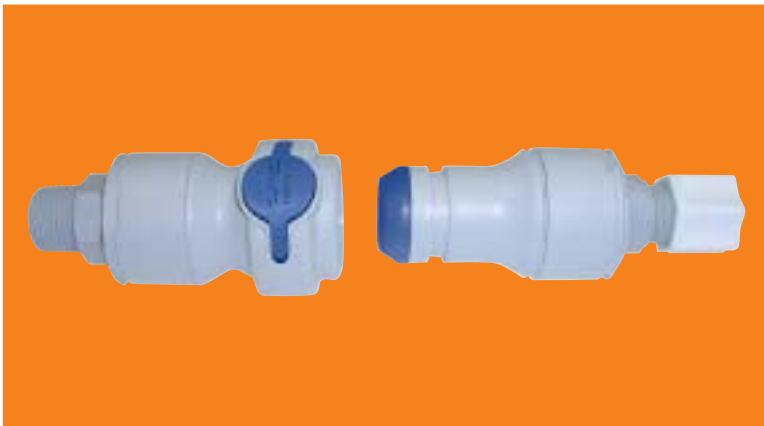


QUICK COUPLINGS

and Fittings for Plastic Tubing



Controlled
Performance
Connections



Colder Products Company

Colder Products Company — a world leader in the design of plastic, quick disconnects for flexible tubing — has combined innovative engineering with leading edge manufacturing to provide a diverse range of fluid management solutions worldwide. For over 25 years, CPC® has been providing controlled performance connections to industrial, biopharmaceutical, medical, and packaging markets – and improving those applications with continuous product innovation, technological advancements and focused, unparalleled customer service.

CPC supports its product lines and literature with an interactive Web site. The site showcases new product innovations and technologies and provides easy, immediate access to product and industry information, application tools and more.



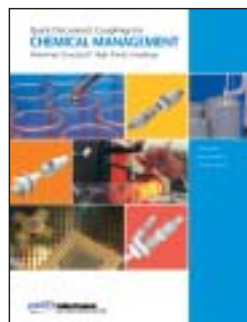
Visit www.colder.com for:

- Information and literature on CPC product lines
 - Industrial
 - Medical Device & Equipment
 - Bioprocessing
 - High Purity & Chemical Management
 - Smart Technology
 - Food & Beverage Service
- Information on custom applications
- Online tools and selector guides
- Downloadable CAD drawings
- Distributor locations
- Direct connections to CPC engineers

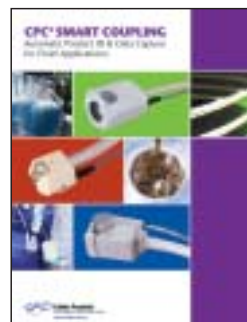
On-line Catalogs and Literature



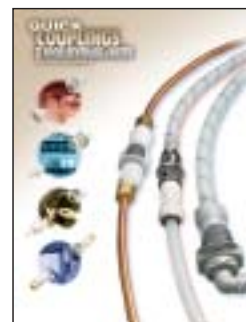
Bioprocessing



Chemical Management

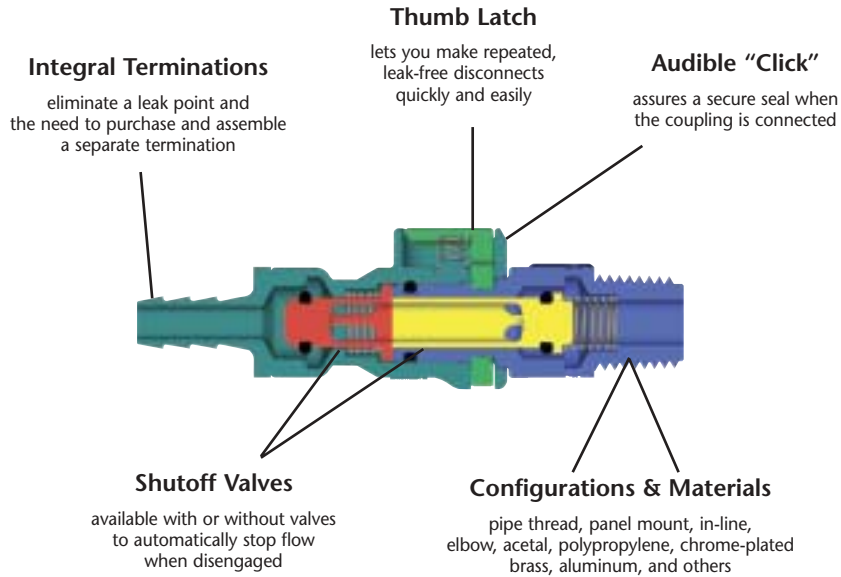


Smart Technology



Food, Beverage & Water

Why Use a CPC Coupling?



FLEXIBILITY: Subassemblies and Subcontractors

Reduce assembly time on machinery and equipment designed in modules and then assembled at different times, at different locations or using assemblies from subcontractors. Connect and disconnect plastic tubing by simply clicking together versus fastening clamps over fittings and hard plumbing.

UTILITY: Replacements and Upgrades

Upgrades snap into place. Replacements are easy and intuitive. Expensive plant, process and machine downtime is kept to a minimum.

SAFETY: Reduce Harmful and Messy Spills

Automatic shutoff valves reduce spills and leaks. Connect and disconnect under pressure and safely transfer destructive or toxic solvents and other toxic fluid media. Increase employee and consumer safety.

SERVICEABILITY: Maintenance and Repairs

One-handed operation makes field service and scheduled maintenance quick and easy. Closed loop and pressurized fluid systems run better and last longer, making maintenance easier and reducing leaks or spills from plastic tubing or hose connections.


MODULARITY: Attachments and Accessories

Expand product lines and increase product life-cycle and profitability by offering intuitive, tool-free attachments and accessories. CPC's patented one-hand, push-button design makes adding product accessories simple and straightforward.

CONVENIENCE: Intuitive and Economical

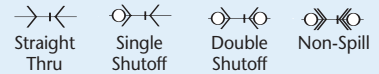
"Click-to-connect" couplings provide reliable, intuitive, cost-effective connections for fluid flow applications. A standard product line of over 4,000 items makes specifying and installation easy and economical.

PLEASE NOTE: Not all of the products listed in this catalog are available for immediate shipment. Some products may require a setup charge unless minimum order quantities are met. Please contact your distributor or CPC for further details or to determine availability.

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Table of Contents



Couplings connected and shown actual size (approximate).
For additional terminations and configurations, see product pages.

Cv values are expressed in English based on gpm and psi and in metric (shown in parentheses) based on lpm and bar.

NEW! Non-Spill Couplings

PAGE 8

NS4 Series

NS4D22002 & NS4D17006



Material: Polypropylene
Tubing Range: 1/8" to 3/8" (3.2mm to 9.5mm)
Feature: Plastic non-spill with soft-touch overmold
Cv~0.6 (8.65) max

PAGE 10

NS6 Series

NS6D22006 & NS6D17008



Material: Polypropylene
Tubing Range: 3/8" & 1/2" (9.5mm & 12.7mm)
Feature: Same as NS4 with higher flow
Cv~2.2 (31.70) max

PAGE 12

NSH Series

NSHD22006 & NSHD17012



Material: Polypropylene
Tubing Range: 3/8" to 3/4" (9.5mm to 19.0mm)
Feature: Spring-free flow path and highest flow non-spill
Cv~3.0 (43.23) max

PAGE 50

RPN Series

RPN30006 & RPN46006



Material: Anodized aluminum
Termination: SAE-06
Feature: Clipless design for rack and panel systems
Cv~2.5 (36.02) max

PLEASE NOTE: Not all of the products listed in this catalog are available for immediate shipment. Some products may require a setup charge unless minimum order quantities are met. Please contact your distributor or CPC for further details or to determine availability.



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Subminiature Couplings

PAGE 14

SMC Series

SMM01 & SMF02



Material: Acetal, Polypropylene, Polycarbonate, Chrome-Plated Brass
Tubing Range: 1/16" to 1/8" (1.6mm to 3.2mm)
Feature: Smallest CPC coupling; twist to connect

$\rightarrow \leftarrow$ $C_v \sim 0.19$ (2.74) max
 $\odot \leftarrow$ $C_v \sim 0.08$ (1.15) max

General Purpose Couplings/Plastic

PAGE 16

PMC Series

PMC2201 & PMC1704



Material: Acetal
Tubing Range: 1/16" to 1/4" (1.6mm to 6.4mm)
Feature: General purpose coupling

$\rightarrow \leftarrow$ $C_v \sim 0.51$ (7.35) max
 $\odot \leftarrow$ $C_v \sim 0.26$ (3.75) max
 $\odot \leftarrow \odot$ $C_v \sim 0.24$ (3.46) max

PAGE 18

PMC12 Series

PMCD220112 & PMCD170412



Material: Polypropylene
Tubing Range: 1/16" to 1/4" (1.6mm to 6.4mm)
Feature: Chemically-resistant for corrosive applications

$\rightarrow \leftarrow$ $C_v \sim 0.44$ (6.34) max
 $\odot \leftarrow$ $C_v \sim 0.26$ (3.75) max
 $\odot \leftarrow \odot$ $C_v \sim 0.24$ (3.46) max

PAGE 20

PLC Series

PLC22004 & PLC17006



Material: Acetal
Tubing Range: 1/4" to 3/8" (6.4mm to 9.5mm)
Feature: General purpose coupling

$\rightarrow \leftarrow$ $C_v \sim 1.40$ (20.17) max
 $\odot \leftarrow$ $C_v \sim 0.82$ (11.82) max
 $\odot \leftarrow \odot$ $C_v \sim 0.51$ (7.35) max

PAGE 22

PLC12 Series

PLCD2200412 & PLCD1700612



Material: Polypropylene
Tubing Range: 1/4" & 3/8" (6.4mm & 9.5mm)
Feature: Chemically-resistant for corrosive applications

$\rightarrow \leftarrow$ $C_v \sim 1.40$ (20.17) max
 $\odot \leftarrow$ $C_v \sim 0.82$ (11.82) max
 $\odot \leftarrow \odot$ $C_v \sim 0.51$ (7.35) max

PAGE 24

APC Series

APC22004 & APC17006SH



Material: Acetal
Tubing Range: 1/4" to 3/8" (6.4mm to 9.5mm)
Feature: Plastic-latched coupling

$\rightarrow \leftarrow$ $C_v \sim 1.28$ (18.44) max
 $\odot \leftarrow$ $C_v \sim 0.80$ (11.53) max
 $\odot \leftarrow \odot$ $C_v \sim 0.70$ (10.09) max

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EFC12 Series

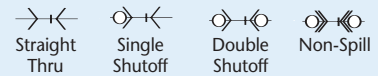
EFCD22412 & EFCD17612



Material: Polypropylene
Tubing Range: 1/4" & 3/8" (6.4mm & 9.5mm)
Feature: Extra flow; chemically-resistant for corrosive applications

$\rightarrow \leftarrow$ $C_v \sim 1.13$ (16.28) max
 $\odot \leftarrow$ $C_v \sim 0.72$ (10.37) max

Table of Contents *(continued)*



Couplings connected and shown actual size (approximate).
For additional terminations and configurations, see product pages.

Cv values are expressed in English based on gpm and psi and in metric (shown in parentheses) based on lpm and bar.

General Purpose Couplings/Plastic

PAGE 28

HFC12, HFC35 and HFC57 Series

HFCD22612 & HFC171212



- Material:** Polypropylene (*as shown*)
Polysulfone (*white*)
UV Polysulfone (*black*)
- Tubing Range:** 3/8" to 3/4" (9.5mm to 19.0mm)
- Feature:** High flow family of couplings
- Cv~3.94 (56.77) max
 - Cv~2.50 (36.02) max
 - Cv~2.04 (29.39) max

PAGE 34

FFC35 Series

FFC221235 & FFC171235



- Material:** Polysulfone
- Tubing Range:** 3/4" (19.0mm)
- Feature:** Unobstructed flow path (no valves)
- Cv~13.00 (187.31) max

General Purpose Couplings/Metallic

PAGE 36

MC Series

MC2202 & MC1704



- Material:** Chrome-Plated Brass
- Tubing Range:** 1/8" to 1/4" (3.2mm to 6.4mm)
- Feature:** General purpose coupling
- Cv~0.51 (7.35) max
 - Cv~0.26 (3.75) max
 - Cv~0.24 (3.46) max

PAGE 38

LC Series

LCD22004 & LC17006



- Material:** Chrome-Plated Brass
- Tubing Range:** 1/4" to 3/8" (6.4mm to 9.5mm)
- Feature:** Same as MC with higher flow
- Cv~1.40 (20.17) max
 - Cv~0.82 (11.82) max
 - Cv~0.51 (7.35) max

PAGE 40

FL Series

3FLD6061228 & 3FLD60611710



- Material:** Aluminum
- Tubing Range:** 1/2" to 3/4" (12.7mm to 19.0mm)
- Feature:** Lightweight, anodized industrial coupling
- Cv~1.5 (21.61) max for 3FL
 - Cv~3.8 (54.75) max for 5FL

Multiple Line Couplings

PAGE 41

Twin Tube™ Series
Sixtube™ Series
Tentube® Series
Multi-Mount Series



Photos not to scale

Liquid Dispensing Couplings

PAGE 47

Puncture Seal Dispensing System
Universal Dispensing Series



Photos not to scale

Specialty Products

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Keyed, Color-Coded Couplings
Fittings & Accessories
Fittings & Manifolds

Chemical Management Capabilities

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ChemQuik® Overview

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Liquid Flow Rates (Cv Values)
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Air Flow Graphs
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Sterilization Methods and Guide
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Panel Mount Installation Guidelines
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CPC Warranty Statement

Custom Solutions

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Special Application Capabilities

NEW!

NS4 Series Non-Spill Couplings

Material: Polypropylene

Patented 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 non-spill design virtually eliminates spills, minimizes downtime and enhances operator safety.



Patent Protected

FEATURES	BENEFITS
Non-spill design	Disconnect under pressure with no spills
Color-coding	Instant visual differentiation of media lines
Glass-filled polypropylene	Durable and compatible with many chemicals
CPC thumb latch	One-hand connection and disconnection

Applications may include:

- Ink handling
- Chemical delivery systems
- Electronic cooling
- Instrumentation
- Medical devices

Coupling Bodies

Polypropylene

Pipe Thread

THREAD SIZE

1/4" NPT
1/4" BSPT

TERMINATION TYPE

Male NPT Thread
Male BSPT Thread

SHUTOFF

NS4D10004
NS4D10004BSPT

In-Line

Ferruleless Polytube Fitting, PTF†

TUBING SIZE

3/8" OD 1/4" ID

METRIC EQ.

9.5mm OD 6.4mm ID

TERMINATION TYPE

Compression

SHUTOFF

NS4D13006

Hose Barb

TUBING SIZE

1/8" ID*
1/4" ID
3/8" ID

METRIC EQ.

3.2mm ID*
6.4mm ID
9.5mm ID

TERMINATION TYPE

Hose Barb
Hose Barb
Hose Barb

SHUTOFF

NS4D17002
NS4D17004
NS4D17006

All measurements are in inches 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.

†NOTE: CPC's ferruleless PTF (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.



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NS4 Series Specifications

Pressure: Vacuum to 120 psi, 8.3 bar (see graph)

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

Flow Capacity: Cv~0.6 (see graph)

Spillage: <0.10 cc/disconnect

Materials:

Main components and valves: Glass-filled polypropylene

Thumb latch: Glass-filled polypropylene

Valve spring: 316 stainless steel

External spring: 316 stainless steel

O-rings: EPDM (FKM optional)

Soft-touch overmold: TPV*

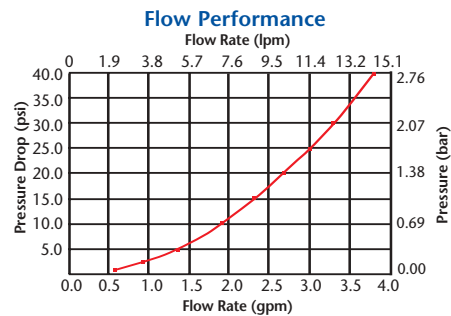
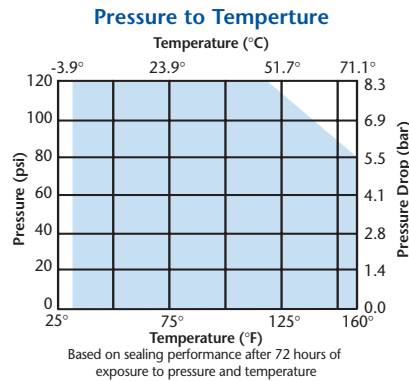
Color: Gray with dark gray overmold standard
(gray with red or blue overmold available)

Lubricants: Krytox® PFPE (inert)

Tubing Range: 1/8" to 3/8"
3.2mm to 9.5mm

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

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



Coupling Inserts

Polypropylene

Pipe Thread

THREAD SIZE	TERMINATION TYPE	SHUTOFF
1/4" NPT	Male NPT Thread	NS4D24004
1/4" BSPT	Male BSPT Thread	NS4D24004BSPT

In-Line

Ferruleless Polytube Fitting, PTF†

TUBING SIZE	METRIC EQ.	TERMINATION TYPE	SHUTOFF
3/8" OD 1/4" ID	9.5mm OD 6.4mm ID	Compression	NS4D20006

Hose Barb

TUBING SIZE	METRIC EQ.	TERMINATION TYPE	SHUTOFF
1/8" ID*	3.2mm ID*	Hose Barb	NS4D22002
1/4" ID	6.4mm ID	Hose Barb	NS4D22004
3/8" ID	9.5mm ID	Hose Barb	NS4D22006

Panel Mount

Ferruleless Polytube Fitting, PTF†

TUBING SIZE	METRIC EQ.	TERMINATION TYPE	SHUTOFF
3/8" OD 1/4" ID	9.5mm OD 6.4mm ID	Compression	NS4D40006

Hose Barb

TUBING SIZE	METRIC EQ.	TERMINATION TYPE	SHUTOFF
1/8" ID*	3.2mm ID*	Hose Barb	NS4D42002
1/4" ID	6.4mm ID	Hose Barb	NS4D42004
3/8" ID	9.5mm ID	Hose Barb	NS4D42006

Panel Hole 15/16"

Accessories

Panel Mount

For sealing panel mount inserts listed above

MATERIAL	SHUTOFF
EPDM	1879800
FKM	1889500

Gasket

*For 1/8" (3.2mm) ID tubing, maximum tube OD is 1/4" (6.4mm).

All measurements are in inches 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.

†NOTE: CPC's ferruleless PTF (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.

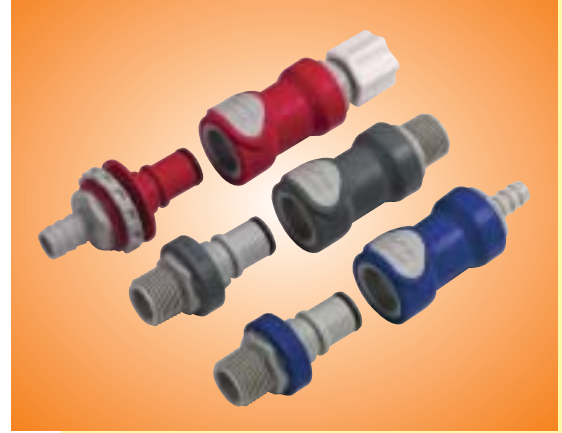
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NEW!

NS6 Series Non-Spill Couplings

Material: Polypropylene

Patent-pending NS6 Series couplings feature non-spill valves in a compact size, at a great price. Use the NS6 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 non-spill design virtually eliminates spills, minimizes downtime and enhances operator safety.



Patent Pending

FEATURES	BENEFITS
Non-spill design	Disconnect under pressure with no spills
Color-coding	Instant visual differentiation of media lines
Glass-filled polypropylene	Durable and compatible with many chemicals
CPC thumb latch	One-hand connection and disconnection

Applications may include:

- Ink handling
- Chemical delivery systems
- Electronic cooling
- Instrumentation
- Medical devices

Coupling Bodies

Polypropylene

Pipe Thread

THREAD SIZE

1/2" NPT
1/2" BSPT

TERMINATION TYPE

Male NPT Thread
Male BSPT Thread

SHUTOFF

NS6D10008
NS6D10008BSPT

In-Line

Compression

TUBING SIZE

1/2" OD 3/8" ID

METRIC EQ.

12.7mm OD 9.5mm ID

TERMINATION TYPE

Compression

SHUTOFF

NS6D13008

Hose Barb

TUBING SIZE

3/8" ID
1/2" ID

METRIC EQ.

9.5mm ID
12.7mm ID

TERMINATION TYPE

Hose Barb
Hose Barb

SHUTOFF

NS6D17006
NS6D17008

All measurements are in inches 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.



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NS6 Series Specifications

Pressure: Vacuum to 120 psi, 8.3 bar (see graph)

Temperature: 32° F to 160° F/0° C to 71° C

Flow Capacity: Cv~2.2 (see graph)

Spillage: 0.03 cc/disconnect @ ~0 psi
0.30 cc/disconnect @ ~120 psi

Materials:

Main components and valves: Glass-filled polypropylene

Thumb latch: Glass-filled polypropylene

Valve spring: 316 stainless steel

External spring: 316 stainless steel

O-rings: EPDM, FKM optional

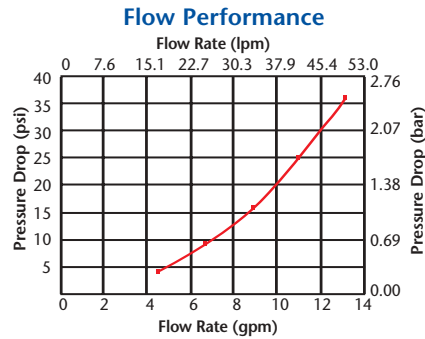
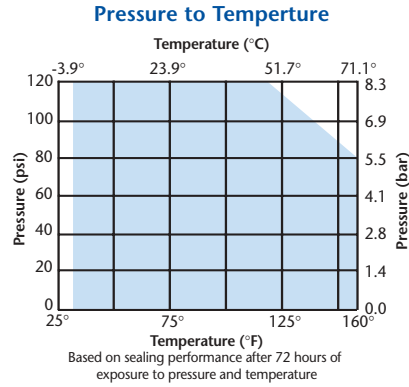
Soft-touch overmold: TPV*

Color: Gray with dark gray overmold standard
(gray with red or blue overmold available)

Lubricants: Krytox® PFPE (inert)

Tubing Range: 3/8" and 1/2"
9.5mm and 12.7mm

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



Coupling Inserts

Polypropylene

Pipe Thread

THREAD SIZE	TERMINATION TYPE	SHUTOFF
1/2" NPT	Male NPT Thread	NS6D24008
1/2" BSPT	Male BSPT Thread	NS6D24008BSPT

In-Line

Compression

TUBING SIZE	METRIC EQ.	TERMINATION TYPE	SHUTOFF
1/2" OD 3/8" ID	12.7mm OD 9.5mm ID	Compression	NS6D20008

Hose Barb

TUBING SIZE	METRIC EQ.	TERMINATION TYPE	SHUTOFF
3/8" ID	9.5mm ID	Hose Barb	NS6D22006
1/2" ID	12.7mm ID	Hose Barb	NS6D22008

Panel Mount

Compression

TUBING SIZE	METRIC EQ.	TERMINATION TYPE	SHUTOFF
1/2" OD 3/8" ID	12.7mm OD 9.5mm ID	Compression	NS6D40008

Hose Barb

TUBING SIZE	METRIC EQ.	TERMINATION TYPE	SHUTOFF
3/8" ID	9.5mm ID	Hose Barb	NS6D42006
1/2" ID	12.7mm ID	Hose Barb	NS6D42008
Panel Hole 1-1/4"			



Accessories

Panel Mount

Gasket

	MATERIAL	SHUTOFF
For sealing panel mount inserts listed above	EPDM	1884300
	FKM	1889600

All measurements are in inches 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.

