SMC SERIES CONNECTOR



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

The SMC Series is also available with optional RFID (Radio Frequency Identification) capability (page 98) and in polycarbonate material (page 102).

FEATURESBENEFITSTwist to connectPrevents accidental disconnectsFree coupling rotationEliminates kinked tubingQuarter turn latch clicks when connectedPrevents damage due to over torquing

6.62

4.83

4.14 (**leq**) d 3.45 d ♥

2.76 **doy** 2.07 **d**

1.38 0.69 DKESSURE





PRESSURE:

Vacuum to 100 psi, 6.9 bar

TEMPERATURE:

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

Polypropylene: 32°F to 180°F (0°C to 82°C) ABS:

-40°F to 160°F (-40°C to 71°C)

MATERIALS:

Main Components: ABS, acetal, polypropylene, chrome-plated brass, stainless steel

Locking sleeves: Acetal

Valves: Acetal

Valve spring: 316 stainless steel

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

COLOR:

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

TUBING SIZES:

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

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

Polycarbonate SMC products manufactured in CPC's cleanroom also available.

«

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

1.25 1.50 1.75

SMC Water Flow

Flow (lpm) 2.84 3.78

.75 1.00 Flow (gpm)

(isd) 4 ∇ 50

40 30

DRESSURE 10

.25

.50

4 73

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

C_V VALUES FOR SUBMINIATURE COUPLINGS

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



 \mathbf{Q} = Flow rate in gallons per minute

- $\mathbf{C}_{\mathbf{v}} = Average coefficient$ across various flow rates (see chart)
- **ΔP**= Pressure drop across coupling (psi)

S = Specific gravity of liquid



SMC DIMENSIONS



Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAX. – MIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES	7/16	.21 – .03	1/2	7/16-24UNF
COUPLING INSERTS	7/16	.21 – .03	1/2	7/16-24UNF

A = Height/Diameter B = Total Length C = Hex Size on Main Component

Coupling Bodies • ACETAL



• POLYPROPYLENE

	TERMINATION IN-LINE PIPE THREAD	<i>tubing/ thread size</i> 1/8" NPT	METRIC EQ.	<i>Straight Thru</i> SMPT0212	A .51	B .86	C 7/16
A SUM	IN-LINE HOSE BARB (Acetal Locking Sleeve)	1/16" ID 1/8" ID	1.6mm ID 3.2mm ID	SMF0112 SMF0212	.48 .48	.75/.90 .90	
ST.	PANEL MOUNT HOSE BARB (Acetal Locking sleeve)	1/16" ID 1/8" ID	1.6mm ID 3.2mm ID	SMFPM0112 SMFPM0212	.58 .58	.75/.90 .90	1/2 1/2
DE	IN-LINE HOSE BARB	1/16" ID 1/8" ID	1.6mm ID 3.2mm ID	iSMFT0100 iSMFT0200	.76 .76	.76 .91	

SMF1 Disposable Bodies • ABS

TERMINATION IN-LINE HOSE BARB	TUBING/ THREAD SIZE 1/8" ID 1/8" ID	METRIC EQ. 3.2mm ID 3.2mm ID 5mm ID 5mm ID	<i>STRAIGHT THRU</i> SMF10297 SMF10297MBLK SMF1M597 SMF1M597MBLK	(A) .38 .42 .42 .42	B .82 .69 .69	
				XAZXX	/\/_X	

CPC has added a proprietary lubrication step to our SMF1 manufacturing process. This revolutionary technique allows the lube to be placed only where you need it, ensuring consistent connection forces throughout the lifetime of the connectors even when aggressive cleaning techniques are used.

Coupling Inserts

• ACETAL

	TERMINATION IN-LINE HOSE BARB	<i>TUBING/ THREAD SIZE</i> 1/16" ID 1/16" ID 1/8" ID 1/8" ID	METRIC EQ. 1.6mm ID 3.0mm ID 3.0mm ID 3.2mm ID 3.2mm ID 4.0mm ID	STRAIGHT THRU SMM01 SMM01MBLK SMMM3 SMMM3MBLK SMM02 SMM02MBLK SMM04	.48 .48 .48 .48 .48 .48 .48 .48 .48 .48 .48 .48 .48	B .75 .75 .80 .80 .90 .90 1.02
3	PANEL MOUNT HOSE BARB	1/16" ID 1/16" ID	5.0mm ID 1.6mm ID 1.6mm ID 3.0mm ID 3.0mm ID 2.2mm ID	SMMM5 SMMPM01 SMMPM01BLK SMMPMM3 SMMPMM3BLK SMMPMM2		.75 .75 .80 .80
RETD	IN-LINE HOSE BARB (Acetal Locking Sleeve)	1/8 ID 1/8" ID 1/16" ID 1/8" ID	3.2mm ID 3.2mm ID 1.6mm ID 3.2mm ID	ISMMTM02 SMMPM02BLK ISMMT0100 ISMMT0200	.50 .50 .76 .76	.90 .90 .76 .91

