

#### **Features**

Universal 38mm cap Flush face/non-spill valves Integral terminations

Shrouded thumb latch RFID technology (iUDC only)

#### Benefits

Fits industry standard fitment necks Minimize spillage

Fewer leak points, shorter assemblies, faster installations

Protects against accidental disconnects Helps maintain warranty, integrity, brand protection

#### **Specifications**

#### **Pressure:**

20" Hg vacuum to 15 psi, 1 bar (body only)

#### **Temperature:**

32°F to 160°F (0°C to 71°C)

#### **Materials:**

Main body components and valves:

Polypropylene

#### Springs:

Body: 316 stainless steel Cap: 302 stainless steel

**UDC** caps: Acetal, polypropylene

#### O-rings (food grade):

UDC: EPDM, silicone, Buna-N

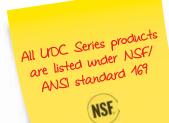
iUDC: EPDM. silicone CIP adapter: Acetal

**Color:** Light gray with dark gray latch

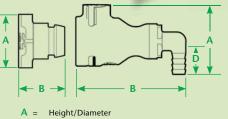
Closure Size: SP-400 thread/38mm snap-in

#### **Tubing Sizes:**

3/8" to 3/4" ID, 9.5mm to 19.0mm ID

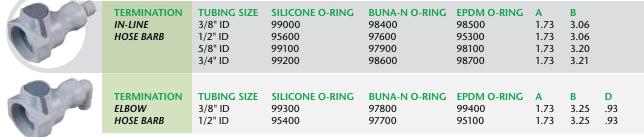


#### **Product Dimensions**



- B = Total Length
- D = Elbow Radial Length

#### **Coupling Bodies**



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

### Caps ACETA

**TERMINATION** DESCRIPTION SILICONE O-RING **BUNA-N O-RING** EPDM O-RING THREAD-ON. Without thread seal 97400 95800 96400 1.70 1.47 38MM, VALVED With thread seal 95801 96401 97401 1.70 1.47



#### **POLYPROPYLENE**

TERMINATION SNAP-IN 38MM VALVED	DESCRIPTION	SILICONE O-RING 9461300	<b>EPDM O-RING</b> 9500000	A 1.15	B 1.77
THREAD-ON,	With thread seal		9462000	1.70	1.48

NOTE: Snap-in closure designed to fit Scholle 900 bag necks.

### Clean-in-Place (CIP) Adapter ACETA

ERMINATION	DESCRIPTION	PART NO.	Α	В
I-LINE	1/2" HB (no o-ring)	96000	1.15	1.56

IN-LINE

HOSE BARB

PANFI MOUNT

**HOSE BARB** 

THREAD-ON

38MM, VALVED

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



IN-

#### The IdentiQuik® Series of

smart couplings are RFID enabled couplings used on equipment and in processes. RFID is an identification method that relies on remotely writing and reading data. Smart coupling applications include: inventory level meters, surgical tool identification, product protection and many more.

### **SMART COUPLINGS WITH RFID**

#### **IdentiOuik UDC Series**

3/8" ID

1/2" ID

5/8" ID

3/4" ID

1/4" ID

3/8" ID

1/2" ID

(( Identify misconnections: eliminate out-of-sequence connections or misconnections due to operator error

9.5mm ID

15.9mm ID

19mm ID

6.4mm ID

9.5mm ID

12.7mm ID

- (( Protect your brand: prevent out-of-date, incorrect or misapplied products from
- (( Prolong equipment life: prevent the accidental or unintentional use of harmful

**Product Dimensions** 

2.00

2.00

2.00

2.00

2.00

1.70

1.70

3.49

3.49

3.49

3.49

1.47

www.colder.com

iUDCDR1700400

iUDCDR1700600

iUDCDR1700800

iUDCDR1701000

iUDCDR1701200

iUDCDR1600600

iUDCDR1600800

iUDCDTCN3803

iUDCDTCS3803

iUDCDR1600400 Visit

((( Save time: automatic documentation of package and media lot numbers, date codes and more **Coupling Readers** 

#### **RFID Specifications**

**RF Communication** Range: Approximately 1"

**Operating voltage:** 8-24 V standard

**Power Consumption:** 1.2W Maximum

**Communications:** ASCII RS-232 (DB-9),

USB

#### **RFID Tag:** 13.56 MHz

ISO 15693 - 112 bytes programmable

#### **Temperature:**

32°F to 150°F (0 C to 66 C)

Patented

## THREAD-ON.

Caps

Without thread seal 38mm

DESCRIPTION

With thread seal

DESCRIPTION Without thread seal With thread seal		SHUTOFF iUDCDTCN3800 iUDCDTCS3800	A 1.70 1.70	B 1.48 1.48
	METRIC EQ.	SHUTOFF	A 1.62	B 1 76

METRIC EQ. SHUTOFF

SNAP-IN 38MM, VALVED

38MM, VALVED

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

Materials are listed on page 106. Customized parts (materials, voltage, termination, cable length, etc.) available. Call for more information.



**UDC SERIES** 

109

#### **Specifications**

Pressure: 120 psi, 8.3 bar (coupling body)

#### **Temperature:**

32°F to 160°F (0°C to 71°C)

#### **Materials:**

Main components and valves: Polypropylene

38mm closure: Polyethylene (LDPE)

Thumb latch: Stainless steel Valve spring: 316 stainless steel

External spring and pin: Stainless steel

O-rings: EPDM

Closure Size: SP-400 38mm

#### **Tubing Sizes:**

1/4" and 3/8" ID, 6.4mm and 9.5mm ID

Also available in NSF listed versions, please visit our web site for part number information

The 1/4" flow Puncture Seal dispensing system provides clean and safe liquid dispensing from bag-in-box (BIB) or other types of flexible packaging. The system consists of a Puncture Seal closure cap and a specially designed guick disconnect coupling body. The closure makes a positive thread or snap-in seal with a 38mm fitment neck. The Puncture Seal coupling body automatically breaks the membrane seal on the closure cap when connected. To switch to a new container, simply depress the Colder thumb latch to disconnect the system and then connect the Puncture Seal coupling body to a fresh container.

#### **Features**

Puncture Seal coupling

Polypropylene and polyethylene materials Puncture Seal membrane Colder thumb latch

#### Benefits

Easily breaks the Puncture Seal

Greater chemical resistance

Eliminates shipping caps and o-rings

One-hand connection and disconnection

METRIC EQ.

PSD1700412

PSD1700612

LENGTH	-
1.95	100
1.95	1



**Coupling Body** 

**Closure** 

### **POLYETHYLENE**

TERMINATION THREAD-ON, 38MM	PART NO. PSC38mm	LENGTH 1.7	HEIGHT 1.12
TERMINATION SNAP-IN 38MM	PART NO. 496200	LENGTH 1.88	HEIGHT 1.62

6.4mm ID

9.5 mm ID

1/4" ID

3/8" ID

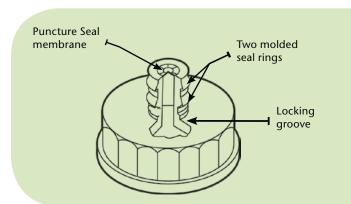
IN-LINE

HOSE BARB

NOTE: Part #496200 is designed to mate with the Hedwin Cubitainer® snap joint.