NSH Series

Material: Polypropylene

Patented NSH Series couplings feature a pressure-balanced non-spill design and a 100% metal-free, spring-free flow path at a very competitive price. These innovative couplings are easy to use (single-handed operation) and provide high flow capacity. Their non-spill design virtually eliminates spills, minimizes downtime and enhances operator safety.



Patent Protected

Applications may include:

- Industrial laundry
- Battery filling
- DI/Ultra pure water
- Dry cleaning equipment

FEATURES

BENEFITS

All plastic flow path	High flow, low turbulence, no corrosion
Non-spill design	Disconnect under pressure with no spills
Glass-filled polypropylene	Durable and compatible with many chemicals
CPC thumb latch	One-hand connection and disconnection

Coupling Bodies



Polypropylene

Pipe Thread

THREAD SIZE	TERMINATION TYPE	SHUTOFF	B	C
3/8" NPT	Female NPT Thread	NSHD19006	2.0	3.70
3/8" BSPT	Male BSPT Thread	NSHD10006BSPT	2.0	3.67
1/2" NPT	Male NPT Thread	NSHD10008	2.0	3.81
3/4" NPT	Male NPT Thread	NSHD10012	2.0	4.01

In-Line

Compression

TUBING SIZE	METRIC EQ.	TERMINATION TYPE	SHUTOFF	B	C
3/8" OD	9.5mm OD	Compression	NSHD13006	2.0	3.97
1/2" OD	12.7mm OD	Compression	NSHD13008	2.0	4.10

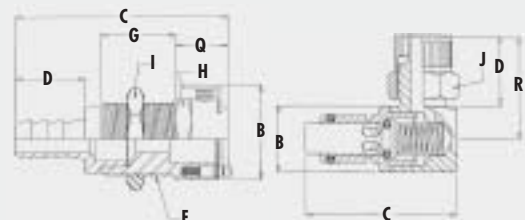
Hose Barb

TUBING SIZE	METRIC EQ.	TERMINATION TYPE	SHUTOFF	B	C
3/8" ID	9.5mm ID	Hose Barb	NSHD17006	2.0	3.73
1/2" ID	12.7mm ID	Hose Barb	NSHD17008	2.0	3.73
5/8" ID	15.9mm ID	Hose Barb	NSHD17010	2.0	3.88
3/4" ID	19.0mm ID	Hose Barb	NSHD17012	2.0	3.73

Product Dimension Codes

C = Total Length (including valve)	Q = Extension from Panel Front
E = Panel Opening	R = Elbow Radial Length
G = Thread Length	B = Height/Diameter
I = Hex Size of Panel Nut	D = Length of Termination
K = Maximum Panel Thickness	F = Thread Size
L = Minimum Panel Thickness	H = Hex Size on Main Component
	J = Hex Size of PTF Nut

NOTE: MBLK = molded black acetal. BLK = dyed black acetal.



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



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NSH Series Specifications

Pressure: Vacuum to 120 psi, 8.3 bar

Temperature: 32° F to 120° F / 0° C to 49° C

Flow Capacity: Cv~3.0 (see graph)

Spillage: < 0.10 cc/disconnect

Materials:

Main components: Polypropylene, glass-filled polypropylene

O-ring seals: EPDM

Panel mount seal: EPDM

Optional seal materials: FKM

Optional colors: Red or blue thumb latch and insert tip

Springs (not in flow path): 316 stainless steel

Compression nut, gripper, ferrule: Polypropylene

Lubricants: Krytox® PFPE (*inert*)

Panel mount nut: HDPE

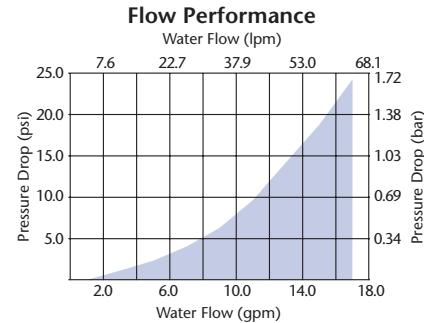
Panel mount adapter: HDPE

Tubing Range: 3/8" to 3/4"
9.5mm to 19mm

Compression Termination: Tubing specifications 3/8" OD or 1/2" OD +0.010/-0.000



Patent Protected



Coupling Inserts

Polypropylene

Pipe Thread

THREAD SIZE	TERMINATION TYPE	PART NO.	B	C
3/8" NPT	Female NPT Thread	NSHD26006	1.64	3.87
3/8" BSPT	Male BSPT Thread	NSHD24006BSPT	1.64	3.84
1/2" NPT	Male NPT Thread	NSHD24008	1.64	3.98
3/4" NPT	Male NPT Thread	NSHD24012	1.64	3.98

In-Line Compression

TUBING SIZE	METRIC EQ.	TERMINATION TYPE	PART NO.	B	C
3/8" OD	9.5mm OD	Compression	NSHD20006	1.64	4.14
1/2" OD	12.7mm OD	Compression	NSHD20008	1.64	4.27

Hose Barb

TUBING SIZE	METRIC EQ.	TERMINATION TYPE	PART NO.	B	C
3/8" ID	9.5mm ID	Hose Barb	NSHD22006	1.64	3.90
1/2" ID	12.7mm ID	Hose Barb	NSHD22008	1.64	3.90
5/8" ID	15.9mm ID	Hose Barb	NSHD22010	1.64	4.05
3/4" ID	19.0mm ID	Hose Barb	NSHD22012	1.64	3.90

Accessories

Panel Mount Kit	With Panel Seal	NSH PMKIT 12
Dust Plug/Cap	For Body or Insert	1800700

A 2.00 inch (50.8mm) hole must be bored in the panel/container. Maximum panel thickness is .50 inch (12.7mm). Minimum panel thickness is .12 inch (3.1mm). *Panel mount kit can be used with body for front mount or insert for front or rear mount.*

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

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SMC Series Subminiature Couplings

Material: Acetal, Polypropylene, Polycarbonate, Chrome-Plated Brass

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



Patent Protected

Applications may include:

- Ink jet printing
- Blood pressure cuffs
- Cooling suits
- Gas chromatography
- Photo developers
- Particle counters

FEATURES

BENEFITS

Twist to connect	Prevents accidental disconnects
Free coupling rotation	Eliminates kinked tubing
Patented hose barb shroud	Protects fragile 1/16" hose barb
Available in polycarbonate	Gamma-sterilizable (see page 59)

Coupling Bodies

Acetal

PIPE THREAD	THREAD SIZE	STRAIGHT THRU	SHUTOFF	B	C	G	H
Pipe Thread	1/8" NPT	SMPT02	SMPTD02	.51	.86	.40	7/16
	1/8" NPT	SMPT02BLK	SMPTD02BLK	.51	.86	.40	7/16

IN-LINE HOSE BARB	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
In-Line Hose Barb	1/16" ID	1.6mm ID	SMF01	SMFD01	.48	.75/.90	.20
	1/16" ID	1.6mm ID	SMF01MBLK	SMFD01MBLK	.48	.75/.90	.20
			SMFM3	SMFDM3	.48	1.00	.30
	1/8" ID	3.2mm ID	SMFM3MBLK	SMFDM3MBLK	.48	1.00	.30
			SMF02	SMFD02	.48	.90	.45
	1/8" ID	3.2mm ID	SMF02MBLK	SMFD02MBLK	.48	.90	.45

PANEL MOUNT HOSE BARB	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	F	G	H	I	Q
Panel Mount Hose Barb	1/16" ID	1.6mm ID	SMFPM01	SMFPM01	.58	.75/.90	.20	7/16-24UNS	.35	1/2	1/2	.35
	1/16" ID	1.6mm ID	SMFPM01BLK	SMFPM01BLK	.58	.75/.90	.20	7/16-24UNS	.35	1/2		.35
			SMFPM3	SMFPM3	.58	1.00	.30	7/16-24UNS	.35	1/2	1/2	.35
			SMFPM3MBLK	SMFPM3MBLK	.58	1.00	.30	7/16-24UNS	.35	1/2		.35
	1/8" ID	3.2mm ID	SMFPM02	SMFPM02	.58	.90	.45	7/16-24UNS	.35	1/2	1/2	.35
			SMFPM02BLK	SMFPM02BLK	.58	.90	.45	7/16-24UNS	.35	1/2		.35

Polycarbonate

IN-LINE HOSE BARB	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	B	C	D
In-Line Hose Barb	1/16" ID	1.6mm ID	SMF0191	.48	.75/.90	.20
	1/8" ID	3.2mm ID	SMF0291	.48	.90	.45

Polypropylene

PIPE THREAD	THREAD SIZE	STRAIGHT THRU	B	C	G	H
Pipe Thread	1/8" NPT	SMPT0212	.51	.86	.40	7/16

IN-LINE HOSE BARB	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	B	C	D
In-Line Hose Barb	1/16" ID	1.6mm ID	SMF0112	.48	.75/.90	.20
	1/8" ID	3.2mm ID	SMF0212	.48	.90	.45

PANEL MOUNT HOSE BARB	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	B	C	D	F	G	H	I	Q
Panel Mount Hose Barb	1/16" ID	1.6mm ID	SMFPM0112	.58	.75/.90	.20	7/16-24UNS	.35	1/2	1/2	.35
	1/8" ID	3.2mm ID	SMFPM0212	.58	.90	.45	7/16-24UNS	.35	1/2	1/2	.35

SMC Complete Acetal In-Line Couplings

Hose Barb



TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C
1/16" ID	1.6mm ID	SMC01	SMCD01	1.32/1.46
1/16" ID	1.6mm ID	SMC01MBLK	SMCD01MBLK	1.32/1.46
		SMCM3	SMCDM3	1.62
1/8" ID	3.2mm ID	SMCM3MBLK	SMCDM3MBLK	1.62
		SMC02	SMCD02	1.61
1/8" ID	3.2mm ID	SMC02MBLK	SMCD02MBLK	1.61

All measurements are in inches unless otherwise noted. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided. MBLK = molded black material. BLK = dyed black material.



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SMC Series Specifications

Pressure: Vacuum to 100 psi, 6.9 bar

Temperature: Acetal, Chrome-Plated Brass Polypropylene Polycarbonate
 -40° F to 180° F 32° F to 180° F -40° F to 250° F
 -40° C to 82° C 0° C to 82° C -40° C to 121° C

Materials:

Main components: Acetal, polypropylene or polycarbonate

Locking sleeves: Acetal or polycarbonate

Valves: Acetal

Valve spring: 316 stainless steel

O-rings: Buna-N with acetal, chrome-plated brass or polycarbonate, EPDM with polypropylene

Color: Main components: Natural white (acetal), almond (polypropylene), purple tint (polycarbonate)

Tubing Range: 1/16" to 1/8" ID, 1.6mm to 3.2mm ID

NOTE: For 1/16" ID tubing, maximum tube OD is .150".



Automated lab equipment

Coupling Inserts (all insert photos shown here are non-valved)

Acetal

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	B	C	D					
In-Line <i>Hose Barb</i>	1/16" ID	1.6mm ID	SMM01	.48	.75	.20					
	1/16" ID	1.6mm ID	SMM01MBLK	.48	.75	.20					
			SMMM3	.48	.80	.30					
			SMMM3MBLK	.48	.80	.30					
	1/8" ID	3.2mm ID	SMM02	.48	.90	.45					
			SMM02MBLK	.48	.90	.45					
Panel Mount <i>Hose Barb</i>	1/16" ID	1.6mm ID	SMMPM01	.50	.75	.20	7/16-24UNS	.35	1/2	1/2	.35
	1/16" ID	1.6mm ID	SMMPM01BLK	.50	.75	.20	7/16-24UNS	.35	1/2	1/2	.35
			SMMPMM3	.50	.80	.30	7/16-24UNS	.35	1/2	1/2	.35
			SMMPMM3BLK	.50	.80	.30	7/16-24UNS	.35	1/2	1/2	.35
			SMMPM02	.50	.90	.45	7/16-24UNS	.35	1/2	1/2	.35
	1/8" ID	3.2mm ID	SMMPM02BLK	.50	.90	.45	7/16-24UNS	.35	1/2	1/2	.35

Chrome-Plated Brass

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	B	C	D	F
In-Line <i>Hose Barb</i>	1/8" ID	3.2mm ID	SMM02CBMBLK	.48	.90	.45	
Panel Mount <i>Hose Barb</i>	1/8" ID	3.2mm ID	SMMPM02CBBLK	.50	.90	.45	7/16-24UNS

Polycarbonate

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	B	C	D
In-Line <i>Hose Barb</i>	1/16" ID	1.6mm ID	SMM0191	.48	.75	.20
	1/8" ID	3.2mm ID	SMM0291	.48	.90	.45

Polypropylene

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	B	C	D	F	G	H	I	Q
In-Line <i>Hose Barb</i>	1/16" ID	1.6mm ID	SMM0112	.48	.75	.20					
	1/8" ID	3.2mm ID	SMM0212	.48	.90	.45					
Panel Mount <i>Hose Barb</i>	1/16" ID	1.6mm ID	SMMPM0112	.50	.75	.20	7/16-24UNS	.35	1/2	1/2	.35
	1/8" ID	3.2mm ID	SMMPM0212	.50	.90	.45	7/16-24UNS	.35	1/2	1/2	.35

SMC Complete In-Line Couplings

Polycarbonate

<i>Hose Barb</i>	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	C
	1/16" ID	1.6mm ID	SMC0191	1.32
	1/8" ID	3.2mm ID	SMC0291	1.61

Polypropylene

<i>Hose Barb</i>	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	C
	1/16" ID	1.6mm ID	SMC0112	1.32
	1/8" ID	3.2mm ID	SMC0212	1.61

All measurements are in inches unless otherwise noted. Couplings are pictured with valves unless otherwise noted. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided. MBLK = molded black material. BLK = dyed black material.

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PMC Series

Material: Acetal

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



FEATURES	BENEFITS
CPC thumb latch	One-hand connection and disconnection
Integral terminations	Fewer leak points, shorter assemblies, faster installations
Clicks when connected	Assurance of a reliable connection
Compatible	Mates with MC Series couplings

Applications may include:

- Gas detection
- Medical devices
- Chemical analyzers
- Optical inspection equipment
- Ink jet printing
- Carpet cleaners

NOTE: Special ordered couplings are available in versions that comply with listing requirements for NSF standard C-2.

Coupling Bodies

Acetal

Pipe Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	B	C	G	H
1/8" NPT	PMC1002	PMCD1002	.79	1.00	.40	1/2
1/8" BSPT	PMC1002BSPT	PMCD1002BSPT	.79	1.00	.40	5/8
1/4" NPT	PMC1004	PMCD1004	.79	1.10	.50	5/8
1/4" BSPT	PMC1004BSPT	PMCD1004BSPT	.79	1.10	.50	5/8

Panel Mount

Ferruleless

Polytube

Fitting, PTF†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	F	G	H	I	J	Q
5/32" OD .10" ID	4mm OD 2mm ID	PMC12M42	PMCD12M42	.79	1.65	.45	1/2-24UNS	.65	5/8	5/8	3/8	.45
1/4" OD .17" ID	4.0mm OD 2.5mm ID	PMC12025	PMCD12025	.79	1.70	.50	1/2-24UNS	.65	5/8	5/8	3/8	.45
1/4" OD .17" ID	6.4mm OD 4.3mm ID	PMC1204	PMCD1204	.79	1.72	.52	1/2-24UNS	.65	5/8	5/8	3/8	.45

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	F	G	H	I	Q
1/16" ID	1.6mm ID	PMC1601	PMCD1601	.79	1.40	.20	1/2-24 UNS	.65	5/8	5/8	.45
1/8" ID	3.2mm ID	PMC1602	PMCD1602	.79	1.65	.45	1/2-24 UNS	.65	5/8	5/8	.45
3/16" ID	4.8mm ID	PMC1603	PMCD1603	.79	1.85	.65	1/2-24 UNS	.65	5/8	5/8	.45
1/4" ID	6.4mm ID	PMC1604	PMCD1604	.79	1.85	.65	1/2-24 UNS	.65	5/8	5/8	.45

Female Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	B	C	G	H	I	Q
10-32 UNF	PMC181032	PMCD181032	.79	1.25	.65	5/8	5/8	.45

In-Line

Ferruleless

Polytube

Fitting, PTF†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	J
5/32" OD .10" ID	4mm OD 2mm ID	PMC13M42	PMCD13M42	.79	1.65	.45	3/8
1/4" OD .17" ID	4.0mm OD 2.5mm ID	PMC13025	PMCD13025	.79	1.65	.50	3/8
1/4" OD .17" ID	6.4mm OD 4.3mm ID	PMC1304	PMCD1304	.79	1.75	.52	7/16

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
1/16" ID	1.6mm ID	PMC1701	PMCD1701	.79	1.41	.20
1/8" ID	3.2mm ID	PMC1702	PMCD1702	.79	1.65	.45
3/16" ID	4.8mm ID	PMC1703	PMCD1703	.79	1.85	.65
1/4" ID	6.4mm ID	PMC1704	PMCD1704	.79	1.85	.65

Female Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	B	C
10-32 UNF	PMC191032	PMCD191032	.79	1.25

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

†NOTE: CPC's ferruleless PTF (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.



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PMC Series Specifications

Pressure: Vacuum to 120 psi, 8.3 bar

Temperature: -40° F to 180° F continuous
-40° C to 82° C continuous

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 Range: 1/16" to 1/4"
1.6mm to 6.4mm

NOTE: For 1/16" ID tubing, maximum tube OD is .150".



Merlin ink jet printers use elbow inserts to make tube routing easier.

Coupling Inserts

Acetal

Pipe Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	D	H
1/8" NPT	PMC2402	PMCD2402	1.03/1.45	.40	1/2
1/8" BSPT	PMC2402BSPT	PMCD2402BSPT	1.03/1.44	.40	1/2
1/4" NPT	PMC2404	PMCD2404	1.13/1.42	.50	9/16
1/4" BSPT	PMC2404BSPT	PMCD2404BSPT	1.13/1.42	.50	9/16

Panel Mount Ferruleless Polytube Fitting, PTF†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	J	Q
1/4" OD .17" ID	6.4mm OD 4.3mm ID	PMC4004	PMCD4004	1.70/1.82	.52	1/2-24UNS	.46	5/8	5/8	7/16	.62/.74

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	Q
1/16" ID	1.6mm ID	PMC4201	PMCD4201	1.38/1.50	.20	1/2-24 UNS	.46	5/8	5/8	.62/.74
1/8" ID	3.2mm ID	PMC4202	PMCD4202	1.63/1.75	.45	1/2-24 UNS	.46	5/8	5/8	.62/.74
3/16" ID	4.8mm ID	PMC4203	PMCD4203	1.83/1.95	.65	1/2-24 UNS	.46	5/8	5/8	.62/.74
1/4" ID	6.4mm ID	PMC4204	PMCD4204	1.83/1.95	.65	1/2-24 UNS	.46	5/8	5/8	.62/.74

In-Line Ferruleless Polytube Fitting, PTF†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	H	J
5/32" OD .10" ID	4.0mm OD 2.5mm ID	PMC20M42	PMCD20M42	1.08/1.60	.45	1/2	3/8
1/4" OD .17" ID	6.4mm OD 4.3mm ID	PMC20025	PMCD20025	1.13/1.65	.50	1/2	3/8
3/8" OD .25" ID	9.5mm OD 6.4mm ID	PMC2004	PMCD2004	1.15/1.57	.52	1/2	7/16
		PMC2006	PMCD2006	1.40/1.52	.65	1/2	9/16

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	H
1/16" ID	1.6mm ID	PMC2201	PMCD2201	.50	.80/1.47	.20	1/2
1/8" ID	3.2mm ID	PMC2202	PMCD2202	.50	1.05/1.67	.45	1/2
3/16" ID	4.8mm ID	PMC2203	PMCD2203	.50	1.20/1.88	.65	1/2
1/4" ID	6.4mm ID	PMC2204	PMCD2204	.50	1.22/1.70	.65	1/2

Female Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	H
10-32 UNF	PMC281032	PMCD281032	.63/1.31	1/2

Elbow Ferruleless Polytube Fitting, PTF†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	R
5/32" OD .10" ID	4.0mm OD 2.5mm ID	PMC21025		.50	1.17	.50	.75
1/4" OD .17" ID	6.4mm OD 4.3mm ID	PMC2104	PMCD2104	.50	1.17/1.21	.52	.77

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	R
1/8" ID	3.2mm ID	PMC2302	PMCD2302	.50	.85/1.21	.45	.75/.69
1/4" ID	6.4mm ID	PMC2304	PMCD2304	.50	1.00/1.21	.65	.95/.90

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

†NOTE: CPC's ferruleless PTF (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.



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PMC12 Series

Material: Polypropylene

The 1/8" flow polypropylene PMC12 offers many of the same configuration options as the PMC. The polypropylene material adds greater chemical resistance for more demanding applications. PMC12 couplings are also gamma-sterilizable.



FEATURES	BENEFITS
Polypropylene material	Chemically-resistant and gamma-sterilizable
EPDM o-ring	Greater chemical resistance
CPC thumb latch	One-hand connection and disconnection
Integral terminations	Fewer leak points, shorter assemblies, faster installations

Applications may include:

- Protein analyzers
- Cleaning concentrates
- Plating solutions
- Sterilizers
- Cyanide distillation

Coupling Bodies

Polypropylene

Pipe Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	B	C	G	H
1/8" NPT	PMC100212	PMCD100212	.79	1.00	.40	5/8
1/4" NPT		PMCD100412	.79	1.10	.50	5/8

Panel Mount Ferruleless Polytube Fitting, PTF†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	F	G	H	I	J	Q
1/4" OD .17" ID	6.4mm OD 4.3mm ID	PMC120412	PMCD120412	.79	1.72	.52	1/2-24UNS	.65	5/8	5/8	7/16	.45

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	F	G	H	I	Q
1/16" ID	1.6mm ID	PMC160112	PMCD160112	.79	1.40	.20	1/2-24UNS	.65	5/8	5/8	.45
1/8" ID	3.2mm ID	PMC160212	PMCD160212	.79	1.65	.45	1/2-24UNS	.65	5/8	5/8	.45
1/4" ID	6.4mm ID	PMC160412	PMCD160412	.79	1.85	.65	1/2-24UNS	.65	5/8	5/8	.45

In-Line Ferruleless Polytube Fitting, PTF†

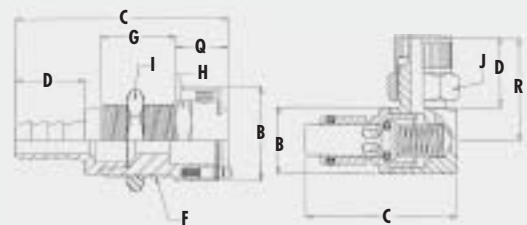
TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	J
1/4" OD .17" ID	6.4mm OD 4.3mm ID	PMC130412	PMCD130412	.79	1.74	.52	7/16

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
1/16" ID	1.6mm ID	PMC170112	PMCD170112	.79	1.42	.20
1/8" ID	3.2mm ID	PMC170212	PMCD170212	.79	1.67	.45
1/4" ID	6.4mm ID	PMC170412	PMCD170412	.79	1.87	.65


Product Dimension Codes

- | | |
|---------------------------------------|--------------------------------|
| C = Total Length
(including valve) | Q = Extension from Panel Front |
| E = Panel Opening | R = Elbow Radial Length |
| G = Thread Length | B = Height/Diameter |
| I = Hex Size of Panel Nut | D = Length of Termination |
| K = Maximum Panel Thickness | F = Thread Size |
| L = Minimum Panel Thickness | H = Hex Size on Main Component |
| | J = Hex Size of PTF Nut |



All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Straight thru dimension is listed first when two measurements are provided.