• CHROME-PLATED BRASS

AL A	TERMINATION IN-LINE HOSE BARB	<i>tubing/ thread size</i> 1/8" ID	<i>METRIC EQ.</i> 3.2mm ID	<i>straight thru</i> Smm02CBMBLK	(A) .48	B .90
AP.	PANEL MOUNT HOSE BARB	1/8" ID	3.2mm ID	SMMPM02CBBLK	.50	.90

• POLYPROPYLENE

TERMINATION IN-LINE HOSE BARB (Acetal Locking Sleeve)	<i>Tubing/ Thread Size</i> 1/16" ID 1/8" ID	<i>METRIC EQ.</i> 1.6mm ID 3.2mm ID	STRAIGHT THRU SMM0112 SMM0212	• .48 .48	B .75 .90
PANEL MOUNT HOSE BARB (Acetal Locking Sleeve)	1/16" ID 1/8" ID	1.6mm ID 3.2mm ID	SMMPM0112 SMMPM0212	.50 .50	.75 .90
IN-LINE HOSE BARB (Acetal Locking Sleeve)	1/16" ID 1/8" ID	1.6mm ID 3.2mm ID	iSMMT0103 iSMMT0203	.76 .76	.76 .91

SMC Complete In-Line Couplings

TERMINATION

HOSE BARB

IN-LINE

• ACETAL

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

STRAIGHT THRU

SMC0112

SMC0212

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

METRIC EQ.

1.6mm ID

3.2mm ID

TUBING/ THREAD SIZE

1/16" ID 1/8" ID **B** 1.32

1.61

SNAPQUIK SERIES CONNECTOR



PRESSURE:

Vacuum to 15 psi, 1.0 bar

TEMPERATURE: 32°F to 122°F (0°C to 50°C)

MATERIALS:

Main components: Acetal O-ring: Buna-N

COLOR:

Natural White

TUBING SIZES:

3/32" and 1/8" ID

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

SnapQuik® Series Connectors are ideal for small bore applications. The compact design delivers high flow fluid transfer in a small profile. Featuring a unique internal latching mechanism that creates a smooth, streamlined exterior that is easy to clean and use. The user-friendly break away design of SnapQuik prevents misconnections with luers, protects equipment and ensures patient safety.

FEATURES	BENEFITS
Break away latch	Intuitive, rapid disconnection
Internal latch design	Streamlined exterior is easy to clean
Audible click at connection	Assures reliable connection is made
Does not mate to luer fittings	Improved patient safety
SnanQ	uik's

Flow (lpm) 1.14 0.76 1.51 1.70 0.57 .10 0.97 14 PRESSURE DROP, A P (psi) 12 10 0.41 0.15 0.20 0.30 Flow (gpm) 0.35 0.45 0.25 0.40

SnapQuik Water Flow





^

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

cleaning techniques are

SNAPQUIK DIMENSIONS



Coupling Bodies • ACETAL



Coupling Inserts • ACETAL

TERMINATION IN-LINE HOSE BARB	TUBING SIZE 3/32" ID 1/8" ID	<i>METRIC EQ.</i> 2.4mm 3.2mm	STRAIGHT THRU BSQ22015 BSQ2202	0.42 0.42	B 1.14 1.14	
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All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.

DID YOU KNOW?

AN ALTERNATIVE TO LUERS

An alternative to luers, SnapQuik® will not mate with luers designed to the ISO 594 standards

NS1 SERIES CONNECTOR



Specifications • • •

PRESSURE:

Vacuum to 15 psi, 1.0 bar

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

MATERIALS:

Main Components: Glass-filled polypropylene, PEEK[®], polypropylene Thumb latch: PEEK[®] Springs: 316 stainless steel O-rings: EPDM

COLOR: Gray

TUBING SIZES:

Microbore to 1/8" ID (Microbore to 3.2mm)

SPILLAGE:

0.02 cc per disconnect rated @ 15 psi

INCLUSION: 0.01 cc per connect

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

NS1 Series couplings compact design is packed full of features including non-spill shutoff valves that ensure drip-free disconnects, and eliminate the need to purge air from the system. The smallest plastic non-spill coupling on the market, NS1 is perfect for applications with tubing from 1/8-inch and smaller. Its rotating design allows tubing to move freely without kinks. Ideal for applications that need to be connected and disconnected often, the ergonomic, user-friendly interface enables a secure, reliable connect and disconnect.