PS1700412

PS1700612



#### **DID YOU KNOW...**

Colder's Puncture Seal closures can be used to dispense virtually any liquid from flexible packages? The Puncture Seal makes transporting and dispensing cleaning concentrates, dry cleaning chemicals and soaps cleaner and safer. Printing inks, photo developers and dying agents can also be dispensed quickly and easily, without messy drips or spills. The Puncture Seal can also be used with beverage and condiment dispensing systems, just look for the NSF-listed part numbers.

### **>>>** FitQuik™ Connectors



FitQuik<sup>™</sup> Connectors from Colder Products Company are high quality fittings for leak-free tubing connections. These precision molded fittings are designed to eliminate tubing leak points in applications such as medical devices, analytical instrumentation or air-driven equipment.

Cost-competitive FitQuik Connectors are offered in many standard configurations or in custom designs to meet unique customer specifications.

#### **Feature**

- Single, sharp hose barbs
- Parting line-free hose barbs
- Instrumentation grade materials

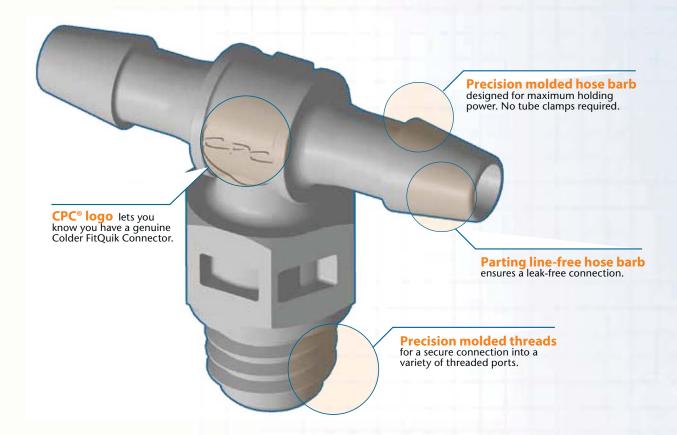
#### **Benefit**

- Won't disconnect from tubing
- Eliminates potential leak point
- Reduced breakage in demanding applications

Materials available: Black and white nylon, polypropylene

### Designed to Fit

Quality FitQuik™ Connectors are instrumentation grade fittings that ensure a secure fit in even the most demanding applications. These fittings feature precise hose barbs and thread forms to ensure the right fit, every time.





## **TUBE TO TUBE**

### **TUBE TO TUBE FITTINGS - STRAIGHT**

PART NO.	DESCRIPTION
HS2 HS230 HS231 HS291	Polypropylene Straight Fitting with 1/16" Hose Barbs White Nylon Straight Fitting with 1/16" Hose Barbs Black Nylon Straight Fitting with 1/16" Hose Barbs Purple Tint Polycarbonate Straight Fitting with 1/16" Hose Barbs
HS3 HS330 HS331 HS391	Polypropylene Straight Fitting with 3/32" Hose Barbs White Nylon Straight Fitting with 3/32" Hose Barbs Black Nylon Straight Fitting with 3/32" Hose Barbs Purple Tint Polycarbonate Straight Fitting with 3/32" Hose Barbs
HS4 HS430 HS431 HS491	Polypropylene Straight Fitting with 1/8" Hose Barbs White Nylon Straight Fitting with 1/8" Hose Barbs Black Nylon Straight Fitting with 1/8" Hose Barbs Purple Tint Polycarbonate Straight Fitting with 3/32" Hose Barbs
HS5 HS530 HS531 HS591	Polypropylene Straight Fitting with 5/32" Hose Barbs White Nylon Straight Fitting with 5/32" Hose Barbs Black Nylon Straight Fitting with 5/32" Hose Barbs Purple Tint Polycarbonate Straight Fitting with 3/32" Hose Barbs
HS6 HS630 HS631 HS691	Polypropylene Straight Fitting with 3/16" Hose Barbs White Nylon Straight Fitting with 3/16" Hose Barbs Black Nylon Straight Fitting with 3/16" Hose Barbs Purple Tint Polycarbonate Straight Fitting with 3/32" Hose Barbs
HS8 HS830 HS831 HS891	Polypropylene Straight Fitting with 1/4" Hose Barbs White Nylon Straight Fitting with 1/4" Hose Barbs Black Nylon Straight Fitting with 1/4" Hose Barbs Purple Tint Polycarbonate Straight Fitting with 3/32" Hose Barbs
HS12 HS1230 HS1231	Polypropylene Straight Fitting with 3/8" Hose Barbs White Nylon Straight Fitting with 3/8" Hose Barbs Black Nylon Straight Fitting with 3/8" Hose Barbs

### **TUBE TO TUBE FITTINGS - ELBOW**

	PART NO.	DESCRIPTION
-	HE2	Polypropylene Elbow Fitting with 1/16" Hose Barbs
(Inches)	HE230	White Nylon Elbow Fitting with 1/16" Hose Barbs
	HE231	Black Nylon Elbow Fitting with 1/16" Hose Barbs
	HE291	Purple Tint Polycarbonate Elbow Fitting with 1/16" Hose Barbs
	HE3	Polypropylene Elbow Fitting with 3/32" Hose Barbs
	HE330	White Nylon Elbow Fitting with 3/32" Hose Barbs
	HE331	Black Nylon Elbow Fitting with 3/32" Hose Barbs
	HE391	Purple Tint Polycarbonate Elbow Fitting with 3/32" Hose Barbs
100		

Note: Parts not shown to scale. For customer drawings and technical specifications please visit www.colder.com

## **TUBE TO TUBE**

### **TUBE TO TUBE FITTINGS - ELBOW**

PART NO.	DESCRIPTION	
HE4 HE430 HE431 HE491	Polypropylene Elbow Fitting with 1/8" Hose Barbs White Nylon Elbow Fitting with 1/8" Hose Barbs Black Nylon Elbow Fitting with 1/8" Hose Barbs Purple Tint Polycarbonate Elbow Fitting with 1/8" Hose Barbs	7
HE5 HE530 HE531 HE591	Polypropylene Elbow Fitting with 5/32" Hose Barbs White Nylon Elbow Fitting with 5/32" Hose Barbs Black Nylon Elbow Fitting with 5/32" Hose Barbs Purple Tint Polycarbonate Elbow Fitting with 5/32" Hose Barbs	4
HE6 HE630 HE631 HE691	Polypropylene Elbow Fitting with 3/16" Hose Barbs White Nylon Elbow Fitting with 3/16" Hose Barbs Black Nylon Elbow Fitting with 3/16" Hose Barbs Purple Tint Polycarbonate Elbow Fitting with 3/16" Hose Barbs	
HE8 HE830 HE831 HE891	Polypropylene Elbow Fitting with 1/4" Hose Barbs White Nylon Elbow Fitting with 1/4" Hose Barbs Black Nylon Elbow Fitting with 1/4" Hose Barbs Purple Tint Polycarbonate Elbow Fitting with 1/4" Hose Barbs	
HE12 HE1230 HE1231	Polypropylene Elbow Fitting with 3/8" Hose Barbs White Nylon Elbow Fitting with 3/8" Hose Barbs Black Nylon Elbow Fitting with 3/8" Hose Barbs	4