†NOTE: CPC's ferruleless PTF (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.

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PMC12 Series Specifications

Pressure: Vacuum to 120 psi, 8.3 bar (see graph)

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

Color: Almond

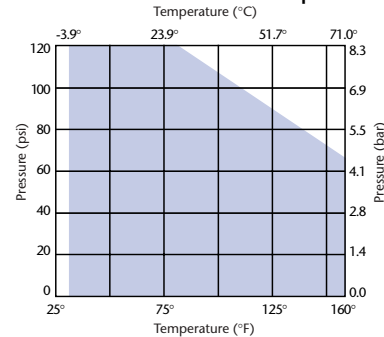
Tubing Range: 1/16" to 1/4"
1.6mm to 6.4mm

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



Ink reservoir and printing plate change overs are improved by the use of quick disconnect couplings from CPC.

PMC12 Series Pressure to Temperature



Based on sealing performance after 72 hours of exposure to pressure and temperature.

Coupling Inserts

Polypropylene

THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	D	G	H
Pipe Thread 1/8" NPT	PMC240212	PMCD240212	1.03/1.45	.40	.40	1/2

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	H	J
In-Line Ferruleless Polytube Fitting, PTF† 1/4" OD .17" ID	6.4mm OD 4.3mm ID	PMC200412	PMCD200412	1.15/1.58	.52	1/2	7/16

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	H
Hose Barb 1/16" ID	1.6mm ID	PMC220112	PMCD220112	.50	.80/1.47	.20	1/2
1/8" ID	3.2mm ID	PMC220212	PMCD220212	.50	1.05/1.67	.45	1/2
1/4" ID	6.4mm ID	PMC220412	PMCD220412	.50	1.20/1.71	.65	1/2

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	R
Elbow Ferruleless Polytube Fitting, PTF† 1/4" OD .17" ID	6.4mm OD 4.3mm ID		PMCD210412	.50	1.21	.52	.77

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	R
Hose Barb 1/8" ID	3.2mm ID	PMC230212	PMCD230212	.50	1.09/1.21	.45	.69
1/4" ID	6.4mm ID	PMC230412	PMCD230412	.50	1.09/1.21	.65	.90

All measurements are in inches 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.

†NOTE: CPC's ferruleless PTF (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.



non-valved

PLC Series

Material: Acetal

The 1/4" flow PLC Series is the most popular group of couplings from CPC. Proven worldwide in thousands of applications, the PLC line offers the widest selection of sizes and configurations. PLC couplings are injection molded from acetal thermoplastic, are durable and resistant to most mild chemical solutions. One-handed connection/disconnection, plus integral terminations make the PLC Series the choice for ease of use and manufacture.



Applications may include:

- Floor cleaning equipment
- Deionized water filtration
- Beverage dispensing
- Automated machinery
- Compression therapy
- Leak detection

NOTE: Special ordered couplings are available in versions that comply with listing requirements for NSF standard C-2.

FEATURES

BENEFITS

CPC thumb latch	One-hand connection and disconnection
Integral terminations	Fewer leak points, shorter assemblies, faster installations
Clicks when connected	Assurance of a reliable connection
Compatible	Mates with LC Series couplings

Coupling Bodies

Acetal

Pipe Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	G	H
1/4" NPT	PLC10004	PLCD10004	1.17	.50	5/8
1/4" BSPT	PLC10004BSPT	PLCD10004BSPT	1.15	.50	3/4
3/8" NPT	PLC10006	PLCD10006	1.15	.50	3/4
3/8" BSPT	PLC10006BSPT	PLCD10006BSPT	1.15	.50	3/4

Panel Mount

Ferruleless

Polytube

Fitting, PTF†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	J	Q
1/4" OD .17" ID	6.4mm OD 4.3mm ID	PLC12004	PLCD12004	1.87	.52	11/16-24UNEF	.70	3/4	13/16	.02	.50
	8mm OD 6mm ID	PLC120M8	PLCD120M8	1.95	.65	11/16-24UNEF	.70	3/4	13/16	.02	.50
3/8" OD .25" ID	9.5mm OD 6.4mm ID	PLC12006	PLCD12006	1.95	.65	11/16-24UNEF	.70	3/4	13/16	.02	.50
	10mm OD 8mm ID	PLC120M10	PLCD120M10	1.95	.65	11/16-24UNEF	.70	3/4	13/16	.02	.50

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	Q
1/4" ID	6.4mm ID	PLC16004	PLCD16004	1.95	.65	11/16-24UNEF	.70	3/4	.02	.50
5/16" ID	7.9mm ID	PLC16005	PLCD16005	1.95	.65	11/16-24UNEF	.70	3/4	.02	.50
3/8" ID	9.5mm ID	PLC16006	PLCD16006	1.95	.65	11/16-24UNEF	.70	3/4	.02	.50

JG® Push-To-Connect

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	F	G	H	I	Q
1/4" OD	6.4mm OD	PLC11004	PLCD11004	1.95	11/16-24UNEF	.70	3/4	.02	.50

In-Line

Ferruleless

Polytube

Fitting, PTF†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	J
1/4" OD .17" ID	6.4mm OD 4.3mm ID	PLC13004	PLCD13004	.93	1.82	.52	7/16
	8mm OD 6mm ID	PLC130M8	PLCD130M8	.93	1.95	.65	9/16
3/8" OD .25" ID	9.5mm OD 6.4mm ID	PLC13006	PLCD13006	.93	1.95	.65	9/16
	10mm OD 8mm ID	PLC130M10	PLCD130M10	.93	1.95	.65	9/16

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
1/4" ID	6.4mm ID	PLC17004	PLCD17004	.93	1.95	.65
5/16" ID	7.9mm ID	PLC17005	PLCD17005	.93	1.95	.65
3/8" ID	9.5mm ID	PLC17006	PLCD17006	.93	1.95	.65

JG® Push-To-Connect

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C
1/4" OD	6.4mm OD	PLC14004	PLCD14004	.93	1.95
3/8" OD	9.5mm OD	PLC14006	PLCD14006	.93	2.09

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

NOTE: JG is a registered trademark of John Guest USA, Inc.

†NOTE: CPC's ferruleless PTF (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.



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PLC Series Specifications

Pressure: Vacuum to 120 psi, 8.3 bar

Temperature: -40° F to 180° F continuous
-40° C to 82° C continuous

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 Range: 1/4" to 3/8"
6.4mm to 9.5mm

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

Coupling Inserts

Acetal

Pipe Thread	THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	D	H
	1/4" NPT	PLC24004	PLCD24004	1.25/1.63	.50	5/8
	1/4" BSPT	PLC24004BSPT	PLCD24004BSPT	1.53/1.63	.50	5/8
	3/8" NPT	PLC24006	PLCD24006	1.25/1.59	.50	3/4
	3/8" BSPT	PLC24006BSPT	PLCD24006BSPT	1.25/1.64	.50	3/4

Panel Mount Ferruleless Polytube Fitting, PTF†	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	J	Q
1/4" OD .17" ID	6.4mm OD 4.3mm ID	8mm OD 6mm ID	PLC40004	PLCD40004	1.78/1.91	.52/.62	11/16-24UNEF	.46	3/4	13/16	.02	.70/84
			PLC400M8	PLCD400M8	1.91/2.03	.65	11/16-24UNEF	.46	3/4	13/16	.02	.70/84
3/8" OD .25" ID	9.5mm OD 6.4mm ID	10mm OD 8mm ID	PLC40006	PLCD40006	1.91/2.05	.65	11/16-24UNEF	.46	3/4	13/16	.02	.70/84
			PLC400M10	PLCD400M10	1.91/2.05	.65	11/16-24UNEF	.46	3/4	13/16	.02	.70/84

Hose Barb	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	Q
1/4" ID	6.4mm ID	8mm ID	PLC42004	PLCD42004	1.91/2.05	.65	11/16-24UNEF	.46	3/4	13/16	.70/84
			PLC42005	PLCD42005	1.91/2.05	.65	11/16-24UNEF	.46	3/4	13/16	.70/84
			PLC42006	PLCD42006	1.91/2.05	.65	11/16-24UNEF	.46	3/4	13/16	.70/84

JG® Push-To-Connect	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	Q
1/4" OD	6.4mm OD		PLC41004	PLCD41004	1.91/2.05		11/16-24UNEF	.46	3/4	13/16	.70/84

In-Line Ferruleless Polytube Fitting, PTF†	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	H	J
1/4" OD .17" ID	6.4mm OD 4.3mm ID	8mm OD 6mm ID	PLC20004	PLCD20004	1.25/1.88	.52	5/8	7/16
			PLC200M8	PLCD200M8	1.38/1.82	.65	5/8	9/16
3/8" OD .25" ID	9.5mm OD 6.4mm ID	10mm OD 8mm ID	PLC20006	PLCD20006	1.38/1.82	.65	5/8	9/16
			PLC200M10	PLCD200M10	1.38/1.82	.65	5/8	9/16

Hose Barb	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	H
1/4" ID	6.4mm ID	8mm ID	PLC22004	PLCD22004	.62	1.35/1.99	.65	5/8
			PLC22005	PLCD22005	.62	1.35/1.99	.65	5/8
			PLC22006	PLCD22006	.62	1.36/1.81	.65	5/8

JG® Push-To-Connect	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C
1/4" OD	6.4mm OD	8mm OD	PLC29004	PLCD29004	.63	1.35/1.95
			PLC29006	PLCD29006	.78	1.51/2.11

Elbow Ferruleless Polytube Fitting, PTF†	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	J	R
3/8" OD .25" ID	9.5mm OD 6.4mm ID		PLC21006	PLCD21006	1.22/1.35	.65	9/16	.85/.96

Hose Barb	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	R
1/4" ID	6.4mm ID	8mm ID	PLC23004	PLCD23004	1.10/1.28	.65	.85/.96
			PLC23006	PLCD23006	1.25/1.28	.65	.90/.96

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

NOTE: JG is a registered trademark of John Guest USA, Inc.

†NOTE: CPC's ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure fitting, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.



non-valved

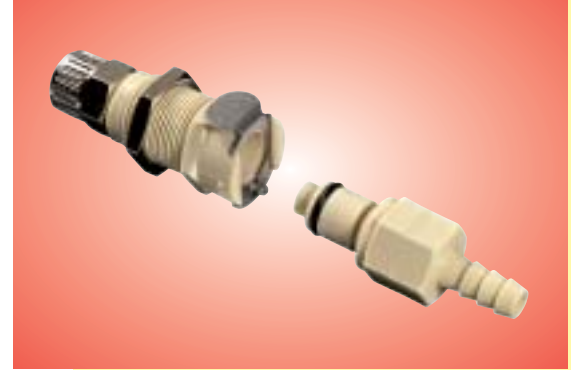
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PLC12 Series

Material: Polypropylene

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	BENEFITS
Polypropylene material	Chemically-resistant and gamma-sterilizable (see page 59)
EPDM o-rings	Greater chemical resistance
CPC thumb latch	One-hand connection and disconnection
Integral terminations	Fewer leak points, shorter assemblies, faster installations

Applications may include:

- Battery filling equipment
- Disinfectants
- Ink jet printing
- Chemical metering pumps
- Pharmaceutical manufacturing
- Semiconductor chemical processing

Coupling Bodies

Polypropylene

Pipe Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	G	H
1/4" NPT	PLC1000412	PLCD1000412	1.15	.50	3/4
3/8" NPT		PLCD1000612	1.15	.50	3/4

Panel Mount

Ferruleless Polytube Fitting, PTF†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	J	Q
3/8" OD .25" ID	9.5mm OD 6.4mm ID	PLC1200612	PLCD1200612	1.95	.65	11/16-24UNEF	.70	3/4	13/16	.50

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	J	Q
1/4" ID	6.4mm ID	PLC1600412	PLCD1600412	1.95	.65	11/16-24UNEF	.70	3/4	13/16	.50
3/8" ID	9.5mm ID	PLC1600612	PLCD1600612	1.95	.65	11/16-24UNEF	.70	3/4	13/16	.50

In-Line

Ferruleless Polytube Fitting, PTF†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	J
3/8" OD .25" ID	9.5mm OD 6.4mm ID	PLC1300612	PLCD1300612	.93	1.96	.65	9/16

Hose Barb

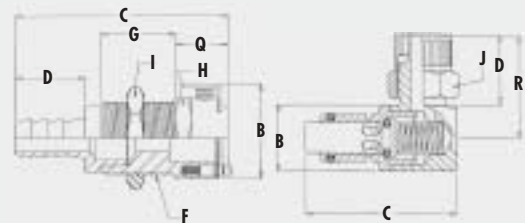
TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
1/4" ID	6.4mm ID	PLC1700412	PLCD1700412	.93	1.96	.65
3/8" ID	9.5mm ID	PLC1700612	PLCD1700612	.93	1.96	.65

Softube™ Fitting

TUBING SIZE	METRIC EQ.	SHUTOFF	B	C	D
1/4" 3/8"	6.4mm 9.5mm	PLCD17040612	.93	2.20	.89
3/8" 1/2"	9.5mm 12.7mm	PLCD17060812	.93	2.36	1.05

Product Dimension Codes

C = Total Length (including valve)	Q = Extension from Panel Front
E = Panel Opening	R = Elbow Radial Length
G = Thread Length	B = Height/Diameter
I = Hex Size of Panel Nut	D = Length of Termination
K = Maximum Panel Thickness	F = Thread Size
L = Minimum Panel Thickness	H = Hex Size on Main Component
	J = Hex Size of PTF Nut



All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Straight thru dimension is listed first when two measurements are provided.

†NOTE: CPC's ferruleless PTF (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.



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PLC12 Series Specifications

Pressure: Vacuum to 120 psi, 8.3 bar (see graph)

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 springs and pin: Stainless steel

O-rings: EPDM

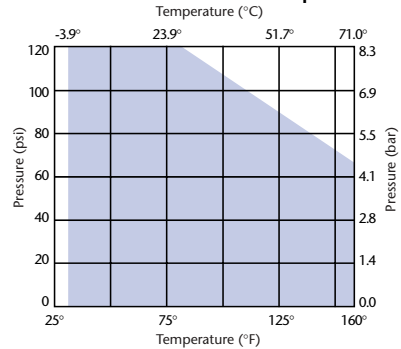
Color: Almond

Tubing Range: 1/4" and 3/8"
6.4mm and 9.5mm

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



PLC12 Series Pressure to Temperature



Based on sealing performance after 72 hours of exposure to pressure and temperature.

Coupling Inserts

Polypropylene

Pipe Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	G	H
1/4" NPT	PLC2400412	PLCD2400412	1.26/1.67	.50	5/8

Panel Mount Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	J	Q
1/4" ID	6.4mm ID	PLC4200412	PLCD4200412	1.91/2.05	.65	11/16-24UNEF	.46	3/4	13/16	.55
3/8" ID	9.5mm ID	PLC4200612	PLCD4200612	1.91/2.05	.65	11/16-24UNEF	.46	3/4	13/16	.55

In-Line Ferruleless Polytube Fitting, PTF†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	H	J
3/8" OD .25" ID	9.5mm OD 6.4mm ID	PLC2000612	PLCD2000612	1.68/1.82	.65	5/8	9/16

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	H
1/4" ID	6.4mm ID	PLC2200412	PLCD2200412	.63	1.35/2.00	.65	5/8
3/8" ID	9.5mm ID	PLC2200612	PLCD2200612	.63	1.35/1.82	.65	5/8

Softube™ Fitting

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	H
1/4" 3/8"	6.4mm ID 9.5mm OD		PLCD22040612	2.23	.89	5/8
3/8" 1/2"	9.5mm ID 12.7mm OD		PLCD22060812	2.18	1.05	5/8

Elbow Ferruleless Polytube Fitting, PTF†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	J	R
3/8" OD .25" ID	9.5mm OD 6.4mm ID	PLC2100612	PLCD2100612	1.29/1.36	.65	9/16	.95

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	R
1/4" ID	6.4mm ID	PLC2300412	PLCD2300412	1.22/1.36	.65	.96
3/8" ID	9.5mm ID	PLC2300612	PLCD2300612	1.28/1.42	.65	.96



non-valved

All measurements are in inches 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.

†NOTE: CPC's ferruleless PTF (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.

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APC Series

Material: Acetal

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 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.



Patent Protected

Applications may include:

- Potable water filtration
- Carpet cleaners
- Air mattress systems
- Thermal therapy
- Parts washing
- Beverage dispensing

NOTE: Special ordered couplings are available in versions that comply with listing requirements for NSF standard C-2.

FEATURES

BENEFITS

Plastic thumb latch	No exposed metal parts
Shrouded thumb latch	Protects against accidental disconnects
Integral terminations	Fewer leak points, shorter assemblies, faster installations
Compatible	Mates with most EFC couplings

Coupling Bodies

Acetal

Pipe Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	G	H
1/4" NPT	APC10004	APCD10004	1.40	.50	5/8
1/4" BSPT	APC10004BSPT		1.40	.50	5/8
3/8" NPT	APC10006	APCD10006	1.40	.50	3/4
3/8" BSPT	APC10006BSPT		1.40	.50	3/4

In-Line

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
1/4" ID	6.4mm ID	APC17004		.93	1.35	.65
3/8" ID	9.5mm ID	APC17006		.93	1.35	.65

In-Line with Shroud

Ferruleless Polytube Fitting, PTF†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	J
1/4" OD .17" ID	6.4mm OD 4.3mm ID	APC13004SH	APCD13004SH	.90	1.94	.52	7/16
3/8" OD .25" ID	9.5mm OD 6.4mm ID	APC13006SH	APCD13006SH	.90	2.07	.65	9/16
	8mm OD 6mm ID	APC130M8SH	APCD130M8SH	.90	2.07	.65	9/16
	10mm OD 8mm ID	APC130M10SH	APCD130M10SH	.90	2.07	.65	9/16

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
1/4" ID	6.4mm ID	APC17004SH	APCD17004SH	.90	2.07	.65
3/8" ID	9.5mm ID	APC17006SH	APCD17006SH	.90	2.07	.65

Panel Mount

Ferruleless Polytube Fitting, PTF†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	F	G	I	J	Q
1/4" OD .17" ID	6.4mm OD 4.3mm ID	APC12004	APCD12004	1.97	11/16-24UNEF	.60	13/16	7/16	.75
	8mm OD 6mm ID	APC120M8	APCD120M8	2.10	11/16-24UNEF	.60	13/16	9/16	.75
3/8" OD .25" ID	9.5mm OD 6.4mm ID	APC12006	APCD12006	2.10	11/16-24UNEF	.60	13/16	9/16	.75
	10mm OD 8mm ID	APC120M10	APCD120M10	2.10	11/16-24UNEF	.60	13/16	9/16	.75

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	F	G	I	Q
1/4" ID	6.4mm ID	APC16004	APCD16004	2.10	11/16-24UNEF	.60	13/16	.75
5/16" ID	7.9mm ID	APC16005	APCD16005	2.10	11/16-24UNEF	.60	13/16	.75
3/8" ID	9.5mm ID	APC16006	APCD16006	2.10	11/16-24UNEF	.60	13/16	.75

Accessories

		MATERIAL	PART NO.
Panel Mount Gasket	For sealing panel mount bodies listed above	Buna-N	1830300

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Straight thru dimension is listed first when two measurements are provided.

†NOTE: CPC's ferruleless PTF (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.



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APC Series Specifications

Pressure: Vacuum to 120 psi, 8.3 bar

Temperature: -40° F to 180° F continuous
-40° C to 82° C continuous

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 charcoal or light gray latch

Tubing Range: 1/4" to 3/8"
6.4mm and 9.5mm



Coupling Inserts

Acetal

Pipe Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	G	H
1/4" NPT	APC24004	APCD24004	1.43/1.77	.50	9/16 / 5/8
1/4" BSPT	APC24004BSPT	APCD24004BSPT	1.63/1.77	.50	5/8
3/8" NPT	APC24006	APCD24006	1.50/1.64	.50	3/4
3/8" BSPT	APC24006BSPT	APCD24006BSPT	1.51/1.65	.50	3/4

In-Line

Ferruleless Polytube Fitting, PTFE†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	H	J
1/4" OD .17" ID	6.4mm OD 4.3mm ID	APC20004	APCD20004	1.86/1.99	.52	5/8	7/16
3/8" OD .25" ID	9.5mm OD 6.4mm ID	APC20006	APCD20006	1.78/1.91	.65	5/8	9/16
	8mm OD 6mm ID	APC200M8	APCD200M8	1.79/1.93	.65	5/8	9/16
	10mm OD 8mm ID	APC200M10	APCD200M10	1.79/1.93	.65	5/8	9/16

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D
1/4" ID	6.4mm ID	APC22004	APCD22004	1.40/2.10	.65
3/8" ID	9.5mm ID	APC22006	APCD22006	1.40/1.92	.65

Elbow

Ferruleless Polytube Fitting, PTFE†

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	J	R
1/4" OD .17" ID	6.4mm OD 4.3mm ID	APC21004	APCD21004	1.22	1.32/1.45	.60	7/16	.91
3/8" OD .25" ID	9.5mm OD 6.4mm ID	APC21006	APCD21006	1.27	1.33/1.46	.65	9/16	.96

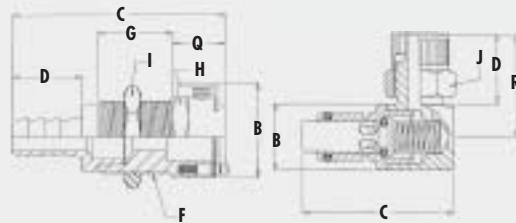
Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	R
1/4" ID	6.4mm ID	APC23004	APCD23004	.63	1.20/1.45	.65	.96
3/8" ID	9.5mm ID	APC23006	APCD23006	.63	1.20/1.50	.65	.96



Product Dimension Codes

- C = Total Length (including valve)
- E = Panel Opening
- G = Thread Length
- I = Hex Size of Panel Nut
- K = Maximum Panel Thickness
- L = Minimum Panel Thickness
- Q = Extension from Panel Front
- R = Elbow Radial Length
- B = Height/Diameter
- D = Length of Termination
- F = Thread Size
- H = Hex Size on Main Component
- J = Hex Size of PTF Nut



All measurements are in inches 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.