FEATURES	BENEFITS
Non-spill design	Closed system for drip-free disconnect
Ultra low air inclusion	Minimizes contaminants, eliminates the need to purge air bubbles from the system
Intuitive interface	User friendly ergonomic design enables a secure, reliable connection
Rotating design	Allows tubing to move freely or relax without kinking or leaking
Chemically resistant materials	Reliable strength and performance in a range of applications

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



NS1 SERIES DIMENSIONS



	PANEL OPENING	PANEL THICKNESS MAX. – MIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING INSERTS	see drawing	.29 – .05	5/8	1/2-24UNS
COUFLING INSERIS	See undwillig	.2903	5/6	1/2-2401
		-		Greenlee® nu

Coupling Bodies • POLYPROPYLENE

DES IN-I HOS	SCRIPTION LINE SE BARB	<i>TUBING SIZE</i> 1/8" ID	METRIC EQ. 3.2 MM ID	SHUTOFF NS1D170212	A 0.61	B 1.33
IN 1/4- Bot	LINE WITH A -28 FLAT TTOM PORT	1/8" OD OR SMALLER*	3.2 MM OD OR SMALLER*	NS1D19042812	0.61	1.21
IN 1/4- THR	LINE WITH A 1-28 MALE READ			NS1D10042812	0.61	1.28

Coupling Inserts • POLYPROPYLENE

	<i>DESCRIPTION IN-LINE HOSE BARB</i>	<i>tubing size</i> 1/8" ID	METRIC EQ. 3.2 MM ID	<i>Shutoff</i> NS1D220212	A 0.44	B 1.04
0500	IN-LINE WITH A 1/4-28 FLAT BOTTOM PORT	1/8" OD OR SMALLER*	3.2 MM OD OR SMALLER*	NS1D26042812	0.44	0.92
A D	IN-LINE WITH A 1/4-28 MALE THREAD			NS1D24042812	0.49	0.99
m	PANEL MOUNT Hose Barb	1/8" ID	3.2 MM ID	NS1D420212	0.70	1.56
m	PANEL MOUNT WITH A 1/4-28 FLAT BOTTOM PORT	1/8" OD OR SMALLER*	3.2 MM OD OR SMALLER*	NS1D48042812	0.70	1.45

*Tubing size dependent on nut and ferrule used with 1/4-28 port.





PMC SERIES CONNECTOR



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/disconnection and integral terminations make the PMC the choice for ease of use and manufacture.

This coupling is NuSeal® compatible (see page 27 for details).

FEATURES	BENEFITS		
Hose barb shroud	Extra protection for the 1/16" hose barb		
Integral terminations	Fewer leak points, shorter assemblies, faster installations		
Compatible	Mates with PMC12 and MC Series couplings (see pages 30 and 34)		
Clicks when connected	Assurance of a reliable connection		





Specifications • • •

PRESSURE:

Vacuum to 120 psi, 8.3 bar

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

MATERIALS:

Main components and valves: Acetal Thumb latch: Stainless steel Valve spring: 316 stainless steel External springs and pin: Stainless steel O-rings: Buna-N

COLOR:

Natural white, others available

TUBING SIZES:

1/16" to 1/4" ID, 1.6mm to 6.4mm ID

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

Also available in NSF listed versions. Please visit our website for part number information.

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



Infiltec GmbH - Innovative Kupplungssysteme für das Gas- und Flüssigkeitshandling

NU-SEAL® QUICK DISCONNECT COUPLING

Nu-Seal® Specifications

PRESSURE: Vacuum to 20 psi, 1.4 bar

MATERIALS: Main components: Low density polyethylene

COLOR:

Translucent

TUBING SIZE: 1/8" ID, 3.2mm ID

Nu-Seal® quick disconnect coupling inserts feature a

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

FEATURES	BENEFITS
Patented integral seal	Economical, allows for disposability and provides leak-free connections
Low density polyethylene	Sterilizable by Et0, E-beam & gamma
Chemically resistant	Works in many critical USP Class VI material applications
Compatible	Mates with MC, PMC, PMC12 couplings

59	TERMINATION IN-LINE HOSE BARB	<i>Tubing Size</i> 1/8" ID	<i>METRIC EQ.</i> 3.2 mm ID	Part no. DSM2202	HEIGHT .50	LENGTH .98
Contraction of the						

Liquid Flow Rate Information for Couplings

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

Cv VALUES FOR 1/8" FLOW PMC COUPLINGS

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



Q = Flow rate in gallons per minute

 C_v = Average coefficient across various

 $\begin{array}{l} \mbox{flow rates (see chart)} \\ \Delta P = \mbox{ Pressure drop across coupling (psi)} \\ S &= \mbox{ Specific gravity of liquid} \end{array}$