### **TUBE TO TUBE FITTINGS - TEE**

PART NO.	. DESCRIPTION	
HT2 HT230 HT231 HT291	Polypropylene Tee Fitting with 1/16" Hose Barbs White Nylon Tee Fitting with 1/16" Hose Barbs Black Nylon Tee Fitting with 1/16" Hose Barbs Purple Tint Polycarbonate Tee Fitting with 1/16" Hose Barbs	7
HT3 HT330 HT331 HT391	Polypropylene Tee Fitting with 3/32" Hose Barbs White Nylon Tee Fitting with 3/32" Hose Barbs Black Nylon Tee Fitting with 3/32" Hose Barbs Purple Tint Polycarbonate Tee Fitting with 3/32" Hose Barbs	F
HT4 HT430 HT431 HT491	Polypropylene Tee Fitting with 1/8" Hose Barbs White Nylon Tee Fitting with 1/8" Hose Barbs Black Nylon Tee Fitting with 1/8" Hose Barbs Purple Tint Polycarbonate Tee Fitting with 1/8" Hose Barbs	T
HT5 HT530 HT531 HT591	Polypropylene Tee Fitting with 5/32" Hose Barbs White Nylon Tee Fitting with 5/32" Hose Barbs Black Nylon Tee Fitting with 5/32" Hose Barbs Purple Tint Polycarbonate Tee Fitting with 5/32" Hose Barbs	7





## **TUBE TO TUBE**

### **TUBE TO TUBE FITTINGS - TEE**

- No.	PART NO.	DESCRIPTION
	HT6	Polypropylene Tee Fitting with 3/16" Hose Barbs
	HT630	White Nylon Tee Fitting with 3/16" Hose Barbs
	HT631	Black Nylon Tee Fitting with 3/16" Hose Barbs
	HT691	Purple Tint Polycarbonate Tee Fitting with 3/16" Hose Barbs
4	HT8 HT830 HT831	Polypropylene Tee Fitting with 1/4" Hose Barbs White Nylon Tee Fitting with 1/4" Hose Barbs Black Nylon Tee Fitting with 1/4" Hose Barbs
	HT891	Purple Tint Polycarbonate Tee Fitting with 1/4" Hose Barbs
The same of the sa	HT12	Polypropylene Tee Fitting with 3/8" Hose Barbs
	HT1230	White Nylon Tee Fitting with 3/8" Hose Barbs
	HT1231	Black Nylon Tee Fitting with 3/8" Hose Barbs

### **TUBE TO TUBE FITTINGS - Y**

TOBE TO TOBE TITTINGS - I			
	PART NO.	DESCRIPTION	
W.	HY2 HY230 HY231 HY291	Polypropylene Y Fitting with 1/16" Hose Barbs White Nylon Y Fitting with 1/16" Hose Barbs Black Nylon Y Fitting with 1/16" Hose Barbs Purple Tint Polycarbonate Y Fitting with 1/16" Hose Barbs	
7	HY3 HY330 HY331 HY391	Polypropylene Y Fitting with 3/32" Hose Barbs White Nylon Y Fitting with 3/32" Hose Barbs Black Nylon Y Fitting with 3/32" Hose Barbs Purple Tint Polycarbonate Y Fitting with 3/32" Hose Barbs	
7	HY4 HY430 HY431 HY491	Polypropylene Y Fitting with 1/8" Hose Barbs White Nylon Y Fitting with 1/8" Hose Barbs Black Nylon Y Fitting with 1/8" Hose Barbs Purple Tint Polycarbonate Y Fitting with 1/8" Hose Barbs	
THE	HY5 HY530 HY531 HY591	Polypropylene Y Fitting with 5/32" Hose Barbs White Nylon Y Fitting with 5/32" Hose Barbs Black Nylon Y Fitting with 5/32" Hose Barbs Purple Tint Polycarbonate Y Fitting with 5/32" Hose Barbs	
T	HY6 HY630 HY631 HY691	Polypropylene Y Fitting with 3/16" Hose Barbs White Nylon Y Fitting with 3/16" Hose Barbs Black Nylon Y Fitting with 3/16" Hose Barbs Purple Tint Polycarbonate Y Fitting with 13/16" Hose Barbs	
7	HY8 HY830 HY831 HY891	Polypropylene Y Fitting with 1/4" Hose Barbs White Nylon Y Fitting with 1/4" Hose Barbs Black Nylon Y Fitting with 1/4" Hose Barbs Purple Tint Polycarbonate Y Fitting with 1/4" Hose Barbs	

Note: Parts not shown to scale. For customer drawings and technical specifications please visit www.colder.com

## **TUBE TO TUBE**

### **TUBE TO TUBE FITTINGS - Y**

PART NO.	DESCRIPTION
HY12	Polypropylene Y Fitting with 3/8" Hose Barbs
HY1230	White Nylon Y Fitting with 3/8" Hose Barbs
HY1231	Black Nylon Y Fitting with 3/8" Hose Barbs
	<b>TUBE TO TUBE FITTINGS - STRAIGHT REDUCER</b>
PART NO.	DESCRIPTION
HSR32	Polypropylene Reducer Fitting, 3/32" to 1/16" Hose Barb

HSR3230 HSR3231 HSR3291	White Nylon Reducer Fitting, 3/32" to 1/16" Hose Barb  Black Nylon Reducer Fitting, 3/32" to 1/16" Hose Barb  Purple Tint Polycarbonate Reducer Fitting, 3/32" to 1/16" Hose Barb
HSR42	Polypropylene Reducer Fitting, 1/8" to 1/16" Hose Barb
HSR4230	White Nylon Reducer Fitting, 1/8" to 1/16" Hose Barb
HSR4231	Black Nylon Reducer Fitting, 1/8" to 1/16" Hose Barb
HSR4291	Purple Tint Polycarbonate Reducer Fitting, 1/8" to 1/16" Hose Barb
HSR43	Polypropylene Reducer Fitting, 1/8" to 3/32" Hose Barb
HSR4330	White Nylon Reducer Fitting, 1/8" to 3/32" Hose Barb
HSR4331	Black Nylon Reducer Fitting, 1/8" to 3/32" Hose Barb
HSR4391	Purple Tint Polycarbonate Reducer Fitting, 1/8" to 3/32" Hose Barb
HSR52	Polypropylene Reducer Fitting, 5/32" to 1/16" Hose Barb
HSR5230	White Nylon Reducer Fitting, 5/32" to 1/16" Hose Barb
HSR5231	Black Nylon Reducer Fitting, 5/32" to 1/16" Hose Barb
HSR5291	Purple Tint Polycarbonate Reducer Fitting, 5/32" to 1/16" Hose Barb
HSR53	Polypropylene Reducer Fitting, 5/32" to 3/32" Hose Barb
HSR5330	White Nylon Reducer Fitting, 5/32" to 3/32" Hose Barb
HSR5331	Black Nylon Reducer Fitting, 5/32" to 3/32" Hose Barb
HSR5391	Purple Tint Polycarbonate Reducer Fitting, 5/32" to 3/32" Hose Barb
HSR54	Polypropylene Reducer Fitting, 5/32" to 1/8" Hose Barb
HSR5430	White Nylon Reducer Fitting, 5/32" to 1/8" Hose Barb
HSR5431	Black Nylon Reducer Fitting, 5/32" to 1/8" Hose Barb
HSR5491	Purple Tint Polycarbonate Reducer Fitting, 5/32" to 1/8" Hose Barb
HSR62	Polypropylene Reducer Fitting, 3/16" to 1/16" Hose Barb
HSR6230	White Nylon Reducer Fitting, 3/16" to 1/16" Hose Barb
HSR6231	Black Nylon Reducer Fitting, 3/16" to 1/16" Hose Barb
HSR6291	Purple Tint Polycarbonate Reducer Fitting, 3/16" to 1/16" Hose Barb
HSR63	Polypropylene Reducer Fitting 3/16" to 3/32" Hose Barb
HSR6330	White Nylon Reducer Fitting 3/16" to 3/32" Hose Barb
HSR6331	Black Nylon Reducer Fitting 3/16" to 3/32" Hose Barb
HSR6391	Purple Tint Polycarbonate Reducer Fitting, 3/16" to 3/32" Hose Barb