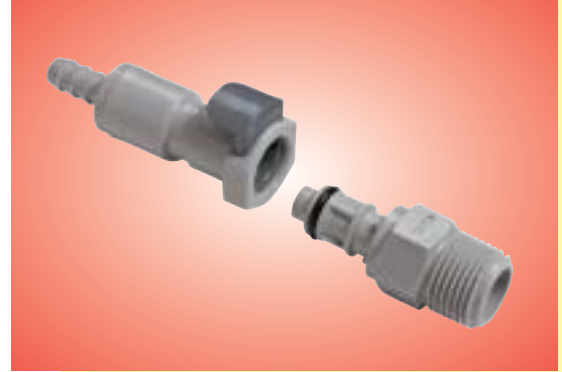
†NOTE: CPC's ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

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EFC12 Series

Material: Polypropylene

The 9/32" flow EFC Series couplings feature a high efficiency valve design that provides for a greater flow capability than any other coupling its size. Chemically-resistant polypropylene material makes it ideal for harsh environments. The EFC Series adds a bulkhead panel mount option for tight seals against tank walls and drums.



FEATURES	BENEFITS
High efficiency valve	More flow in a compact size
Plastic thumb latch	Fewer moving parts
Polypropylene material	Chemically-resistant and gamma-sterilizable
Compatible	Mates with most APC couplings

Applications may include:

- Soap dispensing
- Fume hoods
- Dry cleaning chemicals
- Battery filling equipment
- Package filling machinery
- Electronics water treatment

NOTE: Special ordered couplings are available in versions that comply with listing requirements for NSF standard C-2.

Coupling Bodies



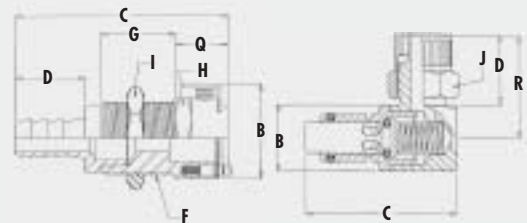
Polypropylene		THREAD SIZE	SHUTOFF	C	G	H				
Pipe Thread		1/4" NPT	EFCD10412	2.29	.50	5/8				
		3/8" NPT	EFCD10612	2.29	.50	11/16				
		TUBING SIZE	METRIC EQ.	SHUTOFF	C	D	F	H	I	Q
Bulkhead Panel Mount		1/4" ID	6.4mm ID	EFCD16412	2.23	.65	11/16	13/16	13/16	.71
	<i>Hose Barb</i>	3/8" ID	9.5mm ID	EFCD16612	2.23	.65	11/16	13/16	13/16	.71
		TUBING SIZE	METRIC EQ.	SHUTOFF	B	C	D			
In-Line		1/4" ID	6.4mm ID	EFCD17412	.93	2.23	.65			
	<i>Hose Barb</i>	3/8" ID	9.5mm ID	EFCD17612	.93	2.23	.65			

Accessories

		MATERIAL	PART NO.
Panel Mount Gasket	For sealing panel mount bodies listed above	EPDM	668400
<i>Replacement</i>			

Product Dimension Codes

- | | |
|---------------------------------------|--------------------------------|
| C = Total Length
(including valve) | Q = Extension from Panel Front |
| E = Panel Opening | R = Elbow Radial Length |
| G = Thread Length | B = Height/Diameter |
| I = Hex Size of Panel Nut | D = Length of Termination |
| K = Maximum Panel Thickness | F = Thread Size |
| L = Minimum Panel Thickness | H = Hex Size on Main Component |
| | J = Hex Size of PTF Nut |



All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Straight thru dimension is listed first when two measurements are provided.



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EFC12 Series Specifications

Pressure: Vacuum to 105 psi, 7.2 bar (see graph)

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

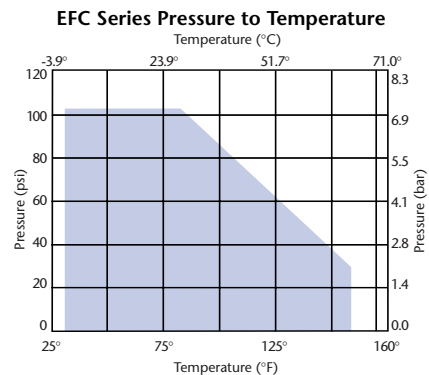
Color: Light gray with charcoal gray latch

Tubing Range: 1/4" and 3/8"
6.4mm and 9.5mm

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



EFC quick disconnect coupling simplifies autoclave draining process.



Based on sealing performance after 72 hours of exposure to pressure and temperature.

Coupling Inserts

Polypropylene

Pipe Thread

THREAD SIZE	SHUTOFF	C	G	H
1/4" NPT	EFC24412	1.77	.50	5/8
3/8" NPT	EFC24612	1.77	.50	11/16

In-Line

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	H
1/4" ID	6.4mm ID	EFC22412	EFC22412	1.33/2.08	.65	5/8
3/8" ID	9.5mm ID	EFC22612	EFC22612	1.33/1.90	.65	5/8

Elbow

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	R
1/4" ID	6.4mm ID	EFC23412	EFC23412	1.32/1.45	.65	.96
3/8" ID	9.5mm ID	EFC23612	EFC23612	1.32/1.45	.65	.96



All measurements are in inches 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.

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HFC12 Series

Material: Polypropylene

Patented HFC12 Series couplings have flow comparable to many 1/2" nominal 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 exceptionally low spillage. The HFC Series also adds bulkhead panel mount and Hastelloy® C spring options.



Patent Protected

Applications may include:

- Photo processing chemicals
- Battery filling equipment
- Air mattress systems
- Spray equipment
- Antifreeze recycling
- Thermal management

NOTE: Special ordered couplings are available in versions that comply with listing requirements for NSF standard C-2.

FEATURES

BENEFITS

High efficiency valve	More flow and less spillage in a compact size
Ergonomic design	Easy to grip, simple to operate
Polypropylene material	Chemically-resistant and gamma-sterilizable
Compatible	Mates with HFC35 and HFC57 couplings

Coupling Bodies

Polypropylene

Pipe Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	B	C	G	H
3/8" NPT	HFC10612	HFCD10612	1.44	2.69	.47	1.00
3/8" BSPT	HFC10612BSPT	HFCD10612BSPT	1.44	2.72	.50	1.00
1/2" NPT	HFC10812	HFCD10812	1.44	2.88	.65	1.00
3/4" NPT	HFC101212	HFCD101212	1.44	3.07	.78	1.00

Bulkhead Panel Mount

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	E	Q
3/8" ID	9.5mm ID	HFC16612	HFCD16612	1.68	2.82	1.20	1.15
1/2" ID	12.7mm ID	HFC16812	HFCD16812	1.68	2.82	1.20	1.15
5/8" ID	15.9mm ID	HFC161012	HFCD161012	1.68	2.94	1.20	1.15
3/4" ID	19.0mm ID	HFC161212	HFCD161212	1.68	2.94	1.20	1.15

Compression

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	E	Q	J
3/8" ID	9.5mm ID	HFC12612	HFCD12612	1.68	2.96	1.20	1.15	.81
1/2" ID	12.7mm ID	HFC12812	HFCD12812	1.68	3.11	1.20	1.15	.94

In-Line

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
3/8" ID	9.5mm ID	HFC17612	HFCD17612	1.44	2.79	.65
1/2" ID	12.7mm ID	HFC17812	HFCD17812	1.44	2.79	.65
5/8" ID	15.9mm ID	HFC171012	HFCD171012	1.44	2.94	.79
3/4" ID	19.0mm ID	HFC171212	HFCD171212	1.44	2.94	.80

Compression

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	J
3/8" ID	9.5mm ID	HFC13612	HFCD13612	1.44	2.96	.74	.81
1/2" ID	12.7mm ID	HFC13812	HFCD13812	1.44	3.11	.89	.94

Accessories

Panel Mount Gasket Replacement

For sealing panel mount bodies listed above

MATERIAL

PART NO.

EPDM

621200

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.



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HFC12 Series Specifications

Pressure: Vacuum to 60 psi, 4.2 bar (see graph)

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: 316 stainless steel

O-rings: EPDM

Compression nut, gripper, ferrule: Polypropylene

Color: Light gray with charcoal gray latch

Tubing Range: 3/8" to 3/4"
9.5mm to 19mm

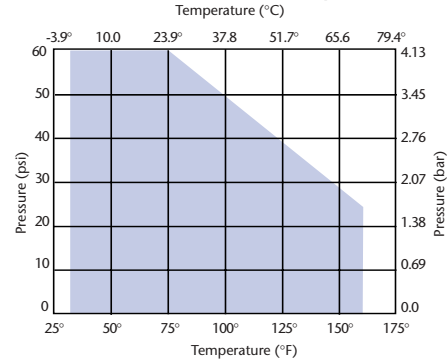
Compression Termination: Tubing specifications 3/8" OD or 1/2" OD +0.010/-0.000

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



HFC couplings are used on liquid chillers to recirculate cooling fluids in laser, laboratory and medical products.

HFC12 Series Pressure to Temperature



Based on sealing performance after 72 hours of exposure to pressure and temperature.

Coupling Inserts

Polypropylene

Pipe Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	G	H
3/8" NPT	HFC24612	HFCD24612	1.77/1.89	.47	1.00
3/8" BSPT	HFC24612BSPT	HFCD24612BSPT	1.80/1.92	.50	1.00
1/2" NPT	HFC24812	HFCD24812	1.95/2.07	.65	1.00
3/4" NPT	HFC241212	HFCD241212	2.14/2.26	.78	1.00

In-Line

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
3/8" ID	9.5mm ID	HFC22612	HFCD22612	1.00	1.97/2.09	.65
1/2" ID	12.7mm ID	HFC22812	HFCD22812	1.00	1.97/2.09	.65
5/8" ID	15.9mm ID	HFC221012	HFCD221012	1.00	2.01/2.13	.79
3/4" ID	19.0mm ID	HFC221212	HFCD221212	1.00	2.14/2.26	.80

Compression

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	J
3/8" ID	9.5mm ID	HFC20612	HFCD20612	1.00	2.14/2.26	.74	.81
1/2" ID	12.7mm ID	HFC20812	HFCD20812	1.00	2.29/2.41	.89	.94

Elbow

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	R
3/8" ID	9.5mm ID	HFC23612	HFCD23612	1.93/2.05	.66	.93
1/2" ID	12.7mm ID	HFC23812	HFCD23812	1.97/2.09	.66	.93



All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

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HFC35 Series

Material: Polysulfone

Patented HFC35 Series polysulfone couplings are able to withstand demanding applications and feature physical strength, chemical resistance and autoclavability. They 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. The HFC35 Series also adds bulkhead panel mount, garden hose thread and Hastelloy® C spring options.



Patent Protected

Applications may include:

- Deionized water filtration
- Bioprocessing systems
- Pharmaceutical manufacturing
- Beverage dispensing
- Bleach bagged cleaning solutions
- Particle counters

NOTE: Special ordered couplings are available in versions that comply with listing requirements for NSF standard C-2.

FEATURES

BENEFITS

Polysulfone material	Physically strong and autoclavable
High efficiency valve	More flow and less spillage in a compact size
Ergonomic design	Easy to grip, simple to operate
Compatible	Mates with HFC12 and HFC57 couplings

Coupling Bodies

Polysulfone

Pipe Thread Male Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	B	C	G	H
3/8" NPT	HFC10635	HFCD10635	1.44	2.73	.42	1.00
3/8" BSPT	HFC10635BSPT	HFCD10635BSPT	1.44	2.73	.42	1.00
1/2" NPT	HFC10835	HFCD10835	1.44	2.88	.57	1.00
1/2" BSPT	HFC10835BSPT	HFCD10835BSPT	1.44	2.88	.53	1.00
3/4" NPT	HFC101235	HFCD101235	1.44	3.12	.84	1.00
3/4" BSPT	HFC101235BSPT	HFCD101235BSPT	1.44	3.12	.83	1.00
3/4" GHT	HFC101235GHT	HFCD101235GHT	1.44	2.94	.57	—

Female Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	B	C	G
3/4" GHT	HFCD191235GHT	HFCD191235GHT	1.44	2.70	.53
3/4" BSPP	HFCD191235BSPP	HFCD191235BSPP	1.44	2.70	.53

Bulkhead Panel Mount Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	Q
3/8" ID	9.5mm ID	HFC16635	HFCD16635	1.68	2.82	.65	1.15
1/2" ID	12.7mm ID	HFC16835	HFCD16835	1.68	2.82	.65	1.15
5/8" ID	15.9mm ID	HFC161035	HFCD161035	1.68	2.94	.80	1.15
3/4" ID	19.0mm ID	HFC161235	HFCD161235	1.68	2.94	.80	1.15

In-Line Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
3/8" ID	9.5mm ID	HFC17635	HFCD17635	1.44	2.82	.65
1/2" ID	12.7mm ID	HFC17835	HFCD17835	1.44	2.82	.65
5/8" ID	15.9mm ID	HFC171035	HFCD171035	1.44	2.94	.80
3/4" ID	19.0mm ID	HFC171235	HFCD171235	1.44	2.94	.80

Accessories

Panel Mount Gasket Replacement

For sealing panel mount bodies listed above

MATERIAL	PART NO.
EPDM	621200

GHT Gasket Replacement

For sealing female threads

MATERIAL	PART NO.
FDA EPDM	2017600

All measurements are in inches 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.



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HFC35 Series Specifications

Pressure: Vacuum to 125 psi, 8.6 bar (see graph)

Temperature: -40° F to 280° F
-40° C to 138° C

Materials:

Main components and valve: Polysulfone

Thumb latch: Polysulfone

Valve spring: 316 stainless steel

Panel mount gasket: EPDM

Female GHT gasket: FDA EPDM

External springs: 316 stainless steel

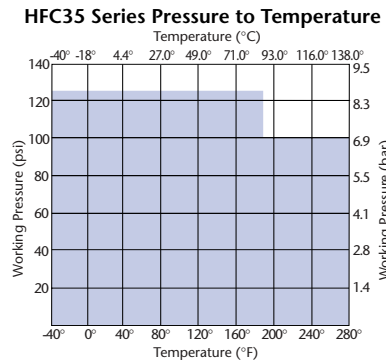
O-ring: EPDM

Color: Natural white with charcoal gray latch

Tubing Range: 3/8" to 3/4"
9.5mm to 19mm



HFC35 elbow with integral terminations eliminates leak points and streamlines connections.



Based on sealing performance after 72 hours of exposure to pressure and temperature.

Coupling Inserts

Polysulfone

Pipe Thread

Male Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	G	H
3/8" NPT	HFC24635	HFCD24635	1.82/1.94	.42	1.00
3/8" BSPT	HFC24635BSPT	HFCD24635BSPT	1.97/2.09	.42	1.00
1/2" NPT	HFC24835	HFCD24835	1.97/2.09	.42	1.00
1/2" BSPT	HFC24835BSPT	HFCD24835BSPT	1.17/2.09	.53	1.00
3/4" NPT	HFC241235	HFCD241235	2.22/2.34	.84	1.00
3/4" BSPT	HFC241235BSPT	HFCD241235BSPT	2.21/2.33	.83	1.00
3/4" GHT	HFC241235GHT	HFCD241235GHT	2.03/2.15	.57	—

Female Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	B	C	G
3/4" GHT	HFC261235GHT	HFCD261235GHT	1.37	1.79/1.91	.53
3/4" BSPP	HFC261235BSPP	HFCD261235BSPP	1.37	1.79/1.91	.53

In-Line

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
3/8" ID	9.5mm ID	HFC22635	HFCD22635	1.00	1.91/2.03	.68
1/2" ID	12.7mm ID	HFC22835	HFCD22835	1.00	1.91/2.03	.65
5/8" ID	15.9mm ID	HFC221035	HFCD221035	1.00	2.03/2.15	.80
3/4" ID	19.0mm ID	HFC221235	HFCD221235	1.00	2.03/2.15	.80

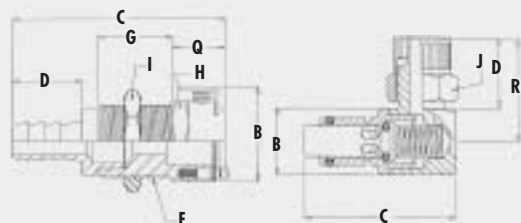
Elbow

Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	R
3/8" ID	9.5mm ID	HFC23635	HFCD23635	1.92/2.04	.66	.93
1/2" ID	12.7mm ID	HFC23835	HFCD23835	1.96/2.08	.66	.93

Product Dimension Codes

- C = Total Length (including valve)
- E = Panel Opening
- G = Thread Length
- I = Hex Size of Panel Nut
- K = Maximum Panel Thickness
- L = Minimum Panel Thickness
- Q = Extension from Panel Front
- R = Elbow Radial Length
- B = Height/Diameter
- D = Length of Termination
- F = Thread Size
- H = Hex Size on Main Component
- J = Hex Size of PTF Nut



All measurements are in inches 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.

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HFC57 Series

Material: UV-Resistant Polysulfone

Patented HFC57 Series UV polysulfone couplings are UV-resistant and able to withstand continued exposure to harmful UV rays without affecting performance. They can operate in harsh outdoor 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. The HFC57 Series also adds bulkhead panel mount, garden hose thread and Hastelloy® C spring options.



Patent Protected

Applications may include:

- Agricultural spray systems
- Vending carts
- Engine flush kits
- Chemical sprayers
- Fresh water wash down
- Outdoor water treatment

FEATURES

BENEFITS

UV polysulfone material	Physically strong and UV-resistant
High efficiency valve	More flow and less spillage in a compact size
Ergonomic design	Easy to grip, simple to operate
Compatible	Mates with HFC12 and HFC35 couplings

Coupling Bodies

Polysulfone

Pipe Thread Male Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	B	C	G	H
3/8" BSPT	HFC10657BSPT	HFCD10657BSPT	1.44	2.73	.50	1.00
1/2" NPT	HFC10857	HFCD10857	1.44	2.88	.57	1.00
1/2" BSPT	HFC10857BSPT	HFCD10857BSPT	1.44	2.88	.65	1.00
3/4" BSPT	HFC101257BSPT	HFCD101257BSPT	1.44	3.12	.83	1.00
3/4" GHT	HFC101257GHT	HFCD101257GHT	1.44	2.94	.57	—

Female Thread

THREAD SIZE	STRAIGHT THRU	SHUTOFF	B	C	G
3/4" GHT	HFC191257GHT	HFCD191257GHT	1.44	2.70	.53
3/4" BSPP	HFC191257BSPP	HFCD191257BSPP	1.44	2.70	.53

Bulkhead Panel Mount Hose Barb

TUBING SIZE	METRIC EQ.	SHUTOFF	B	C	D	Q
3/8" ID	9.5mm ID	HFCD16657	1.68	2.82	.65	1.15
1/2" ID	12.7mm ID	HFCD16857	1.68	2.82	.65	1.15
5/8" ID	15.9mm ID	HFCD161057	1.68	2.94	.80	1.15
3/4" ID	19.0mm ID	HFCD161257	1.68	2.94	.80	1.15

In-Line Hose Barb

TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
3/8" ID	9.5mm ID	HFC17657	HFCD17657	1.44	2.82	.65
1/2" ID	12.7mm ID	HFC17857	HFCD17857	1.44	2.82	.65
5/8" ID	15.9mm ID	HFC171057	HFCD171057	1.44	2.94	.80
3/4" ID	19.0mm ID	HFC171257	HFCD171257	1.44	2.94	.80

Accessories

		MATERIAL	PART NO.
Panel Mount Gasket Replacement	For sealing panel mount bodies listed above	EPDM	621200
GHT Gasket Replacement	For sealing female threads	FDA EPDM	2017600

All measurements are in inches 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.



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HFC57 Series Specifications

Pressure: Vacuum to 125 psi, 8.6 bar (see graph)

Temperature: -40° F to 280° F
-40° C to 138° C

Materials:

Main components and valve: UV-resistant polysulfone

PolysulfoneThumb latch: UV-resistant polysulfone

Valve spring: 316 stainless steel

Panel mount gasket: EPDM

Female GHT gasket: FDA EPDM

External spring: 316 stainless steel

O-rings: EPDM

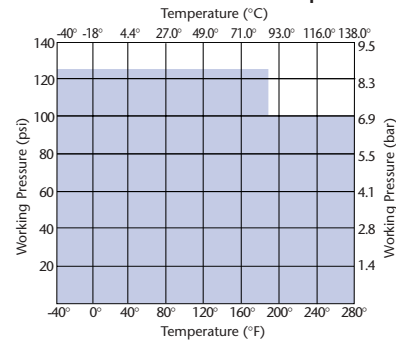
Color: Black with a black latch

Tubing Range: 3/8" to 3/4"
9.5mm to 19mm



HFC57 couplings are used for marine applications such as deck washdown and fresh water flush.

HFC57 Series Pressure to Temperature



Based on sealing performance after 72 hours of exposure to pressure and temperature.

Coupling Inserts

Polysulfone

	THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	G	H
Pipe Thread	3/8" BSPT	HFC24657BSPT	HFCD24657BSPT	1.84/1.96	.50	1.00
<i>Male Thread</i>	1/2" BSPT	HFC24857BSPT	HFCD24857BSPT	1.99/2.07	.65	1.00
	1/2" NPT	HFC24857	HFCD24857	1.95/2.11	.57	1.00
	3/4" BSPT	HFC241257BSPT	HFCD241257BSPT	2.19/2.31	.83	1.00
	3/4" GHT	HFC241257GHT	HFCD241257GHT	2.15/2.27	.57	—

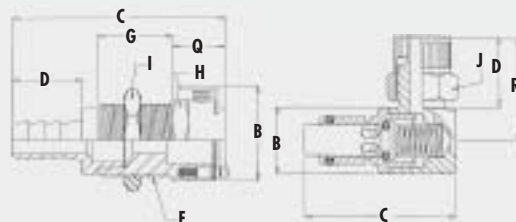
	THREAD SIZE	STRAIGHT THRU	SHUTOFF	B	C	G
<i>Female Thread</i>	3/4" GHT	HFC261257GHT	HFCD261257GHT	1.37	1.79/1.91	.53
	3/4" BSPP	HFC261257BSPP	HFCD261257BSPP	1.37	1.79/1.91	.53

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
In-Line	3/8" ID	9.5mm ID	HFC22657	HFCD22657	1.00	1.91/2.03	.65
<i>Hose Barb</i>	1/2" ID	12.7mm ID	HFC22857	HFCD22857	1.00	1.91/2.03	.65
	5/8" ID	15.9mm ID	HFC221057	HFCD221057	1.00	2.03/2.15	.80
	3/4" ID	19.0mm ID	HFC221257	HFCD221257	1.00	2.03/2.15	.80



Product Dimension Codes

- C = Total Length (including valve)
- E = Panel Opening
- G = Thread Length
- I = Hex Size of Panel Nut
- K = Maximum Panel Thickness
- L = Minimum Panel Thickness
- Q = Extension from Panel Front
- R = Elbow Radial Length
- B = Height/Diameter
- D = Length of Termination
- F = Thread Size
- H = Hex Size on Main Component
- J = Hex Size of PTF Nut



All measurements are in inches 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.

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FFC35 Series

Material: Polysulfone

Patented FFC35 Series 1/2" flow couplings feature double the flow of the HFC Series couplings. The FFC Series has a smooth, non-valved 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 pad produce a coupling that is easy to grip and simple to operate.



Patent Protected

Applications may include:

- Deionized water filtration
- Floor cleaning equipment
- Potable water filtration
- Drain lines
- Air cooling systems
- Waste handling

NOTE: Special ordered couplings are available in versions that comply with listing requirements for NSF standard C-2.