PMC DIMENSIONS



Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAX. – MIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES	see drawing	.50 – .05	5/8	1/2-24UNS
COUPLING INSERTS	1/2	.30 – .05	5/8	1/2-24UNS



Greenlee® punch number 60077

Coupling Bodies • ACETAL

PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	5/32" OD, .10" ID 1/4" OD, .17" ID	4.0mm OD, 2.0mm ID 4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID	PMC12M42 PMC12025 PMC1204	PMCD12M42 PMCD12025 PMCD1204		1.65 1.70 1.72
PANEL MOUNT HOSE BARB	1/16" ID 1/8" ID 3/16" ID 1/4" ID	1.6mm ID 3.2mm ID 4.8mm ID 6.4mm ID	PMC1601 PMC1602 PMC1603 PMC1604	PMCD1601 PMCD1602 PMCD1603 PMCD1604	.77 .77 .77 .77	1.40 1.65 1.85 1.85
PANEL MOUNT FEMALE THREAD	10-32 UNF		PMC181032	PMCD181032	.77	1.25
IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	5/32" OD, .10" ID 1/4" OD, .17" ID	4.0mm 0D, 2.0mm ID 4.0mm 0D, 2.5mm ID 5.0mm 0D, 3.0mm ID 6.4mm 0D, 4.3mm ID	PMC13M42 PMC13025 PMC13M5 PMC1304	PMCD13M42 PMCD13025 PMCD13M5 PMCD1304	.81 .81 .81 .81 .81	1.65 1.65 1.72 1.75
IN-LINE HOSE BARB	1/16" ID 1/8" ID 3/16" ID 1/4" ID	1.6mm ID 3.2mm ID 4.8mm ID 6.4mm ID	PMC1701 PMC1702 PMC1703 PMC1704	PMCD1701 PMCD1702 PMCD1703 PMCD1704	.81 .81 .81 .81	1.41 1.45/1.65 1.65/1.85 1.65/1.85
N-LINE TEMALE THREAD			PMC191032	PMCD191032	.81	1.25

Coupling Inserts • ACETAL

	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/8" NPT 1/8" BSPT 1/4" NPT 1/4" BSPT	METRIC EQ.	STRAIGHT THRU PMC2402 PMC2402BSPT PMC2404 PMC2404BSPT	SHUTOFF PMCD2402 PMCD2402BSPT PMCD2404 PMCD2404BSPT	 A .58 .58 .65 .65 	B 1.03/1.45 1.03/1.44 1.13/1.42 1.13/1.42	0
	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF† (non-valved shown)	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	PMC4004	PMCD4004	.72	1.70/1.82	
2	PANEL MOUNT HOSE BARB	1/16" ID 1/8" ID 3/16" ID 1/4" ID	1.6mm ID 3.2mm ID 4.8mm ID 6.4mm ID	PMC4201 PMC4202 PMC4203 PMC4204	PMCD4201 PMCD4202 PMCD4203 PMCD4204	.72 .72 .72 .72 .72	1.38/1.50 1.63/1.75 1.83/1.95 1.83/1.95	
1 A	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	5/32" OD, .10" ID 1/4" OD, .17" ID 3/8" OD, .25" ID	4.0mm OD, 2.0mm ID 4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	PMC20M42 PMC20025 PMC2004 PMC2006	PMCD20M42 PMCD20025 PMCD2004 PMCD2006	.58 .58 .58 .65	1.08/1.60 1.13/1.65 1.15/1.57 1.40/1.52	
	IN-LINE HOSE BARB (non-valved shown)	1/16" ID 1/8" ID 3/16" ID 1/4" ID	1.6mm ID 3.2mm ID 4.8mm ID 6.4mm ID	PMC2201 PMC2202 PMC2203 PMC2204	PMCD2201 PMCD2202 PMCD2203 PMCD2204	.50 .50 .50 .50	.80/1.47 1.00/1.67 1.20/1.88 1.22/1.70	
	IN-LINE FEMALE THREAD	10-32 UNF		PMC281032	PMCD281032	.58	.63/1.31	
	ELBOW FERRULELESS POLYTUBE FITTING, PTF†	5/32" OD, .10" ID 1/4" OD, .17" ID	4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID	PMC21025 PMC2104	PMCD2104	.50 .50	1.17 1.17/1.21	.75 .77
	ELBOW HOSE BARB (non-valved shown)	1/8" ID 1/4" ID	3.2mm ID 6.4mm ID	PMC2302 PMC2304	PMCD2302 PMCD2304	.50 .50	.85/1.21 1.00/1.21	.75/.69 .95/.90