## **TUBE TO TUBE**

### **TUBE TO TUBE FITTINGS - STRAIGHT REDUCER**

	PART NO.	DESCRIPTION
A.	HSR64 HSR6430 HSR6431 HSR6491	Polypropylene Reducer Fitting, 3/16" to 1/8" Hose Barb White Nylon Reducer Fitting, 3/16" to 1/8" Hose Barb Black Nylon Reducer Fitting, 3/16" to 1/8" Hose Barb Purple Tint Polycarbonate Reducer Fittings, 3/16" to 1/8" Hose Barb
	HSR65 HSR6530 HSR6531 HSR6591	Polypropylene Reducer Fitting, 3/16" to 5/32" Hose Barb White Nylon Reducer Fitting, 3/16" to 5/32" Hose Barb Black Nylon Reducer Fitting, 3/16" to 5/32" Hose Barb Purple Tint Polycarbonate Reducer Fittings, 3/16" to 5/32" Hose Barb
A.F	HSR84 HSR8430 HSR8431 HSR8491	Polypropylene Reducer Fitting, 1/4" to 1/8" Hose Barb White Nylon Reducer Fitting, 1/4" to 1/8" Hose Barb Black Nylon Reducer Fitting, 1/4" to 1/8" Hose Barb Purple Tint Polycarbonate Reducer Fittings, 1/4" to 1/8" Hose Barb
A	HSR85 HSR8530 HSR8531 HSR8591	Polypropylene Reducer Fitting, 1/4" to 5/32" Hose Barb White Nylon Reducer Fitting, 1/4" to 5/32" Hose Barb Black Nylon Reducer Fitting, 1/4" to 5/32" Hose Barb Purple Tint Polycarbonate Reducer Fittings, 1/4" to 5/32" Hose Barb
	HSR86 HSR8630 HSR8631 HSR8691	Polypropylene Reducer Fitting, 1/4" to 3/16" Hose Barb White Nylon Reducer Fitting, 1/4" to 3/16" Hose Barb Black Nylon Reducer Fitting, 1/4" to 3/16" Hose Barb Purple Tint Polycarbonate Reducer Fittings, 1/4" to 3/16" Hose Barb
AT.	HSR128 HSR12830 HSR12831	Polypropylene Reducer Fitting, 3/8" to 1/4" Hose Barb White Nylon Reducer Fitting, 3/8" to 1/4" Hose Barb Black Nylon Reducer Fitting, 3/8" to 1/4" Hose Barb



Note: Parts not shown to scale. For customer drawings and technical specifications please visit www.colder.com

## **THREAD TO TUBE**



### **THREAD TO TUBE FITTINGS - STRAIGHT**

PART NO.	DESCRIPTION DESCRIPTION	JIKAIGIII
KS2 KS230 KS231	Polypropylene Straight Fitting, 1/4-28 UNF to 1/16" Hose Barb White Nylon Straight Fitting, 1/4-28 UNF to 1/16" Hose Barb Black Nylon Straight Fitting, 1/4-28 UNF to 1/16" Hose Barb	
KS3 KS330 KS331	Polypropylene Straight Fitting, 1/4-28 UNF to 3/32" Hose Barb White Nylon Straight Fitting, 1/4-28 UNF to 3/32" Hose Barb Black Nylon Straight Fitting, 1/4-28 UNF to 3/32" Hose Barb	
KS4 KS430 KS431	Polypropylene Straight Fitting, 1/4-28 UNF to 1/8" Hose Barb White Nylon Straight Fitting, 1/4-28 UNF to 1/8" Hose Barb Black Nylon Straight Fitting, 1/4-28 UNF to 1/8" Hose Barb	
KS5 KS530 KS531	Polypropylene Straight Fitting, 1/4-28 UNF to 5/32" Hose Barb White Nylon Straight Fitting, 1/4-28 UNF to 5/32" Hose Barb Black Nylon Straight Fitting, 1/4-28 UNF to 5/32" Hose Barb	
MS2 MS230 MS231	Polypropylene Straight Fitting, Tapered 10-32 to 1/16" Hose Barb White Nylon Straight Fitting, Tapered 10-32 to 1/16" Hose Barb Black Nylon Straight Fitting, Tapered 10-32 to 1/16" Hose Barb	ON THE REAL PROPERTY.
MS3 MS330 MS331	Polypropylene Straight Fitting, Tapered 10-32 to 3/32" Hose Barb White Nylon Straight Fitting, Tapered 10-32 to 3/32" Hose Barb Black Nylon Straight Fitting, Tapered 10-32 to 3/32" Hose Barb	
MS4 MS430 MS431	Polypropylene Straight Fitting, Tapered 10-32 to 1/8" Hose Barb White Nylon Straight Fitting, Tapered 10-32 to 1/8" Hose Barb Black Nylon Straight Fitting, Tapered 10-32 to 1/8" Hose Barb	
MS5 MS530 MS531	Polypropylene Straight Fitting, Tapered 10-32 to 5/32" Hose Barb White Nylon Straight Fitting, Tapered 10-32 to 5/32" Hose Barb Black Nylon Straight Fitting, Tapered 10-32 to 5/32" Hose Barb	
N2S2 N2S230 N2S231	Polypropylene Straight Fitting, 1/16" NPT to 1/16" Hose Barb White Nylon Straight Fitting, 1/16" NPT to 1/16" Hose Barb Black Nylon Straight Fitting, 1/16" NPT to 1/16" Hose Barb	O Distillation
N2S3 N2S330 N2S331	Polypropylene Straight Fitting, 1/16" NPT to 3/32" Hose Barb White Nylon Straight Fitting, 1/16" NPT to 3/32" Hose Barb Black Nylon Straight Fitting, 1/16" NPT to 3/32" Hose Barb	200