FEATURES	BENEFITS
No valves	Exceptional flow
Smooth interior bore	Low turbulence
Polysulfone material	Physically strong and autoclavable
Ergonomic design	Easy to grip, simple to operate

Coupling Bodies

Polysulfone

	THREAD SIZE	STRAIGHT THRU	B	C	G	H
Pipe Thread	1/2" NPT	FFC10835	1.44	2.88	.65	1.00
<i>Male Thread</i>	1/2" BSPT	FFC10835BSPT	1.44	2.88	.66	1.00
	3/4" NPT	FFC101235	1.44	3.12	.84	1.00
	3/4" BSPT	FFC101235BSPT	1.44	3.12	.83	1.00
	3/4" GHT	FFC101235GHT	1.44	2.94	.57	—

	THREAD SIZE	STRAIGHT THRU	B	C	G
<i>Female Thread</i>	3/4" GHT	FFC191235GHT	1.44	2.70	.53
	3/4" BSPP	FFC191235BSPP	1.44	2.70	.53

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	B	C	D	G	Q
Bulkhead Panel Mount	3/4" ID	19.0mm ID	FFC161235	1.68	2.94	.80	.69	1.15
<i>Hose Barb</i>								

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	B	C	D
In-Line	3/4" ID	19.0mm ID	FFC171235	1.44	2.94	.80
<i>Hose Barb</i>						

Accessories

		MATERIAL	PART NO.
Panel Mount Gasket	For sealing panel mount bodies listed above	EPDM	621200
<i>Replacement</i>			
GHT Gasket	For sealing female threads	FDA BUNA-N	931601
<i>Replacement</i>			

All measurements are in inches 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.



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FFC35 Series Specifications

Pressure: Vacuum to 125 psi, 8.6 bar

Temperature: -40° F to 280° F
-40° C to 138° C

Materials:

Main components: Polysulfone

Thumb latch: Polysulfone

Panel mount gasket: EPDM

Female GHT gasket: FDA Buna-N

External spring: 316 stainless steel

O-rings: FDA Buna-N

Color: Natural white with charcoal gray latch

Tubing Range: 3/4", 19.0mm

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



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

Coupling Inserts

Polysulfone

	THREAD SIZE	STRAIGHT THRU	C	D	H
Pipe Thread	1/2" NPT	FFC24835	1.95	.65	1.00
<i>Male Thread</i>	1/2" BSPT	FFC24835BSPT	1.95	.65	1.00
	3/4" NPT	FFC241235	2.14	.84	1.00
	3/4" BSPT	FFC241235BSPT	2.14	.83	1.00
	3/4" GHT	FFC241235GHT	2.01	.57	—

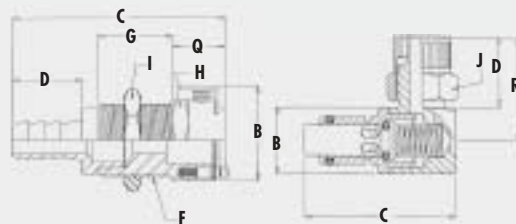
	THREAD SIZE	STRAIGHT THRU	B	C	G
<i>Female Thread</i>	3/4" GHT	FFC261235GHT	1.37	1.77	.53
	3/4" BSPP	FFC261235BSPP	1.37	1.77	.53

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	B	C	D
In-Line	3/4" ID	19.0mm ID	FFC221235	1.00	2.02	.80
<i>Hose Barb</i>						




Product Dimension Codes

- C = Total Length (including valve)
- E = Panel Opening
- G = Thread Length
- I = Hex Size of Panel Nut
- K = Maximum Panel Thickness
- L = Minimum Panel Thickness
- Q = Extension from Panel Front
- R = Elbow Radial Length
- B = Height/Diameter
- D = Length of Termination
- F = Thread Size
- H = Hex Size on Main Component
- J = Hex Size of PTF Nut



All measurements are in inches 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.

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MC Series

Material: Chrome-Plated Brass

The 1/8" flow MC Series couplings are one of the original product lines from CPC. The MC Series features chrome-plated brass construction for durability and an attractive appearance.



FEATURES	BENEFITS
Brass material	Durable and able to withstand higher pressure and temperature
Chrome plating	Attractive appearance
High temperature capability	Versions rated to 400° F (204° C)
CPC thumb latch	One-hand connection and disconnection

Applications may include:

- Laser cooling lines
- Soil testing
- Diagnostic testing
- Gas cabinets
- Screen printing
- Fuel lines

NOTE: Special ordered couplings are available in versions that comply with listing requirements for NSF standard C-2.

Coupling Bodies

Chrome-Plated Brass



	THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	G	H
Pipe Thread	1/8" NPT	MC1002	MCD1002	1.00	.40	5/8
	1/8" BSPT	MC1002BSPT	MCD1002BSPT	1.00	.40	5/8
	1/4" NPT	MC1004	MCD1004	1.10	.50	5/8
	1/4" BSPT	MC1004BSPT	MCD1004BSPT	1.00	.50	5/8

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	H	I	J	Q
Panel Mount	5/32" OD .10" ID	4.0mm OD 2.5mm ID	MC12025	MCD12025	1.67	.50	1/2-24UNS	5/8	5/8	3/8	.45
	1/4" OD .17" ID	6.4mm OD 4.3mm ID	MC1204	MCD1204	1.77	.52	1/2-24UNS	5/8	5/8	7/16	.45

Ferruleless Polytube Fitting, PTF†

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	H	I	Q
Hose Barb	1/8" ID	3.2mm ID	MC1602	MCD1602	1.67	.45	1/2-24UNS	5/8	5/8	.45
	3/16" ID	4.8mm ID	MC1603	MCD1603	1.89	.65	1/2-24UNS	5/8	5/8	.45
	1/4" ID	6.4mm ID	MC1604	MCD1604	1.89	.65	1/2-24UNS	5/8	5/8	.45

	THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	D	F	H	I	Q
Female Thread	10-32 UNF	MC181032	MCD181032	1.22	.12	1/2-24UNS	5/8	5/8	.45

	THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	D	F	H	I	Q
Male Thread	1/8" NPT	MC1502	MCD1502	.77	1.20	.40	5/8	5/8	.45


	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	J
In-Line	1/4" OD .17" ID	6.4mm OD 4.3mm ID	MC1304	MCD1304	.77	1.77	.52	7/16

Ferruleless Polytube Fitting, PTF†

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
Hose Barb	1/8" ID	3.2mm ID	MC1702	MCD1702	.77	1.67	.45
	3/16" ID	4.8mm ID	MC1703	MCD1703	.75	1.89	.65
	1/4" ID	6.4mm ID	MC1704	MCD1704	.77	1.89	.65

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

†NOTE: CPC's ferruleless PTF (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.

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MC Series Specifications

Materials:

Main components:

Chrome-plated brass

Thumb latch: Stainless steel

Valves: Acetal

Valve springs:

316 stainless steel

External springs and pin:

Stainless steel

O-ring: Buna-N

Color: Chrome

Pressure:

Vacuum to 250 psi, 17.3 bar

Temperature:

-40° F to 180° F continuous

-40° C to 82° C continuous

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

Tubing Range:

1/8" to 1/4"

3.2mm to 6.4mm



CPC's quick disconnect provides secure and attractive connection for irrigation pumps.

Coupling Inserts

Chrome-Plated Brass

	THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	G	H
Pipe Thread	1/8" NPT	MC2402	MCD2402	1.03/1.43	.40	1/2
	1/8" NPT Female	MC2602	MCD2602	.95/1.65	—	1/2
	1/8" BSPT	MC2402BSPT	MCD2402BSPT	1.03/1.43	.40	1/2
	1/4" NPT	MC2404	MCD2404	1.08/1.43	.50	9/16
	1/4" NPT Female	MC2604	MCD2604	1.15/1.82	—	5/8
	1/4" BSPP Female	MC2604BSPP	MCD2604BSPP	1.23/1.91	—	5/8

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	H	I	Q	J
Panel Mount Ferruleless Polytube Fitting, PTF†	1/4" OD .17" ID	6.4mm OD 4.3mm ID	MC4004	MCD4004	1.75/1.85	.52	1/2-24UNS	5/8	5/8	.62/72	7/16

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	Q
Hose Barb	1/8" ID	3.2mm ID	MC4202	MCD4202	1.65/1.75	.45	1/2-24UNS	.45	5/8	5/8	.62/72
	3/16" ID	4.8mm ID	MC4203	MCD4203	1.87/1.97	.65	1/2-24UNS	.45	5/8	5/8	.62/72
	1/4" ID	6.4mm ID	MC4204	MCD4204	1.87/1.97	.65	1/2-24UNS	.45	5/8	5/8	.62/72

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	H	J
In-Line Ferruleless Polytube Fitting, PTF†	5/32" OD .10" ID	4.0mm OD 2.5mm ID	MC20025	MCD20025	1.13/1.53	.50	1/2	3/8
	1/4" OD .17" ID	6.4mm OD 4.3mm ID	MC2004	MCD2004	1.15/1.55	.52	1/2	7/16
	3/8" OD .25" ID	9.5mm OD 6.4mm ID	MC2006	MCD2006	1.30/1.50	.65	9/16	9/16

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	H
Hose Barb	1/8" ID	3.2mm ID	MC2202	MCD2202	.58	1.05/1.65	.45	1/2
	3/16" ID	4.8mm ID	MC2203	MCD2203	.58	1.25/1.85	.65	1/2
	1/4" ID	6.4mm ID	MC2204	MCD2204	.58	1.25/1.67	.65	1/2

	THREAD SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	H
Female Thread	10-32 UNF		MC281032	MCD281032	.63/1.30	.18/.23	1/2

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	J	R
Elbow Ferruleless Polytube Fitting, PTF†	5/32" OD .10" ID	4.0mm OD 2.5mm ID	MC21025	MCD21025	1.18/1.28	.50	3/8	.81
	1/4" OD .17" ID	6.4mm OD 4.3mm ID	MC2104	MCD2104	1.18/1.28	.52	7/16	.83

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	R
Hose Barb	1/8" ID	3.2mm ID	MC2302	MCD2302	1.18/1.28	.45	.76
	1/4" ID	6.4mm ID	MC2304	MCD2304	1.18/1.28	.65	.76

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

†NOTE: CPC's ferruleless PTF (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

Material: Chrome-Plated Brass

The 1/4" flow LC Series couplings are one of the original product lines from CPC. The LC Series features chrome-plated brass construction for durability and an attractive appearance.



FEATURES	BENEFITS
Brass material	Durable construction withstands higher pressure and temperature
Chrome plating	Attractive appearance
High temperature capability	Versions rated to 400° F (204° C)
CPC thumb latch	One-hand connection and disconnection

Applications may include:

- Clean, dry air
- Laboratory fermentation
- Paper milling machinery
- Laser cooling lines
- Packaging equipment
- Oxygen concentrators

NOTE: Special ordered couplings are available in versions that comply with listing requirements for NSF standard C-2.

Coupling Bodies

Chrome-Plated Brass



	THREAD SIZE		STRAIGHT THRU	SHUTOFF	B	C	G	H
Pipe Thread	1/4" NPT		LC10004	LCD10004	.89	1.15	.50	3/4
	1/4" BSPT		LC10004BSPT	LCD10004BSPT	.89	1.15	.50	3/4
	3/8" NPT		LC10006	LCD10006	.89	1.15	.50	3/4
	3/8" BSPT		LC10006BSPT	LCD10006BSPT	.89	1.15	.50	3/4

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	F	G	H	I	J	Q
Panel Mount Ferruleless Polytube Fitting, PTF†	1/4" OD .17" ID	6.4mm OD 4.3mm ID	LC12004	LCD12004	.89	1.87	.52	11/16-24UNEF	.70	3/4	13/16	7/16	.50
	3/8" OD .25" ID	9.5mm OD 6.4mm ID	LC12006	LCD12006	.89	2.00	.65	11/16-24UNEF	.70	3/4	13/16	9/16	.50

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	F	G	H	I	J
Hose Barb	1/4" ID	6.4mm ID	LC16004	LCD16004	.89	2.00	.65	11/16-24UNEF	.70	3/4	13/16	.50
	5/16" ID	7.9mm ID	LC16005	LCD16005	.89	2.00	.65	11/16-24UNEF	.70	3/4	13/16	.50
	3/8" ID	9.5mm ID	LC16006	LCD16006	.89	2.00	.65	11/16-24UNEF	.70	3/4	13/16	.50


	THREAD SIZE		STRAIGHT THRU	SHUTOFF	B	C	D	F	G	H	I	J
Male Thread	1/4" NPT		LC15004	LCD15004	.89	1.50	.50	11/16-24UNEF	.50	3/4	13/16	.50

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	J
In-Line Ferruleless Polytube Fitting, PTF†	1/4" OD .17" ID	6.4mm OD 4.3mm ID	LC13004	LCD13004	.89	1.87	.52	7/16
	3/8" OD .25" ID	9.5mm OD 6.4mm ID	LC13006	LCD13006	.89	2.00	.65	9/16

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
Hose Barb	1/4" ID	6.4mm ID	LC17004	LCD17004	.89	2.00	.65
	5/16" ID	7.9mm ID	LC17005	LCD17005	.89	2.00	.65
	3/8" ID	9.5mm ID	LC17006	LCD17006	.89	2.00	.65

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

†NOTE: CPC's ferruleless PTF (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.

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LC Series Specifications

Materials:

Main components:

Chrome-plated brass

Thumb latch: Stainless steel

Valves: Acetal

Valve springs:

316 stainless steel

External springs and pin:

Stainless steel

O-ring: Buna-N

Color: Chrome

Pressure:

Vacuum to 250 psi, 17.3 bar

Temperature:

-40° F to 180° F continuous

-40° C to 82° C continuous

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

Tubing Range:

1/4" to 3/8"

6.4mm to 9.5mm



MARKEM® ink jet printers use chrome-plated brass couplings to quickly change print heads.

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

Coupling Inserts

Chrome-Plated Brass

	THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	G	H
Pipe Thread	1/4" NPT	LC24004	LCD24004	1.25/1.68	.50	5/8
	1/4" NPT Female	LC26004	LCD26004	1.25/1.90	—	5/8
	1/4" BSPT	LC24004BSPT	LCD24004BSPT	1.25/1.68	.50	5/8
	1/4" BSPP Female	LC26004BSPP	LCD26004BSPP	1.25/1.75	—	5/8
	3/8" NPT	LC24006	LCD24006	1.25/1.55	.50	3/4
	3/8" BSPT	LC24006BSPT	LCD24006BSPT	1.25/1.55	.50	3/4

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	J	Q
Panel Mount Ferruleless Polytube Fitting, PTF†	1/4" OD .17" ID	6.4mm OD 4.3mm ID	LC40004	LCD40004	1.83/1.98	.52	11/16-24UNEF	.46	3/4	13/16	7/16	.70
	3/8" OD .25" ID	9.5mm OD 6.4mm ID	LC40006	LCD40006	1.96/2.11	.65	11/16-24UNEF	.46	3/4	13/16	9/16	.70

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	Q
Hose Barb	1/4" ID	6.4mm ID	LC42004	LCD42004	1.96/2.11	.65	11/16-24UNEF	.46	3/4	13/16	.70
	5/16" ID	7.9mm ID	LC42005	LCD42005	1.96/2.11	.65	11/16-24UNEF	.46	3/4	13/16	.70
	3/8" ID	9.5mm ID	LC42006	LCD42006	1.96/2.11	.65	11/16-24UNEF	.46	3/4	13/16	.70

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	H	J
In-Line Ferruleless Polytube Fitting, PTF†	1/4" OD .17" ID	6.4mm OD 4.3mm ID	LC20004	LCD20004	1.25/1.87	.52	5/8	7/16
	3/8" OD .25" ID	9.5mm OD 6.4mm ID	LC20006	LCD20006	1.38/1.83	.65	5/8	9/16

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	H
Hose Barb	1/4" ID	6.4mm ID	LC22004	LCD22004	1.35/2.00	.65	5/8
	5/16" ID	7.9mm ID	LC22005	LCD22005	1.35/1.85	.65	5/8
	3/8" ID	9.5mm ID	LC22006	LCD22006	1.35/1.83	.65	5/8

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	J	R
Elbows Ferruleless Polytube Fitting, PTF†	1/4" OD .17" ID	6.4mm OD 4.3mm ID	LC21004	LCD21004	1.28/1.43	.52	7/16	.96
	3/8" OD .25" ID	9.5mm OD 6.4mm ID	LC21006	LCD21006	1.28/1.43	.65	9/16	.83


	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	R
Hose Barb	1/4" ID	6.4mm ID	LC23004	LCD23004	1.28/1.43	.65	1.28
	3/8" ID	9.5mm ID	LC23006	LCD23006	1.28/1.43	.65	1.28



non-valved

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

†NOTE: CPC's ferruleless PTF (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.

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FL Series

Material: Aluminum

The 3/8" and 5/8" flow FL Series couplings are designed for high performance and high flow. Constructed of durable and lightweight anodized aluminum, the FL Series couplings replace cumbersome ball-and-sleeve couplings in demanding applications. Oversized o-rings prevent fouling in harsh environments and integral terminations eliminate leak points and shorten completed assemblies. FL Series couplings are the highest flow, lowest pressure drop, valved couplings offered by CPC.



Applications may include:

- Automotive fluid recovery
- Electronic cooling
- Marine and RV fluids
- Agricultural spray systems
- Waste handling
- Water tanks

FEATURES

Aluminum material

Black, hard anodized finish

Oversized o-rings

CPC thumb latch

BENEFITS

Half the weight of brass ball-and-sleeve couplings

Durable and attractive

Less contamination and fouling

One-hand connection and disconnection

Specifications

Materials:

Main components and valve: Aluminum

Thumb latch: Stainless steel

Valve spring: Stainless steel

External springs and pin: Stainless steel

O-rings: Fluorocarbon

Color: Black with stainless steel latch

Pressure: Vacuum to 120 psi, 8.3 bar

Temperature: -40° F to 300° F continuous
-40° C to 149° C continuous

Tubing Range: 1/2" to 3/4"
12.7mm to 19mm

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

Coupling Bodies

Aluminum

Pipe Thread

Male Thread

THREAD SIZE	FLOW	SHUTOFF	B	C	D	H
3/8" NPT	3/8"	3FLD6061106	1.32	2.20	.50	7/8
1/2" NPT	3/8"	3FLD6061108	1.32	2.35	.65	7/8
3/4" NPT	5/8"	5FLD60611012	1.65	2.99	.79	1-1/2

In-Line

Hose Barb

TUBING SIZE	METRIC EQ.	FLOW	SHUTOFF	B	C	D
1/2" ID	12.7mm ID	3/8"	3FLD6061178	1.32	2.61	.90
5/8" ID	5.9mm ID	3/8"	3FLD60611710	1.32	2.46	.80
3/4" ID	19.0mm ID	5/8"	5FLD60611712	1.65	3.15	.95

Coupling Inserts

Aluminum

Pipe Thread

Male Thread

THREAD SIZE	FLOW	SHUTOFF	B	C	D	H
3/8" NPT	3/8"	3FLD6061246	1.00	2.13	.50	7/8
1/2" NPT	3/8"	3FLD6061248	1.00	2.28	.65	7/8
3/4" NPT	5/8"	5FLD60612412	1.63	2.88	.79	1-1/2

In-Line

Hose Barb

TUBING SIZE	METRIC EQ.	FLOW	SHUTOFF	B	C	D
1/2" ID	12.7mm ID	3/8"	3FLD6061228	1.00	2.54	.90
5/8" ID	15.9mm ID	3/8"	3FLD60612210	1.00	2.39	.80
3/4" ID	19.0mm ID	5/8"	5FLD60612212	1.50	3.04	.95

All measurements are in inches 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.



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Twin Tube™ Series

Material: Acetal or ABS

The 3/32" flow Twin Tube™ coupling provides one easy-to-use quick disconnect for two separate fluid lines. The non-valved Twin Tube maintains two individual flow paths in one coupling. Featuring the CPC 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.



Applications may include:

- Pneumatic controls
- Blood pressure monitoring
- Ink jet printing
- Disk drive components
- Robotics
- Wire turning equipment

FEATURES	BENEFITS
Two line connection	Fast, efficient operation
Separate flow paths	Pressure and/or vacuum in one coupling
CPC thumb latch	One-hand connection and disconnection
Free coupling rotation	Eliminates kinked tubing

Specifications

Materials:

Main components: Acetal or ABS

Thumb latch: Stainless steel

External springs and pin: Stainless steel

O-rings: Buna-N

Color: Natural white (acetal)
White (ABS)

Pressure:

Vacuum to 120 psi, 8.3 bar per line

Temperature:

-40° F to 180° F continuous

-40° C to 82° C continuous

Coupling Bodies

Acetal

Hose Barb	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	C	F	G	H	I	K	L
	1/16" ID	1.6mm ID	PTC16010	1.52	11/16-24 UNEF	.70	.75	13/16	.50	.05
	1/8" ID	3.2mm ID	PTC16020	1.75	11/16-24 UNEF	.70	.75	13/16	.50	.05

ABS

Hose Barb	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	C	F	G	H	I	K	L
	1/8" ID	3.2mm ID	PTC1602096	1.45	11/16-24 UNEF	.45	.75	13/16	.30	.01

Coupling Inserts

Acetal

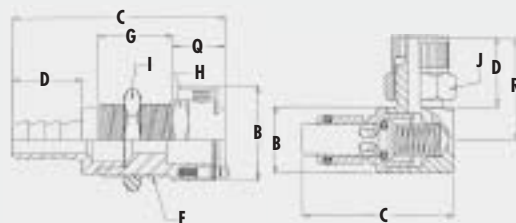
Hose Barb	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	C	D
	1/16" ID	1.6mm ID	PTC22010	1.05	.20
	1/8" ID	3.2mm ID	PTC22020	1.28	.45

ABS

Hose Barb	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	C	D
	1/8" ID	3.2mm ID	PTC2202096	1.26	.45

Product Dimension Codes

C = Total Length (including valve)	Q = Extension from Panel Front
E = Panel Opening	R = Elbow Radial Length
G = Thread Length	B = Height/Diameter
I = Hex Size of Panel Nut	D = Length of Termination
K = Maximum Panel Thickness	F = Thread Size
L = Minimum Panel Thickness	H = Hex Size on Main Component
	J = Hex Size of PTF Nut



All measurements are in inches 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.

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Tentube® Series

Material: Acetal or Polypropylene

Connect up to ten tubes in one easy motion.

The Tentube® 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.