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

PMC12 SERIES CONNECTOR



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

Spe	cific	ations			
opo	00	u (10110	—	—	

PRESSURE:

Vacuum to 120 psi, 8.3 bar

TEMPERATURE: 32°F to 160°F (0°C to 71°C)

MATERIALS:

Main components and valves: Polypropylene Thumb latch: Stainless steel Valve spring: 316 stainless steel External spring and pin: Stainless steel O-rings: EPDM

STERILIZATION:

Gamma: Up to 50 kGy irradiation

COLOR: Almond

TUBING SIZES:

Microbore to 1/4" ID, Microbore to 6.4mm ID

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

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





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





Liquid Flow Rate Information for Couplings

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

C_v values for 1/8" flow pmc12 couplings





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

S = Specific gravity of liquid

PMC12 DIMENSIONS



Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAX. – MIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES	see drawing	.50 – .05	5/8	1/2-24UNS
COUPLING INSERTS	see drawing	.30 – .06	5/8	1/2-24UNS



Coupling Bodies • POLYPROPYLENE

() ()	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/8" NPT 1/8" BSPT 1/4" NPT 1/4" BSPT	METRIC EQ.	STRAIGHT THRU PMC100212 PMC100212BSPT PMC100412 PMC100412BSPT	SHUTOFF PMCD100212 PMCD100212BSPT PMCD100412 PMCD100412BSPT	A .88 .88 .88 .88	B 1.00 1.00 1.10 1.10
NU P	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	PMC120412	PMCD120412	.79	1.72
17)	PANEL MOUNT HOSE BARB	1/16" ID 1/8" ID 1/4" ID	1.6mm ID 3.2mm ID 6.4mm ID	PMC160112 PMC160212 PMC160412	PMCD160112 PMCD160212 PMCD160412	.88 .88 .88	1.40 1.65 1.85
P P	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	PMC130412	PMCD130412	.89	1.74
50	IN-LINE HOSE BARB	1/16" ID 1/8" ID 1/4" ID	1.6mm ID 3.2mm ID 6.4mm ID	PMC170112 PMC170212 PMC170412	PMCD170112 PMCD170212 PMCD170412	.89 .89 .89	1.42 1.67 1.87

PMC12 1/4-28 Coupling Bodies • POLYPROPYLENE

TERMINATION PANEL MOUNT WITH A 1/4-28 FLAT BOTTOM PORT	Shutoff PMCD18042812	(A) 0.88	B 1.57	
IN-LINE WITH A 1/4-28 FLAT BOTTOM PORT	PMCD19042812	0.89	1.57	

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

Coupling Inserts • POLYPROPYLENE

	TERMINATION IN-LINE PIPE THREAD	<i>tubing/thread size</i> 1/8" NPT	METRIC EQ.	<i>Straight thru</i> PMC240212	<i>Shutoff</i> PMCD240212	A .58	B 1.03/1.45	D
(de	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	PMC200412	PMCD200412	.58	1.15/1.58	
20	IN-LINE HOSE BARB (non-valved shown)	1/16" ID 1/8" ID 1/4" ID	1.6mm ID 3.2mm ID 6.4mm ID	PMC220112 PMC220212 PMC220412	PMCD220112 PMCD220212 PMCD220412	.50 .50 .50	.80/1.47 1.05/1.67 1.20/1.71	
MP.	IN-LINE STRAIGHT THREAD PORT SAE	5/16 SAE-5		PMC24082012	PMCD24082012	.72	1.05/1.15	
	ELBOW FERRULELESS POLYTUBE FITTING, PTF†	5/32" OD, .10" ID 1/4" OD, .17" ID	4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID	PMC2102512 PMC210412	PMCD2102512 PMCD210412	.50 .50	1.09/1.21 1.17/1.21	.77 .77
~	ELBOW HOSE BARB	1/8" ID 1/4" ID	3.2mm ID 6.4mm ID	PMC230212 PMC230412	PMCD230212 PMCD230412	.50 .50	1.09/1.21 1.09/1.21	.69 .90

PMC12 1/4-28 Coupling Inserts • POLYPROPYLENE

	TERMINATION IN-LINE WITH 1/4-28 UNF THREADS	<i>Straight</i> PMC24042	THRU SHUTOFF 812 PMCD24042	(A) 812 .50	B 1.48	
, M	PANEL MOUNT WITH A 1/4-28 FLAT BOTTOM PORT		PMCD48042	812 .72	1.55	

Nuts



Ferrules

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

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

MC SERIES CONNECTOR



CPC's MC Series chrome-plated brass couplings are

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

FEATURES	BENEFITS
Brass material	Durable and able to withstand higher pressure and temperature
High temperature capability	Versions rated to 400°F (204°C)
CPC thumb latch	One-hand connection and disconnection
Compatible	MC mates with PMC and PMC12 Series couplings







PRESSURE:

Vacuum to 250 psi, 17.3 bar

TEMPERATURE:

-40°F to 180°F (-40°C to 82°C) (High temperature versions available with ratings to 400°F)

MATERIALS:

Main components: Chrome-plated brass Thumb latch: Stainless steel Valves: Acetal Valve spring: 316 stainless steel External springs and pin: Stainless steel O-rings: Buna-N

FINISH: Chrome

TUBING SIZES:

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

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



DID YOU KNOW?