## **THREAD TO TUBE**

### **THREAD TO TUBE FITTINGS - STRAIGHT**

	PART NO.	DESCRIPTION
	N2S4 N2S430 N2S431	Polypropylene Straight Fitting, 1/16" NPT to 1/8" Hose Barb White Nylon Straight Fitting, 1/16" NPT to 1/8" Hose Barb Black Nylon Straight Fitting, 1/16" NPT to 1/8" Hose Barb
	N2S5 N2S530 N2S531	Polypropylene Straight Fitting, 1/16" NPT to 5/32" Hose Barb White Nylon Straight Fitting, 1/16" NPT to 5/32" Hose Barb Black Nylon Straight Fitting, 1/16" NPT to 5/32" Hose Barb
	N4S2 N4S230 N4S231	Polypropylene Straight Fitting, 1/8" NPT to 1/16" Hose Barb White Nylon Straight Fitting, 1/8" NPT to 1/16" Hose Barb Black Nylon Straight Fitting, 1/8" NPT to 1/16" Hose Barb
Limb	N4S3 N4S330 N4S331	Polypropylene Straight Fitting, 1/8" NPT to 3/32" Hose Barb White Nylon Straight Fitting, 1/8" NPT to 3/32" Hose Barb Black Nylon Straight Fitting, 1/8" NPT to 3/32" Hose Barb
	N4S4 N4S430 N4S431	Polypropylene Straight Fitting, 1/8" NPT to 1/8" Hose Barb White Nylon Straight Fitting, 1/8" NPT to 1/8" Hose Barb Black Nylon Straight Fitting, 1/8" NPT to 1/8" Hose Barb
	N4S5 N4S530 N4S531	Polypropylene Straight Fitting, 1/8" NPT to 5/32" Hose Barb White Nylon Straight Fitting, 1/8" NPT to 5/32" Hose Barb Black Nylon Straight Fitting, 1/8" NPT to 5/32" Hose Barb
TIME TO SERVICE SERVIC	N4S6 N4S630 N4S631	Polypropylene Straight Fitting, 1/8" NPT to 3/16" Hose Barb White Nylon Straight Fitting, 1/8" NPT to 3/16" Hose Barb Black Nylon Straight Fitting, 1/8" NPT to 3/16" Hose Barb
	N4S8 N4S830 N4S831	Polypropylene Straight Fitting, 1/8" NPT to 1/4" Hose Barb White Nylon Straight Fitting, 1/8" NPT to 1/4" Hose Barb Black Nylon Straight Fitting, 1/8" NPT to 1/4" Hose Barb
	N8S4 N8S430 N8S431	Polypropylene Straight Fitting, 1/4" NPT to 1/8" Hose Barb White Nylon Straight Fitting, 1/4" NPT to 1/8" Hose Barb Black Nylon Straight Fitting, 1/4" NPT to 1/8" Hose Barb
1	N8S5 N8S530 N8S531	Polypropylene Straight Fitting, 1/4" NPT to 5/32" Hose Barb White Nylon Straight Fitting, 1/4" NPT to 5/32" Hose Barb Black Nylon Straight Fitting, 1/4" NPT to 5/32" Hose Barb

Note: Parts not shown to scale. For customer drawings and technical specifications please visit www.colder.com

## **THREAD TO TUBE**

### **THREAD TO TUBE FITTINGS - STRAIGHT**

PART NO.  N8S6  N8S630  N8S631	DESCRIPTION  Polypropylene Straight Fitting, 1/4" NPT to 3/16" Hose Barb White Nylon Straight Fitting, 1/4" NPT to 3/16" Hose Barb Black Nylon Straight Fitting, 1/4" NPT to 3/16" Hose Barb	
N8S8 N8S830 N8S831	Polypropylene Straight Fitting, 1/4" NPT to 1/4" Hose Barb White Nylon Straight Fitting, 1/4" NPT to 1/4" Hose Barb Black Nylon Straight Fitting, 1/4" NPT to 1/4" Hose Barb	
N8S10 N8S1030 N8S1031	Polypropylene Straight Fitting, 1/4" NPT to 5/16" Hose Barb White Nylon Straight Fitting, 1/4" NPT to 5/16" Hose Barb Black Nylon Straight Fitting, 1/4" NPT to 5/16" Hose Barb	
N8S12 N8S1230 N8S1231	Polypropylene Straight Fitting, 1/4" NPT to 3/8" Hose Barb White Nylon Straight Fitting, 1/4" NPT to 3/8" Hose Barb Black Nylon Straight Fitting, 1/4" NPT to 3/8" Hose Barb	Till I

### **THREAD TO TUBE FITTINGS - ELBOW**

PART NO. ME2 ME230 ME231	DESCRIPTION  Polypropylene Elbow Fitting, Tapered 10-32 to 1/16" Hose Barb  White Nylon Elbow Fitting, Tapered 10-32 to 1/16" Hose Barb  Black Nylon Elbow Fitting, Tapered 10-32 to 1/16" Hose Barb	1
ME3 ME330 ME331	Polypropylene Elbow Fitting, Tapered 10-32 to 3/32" Hose Barb White Nylon Elbow Fitting, Tapered 10-32 to 3/32" Hose Barb Black Nylon Elbow Fitting, Tapered 10-32 to 3/32" Hose Barb	
ME4 ME430 ME431	Polypropylene Elbow Fitting, Tapered 10-32 to 1/8" Hose Barb White Nylon Elbow Fitting, Tapered 10-32 to 1/8" Hose Barb Black Nylon Elbow Fitting, Tapered 10-32 to 1/8" Hose Barb	
ME5 ME530 ME531	Polypropylene Elbow Fitting, Tapered 10-32 to 5/32" Hose Barb White Nylon Elbow Fitting, Tapered 10-32 to 5/32" Hose Barb Black Nylon Elbow Fitting, Tapered 10-32 to 5/32" Hose Barb	1



The unique shrouded hose barb on our 1/16" fittings provides additional stability to prevent breakage in applications where small tubing connections may be pulled or twisted during use.





## **THREAD TO TUBE**



Buy Online! FitQuik Connectors are available for fast delivery from colder.com or visit colder.com to find your local distributor.

### **THREAD TO TUBE FITTINGS - ELBOW**

	PART NO.	DESCRIPTION
File	N4E4 N4E430 N4E431	Polypropylene Elbow Fitting, 1/8" NPT to 1/8" Hose Barb White Nylon Elbow Fitting, 1/8" NPT to 1/8" Hose Barb Black Nylon Elbow Fitting, 1/8" NPT to 1/8" Hose Barb
1	N4E6 N4E630 N4E631	Polypropylene Elbow Fitting, 1/8" NPT to 3/16" Hose Barb White Nylon Elbow Fitting, 1/8" NPT to 3/16" Hose Barb Black Nylon Elbow Fitting, 1/8" NPT to 3/16" Hose Barb
	N4E8 N4E830 N4E831	Polypropylene Elbow Fitting, 1/8" NPT to 1/4" Hose Barb White Nylon Elbow Fitting, 1/8" NPT to 1/4" Hose Barb Black Nylon Elbow Fitting, 1/8" NPT to 1/4" Hose Barb
	N8E8 N8E830 N8E831	Polypropylene Elbow Fitting, 1/4" NPT to 1/4" Hose Barb White Nylon Elbow Fitting, 1/4" NPT to 1/4" Hose Barb Black Nylon Elbow Fitting, 1/4" NPT to 1/4" Hose Barb
	N8E12 N8E1230 N8E1231	Polypropylene Elbow Fitting, 1/4" NPT to 3/8" Hose Barb White Nylon Elbow Fitting, 1/4" NPT to 3/8" Hose Barb Black Nylon Elbow Fitting, 1/4" NPT to 3/8" Hose Barb

### **THREAD TO TUBE FITTINGS - TEE**

	PART NO.	DESCRIPTION
660	MT2 MT230	Polypropylene Tee Fitting, Tapered 10-32 to 1/16" Hose Barbs White Nylon Tee Fitting, Tapered 10-32 to 1/16" Hose Barbs
	MT231	Black Nylon Tee Fitting, Tapered 10-32 to 1/16" Hose Barbs
	MT3 MT330	Polypropylene Tee Fitting, Tapered 10-32 to 3/32" Hose Barbs White Nylon Tee Fitting, Tapered 10-32 to 3/32" Hose Barbs
3	MT331	Black Nylon Tee Fitting, Tapered 10-32 to 3/32" Hose Barbs
The	MT4 MT430	Polypropylene Tee Fitting, Tapered 10-32 to 1/8" Hose Barbs White Nylon Tee Fitting, Tapered 10-32 to 1/8" Hose Barbs
	MT431	Black Nylon Tee Fitting, Tapered 10-32 to 1/8" Hose Barbs
The	MT5 MT530	Polypropylene Tee Fitting, Tapered 10-32 to 5/32" Hose Barbs White Nylon Tee Fitting, Tapered 10-32 to 5/32" Hose Barbs
	MT531	Black Nylon Tee Fitting, Tapered 10-32 to 5/32" Hose Barbs