Patent Protected

Applications may include:

- Pneumatic control panels
- Plastic forming equipment
- Gas cabinets
- Disk drive manufacturing
- Blood analyzers
- Screen printers

FEATURES	BENEFITS
Ten line connection	Fast, efficient operation
Separate flow paths	Pressure and/or vacuum in one coupling
Insert is keyed to body	Ensures correct line orientation
Acetal or polypropylene inserts	Maximizes design flexibility

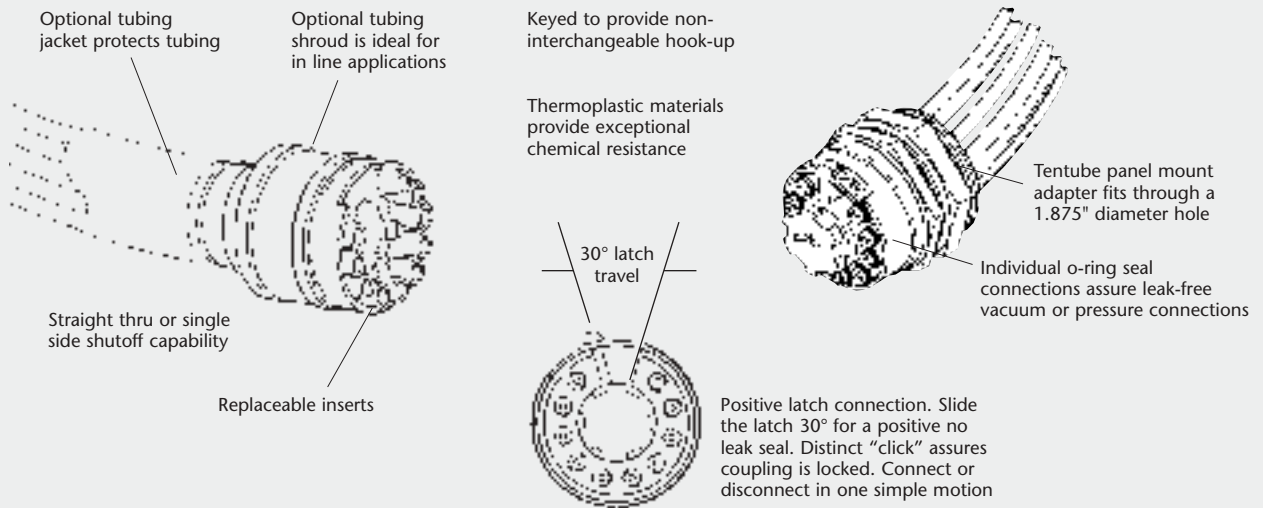
Ordering Information:

Each coupling body includes ten inserts of one tube size. You can purchase inserts of different sizes for replacements of original tube fittings or to mix tube sizes in the coupling. Coupling body does not include optional tubing shroud or panel mount adapter. Specify separately depending on coupling configuration; i.e., panel mount coupling requires one tubing shroud and one panel mount adapter. Tube-to-tube coupling assemblies require two tubing shrouds.

NOTE: Connectors supplied with one size tube fitting unless specified otherwise

Tube Fitting Insert

CPC's exclusive Tentube includes our patented 1/16" ID shrouded tube fitting to eliminate fitting breakage associated with miniature tube fittings.



Tentube® Series Specifications

Materials:

Main components: Nylon

Valves: Acetal

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

Pressure: Vacuum to 100 psi, 6.9 bar per line

Temperature:

Acetal Fitting inserts:

-40° F to 180° F continuous

-40° C to 82° C continuous

Polypropylene fitting inserts:

32° F to 180° F continuous

0° C to 82° C continuous

Tentube® Complete

	TUBING SIZE	METRIC EQ.	ACETAL STRAIGHT THRU	ACETAL SHUTOFF	POLYPROPYLENE STRAIGHT THRU	B	C
Complete Coupling Set	1/16" ID	1.6mm ID	TT1001	TTD1001	TT100112	2.08	1.30/1.46/1.46
		3mm ID	TT10M3	TTD10M3		2.08	1.60
	1/8" ID	3.2mm ID	TT1002	TTD1002	TT100212	2.08	1.60
Coupling Body with Female Fitting Bodies	1/16" ID	1.6mm ID	TFB1001	TFBD1001	TFB100112	1.90	.90
		3mm ID	TFB10M3	TFBD10M3		1.90	1.00
	1/8" ID	3.2mm ID	TFB1002	TFBD1002	TFB100212	1.90	.90
		Without fitting bodies		TFB10		1.90	.60
Coupling Insert with Male Fitting Inserts	1/16" ID	1.6mm ID	TMB1001		TMB100112	2.08	1.18
		3mm ID	TMB10M3			2.08	1.23
	1/8" ID	3.2mm ID	TMB1002		TMB100212	2.08	1.33
		Without fitting inserts		TMB10		2.08	1.12



Inserts and Bodies

	TUBING SIZE	METRIC EQ.	ACETAL STRAIGHT THRU	ACETAL SHUTOFF	POLYPROPYLENE STRAIGHT THRU	B	C	D	Q
Fitting Inserts* <i>(see tip box below)</i>	1/16" ID	1.6mm ID	TMF01		TMF0112	.33	.75	.30	.25
		3mm ID	TMFM3			.33	.80	.30	.25
	1/8" ID	3.2mm ID	TMF02		TMF0212	.33	.90	.45	.25
Fitting Bodies* <i>(see tip box below)</i>	1/16" ID	1.6mm ID	TFF01	TFFD01	TFF0112	.33	.90	.45	.25
		3mm ID	TFFM3	TFFDM3		.33	1.00	.30	.25
	1/8" ID	3.2mm ID	TFF02	TFFD02	TFF0212	.33	.90	.25	.25



Accessories

		PART NO.	B	C
Tube Shroud	Snaps into either half	TS10	1.85	2.29
Panel Mount Adapter & Nut	7/16" max. panel thickness Requires 1.875" diameter hole	TPM10	2.08	1.10
Tube Jacketing	Black, 40 foot coils	TJ10		
Cable Tie		CT10		



TIP

*Use TMF and TFF inserts and bodies for custom designed assemblies.

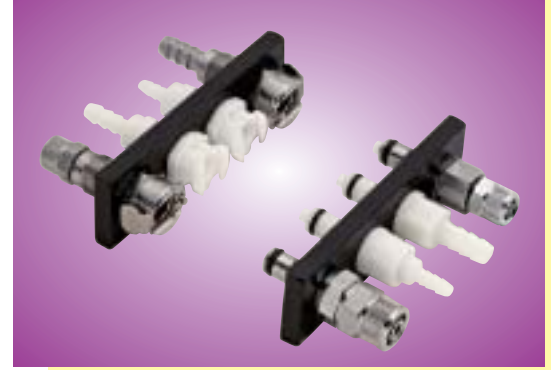
All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

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Multi-Mount Series

Material: Acetal, Chrome-Plated Brass

Multi-mount couplings provide one easy-to-use coupling for connecting from three to five lines at once. Multi-mount couplings are available in either 1/8" or 1/4" flow in a wide variety of materials including acetal, polypropylene and chrome plated brass. Multi-Mounts are keyed to prevent mismatched connections and can be configured with or without valves for maximum design flexibility.



FEATURES	BENEFITS
Three to five line connection	Fast, efficient operation
Separate flow paths	Pressure and/or vacuum in one coupling
Insert is keyed to body	Ensures correct line orientation
Acetal or chrome-plated brass	Maximizes design flexibility

Applications may include:

- Aerospace instrumentation
- Machining center coolant
- Robotics
- Pump manifolds
- Incubator
- Packaging machinery

Coupling Bodies

Acetal

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	J	Q
<i>Ferruleless</i>	1/4" OD .17" ID	6.4mm OD 4.3mm ID	PMM1204	PMMD1204	1.72	.52	1/2-24UNS	.65	5/8	5/8	7/16	.45
<i>Polytube</i>	1/4" OD .17" ID	6.4mm OD 4.3mm ID	PLM12004	PLMD12004	1.82	.52	11/16-24UNEF	.70	3/4	13/16	7/16	.50
<i>Fitting, PTF†</i>	3/8" OD .25" ID	9.5mm OD 6.4mm ID	PLM12006	PLMD12006	1.95	.65	11/16-24UNEF	.70	3/4	13/16	9/16	.50

Hose Barb

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	C	D	F	G	H	I	Q
	1/8" ID	3.2mm ID	PMM1602	PMMD1602	1.65	.45	1/2-24UNS	.65	5/8	5/8	.45
	3/16" ID	4.8mm ID	PMM1603	PMMD1603	1.85	.65	1/2-24UNS	.65	5/8	5/8	.45
	1/4" ID	6.4mm ID	PMM1604	PMMD1604	1.85	.65	1/2-24UNS	.65	5/8	5/8	.45
	1/4" ID	6.4mm ID	PLM16004	PLMD16004	1.95	.65	11/16-24UNEF	.70	3/4	13/16	.50
	5/16" ID	7.9mm ID	PLM16005	PLMD16005	1.95	.65	11/16-24UNEF	.70	3/4	13/16	.50
	3/8" ID	9.5mm ID	PLM16006	PLMD16006	1.95	.65	11/16-24UNEF	.70	3/4	13/16	.50

Female Thread

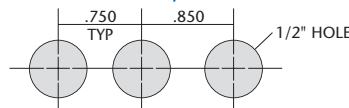
	THREAD SIZE	STRAIGHT THRU	SHUTOFF	C	G	H	I	Q
	10-32 UNF	PMM181032	PMMD181032	1.25	.65	5/8	5/8	.45

Multiple Mount Plates

NUMBER OF STATIONS	1/8" FLOW SIZE	LENGTH	1/4" FLOW SIZE	LENGTH
3	CP103	2.60	LCP103	3.00
4	CP104	3.35	LCP104	3.95
5	CP105	4.10	LCP105	4.90

- Multiple mount plates are keyed to prevent misconnections.
- Multiple mount minimum coupling spacing — CPC offsets the last hole on the mounting plates so they cannot be misconnected.

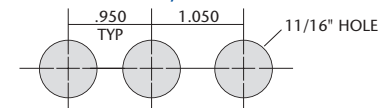
MM SERIES 1/8" Flow



Replacement Retaining Rings

COUPLING SERIES	RETAINING RINGS
MC/PMC	101700
LC/PLC	278100

LM SERIES 1/4" Flow



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

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

†NOTE: CPC's ferruleless PTF (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.

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Multi-Mount Series Specifications

Pressure: Minimum: Vacuum
 Maximum: Brass = $\frac{500 \text{ psi}}{\text{no. of stations}}$
 or Acetal = $\frac{240 \text{ psi}}{\text{no. of stations}}$

Temperature: -40° F to 180° F, continuous
 -40° C to 82° C, continuous

Mounting Plate: Black anodized aluminum

Materials:

Main components: Acetal or chrome-plated brass

Thumb latch: Stainless steel

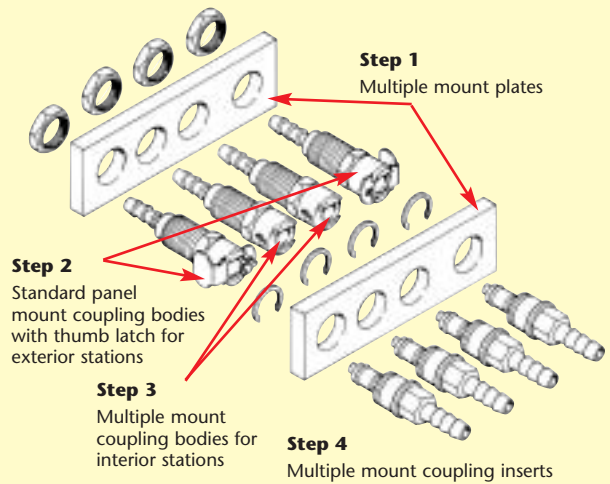
Valves: Acetal

Valve spring: 316 stainless steel

External springs and pin: Stainless steel

O-ring: Buna-N

Tubing Sizes: 1/8" thru 3/8" ID
 3.2mm thru 9.5mm ID
 5/32" thru 3/8" OD
 4mm thru 9.5mm OD



Four-Step Multi-Mount Ordering Process

- Step 1:** 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 44.
- Step 2:** Order two "standard panel mount coupling bodies with thumb latches" for the exterior stations. For 1/8" flow, see page 16 (acetal) or page 36 (chrome-plated brass). For 1/4" flow, see page 20 (acetal) or page 38 (chrome-plated brass).
- Step 3:** Order an appropriate number of "multiple mount coupling bodies without thumb latches" to accommodate the remaining interior stations. Refer to page 44.
- Step 4:** Order an appropriate number of "multiple mount inserts" to connect with standard and multiple mount bodies. Refer to multiple mount inserts below.

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

Coupling Inserts

Acetal

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	H	J	Q
<i>Ferruleless</i>	5/32" OD .10" ID	4.0mm OD 2.5mm ID	PMM2002S	PMMD2002S	.56	1.86/1.96	.50	1/2	3/8	.54/.64
<i>Polytube</i>	1/4" OD .17" ID	6.4mm OD 4.3mm ID	PMM2004	PMMD2004	.56	1.77/1.87	.52	1/2	7/16	.54/.64
<i>Fitting, PTFE</i>	1/4" OD .17" ID	6.4mm OD 4.3mm ID	PLM20004	PLMD20004	.75	2.10/2.23	.52	5/8	7/16	.64/.77
	3/8" OD .25" ID	9.5mm OD 6.4mm ID	PLM20006	PLMD20006	.75	2.02/2.15	.65	5/8	9/16	.64/.77

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	H	Q
<i>Hose Barb</i>	1/8" ID	3.2mm ID	PMM2202	PMMD2202	.56	1.87/1.97	.45	1/2	.54/.64
	3/16" ID	4.8mm ID	PMM2203	PMMD2203	.56	2.08/2.18	.65	1/2	.54/.64
	1/4" ID	6.4mm ID	PMM2204	PMMD2204	.56	1.83/1.93	.65	1/2	.54/.64
	1/4" ID	6.4mm ID	PLM22004	PLMD22004	.75	2.20/2.33	.65	5/8	.64/.77
	5/16" ID	7.9mm ID	PLM22005	PLMD22005	.75	2.20/2.33	.65	5/8	.64/.77
	3/8" ID	9.5mm ID	PLM22006	PLMD22006	.75	2.03/2.16	.65	5/8	.64/.77

	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	J	R	Q
<i>Elbow</i>	1/4" OD .17" ID	6.4mm OD 4.3mm ID	PMM2104	PMMD2104	.56	1.41/1.51	.52	7/16	.77	.54/.64

• Order required flow size and terminations. • Retaining clip is included with each insert. • Multiple mount inserts are designed for mounting in 1/4" plates.

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

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

Sixtube™ Series

Material: Acetal or Polypropylene

The Sixtube™ coupling provides one easy-to-use quick disconnect for up to six separate fluid lines. The Sixtube is available with valves on either side for maximum design flexibility. Featuring the CPC 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.



Patent Protected

Applications may include:

- Packaging equipment
- Pneumatic control panels
- Air bladder inflation
- Semiconductor manufacturing
- Water softeners
- Testing equipment

FEATURES

BENEFITS

Six line connection	Fast, efficient operation
Separate flow paths	Pressure and/or vacuum in one coupling
Insert is keyed to body	Ensures correct line orientation
CPC thumb latch	One-hand connection and disconnection

Specifications

Materials:

Main component: Acetal

Valves: Acetal

Fitting inserts: Acetal or 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

Pressure:

Vacuum to 100 psi, 6.9 bar per line

Temperature:

Acetal fitting inserts:

-40° F to 180° F continuous

-40° C to 82° C continuous

Temperature:

Polypropylene fitting inserts:

32° F to 180° F continuous

0° C to 82° C continuous

Coupling Bodies

Acetal & Polypropylene	TUBING SIZE	METRIC EQ.	ACETAL STRAIGHT THRU	ACETAL SHUTOFF	POLYPROPYLENE STRAIGHT THRU	B	C
With Male Fitting Inserts	1/16" ID	1.6mm ID	SXM1701		SXM170112	1.75	1.88
		3mm ID	SXM17M3			1.75	1.88
	1/8" ID	3.2mm ID	SXM1702		SXM170212	1.75	1.88
With Female Fitting Bodies	1/16" ID	1.6mm ID	SXF1701	SXFD1701	SXF170112	1.75	1.88
		3mm ID	SXF17M3	SXFD17M3		1.75	1.88
	1/8" ID	3.2mm ID	SXF1702	SXFD1702	SXF170212	1.75	1.88
Without Fittings			SX17			1.75	1.88

(For fittings, see page 43 in the Tentube® section and add MWHT to the end of the part number.)

Coupling Inserts

Acetal & Polypropylene	TUBING SIZE	METRIC EQ.	ACETAL STRAIGHT THRU	ACETAL SHUTOFF	POLYPROPYLENE STRAIGHT THRU	B	C
With Male Fitting Inserts	1/16" ID	1.6mm ID	SXM4201		SXM420112	1.30	1.10
		3mm ID	SXM42M3			1.30	1.10
	1/8" ID	3.2mm ID	SXM4202		SXM420212	1.30	1.10
With Female Fitting Bodies	1/16" ID	1.6mm ID	SXF4201	SXFD4201	SXF420112	1.30	1.10
		3mm ID	SXF42M3	SXFD42M3		1.30	1.10
	1/8" ID	3.2mm ID	SXF4202	SXFD4202	SXF420212	1.30	1.10
Without Fittings			SX42			1.30	1.18


(For fittings, see page 43 in the Tentube® section and add MWHT to the end of the part number.)

Pressure Plugs

Acetal	ACETAL SHUTOFF	B	C
	TMPMWHT	.33	.50

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

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

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Puncture Seal Dispensing System

Material: Polyethylene (LDPE) and Polypropylene

The patented 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 quick 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 CPC thumb latch to disconnect the system and then connect the Puncture Seal coupling body to a fresh container.



Patent Protected

Applications may include:

- Cleaning concentrates
- Dry cleaning chemicals
- Soap dispensing
- Photo developers
- Printing inks
- Dyeing agents

NOTE: Special ordered couplings are available in versions that comply with listing requirements for NSF standard C-2.

FEATURES

BENEFITS

Puncture Seal coupling	Easily breaks the Puncture Seal membrane
Polypropylene and polyethylene materials	Greater chemical resistance
Puncture Seal membrane	Eliminates shipping caps and o-rings
CPC thumb latch	One-hand connection and disconnection

Specifications

Materials:

Main components and valves: Polypropylene

38mm closure: Polyethylene (LDPE)

Thumb latch: Stainless steel

Valve spring: 316 stainless steel

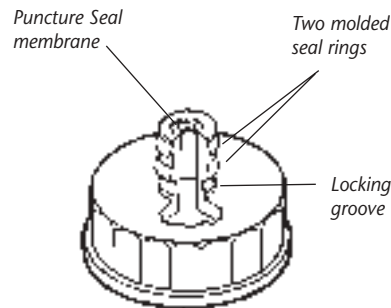
External spring and pin: Stainless steel

O-rings: EPDM

Closure Size: SP-400 38mm

Pressure: 120 psi

Temperature: 32° F to 160° F
0° C to 71° C



Coupling Bodies

Polypropylene

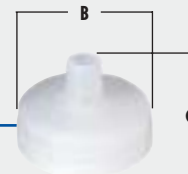
TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D
1/4" ID	6.4mm ID	PS1700412	PSD1700412	.93	1.95	.65
3/8" ID	9.5mm ID	PS1700612	PSD1700612	.93	1.95	.65



38mm Closure

Polyethylene (LPDE)

STYLE	PART NO.	B	C
Threaded	PSC38mm	1.70	1.12



All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

NOTE: Contact CPC for pressure and temperature ratings on closure cap.

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Universal Dispensing Series

Material: Polypropylene

The patented 3/8" flow Universal Dispensing Coupler (UDC) provides a universal connection to a 38mm fitment neck. Make instant connections to bulk packaging systems including bag-in-box (BIB), flexible and rigid packaging styles. Automatic flush face valves nearly eliminate 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 universal dispensing system is NSF standard C-2 listed.



Patent Protected

FEATURES	BENEFITS
Universal 38mm cap	Fits most manufacturers fitment necks
Flush face valves	Minimizes spillage
Integral terminations	Fewer leak points, shorter assemblies, faster installations
Shrouded thumb latch	Protects against accidental disconnects

Applications may include:

- Condiment dispensing
- Sterilants
- Liquid colorants
- Liquid adhesives
- Cleaning concentrates
- Lubricants



The UDC complies with listing requirements for NSF standard C-2.

Specifications

Materials:

Main body components and valves: Polypropylene
UDC cap: Polypropylene
UDC valve: EPDM
Thumb latch: Polypropylene
O-rings (food grade): Silicone, Buna-N and EPDM
Springs: 316 stainless steel
CIP adapter: Acetal
38mm cap: Acetal
38mm valve: Acetal

Color: Light gray with charcoal gray latch

Pressure: 20" Hg Vacuum to 15 psi, 1 bar

Temperature: 32° F to 160° F, 0° C to 71° C

Closure Size: SP-400 38mm

Coupling Bodies



Polypropylene In-Line Hose Barb	TUBING SIZE	SILICONE	BUNA-N	EPDM	B	C	D
		O-RING	O-RING	O-RING			
	3/8" ID	99000	98400	98500	1.73	3.06	.65
	1/2" ID	95600	97600	95300	1.73	3.06	.65
	5/8" ID	99100	97900	98100	1.73	3.20	.79
	3/4" ID	99200	98600	98700	1.73	3.21	.79

Polypropylene Elbow Hose Barb	TUBING SIZE	SILICONE	BUNA-N	EPDM	B	C	D	R
		O-RING	O-RING	O-RING				
	3/8" ID	99300	97800	99400	1.73	3.25	.65	.93
	1/2" ID	95400	97700	95100	1.73	3.25	.65	.93

Caps

Acetal Valved 38mm		SILICONE	BUNA-N	EPDM	B	C
		O-RING	O-RING	O-RING		
	Without Thread Seal	95800	96400	97400	1.70	1.39
	With Thread Seal	95801	96401	97401	1.70	1.39

Polypropylene Disposable UDC	PART NO.	EPDM Poppet <th>B</th> <th>C</th>	B	C
			1615600	1.61

Clean-In-Place (CIP) Adapter

Acetal In-Line	PART NO.	1/2" HB (no o-ring) <th>B</th> <th>C</th> <th>D</th>	B	C	D
			96000	1.15	1.56

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.



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Keyed, Color-Coded

Material: Chrome-Plated Brass

Keyed 1/8" flow MC Series couplings are specifically designed for applications requiring foolproof connections and non-interchangeable lines. Three keyed and color-coded options are available. The keyed, color-coded MC series features chrome-plated brass construction for durability and an attractive appearance.



FEATURES	BENEFITS
Insert is keyed to body	Ensures correct line orientation
Color-coded	No mismatched lines
CPC thumb latch	One-hand connection and disconnection
Chrome-plated brass material	Durable construction and attractive appearance

Applications may include:

- Pumping equipment
- Gasket punching
- Foam container machinery
- Semiconductor chemical process
- Gas detection
- Chemical analyzers

Specifications

Materials:

Main components: Chrome-plated brass

Thumb latch: Stainless steel

Valves: Acetal

Valves springs: 316 stainless steel

External springs and pin: Stainless steel

O-rings: Buna-N

Color: Chrome

Color coding: K1 = Orange, K2 = Yellow, K3 = Blue

Pressure: Vacuum to 250 psi, 17.3 bar

Temperature: -40° F to 180° F continuous
-40° C to 82° C continuous

ORDERING: Order couplings that have consistent color "K" codes: K1-Orange, K2-Yellow, K3-Blue. For example, order MC1002K1 with MC2202K1. Standard thermoplastic and chrome-plated brass quick disconnects cannot be interchanged with keyed and color-coded quick disconnect coupling.