Liquid Flow Rate Information for Couplings

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

C_v values for 1/8" flow MC couplings



- \mathbf{Q} = Flow rate in gallons per minute
- C_v = Average coefficient across various
- flow rates (see chart) ΔP = Pressure drop across coupling (psi)
- **S** = Specific gravity of liquid

BODIES INSERTS	MC12 2004	MCD12 2004	MC12 2006	MCD12 2006	MC12 2202	MCD12 2202	MC12 2204	MCD12 2204	MC12 2402	MCD12 2402	MC12 2404	MCD12 2304	MC12 2602	MCD12 2304	MC12 2104	MCD12 2304	MC12 2203	MCD12 2203
MC100212	.40	.18	.50	.19	.25	.16	.50	.19	.50	.20	.51	.19	.50	.50	.38	.24	.30	.17
MCD100212	.27	.18	.31	.18	.24	.16	.28	.20	.26	.20	.29	.18	.26	.26	.27	.24	.25	.17
MC100412	.40	.21	.50	.24	.26	.18	.50	.24	.50	.20	.51	.24	.50	.50	.38	.26	.30	.19
MCD100412	.29	.19	.32	.23	.25	.17	.30	.23	.27	.21	.28	.23	.27	.28	.29	.24	.25	.183
MC120412	.40	.18	.50	.18	.25	.16	.40	.18	.40	.16	.36	.18	.40	.40	.38	.21	.30	.173
MCD120412	.21	.17	.22	.17	.20	.16	.22	.17	.21	.17	.20	.17	.21	.22	.21	.18	.21	.16
MC160212	.23	.15	.28	.18	.19	.14	.27	.15	.27	.15	.28	.18	.27	.27	.23	.16	.20	.14
MCD160212	.19	.15	.19	.15	.17	.14	.19	.15	.18	.15	.18	.15	.18	.19	.19	.15	.18	.14
MC160412	.33	.23	.44	.24	.24	.18	.44	.23	.44	.20	.38	.24	.38	.44	.33	.26	.26	.19
MCD160412	.23	.17	.26	.21	.22	.16	.26	.21	.26	.19	.25	.21	.21	.26	.23	.24	.22	.16
MC170312	.25	.20	.30	.20	.20	.17	.30	.20	.30	.19	.28	.20	.28	.30	.25	.18	.21	.17
MCD170312	.20	.17	.20	.17	.19	.15	.21	.17	.19	.17	.20	.17	.19	.20	.20	.16	.19	.16

MC DIMENSIONS



Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAX.–MIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES (except male thread)	see drawing	.50 – .05	5/8	1/2-24UNS
MALE THREAD	see drawing	.21 – .06	5/8	1/2-24UNS
COUPLING INSERTS	see drawing	.30 – .06	5/8	1/2-24UNS



Coupling Bodies • CHROME-PLATED BRASS

FF	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/8" NPT 1/8" BSPT 1/4" NPT 1/4" BSPT	METRIC EQ.	STRAIGHT THRU MC1002 MC1002BSPT MC1004 MC1004BSPT	SHUTOFF MCD1002 MCD1002BSPT MCD1004 MCD1004BSPT	(A) .76 .76 .76 .76	B 1.00 1.00 1.10 1.10
EPT	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	5/32" OD, .10" ID 1/4" OD, .17" ID	4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID	MC12025 MC1204	MCD12025 MCD1204	.76 .76	1.67 1.77
of I'm	PANEL MOUNT HOSE BARB	1/8" ID 3/16" ID 1/4" ID	3.2mm ID 4.8mm ID 6.4mm ID	MC1602 MC1603 MC1604	MCD1602 MCD1603 MCD1604	.76 .76 .76	1.67 1.89 1.89
11 N	PANEL MOUNT FEMALE THREAD	10-32 UNF		MC181032	MCD181032	.76	1.22
(T)	PANEL MOUNT MALE THREAD	1/8" NPT		MC1502	MCD1502	.76	1.20
Trad?	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	MC1304	MCD1304	.76	1.77
	IN-LINE Hose Barb	1/8" ID 3/16" ID 1/4" ID	3.2mm ID 4.8mm ID 6.4mm ID	MC1702 MC1703 MC1704	MCD1702 MCD1703 MCD1704	.76 .76 .76	1.67 1.89 1.89