Note: Parts not shown to scale. For customer drawings and technical specifications please visit www.colder.com

## **PLUGS & THREAD TO THREAD**

PART NO.	DESCRIPTION	THREADED PLUGS	-
MP MP30 MP31	Polypropylene Threaded Plug, Tapered 10-32 White Nylon Threaded Plug, Tapered 10-32 Black Nylon Threaded Plug, Tapered 10-32		Cill.
N2P N2P30 N2P31	Polypropylene Threaded Plug, 1/16" NPT White Nylon Threaded Plug, 1/16" NPT Black Nylon Threaded Plug, 1/16" NPT		TO THE REAL PROPERTY.
N4P N4P30 N4P31	Polypropylene Threaded Plug, 1/8" NPT White Nylon Threaded Plug, 1/8" NPT Black Nylon Threaded Plug, 1/8" NPT		9
N8P N8P30 N8P31	Polypropylene Threaded Plug, 1/4" NPT White Nylon Threaded Plug, 1/4" NPT Black Nylon Threaded Plug, 1/4" NPT		Call

#### **THREAD TO THREAD -STRAIGHT**

PART NO.	DESCRIPTION	
N32	Polypropylene Straight Fitting, Tapered 10-32 Threads	
N3230	White Nylon Straight Fitting, Tapered 10-32 Threads	0
N3231	Black Nylon Straight Fitting, Tapered 10-32 Threads	

## **BLOOD PRESSURE**

### **BLOOD PRESSURE FITTINGS - MALE BAYONET**

PART NO. BC330 BC331	<b>DESCRIPTION</b> White Nylon Male Bayonet Fitting to 3/32" Hose Barb Black Nylon Male Bayonet Fitting to 3/32" Hose Barb	
BC430 BC431	White Nylon Male Bayonet Fitting to 1/8" Hose Barb Black Nylon Male Bayonet Fitting to 1/8" Hose Barb	
BC530 BC531	White Nylon Male Bayonet Fitting to 5/32" Hose Barb Black Nylon Male Bayonet Fitting to 5/32" Hose Barb	
BC630 BC631	White Nylon Male Bayonet Fitting to 3/16" Hose Barb Black Nylon Male Bayonet Fitting to 3/16" Hose Barb	No.

### **BLOOD PRESSURE FITTINGS - SCREW-TYPE**

PART NO.	DESCRIPTION
GS320	White Acetal Screw-type Fitting, 5/16" UNF to 3/32" Hose Barb
GS420	White Acetal Screw-type Fitting, 5/16" UNF to 1/8" Hose Barb
GS520	White Acetal Screw-type Fitting, 5/16" UNF to 5/32" Hose Barb
GS620	White Acetal Screw-type Fitting, 5/16" UNF to 3/16" Hose Barb





## **LUERS**

### **MALE LUERS**



	PART NO.	DESCRIPTION
	LM21 LM2130 LM2131 LM2191	Polypropylene Male Luer to 1/16" Hose Barb White Nylon Male Luer to 1/16" Hose Barb Black Nylon Male Luer to 1/16" Hose Barb Purple Tint Polycarbonate Male Luer to 1/16" Hose Barb
5	LM31 LM3130 LM3131 LM3191	Polypropylene Male Luer to 3/32" Hose Barb White Nylon Male Luer to 3/32" Hose Barb Black Nylon Male Luer to 3/32" Hose Barb Purple Tint Polycarbonate Male Luer to 3/32" Hose Barb
	LM41 LM4130 LM4131 LM4191	Polypropylene Male Luer to 1/8" Hose Barb White Nylon Male Luer to 1/8" Hose Barb Black Nylon Male Luer to 1/8" Hose Barb Purple Tint Polycarbonate Male Luer to 1/8" Hose Barb
	LM51 LM5130 LM5131 LM5191	Polypropylene Male Luer to 5/32" Hose Barb White Nylon Male Luer to 5/32" Hose Barb Black Nylon Male Luer to 5/32" Hose Barb Purple Tint Polycarbonate Male Luer to 5/32" Hose Barb
	LM61 LM6130 LM6131 LM6191	Polypropylene Male Luer to 3/16" Hose Barb White Nylon Male Luer to 3/16" Hose Barb Black Nylon Male Luer to 3/16" Hose Barb Purple Tint Polycarbonate Male Luer to 3/16" Hose Barb

#### EEMALE LIIEDS

	LIVIOIDI	rulpie filit rolycalboliate Male Luci to 3/10 1103e baib	
FEMALE L	.UERS		Colder luer fittings and connectors interconnect with products with products anufactured to ISO anufactured 594-1 and
1	LF21 LF2130 LF2131 LF2191	Polypropylene Female Luer to 1/16" Hose Barb White Nylon Female Luer to 1/16" Hose Barb Black Nylon Female Luer to 1/16" Hose Barb Purple Tint Polycarbonate Female Luer to 1/16" Hose Barb	anufactured to land sandards 594-1 and sandards 594-2
1	LF31 LF3130 LF3131 LF3191	Polypropylene Female Luer to 3/32" Hose Barb White Nylon Female Luer to 3/32" Hose Barb Black Nylon Female Luer to 3/32" Hose Barb Purple Tint Polycarbonate Female Luer to 3/32" Hose Barb	
*	LF41 LF4130 LF4131 LF4191	Polypropylene Female Luer to 1/8" Hose Barb White Nylon Female Luer to 1/8" Hose Barb Black Nylon Female Luer to 1/8" Hose Barb Purple Tint Polycarbonate Female Luer to 1/8" Hose Barb	
	LF51 LF5130 LF5131 LF5191	Polypropylene Female Luer to 5/32" Hose Barb White Nylon Female Luer to 5/32" Hose Barb Black Nylon Female Luer to 5/32" Hose Barb Purple Tint Polycarbonate Female Luer to 5/32" Hose Barb	

Note: Parts not shown to scale. For customer drawings and technical specifications please visit www.colder.com

## **LUERS**

### **FEMALE LUERS**

PART NO.	DESCRIPTION	
LF61 LF6130	Polypropylene Female Luer to 3/16" Hose Barb White Nylon Female Luer to 3/16" Hose Barb	
LF6131 LF6191	Black Nylon Female Luer to 3/16" Hose Barb Purple Tint Polycarbonate Female Luer to 3/16" Hose Barb	
LF8191	Purple Tint Polycarbonate Female Luer to 3/16 Hose Barb  Purple Tint Polycarbonate Female Luer to 1/4" Hose Barb	
LIGISI	Tarple Tiller Olycarbonate Female Each to 1,7 F 1103e Barb	
	PANEL MOUNT MALE LUER	5
PART NO.	DESCRIPTION	
PMLM21	Polypropylene Panel Mount Male Luer to 1/16" Hose Barb	
PMLM2130	White Nylon Panel Mount Male Luer to 1/16" Hose Barb	
PMLM2131	Black Nylon Panel Mount Male Luer to 1/16" Hose Barb	
D141.1404		
PMLM31 PMLM3130	Polypropylene Panel Mount Male Luer to 3/32" Hose Barb White Nylon Panel Mount Male Luer to 3/32" Hose Barb	-
PMLM3131	Black Nylon Panel Mount Male Luer to 3/32" Hose Barb	
PMLM41	Polypropylene Panel Mount Male Luer to 1/8" Hose Barb	X
PMLM4130	White Nylon Panel Mount Male Luer to 1/8" Hose Barb	
PMLM4131	Black Nylon Panel Mount Male Luer to 1/8" Hose Barb	
PMNUTSST	Stainless Steel 1/4-28 UNF Nut	
PMNUT30	White Nylon Panel Mount 1/4-28 UNF Nut  See page 125 for compatible rotating	f
Note: Panel mou	and stationary locking rings. Color- unt luers require a ¼" diameter panel opening coded rings also available.	
Note. I allei Illoc		
	PANEL MOUNT FEMALE LUER	5