Coupling Bodies

Chrome-Plated Brass

	THREAD SIZE		STRAIGHT THRU	SHUTOFF	B	C	D	H				
Pipe Thread	1/8" NPT		MC1002 (K1,2,3)	MCD1002 (K1,2,3)	.75	1.00	.40	5/8				
	1/4" NPT		MC1004 (K1,2,3)	MCD1004 (K1,2,3)	.75	1.10	.50	5/8				
	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	SHUTOFF	B	C	D	F	G	H	I	Q
Panel Mount Hose Barb	1/8" ID	3.2mm ID	MC1602 (K1,2,3)	MCD1602 (K1,2,3)	.75	1.65	.45	1/2-24UNS	.65	5/8	5/8	.45
	1/4" ID	6.4mm ID	MC1604 (K1,2,3)	MCD1604 (K1,2,3)	.75	1.89	.65	1/2-24UNS	.65	5/8	5/8	.45
Ferruleless Polytube Fitting, PTF†	1/4" OD	.17" ID	MC1204 (K1,2,3)	MCD1204 (K1,2,3)	.75	1.77	.52	1/2-24UNS	.65	5/8	5/8	7/16 .45



Coupling Inserts


Chrome-Plated Brass

	THREAD SIZE	STRAIGHT THRU	C	D	H		
Pipe Thread	1/8" NPT	MC2402 (K1,2,3)	1.25	.40	1/2		
	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	B	C	D	
In-Line Hose Barb	1/8" ID	3.2mm ID	MC2202 (K1,2,3)	.50	1.15	.45	
	1/4" ID	6.4mm ID	MC2204 (K1,2,3)	.50	1.35	.65	
	TUBING SIZE	METRIC EQ.	STRAIGHT THRU	C	D	H	J
Ferruleless Polytube Fitting, PTF†	1/4" OD	.17" ID	MC2004 (K1,2,3)	1.37	.52	1/2	7/16



All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

†NOTE: CPC's ferruleless PTF (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.

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RPN Series

Material: Anodized Aluminum

RPN (Rack & Panel) Series quick disconnect couplings provide the crucial missing link in a reliable, closed loop liquid cooling system. RPNs allow “hot swapping” of cold plates with virtually no spillage and their molded valve components provide high flow.



FEATURES	BENEFITS
SAE 06 terminations w/o-ring	Secure connections require no additional parts
Non-spill valve design	Virtually no spillage around sensitive electronics
Anodized aluminum construction	Durable and lightweight

Pressure: Vacuum to 100 psi

Temperature: -40° F to 185° F / -40° C to 85° C
(contact CPC for high temp. applications)

Flow Capacity: Cv~2.5 (see graph)

Spillage: 0.01 ml @ ~0 psi, 0.08 ml @ 100 psi

Materials:

Main components: Anodized aluminum

Valves: Polysulfone

O-ring seals: EPDM (includes thread o-ring)

Springs: 316 stainless steel

Lubricants: Krytox®, PFPE (inert)

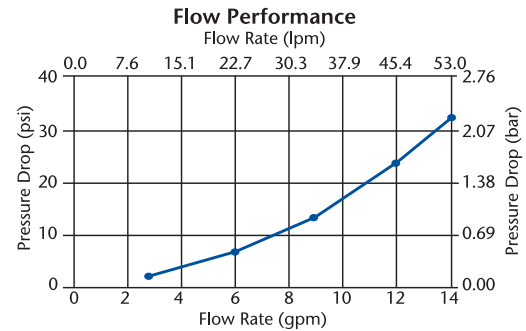
Connect Force: 12.7 LBF@ 0psi, 43.7 LBF@ 100psi

Connected Length: 2.48 REF

Applications may include:

- Cell tower base stations
- Power amplifiers
- Base station maintenance
- MRI equipment
- Computer equipment
- Large, remote services
- Circuit board testing
- Aerospace equipment

FXI
If you like the RPN concept but desire a different material, configuration or size, please contact CPC to discuss your high-volume application.



Coupling Bodies

Anodized Aluminum

TERMINATION TYPE	PART NO.	HEX	LENGTH
SAE-06 9/16-18 UNF-2A threads (Seals in SAE J1926-1 SAE straight thread port)	RPN30006	7/8"	1.73"

Coupling Inserts

Anodized Aluminum

TERMINATION TYPE	PART NO.	HEX	LENGTH
SAE-06 9/16-18 UNF-2A threads (Seals in SAE J1926-1 SAE straight thread port)	RPN46006	7/8"	1.47"

All measurements are in inches unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. For details of product dimension codes see page 60. Straight thru dimension is listed first when two measurements are provided.

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Chemical Management Capabilities ChemQuik® Overview

In addition to our wide range of general purpose couplings, CPC also offers the award-winning ChemQuik® family of chemically-resistant, ultra-pure, quick disconnect couplings, and DrumQuik® dip-tubes for drums and IBC totes. Both series are available in a variety of materials including polypropylene, PVDF, PTFE, and PFA and feature 100% metal-free flow paths. They are well-suited for making instant, low spill and reliable disconnects of ultra-pure, ultra-aggressive chemicals and de-ionized water lines.

ChemQuik couplings offer a variety of features to help increase the efficiency and safety of your chemical handling applications:

- 1 All plastic, metal-free flow path** will not corrode or contaminate aggressive or high-purity chemicals. High-purity materials and the “Critical Clean” manufacture process assure that the ChemQuik couplings are chemically inert to a broad range of chemicals and minimize contaminants as generated in three forms: metals (trace metals as used in colorants, etc.), TOC (total organic carbon) and particulates (dust, dirt and wear particles).
- 2 Integral non-spill shutoff valves** allow users to instantly disconnect and reconnect a chemical line without spilling chemicals or introducing air into the system when reconnecting, even when lines are under pressure. This facilitates faster service times and the use of modular-type equipment.
- 3 High flow efficiency** is a standard feature of the ChemQuik couplings, with class-leading Cv ratings (an indicator of relative flow capacity). CPC’s attention to detail results in exceptionally low turbulence in the fluid flow path.
- 4 Integral Flaretek® fitting terminations** make connection to standard Teflon® PFA tubing easy. In addition, they eliminate potential leak paths and make for a more compact design. Other fittings may be connected via the standard NPT option and also provide unsurpassed configuration flexibility.
- 5 A keying system**, incorporating both color and mechanical means, helps to minimize the risk of accidental connection of fluid lines containing incompatible fluid media.



DrumQuik®



CQH06



CQN06



CQN08



CQG06

These are only some of the critical design features ChemQuik plastic quick disconnect couplings offer. For more information, specifications and part information, please refer to CPC’s Chemical Management catalog, available at www.colder.com or by calling 1-800-444-2474.

Fittings & Accessories

Straight Connectors



	PIPE THREAD	TUBING	TUBING DIMENSION	PART NO.	LENGTH
<i>Ferruleless Polytube Fitting, PTF†</i>	10-32*	x 1/8"	.07" ID .125 OD	TF1002	.64
	10-32*	x 1/4"	.17" ID .250 OD	TF1004	.86
	1/8" NPT	x 1/8"	.07" ID .125 OD	TF2002	.98
	1/8" NPT	x 1/4"	.17" ID .250 OD	TF2004	1.10
	1/8" NPT	x 3/8"	.25" ID .375 OD	TF2006	1.24
	1/4" NPT	x 1/4"	.17" ID .250 OD	TF4004	1.20
	1/4" NPT	x 3/8"	.25" ID .375 OD	TF4006	1.34



	TUBING	PART NO.	TUBING	PART NO.
<i>Ferruleless Polytube Fitting Nuts, PTF†</i>	5/32" OD	269700	4.0mm OD	269700
<i>Replacement Parts</i>	1/4" OD	100800	8.0mm OD	339500
	3/8" OD	108900	10.0mm OD	358400



Insert Seals Replacement Parts

	COUPLING SERIES	BUNA-N	FLUOROCARBON	EPDM
	MC, PMC	730800	730804	730803
	LC, PLC, EFC, APC, Twin Tube™ large o-ring (1.78mm cross section)	731100	731104	731103
	SMC, Twin Tube™ small o-ring	730600	730604	730603
	HFC/FFC	731600	731604	731603
	3FL		1262600	
	5FL		1262700	



	COUPLING SERIES NUTS	NICKEL BRASS	ACETAL	316 STAINLESS	POLYPROPYLENE (PP) POLYSULFONE (PSF)
Panel Mount Nuts	MC, PMC, PMC12	100900	664400	100901	—
	LC, PLC, EFC, PLC12, APC	120700	520300	120701	—
	HFC	—	—	—	621300 (PP) 694300 (PSF)



	COUPLING SERIES	BODY PLUG	INSERT CAP
Dust Caps & Plugs	MC, PMC non-sealing	PMC31	PMC32
	LC, PLC non-sealing	PLC310	PLC320
	APC, EFC non-sealing	—	PLC320
	PMC pressure-sealing	PMC30	—
	PLC pressure-sealing	PLC300	—
	HFC/FFC non-sealing (not shown)	HFC312 L (with leash) HFC312 (no leash)	

JG® Push-To-Connect Accessories

	PART NO.		PART NO.
In-Line Locking Clips, Red	1/4" tube OD 1011900 3/8" tube OD 1012000	In-Line Collet Covers, Color-Coded	1/4" tube OD 1012101 to 06 3/8" tube OD 1012201 to 06



Colors available: Please indicate color using the following suffix codes:
01=Black, 02=Red, 05=Yellow, 04=Gray, 05=Blue, 06=Green
Example: 1012101 is the code for a 1/4" collet cover in black.

†NOTE: CPC's ferruleless PTF (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.
*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.



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Fittings & Manifolds

Specifications

Pressure: 100 psi, 7.0 bar

Temperature: 32° F to 230° F, 0° C to 110° C

Materials: Polypropylene

Tube Fittings

	PART NO.	DESCRIPTION
Hose Barb Union <i>Straight</i>	HS2	1/16" x 1/16" Hose Barb
	HS3	3/32" x 3/32" Hose Barb
	HS4	1/8" x 1/8" Hose Barb

	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
<i>Tee</i>	HT2	1/16" x 1/16" x 1/16" Hose Barb	<i>Elbow</i>	HE2	1/16" x 1/16" Hose Barb
	HT3	3/32" x 3/32" x 3/32" Hose Barb		HE3	3/32" x 3/32" Hose Barb
	HT4	1/8" x 1/8" x 1/8" Hose Barb		HE4	1/8" x 1/8" Hose Barb

	PART NO.	DESCRIPTION
Hose Barb x 10-32 Thread <i>Straight</i>	MS2	1/16" Hose Barb x 10-32 Thread
	MS3	3/32" Hose Barb x 10-32 Thread
	MS4	1/8" Hose Barb x 10-32 Thread

	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
<i>Tee</i>	MT2	1/16" x 1/16"	<i>Elbow</i>	ME2	1/16" Hose Barb x 10-32 Thread
	MT3	3/32" x 3/32"		ME3	3/32" Hose Barb x 10-32 Thread
	MT4	1/8" x 1/8"		ME4	1/8" Hose Barb x 10-32 Thread

	PART NO.	DESCRIPTION
<i>Miscellaneous</i>	MP	10-32 Plug
	N32	10-32 x 10-32 Nipple

Specifications

Materials: Acetal

Nut: Nickel-plated brass

	TUBING	METRIC EQ.	PART NO.	PANEL OPENING
Panel Mount	1/8" ID x 1/8" ID	3.2 x 3.2mm	BHU2202	1/2"
Hose Barb Union	1/4" ID x 1/4" ID	6.4 x 6.4mm	BHU2204	1/2"
<i>Straight</i>	3/8" ID x 3/8" ID	9.5 x 9.5mm	BHU2206	1/2"

Specifications

Materials: Aluminum

Finish: Black anodized

Manifolds

	PART NO.	SIDE PORTS	END PORTS	LENGTH
<i>10-32 Ported Manifold with 1/8" NPT End Port</i>	32M3	3	1	2.30"
	32M4	4	1	2.80"
	32M5	5	1	3.30"

	PART NO.	SIDE PORTS	END PORTS	LENGTH
<i>1/8" NPT Ported Manifold with 1/8" NPT End Port</i>	2M3	3	1	3.10"
	2M4	4	1	4.00"
	2M5	5	1	4.90"

	PART NO.	SIDE PORTS	END PORTS	LENGTH
<i>1/4" NPT Ported Manifold with 1/4" NPT End Port</i>	4M3	3	2	3.80"
	4M4	4	2	4.80"
	4M5	5	2	5.80"

All measurements are in inches 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.

NOTE: CPC's threaded fittings require no gasket for a reliable seal and also allow the fitting to be directionally oriented without a gasket.

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Liquid Flow Rates

Liquid Flow Rate Information for Couplings

The charts show the flow rate for CPC couplings. The tests were conducted with pipe thread bodies and hose barb inserts. Each coupling was tested in straight thru, single-end shutoff and double end shutoff models with water at 70° F (21° C). To determine flow rates for specific coupling configurations use the formula to the right.

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

- Q = Flow rate in gallons per minute
- C_v = Average constant of various rates. See charts below
- ΔP = Pressure drop across coupling
- S = Specific gravity of liquid

Example:

Coupling Body = MC1004
 Coupling Insert = MC2004
 C_v = .4 (see chart)
 ΔP = 40
 S = 1 (water)

$$Q = C_v \sqrt{\frac{\Delta P}{S}} = .4 \sqrt{\frac{40}{1}} = 2.5 \text{ gallons per minute}$$

C_v Values for Subminiature Couplings (SMC)

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

C_v Values for Twin Tube™ Couplings

BODIES	PTC 22010		PTC 22020		PTC 220296	
	CENTER	SIDE	CENTER	SIDE	CENTER	SIDE
PTC16010	.03	.03	.03	.03	—	—
PTC16020	.03	.03	.08	.14	—	—
PTC1602096	—	—	—	—	.09	.06

C_v Values for 1/8" Flow Couplings (PMC & MC)

Inserts

BODIES	MC 2004	MCD 2004	MC 2006	MCD 2006	MC 2202	MCD 2202	MC 2204	MCD 2204	MC 2402	MCD 2402	MC 2404	MCD 2404	MC 2602	MC 2304	MC 2104	MCD 2304	MC 2203	MCD 2203	PMC 2201	PMCD 2201
MC1002	.40	.18	.50	.19	.25	.16	.50	.19	.50	.20	.51	.19	.50	.50	.38	.24	.30	.17	.03	.03
MCD1002	.27	.18	.31	.18	.24	.16	.28	.20	.26	.20	.29	.18	.26	.26	.27	.24	.25	.17	.03	.03
MC1004	.40	.21	.50	.24	.26	.18	.50	.24	.50	.20	.51	.24	.50	.50	.38	.26	.30	.19	.03	.03
MCD1004	.29	.19	.32	.23	.25	.17	.30	.23	.27	.21	.28	.23	.27	.28	.29	.24	.25	.18	.03	.03
MC1204	.40	.18	.50	.18	.25	.16	.40	.18	.40	.16	.36	.18	.40	.40	.38	.21	.30	.17	.03	.03
MCD1204	.21	.17	.22	.17	.20	.16	.22	.17	.21	.17	.20	.17	.21	.22	.21	.18	.21	.16	.03	.03
MC1602	.23	.15	.28	.18	.19	.14	.27	.15	.27	.15	.28	.18	.27	.27	.23	.16	.20	.14	.03	.03
MCD1602	.19	.15	.19	.15	.17	.14	.19	.15	.18	.15	.18	.15	.18	.19	.19	.15	.18	.14	.03	.03
MC1604	.33	.23	.44	.24	.24	.18	.44	.23	.44	.20	.38	.24	.38	.44	.33	.26	.26	.19	.03	.03
MCD1604	.23	.17	.26	.21	.22	.16	.26	.21	.26	.19	.25	.21	.21	.26	.23	.24	.22	.16	.03	.03
MC1703	.25	.20	.30	.20	.20	.17	.30	.20	.30	.19	.28	.20	.28	.30	.25	.18	.21	.17	.03	.03
MCD1703	.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

C_v Values for 1/4" Flow Couplings (PLC & LC)

Inserts

BODIES	LC 20004	LCD 20004	LC 20006	LCD 20006	LC 22004	LCD 22004	LC 22006	LCD 22006	LC 24004	LCD 24004	LC 24006	LCD 24006	LC 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

NOTE: For metric equivalents, consult CPC Customer Service.

Liquid Flow Rates

Cv Values for APC Couplings

Inserts

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

Cv Values for Extra Flow Couplings (EFC)

Inserts

BODIES	EFC 22412	EFC 22412	EFC 22612	EFC 22612	EFC 23412	EFC 23412	EFC 23612	EFC 23612	EFC 24412	EFC 24612
EFC10412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFC10612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72
EFC16412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFC16612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72
EFC17412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFC17612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72

Cv Values for High Flow Couplings (HFC)

Inserts

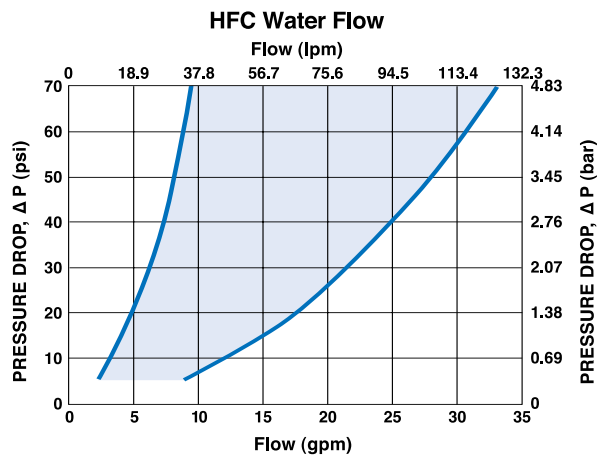
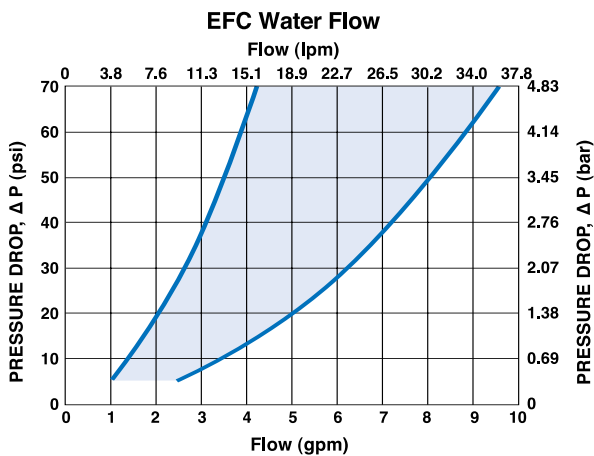
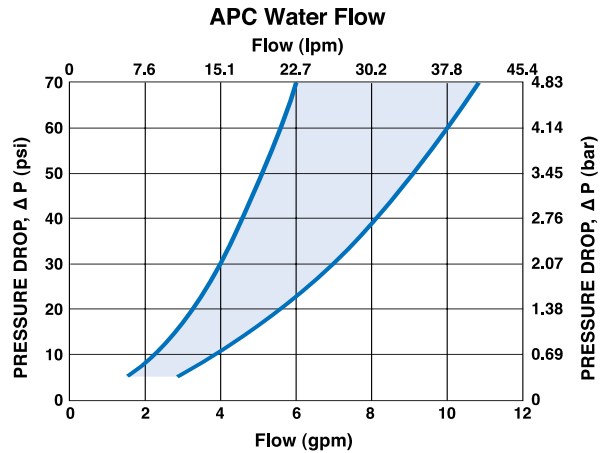
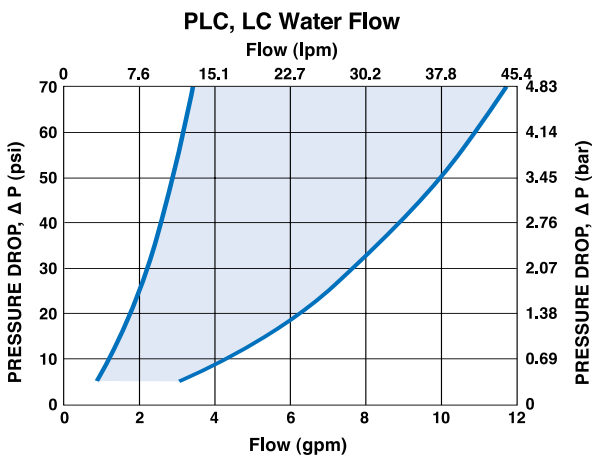
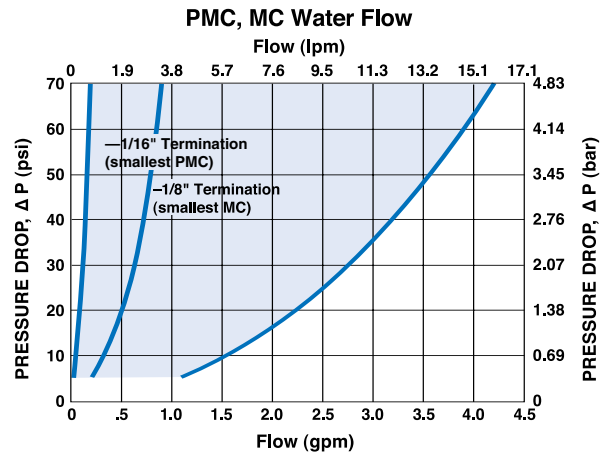
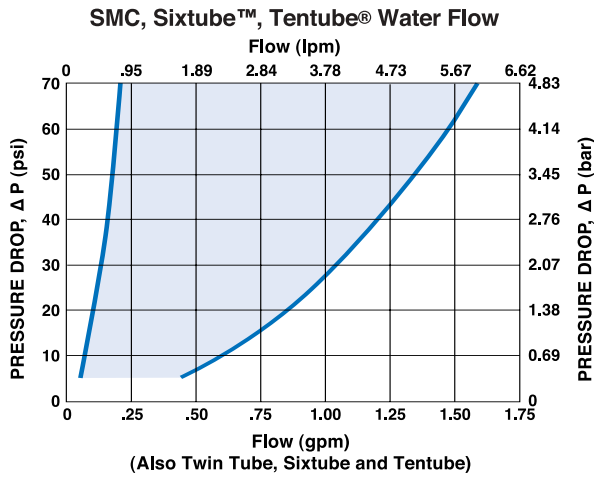
BODIES	HFC 22612	HFC 22612	HFC 22812	HFC 22812	HFC 23612	HFC 23612	HFC 23812	HFC 23812	HFC 24612	HFC 24612	HFC 24812	HFC 24812	HFC 221212	HFC 221212
HFC10612	1.27	1.27	1.62	1.51	1.14	1.14	1.46	1.36	1.80	1.58	1.70	1.65	-	-
HFC10812	1.28	1.34	1.62	1.51	1.15	1.24	1.46	1.36	1.81	1.54	1.72	1.56	-	-
HFC16612	1.07	1.00	1.17	1.14	0.96	0.90	1.05	1.03	1.33	1.26	1.30	1.24	-	-
HFC16812	1.25	1.23	1.61	1.52	1.13	1.11	1.45	1.37	1.79	1.60	1.68	1.56	-	-
HFC17612	1.07	1.00	1.17	1.14	0.96	0.90	1.05	1.03	1.33	1.26	1.30	1.24	-	-
HFC17812	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	-
HFC171212	-	-	-	-	-	-	-	-	-	-	-	-	-	2.04

FYI

For CV values on FFC, FL Series, Sixtube™, Tentube®, NSH, NS4, and NS6 contact CPC.