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

Coupling Inserts • CHROME-PLATED BRASS

1	TERMINATION IN-LINE PIPE THREAD (non-valved shown)	<i>TUBING/THREAD SIZE</i> 1/8" NPT 1/8" BSPT 1/4" NPT	METRIC EQ.	STRAIGHT THRU MC2402 MC2402BSPT MC2404	<i>Shutoff</i> MCD2402 MCD2402BSPT MCD2404	A .58 .58/.72 .65	B 1.03/1.43 1.03/1.43 1.08/1.43	0
C P	IN-LINE PIPE THREAD (FEMALE)	1/8" NPT Female 1/4" NPT Female 1/4" BSPP Female		MC2602 MC2604 MC2604BSPP	MCD2602 MCD2604 MCD2604BSPP	.58 .72 .72	.95/1.65 1.15/1.82 1.23/1.91	
e title	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	MC4004	MCD4004	.72	1.75/1.85	
The	PANEL MOUNT HOSE BARB	1/8" ID 3/16" ID 1/4" ID	3.2mm ID 4.8mm ID 6.4mm ID	MC4202 MC4203 MC4204	MCD4202 MCD4203 MCD4204	.72 .72 .72	1.65/1.75 1.87/1.97 1.87/1.97	
et a	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	5/32" OD, .10" ID 1/4" OD, .17" ID 3/8" OD, .25" ID	4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	MC20025 MC2004 MC2006	MCD20025 MCD2004 MCD2006	.58 .58 .58	1.13/1.53 1.15/1.55 1.30/1.50	
a p	IN-LINE HOSE BARB	1/8" ID 3/16" ID 1/4" ID	3.2mm ID 4.8mm ID 6.4mm ID	MC2202 MC2203 MC2204	MCD2202 MCD2203 MCD2204	.58 .58 .58	1.05/1.65 1.25/1.85 1.25/1.67	
01000	IN-LINE FEMALE THREAD	10-32 UNF		MC281032	MCD281032	.58	.63/1.30	
V	ELBOW FERRULELESS POLYTUBE FITTING, PTF†	5/32" OD, .10" ID 1/4" OD, .17" ID	4.0mm OD, 2.5mm ID 6.4mm OD, 4.3mm ID	MC21025 MC2104	MCD21025 MCD2104	.63 .63	1.18/1.28 1.18/1.28	.81 .83
	ELBOW HOSE BARB	1/8" ID 1/4" ID	3.2mm ID 6.4mm ID	MC2302 MC2304	MCD2302 MCD2304	.62 .63	1.18/1.28 1.18/1.28	.76 .76

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. †Note: CPC's Ferruleless PTF (polytube fitting) terminations do not require ferrules to achieve a secure connection and are

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

NS212 SERIES CONNECTOR



Specifications • • •

PRESSURE:

Vacuum to 45 psi, 3.1 bar

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

MATERIALS:

Main components: Glass-filled polypropylene Valve spring: 316 stainless steel

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

COLOR: Gray with black accent standard

TUBING SIZES:

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

SPILLAGE: <0.025 cc/disconnect

INCLUSION: 0.009 cc/connect

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

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





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

FEATURES	BENEFITS
Efficient, non-spill design	Disconnect under pressure with no spills
Multiple seal materials	Broad chemical compatibility for diverse applications
Twist-to-connect locking	Easy, non-spill connections in tight spaces
Compact design	High flow in a small connector
Ultra low air inclusion	Minimizes contaminants, reduces the need to purge lines

NS212 DIMENSIONS



Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAXMIN.	$\left(\begin{array}{c} + \\ + \end{array} \right)$
COUPLING BODIES	see drawing	.30– .05	
			Ø.688"

Coupling Bodies • POLYPROPYLENE

0))	TERMINATION IN-LINE PIPE THREAD	<i>tubing</i> 1/8" NPT	METRIC EQ.	SHUTOFF NS2D100212	A .71	B 1.74
O Y	IN-LINE FERRULESS POLYTUBE FITTING, PTF†	1/4" OD, .17 ID	6.4mm OD, 4.3mm ID	NS2D130412	.71	1.87
0 7	IN-LINE HOSE BARB	1/8" ID 1/4" ID	3.2mm ID 6.4mm ID	NS2D170212 NS2D170412	.71 .71	1.87 2.05
off	PANEL MOUNT FERRULESS POLYTUBE FITTING, PTF†	1/4" OD, .17 ID	6.4mm OD, 4.3mm ID	NS2D120412	.88	1.87
M.	PANEL MOUNT HOSE BARB	1/8" ID 1/4" ID	3.2mm ID 6.4mm ID	NS2D160212 NS2D160412	.88 .88	1.79 2.05