DART NO	PESCULTION	LIVIALL LULKS
PMLF21 PMLF2130 PMLF2131	DESCRIPTION  Polypropylene Panel Mount Female Luer to 1/16" Hose Barb  White Nylon Panel Mount Female Luer to 1/16" Hose Barb  Black Nylon Panel Mount Female Luer to 1/16" Hose Barb	
PMLF31 PMLF3130 PMLF3131	Polypropylene Panel Mount Female Luer to 3/32" Hose Barb White Nylon Panel Mount Female Luer to 3/32" Hose Barb Black Nylon Panel Mount Female Luer to 3/32" Hose Barb	
PMLF41 PMLF4130 PMLF4131	Polypropylene Panel Mount Female Luer to 1/8" Hose Barb White Nylon Panel Mount Female Luer to 1/8" Hose Barb Black Nylon Panel Mount Female Luer to 1/8" Hose Barb	
PMNUTSST PMNUT30	Stainless Steel 1/4-28 UNF Nut White Nylon Panel Mount 1/4-28 UNF Nut	O.
Note: Parts not shown to scale. I	for customer drawings and technical specifications please visit www.colder.com	for compatible

Note: Parts not shown to scale. For customer drawings and technical specifications please visit www.colder.com Note: Panel mount luers require a  $\frac{1}{4}$ " diameter panel opening





## **LUERS**

#### **MALE SLIP LUERS**

SLM2191



-		

PART NO.	DESCRIPTION
SLM21	Polypropylene Male Slip Luer to 1/16" Hose Barb
SLM2130	White Nylon Male Slip Luer to 1/16" Hose Barb
SLM2131	Black Nylon Male Slip Luer to 1/16" Hose Barb



SLM31	Polypropylene Male Slip Luer to 3/32" Hose Barb
SLM3130	White Nylon Male Slip Luer to 3/32" Hose Barb
SLM3131	Black Nylon Male Slip Luer to 3/32" Hose Barb
SLM3191	Purple Tint Polycarbonate Male Slip Luer to 3/32" Hose Barb



SLM41	Polypropylene Male Slip Luer to 1/8" Hose Barb
SLM4130	White Nylon Male Slip Luer to 1/8" Hose Barb
SLM4131	Black Nylon Male Slip Luer to 1/8" Hose Barb
SLM4191	Purple Tint Polycarbonate Male Slip Luer to 1/8" Hose Barb

Purple Tint Polycarbonate Male Slip Luer to 1/16" Hose Barb

Purple Tint Polycarbonate Male Slip Luer to 3/16" Hose Barb



SLM51	Polypropylene Male Slip Luer to 5/32" Hose Barb
SLM5130	White Nylon Male Slip Luer to 5/32" Hose Barb
SLM5131	Black Nylon Male Slip Luer to 5/32" Hose Barb
SLM5191	Purple Tint Polycarbonate Male Slip Luer to 5/32" Hose Barb
SLM61	Polypropylene Male Slip Luer to 3/16" Hose Barb
SLM6130	White Nylon Male Slip Luer to 3/16" Hose Barb
SLM6131	Black Nylon Male Slip Luer to 3/16" Hose Barb

## **LUER CAPS AND PLUGS**

SLM6191



PART NO.	DESCRIPTION
_CAP	Polypropylene Luer Cap
_CAP30	White Nylon Luer Cap
_CAP31	Black Nylon Luer Cap



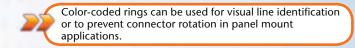
_PLUG	Polypropylene Luer Plug
PLUG30	White Nylon Luer Plug
PLUG31	Black Nylon Luer Plug
	4



Buy Online! FitQuik Connectors are available for fast delivery from colder.com or visit colder.com to find your local distributor.

 $Note: Parts \ not \ shown \ to \ scale. \ For \ customer \ drawings \ and \ technical \ specifications \ please \ visit \ www.colder.com$ 





### **LUER ACCESSORIES**

PART NO.	DESCRIPTION
NACI	D.I. C.

LMSL	Polypropylene Stationary Luer Lock Ring
LMSL30	White Nylon Stationary Luer Lock Ring
LMSL31	Black Nylon Stationary Luer Lock Ring
LMSL32	Yellow Nylon Stationary Luer Lock Ring
LMSL33	Blue Nylon Stationary Luer Lock Ring
LMSL34	Red Nylon Stationary Luer Lock Ring
LMSL35	Green Nylon Stationary Luer Lock Ring
LMSL36	Orange Nylon Stationary Luer Lock Ring
LMSL91	Purple Tint Polycarbonate Stationary Luer Lock Ring



## 6

#### PART NO. DESCRIPTION

LMSR	Polypropylene Rotating Luer Lock Ring
LMSR30	White Nylon Rotating Luer Lock Ring
LMSR31	Black Nylon Rotating Luer Lock Ring
LMSR32	Yellow Nylon Rotating Luer Lock Ring
LMSR33	Blue Nylon Rotating Luer Lock Ring
LMSR34	Red Nylon Rotating Luer Lock Ring
LMSR35	Green Nylon Rotating Luer Lock Ring
LMSR36	Orange Nylon Rotating Luer Lock Ring
LMSLR91	Purple Tint Polycarbonate Rotating Luer Lock Ring







#### PART NO. DESCRIPTION

FART NO.	DESCRIPTION
PMRL	Polypropylene Luer Color Coded Ring
PMRL30	White Nylon Luer Color Coded Ring
PMRL31	Black Nylon Luer Color Coded Ring
PMRL32	Yellow Nylon Luer Color Coded Ring
PMRL33	Blue Nylon Luer Color Coded Ring
PMRL34	Red Nylon Luer Color Coded Ring
PMRL35	Green Nylon Luer Color Coded Ring
PMRL36	Orange Nylon Luer Color Coded Ring







#### PART NO.

PMNUTSST	Stainless	Stee	l 1/4-28	UNF	Nut



Note: Parts not shown to scale. For customer drawings and technical specifications please visit www.colder.com

**DESCRIPTION** 





**CUSTOM CAPABILITIES** 

## **Custom Capabilities**

**Connector solutions** from Colder add value to your product by making your fluid and air connections easy to use and more reliable, increasing your product's modularity and serviceability and providing an overall cleaner, faster, safer and smarter way to make a connection. If you can't find the perfect solution from one of our thousands of standard products or you'd like to simply off-load the connector portion of your project to allow you to focus on your core technologies, Colder Engineered Solutions can help.