Water Flow Graphs

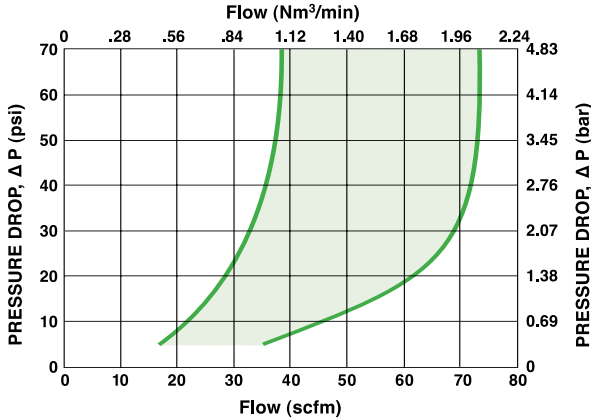
These graphs are intended to give you a general idea of the flow capabilities of each product line. The shaded area of each graph represents the operating range of the product family, i.e., upper and lower flow values are shown. Therefore, depending on the exact coupling configuration selected, you can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



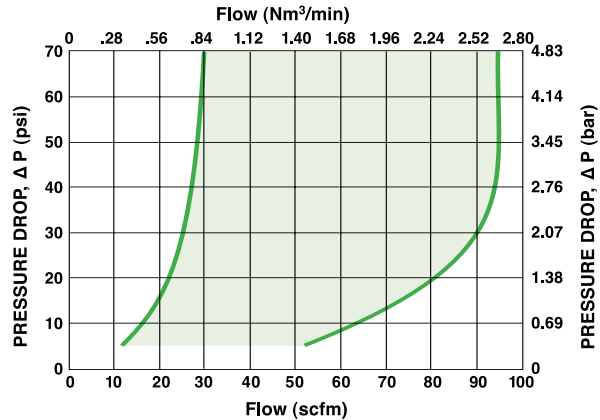
Air Flow Graphs

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

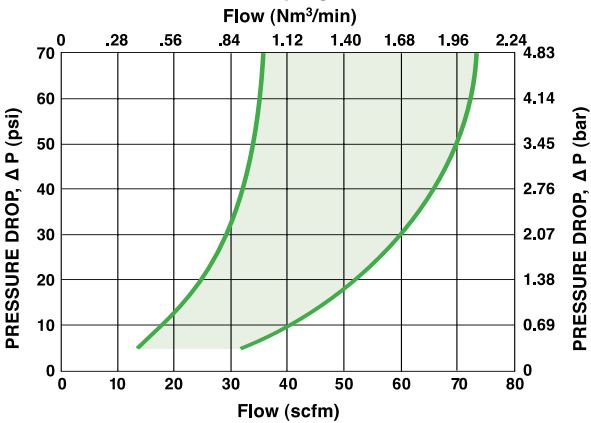
APC Air Flow, 100 psig Inlet Pressure



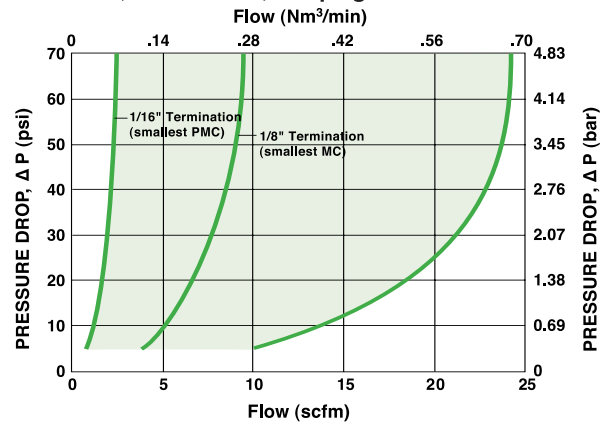
PLC, LC Air Flow, 100 psig Inlet Pressure



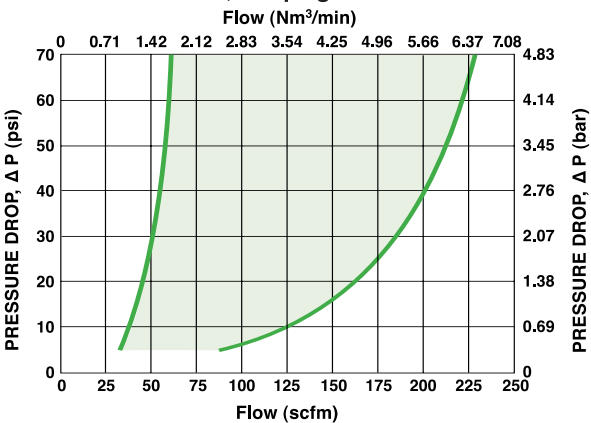
EFC Air Flow, 100 psig Inlet Pressure



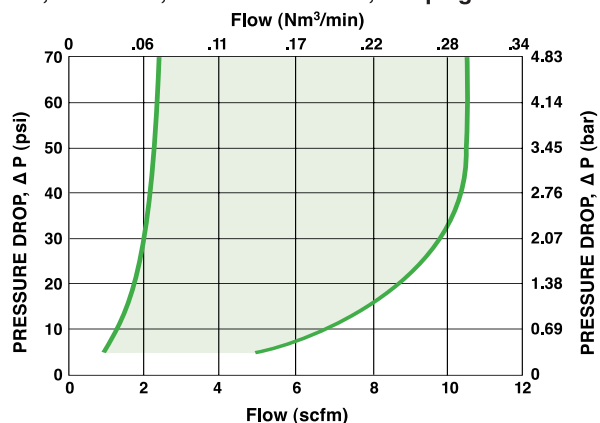
PMC, MC Air Flow, 100 psig Inlet Pressure



HFC Air Flow, 100 psig Inlet Pressure



SMC, Sixtube™, Tentube® Air Flow, 100 psig Inlet Pressure



Chemical Compatibility Guide

Chemicals can affect the strength, surface appearance, color, dimensions, or weight of plastics. Therefore, CPC presents this chemical resistance chart as a basic guide only. Because many factors affect the chemical resistance of a given material, it is the customer's responsibility to test CPC products under their own application conditions. Contact CPC Customer Service with any questions about specific application conditions.

KEY

- A = Excellent – no apparent effect
- B = Good – little or no effect
- C = Fair – some effect, not long term
- D = Not recommended, severe effect
- N/A = Not Available

CHEMICAL

MATERIAL

CHEMICAL	Polymers					Metals			Elastomers			
	ACETAL	PEEK	POLY-PROPYLENE	POLY-SULFONE	POLY-CARBONATE	CHROME-PLATED BRASS	STAINLESS STEEL (316)	ALUMINUM	BUNA-N (NITRIL)	EPR/EPDM	FLUORO-CARBON (VITON®)	CHEMRAZ® KALREZ®
Acetic Acid	D	A	B	A	B	D	A	B	D	A	D	A
Acetone	A	A	A	D	D	A	A	A	D	A	D	A
Air	A	A	A	A	A	A	A	A	A	A	A	A
Ammonia, Anhydrous	D	A	A	A	D	D	A	A	B	A	D	A
Benzene	A	A	D	D	D	N/A	B	B	D	D	A	A
Carbon Dioxide	A	A	A	N/A	N/A	A	A	B	A	B	B	A
Chlorine Water	D	C	D	B	N/A	D	C	D	D	C	A	N/A
Ethanol (Ethyl Alcohol)	A	A	A	C	B	A	A	B	A	A	A	A
Ethylene Glycol	B	A	A	A	B	A	A	A	A	A	A	A
Gasoline, Unleaded	A	A	C	A	A	A	A	A	B	D	A	A
Hydrochloric Acid	C	A	B	A	D	D	D	D	D	C	A	A
Hydrofluoric Acid	D	C	C	D	D	D	B	D	D	D	B	A
Isopropyl Alcohol	A	A	A	B	A	B	B	B	B	B	B	A
Methyl Ethyl Ketone (MEK)	C	A	B	D	D	A	A	B	D	A	D	A
Methanol (Methyl Alcohol)	A	A	A	C	B	A	A	A	A	A	D	A
Oxygen	A	A	A	A	A	A	A	A	B	A	A	A
Ozone	C	A	B	A	A	N/A	A	B	D	A	A	A
Sodium Hypochlorite	D	A	B	A	N/A	D	N/A	D	C	B	A	A
Steam	C	A	A	A	A	A	A	B	D	A	D	A
Sulfuric Acid, Air-Free	N/A	C	C	D	D	C	B	D	D	D	A	A
Toluene	C	A	C	D	D	A	A	A	D	D	C	A
Trichloroethylene	D	A	C	C	N/A	B	B	D	D	D	A	B
Water, Fresh	A	A	A	A	A	C	A	B	A	A	B	A

Material

Acetal: Acetal thermoplastic (Polyoxymethylene) is strong, lightweight and economical, and is used for a wide variety of chemical and mechanical components.

Polypropylene: Polypropylene thermoplastic has excellent chemical resistance and withstands sterilization. It is commonly used in water filtration and bioprocessing applications.

Polysulfone: Polysulfone thermoplastic has excellent strength, good chemical resistance, withstands repeated sterilization, and withstands higher temperatures than other thermoplastics.

Polycarbonate: Polycarbonate thermoplastic is resistant to chemicals, withstands sterilization and is transparent. It is commonly used in medical devices.

Chrome-Plated Brass: A rugged metallic material with an attractive appearance, chrome-plated brass is excellent for higher pressure and temperature. It is commonly used in instrumentation, air and vacuum line applications.

Aluminum: Lightweight and durable, aluminum also has good chemical resistance. Applications include automotive fluid recovery, marine and RV fluids, and cooling lines.

Notes: All ratings are based on concentration level at 100% and temperature at 73° F.



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Sterilization and Disinfectant Methods

MATERIAL	DISINFECTANTS			ETHYLENE OXIDE	AUTOCLAVE	E-BEAM IRRADIATION	GAMMA IRRADIATION	DRY HEAT
	<i>Formalin</i>	<i>Isopropyl Alcohol</i>	<i>Ethyl Alcohol</i>					
						<i>5 Megarads</i>	<i>5 Megarads</i>	<i>250° F</i>
Metals								
302 Stainless Steel	Y	Y	Y	Y	Y	Y	Y	Y
316 Stainless Steel	Y	Y	Y	Y	Y	Y	Y	Y
6061 Aluminum	Y	Y	Y	N	Y	Y	Y	Y
Chrome-Plated Brass-CDA 360	N	Y	Y	Y	Y	Y	Y	Y
Polymers								
ABS	N	N/A	Y	Y	N	Y	Y	N
Acetal	Y	Y	Y	Y	Y	N	N	N
LDPE	Y	Y	Y	Y	N	Y	Y	N
Nylon	Y	N	N	Y	N	N	N	N
Polycarbonate	Y	Y	Y	Y	Y	Y	Y	Y
Polypropylene	Y	Y	Y	Y	N	Y	Y	N
Polysulfone	Y	Y	Y	Y	Y	Y	Y	Y
Elastomers								
Nitrile/Buna-N	Y	Y	Y	N	N	Y	Y	Y
Silicone	Y	Y	Y	Y	Y	Y	Y	Y
Kalrez®	Y	Y	Y	Y	Y	N	N	Y
EPR/EPDM	Y	Y	Y	Y	Y	Y	Y	Y
FKM/Viton®	Y	Y	Y	N	N	N	N	Y

NOTE: Testing conducted at room temperature except where noted.

Sterilization Methods

Disinfectants: 70° F (20° C), Formalin, ethyl alcohol, etc. Sterilize coupled or uncoupled.

Ethylene Oxide, EtO: Four hours, 100% EtO @ 110° F (43° C), up to five repetitions, coupled or uncoupled.

Autoclave: 250° F (121° C), 30 min. max., up to 10 repetitions. Sterilize uncoupled only. Contact CPC for specific material autoclaving capabilities.

Electron Beam: Maximum cumulative exposure of 50 kilograys. Sterilize coupled or uncoupled.

Gamma: Maximum cumulative exposure of 50 kilograys. Sterilize coupled or uncoupled.

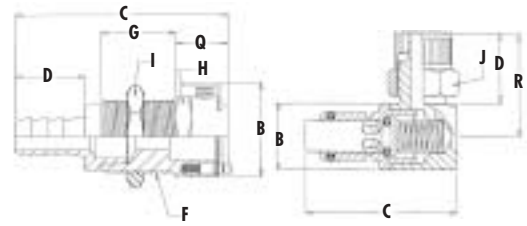
Dry Heat: 250° F (121° C), 12 hours, no pressure. Sterilize uncoupled only.

KEY	
Y	YES, recommended material for this sterilization method
N	NO, not recommended
N/A	Not applicable

Product Dimension Codes/Panel Mount Dimensions and Specifications

Product Dimension Codes

C = Total Length (including valve)	Q = Extension from Panel Front
E = Panel Opening	R = Elbow Radial Length
G = Thread Length	B = Height/Diameter
I = Hex Size of Panel Nut	D = Length of Termination
K = Maximum Panel Thickness	F = Thread Size
L = Minimum Panel Thickness	H = Hex Size on Main Component
	J = Hex Size of PTF Nut



Panel Mount Specifications

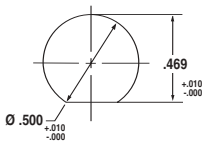
	E PANEL OPENING	K MAX. PANEL THICKNESS	L MIN. PANEL THICKNESS
APC Series			
Coupling Bodies	see sketch	.50	.02
EFC12 Series			
Coupling Bodies	see sketch	.50	.00
FFC35 Series			
Coupling Bodies	1.21	.25	.03
HFC12, HFC35 and HFC57 Series			
Coupling Bodies	see sketch	.25	.03
Keyed, Color-Coded Series			
Coupling Bodies	1/2	.50	.02
LC Series			
Coupling Bodies & Inserts	11/16	.50	.05
MC Series			
Coupling Bodies (except Male Thread)	1/2	.50	.05
Male Thread	1/2	.21	.05
Coupling Inserts	1/2	.30	.05
Multi-Mount Series - 1/8" Flow			
Multi-Mount Bodies	1/2	.50	.05
Multi-Mount Series - 1/4" Flow			
Multi-Mount Bodies	11/16	.50	.02
NS4 Series			
Coupling Inserts	15/16	.25	.03
NS6 Series			
Coupling Inserts	1-1/4	.25	.03

	E PANEL OPENING	K MAX. PANEL THICKNESS	L MIN. PANEL THICKNESS
NSH Series			
Adapter Kit	2	.5	.13
PLC Series			
Coupling Bodies	see sketch	.50	.02
Coupling Inserts	11/16	.30	.02
PLC12 Series			
Coupling Bodies	11/16	.50	.02
Coupling Inserts	11/16	.30	.02
PMC Series			
Coupling Bodies	see sketch	.50	.05
Coupling Inserts	1/2	.30	.05
PMC12 Series			
Coupling Bodies	1/2	.50	.05
Sixtube™ Series			
Coupling Inserts	see sketch	.13	.03
SMC Series			
Coupling Bodies & Inserts	7/16	.21	.03
Tentube® Series			
Adapter	see sketch	.44	.06
Tube Fittings			
Union	1/2	.25	.05
Twin Tube™ Series			
Coupling Bodies – Acetal	.69	.50	.05
Coupling Bodies – ABS	.69	.30	.02

Panel Mount Opening Dimensions

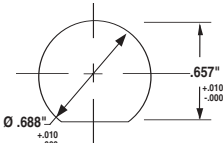
PMC Series

Greenlee® punch number 60077



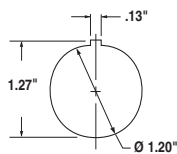
PLC and APC Series

Maximum Panel Thickness: 1/2"
Minimum Panel Thickness: 0.02"



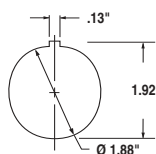
Sixtube™

Panel Thickness: 1/8"
Diameter Hole: 1.2"



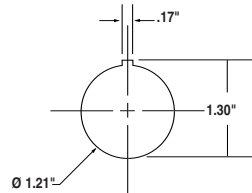
Tentube®

Panel Thickness: 7/16"
Diameter Hole: 1.875



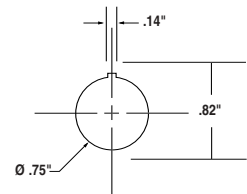
HFC/FFC Series

Gasket Thickness: .06"
Mounting Hole: 1.21" diameter
Coupling Spacing: 1.62" minimum
Panel Thickness: .25"



EFC Series

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



PLEASE NOTE: Not all of the products listed in this catalog are available for immediate shipment. Some products may require a setup charge unless minimum order quantities are met. Please contact your distributor or CPC for further details or to determine availability.



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Material Specifications/Regulatory Approvals/ CPC Warranty Statement

Material Specifications for Standard CPC Couplings

	NS4, NS6	NSH	EFC12, HFC12 PMC12, PLC12	APC	FFC35, HFC35, HFC57	MC AND LC CHROME- PLATED BRASS	FL	PMC, PLC TWIN TUBE™	SIXTUBE™	TENTUBE®
Main Components	Glass-Filled Polypropylene	Glass-Filled Polypropylene	Polypropylene	Acetal	Polysulfone	Brass-Nickel/Chrome Plated	Aluminum	Acetal	Acetal	Nylon
Latch	Glass-Filled Polypropylene	Glass-Filled Polypropylene	301 SST	Acetal or Polypropylene	Polysulfone	301 SST	301 SST	301 SST	Acetal	Acetal
Locking Pin	N/A	N/A	303 SST	N/A	N/A	303 SST	303 SST	303 SST	N/A	N/A
Valve	Glass-Filled Polypropylene	Glass-Filled Polypropylene	Polypropylene	Acetal	Polysulfone	Acetal	Aluminum	Acetal	Acetal	Acetal
External Springs	316 SST	316 SST	302/316 SST	302 SST	316 SST	302 SST	302/304 SST	302 SST	316 SST	N/A
Valve Springs	316 SST	316 SST	316 SST	316 SST	316 SST	316 SST	302 SST	316 SST	316 SST	316 SST
Panel Nut	Glass-Filled Polypropylene	Glass-Filled Polypropylene	Brass-Nickel Plated or Polypropylene	N/A	Polysulfone	Brass-Nickel Plated	N/A	Brass-Nickel Plated	N/A	Acetal
PTF Nut	N/A	N/A	Brass-Nickel Plated	Brass-Nickel Plated	N/A	Brass-Chrome Plated	N/A	Brass-Nickel Plated	N/A	N/A
O-Ring	EPDM	EPDM	EPDM	Buna-N	70 Durometer Food Grade Buna-N, EPDM	Buna-N	Fluorocarbon	Buna-N	EPDM	EPDM
O-Ring Lube	Krytox® PFPE	Krytox® PFPE	Silicone Food Grade	Silicone Food Grade	Silicone Food Grade	Silicone Food Grade	Silicone Food Grade	Silicone Food Grade	Silicone Food Grade	Silicone Food Grade

Regulatory Approvals for CPC Products

FDA and USDA

The U.S. Food and Drug Administration publishes, through the Code of Federal Regulations, standardized criteria which govern the acceptability of materials used in food contact. The U.S. Department of Agriculture publishes similar standards that mirror F.D.A. criteria. Neither agency approves or disapproves products for particular applications.

Most CPC products are made using resins that comply with applicable F.D.A. or U.S.D.A. standards. When necessary, the standard o-ring seals are replaced with specific, recognized materials. Contact CPC Customer Service for specific details regarding your application.

NSF

NSF International, based in Ann Arbor, Michigan, develops and publishes consensual criteria that govern the acceptability of materials and equipment used in food and beverage processing. They also do testing to verify the performance of materials or devices to their published criteria.

CPC lists many of its product lines under the criteria of NSF Standard C-2, which governs components used in food and beverage contact applications.

Contact CPC Customer Service for specific details regarding your application.

ISO 9001 Certification

ISO 9001 is a standard which assures consistency of a product ordered by customers. Organizations having ISO 9001 certification have demonstrated compliance to the ISO 9001 requirements by an independent registration authority.

Colder Products Company's Quality Management System has been approved and certified under the ISO 9001 standard. Contact CPC Quality Management for more information.

Colder Products Company Warranty Statement

CPC Warranty Statement: Colder Products Company warrants its products against defects in workmanship and materials a period of 12 months from the date of sale by Colder Products Company to its initial customer (regardless of any subsequent sale of the products). This warranty is void if the product is misused, altered, tampered with or is installed or used in a manner that is inconsistent with Colder Product Company's written recommendations, specifications and/or instructions, or fails to perform due to normal wear and tear. Colder Products Company does not warrant the suitability of the product for any particular application. Determining product application suitability is solely the customer's responsibility. Colder

Products Company is not liable for special, indirect, incidental, consequential or other damages including, but not limited to, loss, damage, personal injury, or any other expense directly or indirectly arising from the use of or inability to use its products either separately or in combination with other products. ALL OTHER WARRANTIES EXPRESS OR IMPLIED, WHETHER ORAL, WRITTEN OR IN ANY OTHER FORM, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY EXCLUDED.

The sole and exclusive remedy under this warranty is limited, at the option of Colder

Products Company, to replacement of the defective product or an account credit in the amount of the original selling price. All allegedly defective Colder Products Company products must be returned prepaid transportation to Colder Products Company, together with information describing the product's application and performance, unless otherwise authorized in writing by Colder Products Company.

Still Looking for That Perfect Solution?

Even after 60 pages of quick disconnect couplings, we know you still may not have found the precise part you need. That's why, for more than 25 years, CPC's Application Engineering Team has worked with customers around the world to design custom coupling solutions to solve their specific problems and improve their products' performance.

CPC has solid modeling capabilities, prototype equipment, an expansive test lab, and thousands of solutions. Combine that with our years of experience and a "can do" attitude, and there is no need for you to design your solution alone.

Consider a Custom-Designed Connector When:

- A quick disconnect will add value to your product, making it easier to use and more reliable
- Your requirements cannot be met by an existing standard CPC product
- Unique requirements, budgets or timing warrant your designer's collaboration with CPC's Application Engineering Team

Remember, standard catalog items generally have the advantage of quick availability and many times, lower cost, with no initial investment of time or money. However, depending on your volumes and technical requirements, it may make sense to work with our Application Engineering Team to design a unique solution tailored for your 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 couplings.

Getting Started with CPC's Application Engineering Team is Easy

- 1 Discuss the project with your CPC distributor.** After you've reviewed the multitude of products already available and determined that you need a custom solution, you engage CPC's Application Engineering Team by contacting your local authorized CPC distributor. Make sure to provide as much information as possible about the application, the problem that needs to be solved, and the technical requirements of the connector. Don't forget to include test requirements, packaging details and quality requirements.
- 2 The project is then forwarded to CPC.** Your distributor then submits the project to CPC's Application Engineering Team who reviews the project and develops a solution — balancing the technical requirements and product costs. We work on hundreds of projects a year and take advantage of existing designs, tooling and equipment whenever possible.
- 3 After a thorough review, CPC provides a detailed recommendation.** We work with your project team to develop a solution that meets your needs, and then respond with a quotation and proposal. Prior to the final quotation we may forward models or prints, and prototypes if necessary, for your evaluation.



Engineering

Prototype




Final Product



Working with CPC's Application Engineering Team is like expanding your internal design and engineering departments.



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



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CPC Patent Statement:

Colder Products Company takes pride in its innovative quick disconnect coupling solutions, many of which have been awarded United States and International patents. Colder Products Company has a strong tradition of leadership in the quick disconnect market, and aggressively pursues and protects its proprietary information and intellectual property. In cases where it is practical and as a benefit to its customers, Colder Products Company has licensed its proprietary technology. Please contact Colder Products to discuss your unique needs.

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The sole and exclusive remedy under this warranty is limited, at the option of Colder Products Company, to replacement of the defective product or an account credit in the amount of the original selling price. All allegedly defective Colder Products Company products must be returned prepaid transportation to Colder Products Company, together with information describing the product's application and performance, unless otherwise authorized in writing by Colder Products Company.