#### **Multi-Tube Couplings**

Connect multiple lines with one easy connection



#### **Custom Tube Connections**

Connect to a wide variety of types and sizes of tubing



#### **Mounting Options**

Application specific connections including threads, caps, snap-fits and more



#### **CONSIDER A CUSTOM-DESIGNED CONNECTOR WHEN:**

- A quick disconnect will add value to your product, make it easier to use
- Your specifications cannot be met by an existing standard Colder
- Unique requirements, budgets or timing warrant your designer's collaboration with Colder's **Engineered Solutions Team**

Manifold

Packaged bottle cap dip-tube assembly



**Polycarbonate** elbow



Metal non-spill without thumb latch



Cap with vent



Industrial Design



2-way valve



**Dual-line connector** 



Air/fluid/electronic tube set



RFID weight scale connector



**RFID** panel



In-line filter







#### **Hybrid Couplings**

Connect both fluid and electronics – at the same time



#### **Smart Connections with RFID - Exclusive!**

Identify misconnections, automatically identify fluid characteristics, capture connection usage data - the possibilities are endless!





#### **Custom Materials**

A wide range of materials are available to meet application needs



Custom designed products
are exclusively produced for
a specific customer. These proprietary products might not be for sale. Contact your local distributor for special application

**CUSTOM CAPABILITIES** 

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**COUPLING SERIES** MC, PMC non-sealing LC, PLC non-sealing APC, EFC non-sealing

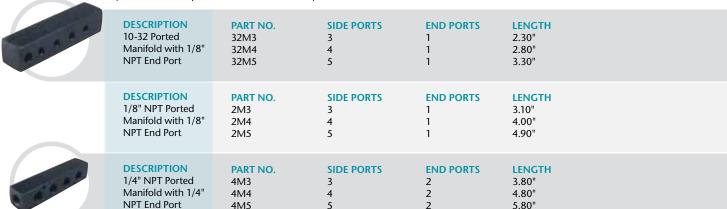
PMC pressure-sealing PLC pressure-sealing HFC/FFC non-sealing (not shown) **BODY PLUG** PMC31 PLC310 PMC30 PLC300 HFC312 L (with leash)

HFC312 (no leash)

**INSERT CAP** PMC32 PLC320 PLC320

**Manifolds** 

#### Specifications | Material: Aluminum | Finish: Black anodized





### JG® Push-To-Connect Accessories

**TUBING DESCRIPTION TUBING DESCRIPTION** PART NO. 1/4" Tube OD 1011900 IN-LINE COLLET COVERS, IN-LINE LOCKING CLIPS, RED 1/4" Tube OD 1012101 to 06 3/8" Tube OD 1012000 **COLOR CODED** 3/8" Tube OD 1012201 to 06

Colors available, shown right. Please indicate color using the following suffix codes: 01=Black, 02=Red, 03=Yellow, 04=Gray, 05=Blue, 06=Green (Example: 1012101 is the code for a 1/4" collet cover in black.) **NOTE**: See pages 32 and 33 for JG couplings.

†NOTE: Colder's Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc. \*NOTE: Gaskets are not included with 10-32 PTF style fittings. To prevent leakage with these fittings, we recommend using LOCTITE® Removable Threadlocker 242 or Permanent Threadlocker 262.

#### **Coupling Material Descriptions Thermoplastics**

#### ABS

Economical medical-grade thermoplastic that withstands gamma and e-beam sterilization. It is commonly used in medical devices. ABS is an amorphous material with good physical properties and high resistance to chemical attack.

#### Acetal

Strong, lightweight and economical used for a wide variety of chemical and mechanical components. Acetal offers high strength and rigidity over a broad temperature range, low wear, toughness and resistance to repeated use.

#### Polyamide (Nylon)

Very resistant to wear and abrasion, good mechanical properties even at elevated temperatures, low permeability to gases and good chemical resistance.

#### **PEEK** (Polyetheretherketone)

Highly temperature resistant, engineered thermoplastic with excellent chemical and fatigue resistance. It exhibits superior mechanical and electrical properties.

#### **Polycarbonate**

Resistant to some chemicals, withstands sterilization and is transparent. It is commonly used in medical devices and offers impact resistance, outstanding dimensional stability and good optical properties.

#### **Polyethylene**

Low-cost, chemically resistant thermoplastic. It is opaque and can withstand reasonably high temperature. Polyethylene, unlike polypropylene, cannot withstand normally required autoclaving conditions.

#### **Polypropylene**

Excellent general purpose resin that is highly resistant to chemical attack from solvents and chemicals in harsh environments. In general, polypropylene is resistant to environmental stress cracking and it can be exposed to challenging environments.

Rigid material with excellent strength, good chemical resistance, withstands repeated sterilization and higher temperatures than other thermoplastics. Its high hydrolytic stability allows its use in medical applications requiring autoclave and steam sterilization.

#### **PPS** (Polyphenylene Sulfide)

Broadest resistance to chemicals for its market as an advanced engineering plastic. (PEEK and PTFE have better resistance, but are not considered engineering resins.)

#### **Fluoropolymers**

Chemically resistant to all chemicals and solvents with the exception of some molten metals, molten sodium hydroxide, elemental fluorine, and certain fluorinating agents. PTFE offers chemical resistance and stability at high temperature.

#### **PVDF**

Tough engineering thermoplastic with a balance of physical and chemical properties that qualify it for high performance in a wide range of applications. It is mechanically strong and tough, has good ductility and has a broad, useful temperature range.

#### **Alloys**

#### **Aluminum**

Lightweight metal with an available hard anodized finish for durability. Aluminum is non-toxic, non-magnetic and non-sparking and is known for its high strength to weight ratio.

#### **Chrome-plated Brass**

Rugged metallic material with an attractive appearance, chromeplated brass is excellent for higher pressure and temperature.

#### **Die-cast Zinc**

Durable and lightweight (about 20% less than comparable brass) material that withstands high pressure and temperature.

#### O-Rings

#### Buna-N

The most common o-ring material is Buna-N due to its solvent, oil and water resistance. It has a temperature range of -30° to 250° F.

Ethylene-propylene-diene rubber (EPDM, also sometimes referred to as EPR) is a chemically resistant family of compounds. Colder uses high quality peroxide cured EPDMs that provide exceptional resistance to temperatures with a wide range of chemicals.

#### FFKM (Chemraz®, Simriz®, Kalrez®)

Broadest range of chemical resistance of any elastomeric material, combining the resilience and sealing force of an elastomer with chemical resistance approaching that of PTFE.

Well known for its outstanding resistance to heat, oxidation, weathering and ozone. The temperature range is -15° to 400°F.

Commonly used when food, beverages or potable water is going through the coupling.

#### **PFA & FEP Encapsulated Seals**

Encapsulated seals combine the resiliency of the elastomer with the superior chemical resistance of the fluoropolymer to achieve a seal that is lower cost than a pure fluoroelastomer FFKM seal.

Seals have good temperature resistance. The temperature range is -70° to 400° with special compounds that can reach 175° to 450° F. Silicone can also be supplied with Class VI requirements for life sciences applications.

#### **Elastomers**

#### **TPE**

Thermoplastic Elastomer (TPE) is a blend of additives and copolymers in a special formulation that forms extremely durable bonds to a substrate, while offering the traditional properties of soft-touch overmold.

Thermoplastic Vulcanizate (TPV) is an alloy of polypropylene thermoplastic and fully vulcanized EPDM rubber. TPV is typically resistant to water, acids and bases.

Don't forget: you can always visit www.colder.com for part-specific chemical compatibility information.











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