Coupling Inserts • POLYPROPYLENE

	TERMINATION IN-LINE PIPE THREAD	<i>tubing size</i> 1/8" NPT	METRIC EQ.	<i>Shutoff</i> NS2D240212	(A) .64	B 1.27
(FI)	IN-LINE FERRULESS POLYTUBE FITTING, PTF†	1/4" OD, .17 ID	6.4mm OD, 4.3mm ID	NS2D200412	.64	1.39
D	IN-LINE HOSE BARB	1/8" ID 1/4" ID	3.2mm ID 6.4mm ID	NS2D220212 NS2D220412	.64 .64	1.32 1.52
		Acce	ssories			

The NS212 does not mate with NS2. Contact CPC for additional compatibility information.

DESCRIPTION PANEL MOUNT GASKET REPLACEMENT: For sealing panel mount bodies listed above MATERIALPART NO.Buna-N1830300

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

LQ2 SERIES CONNECTOR



The LQ2 Series provides ultra-reliable, dripless connections and disconnections that protect valuable electronics. Designed specifically for liquid cooling applications, the LQ2 offers a high-flow capacity to optimize liquid cooling system performance. LQ2 uses a CPC-designed valve technology that eliminates drips and is able to withstand long-term use.

FEATURES	BENEFITS
Color-coded thumb latch	Simple, intuitive one-handed operation with visual difference in cooling lines
High flow capacity	Cost-effective fluid handling system
Redundant multilobed seals	Protection against leakage and ability to withstand extended periods of connection
Locking hose barb	Quality connection with reinforced tubing used in liquid cooling applications



PRESSURE: Vacuum to 200 psi, 13.8 bar

TEMPERATURE: 0°F to 240°F (-17°C to 115°C)

MAXIMUM FLOW AT DISCONNECT:

 $1.00~{\rm gal/min}$ at $0-100~{\rm psi}$ $0.25~{\rm gal/min}$ at $101-200~{\rm psi}$

MATERIALS:

Main Components: Chrome-plated brass Valves and Thumb latch: Polysulfone Valve Springs (wetted): Stainless steel External springs and pin: Stainless steel Seals: EPDM

COLOR: Chrome with Cool Blue or Warm Red

TUBING SIZES:

1/4" ID (6.4mm ID)

LUBRICANTS: Krytox® PFPE

SPILLAGE:

<0.015 cc per disconnect at 0 psi <0.063 cc per disconnect rated at 200 psi

INCLUSION: <0.063 cc per connect

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





These graphs are intended to give you a general idea of the performance capabilities of each product line. Contact CPC for flow of a particular coupling combination

LQ2 SERIES DIMENSIONS



Coupling Bodies • CHROME-PLATED BRASS



TERMINATION IN-LINE LOCKING HOSE BARB	<i>TUBING/THREAD SIZE</i> ¼" ID	<i>METRIC EQ.</i> 6.4mm ID	SHUTOFF LQ2D1704LRED LQ2D1704LBLU	A 0.82	B 2.09	D
IN-LINE STRAIGHT THREAD PORT SAE	¼ SAE		LQ2D3004RED LQ2D3004BLU	0.82	1.72	
ELBOW LOCKING HOSE BARB	1⁄4" ID	6.4mm ID	LQ2D3304LRED LQ2D3304LBLU	1.54	1.64	1.03

Coupling Inserts • CHROME-PLATED BRASS



TERMINATION IN-LINE LOCKING HOSE BARB	<i>TUBING/THREAD SIZE</i> ¼" ID	<i>METRIC EQ.</i> 6.4mm ID	Shutoff LQ2D2204LRED LQ2D2204LBLU	A 0.562	B 1.96	D
IN-LINE STRAIGHT THREAD PORT SAE	¼ SAE		LQ2D4604RED LQ2D4604BLU	0.625	1.28	
ELBOW LOCKING HOSE BARB	1⁄4" ID	6.4mm ID	LQ2D2304LRED LQ2D2304LBLU	1.313	1.51	1.03

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





RPLQ4 Series quick disconnect couplings provide

ultra-reliable, dripless connections and disconnections that protect valuable electronics. Designed specifically for rack mounted liquid cooling applications, RPLQ4 utilizes patent-pending valve technology that eliminates drips and is able to withstand long-term use.

Specifications

PRESSURE: Vacuum to 120 psi, 8.3 bar

TEMPERATURE: 0°F to 240°F (-17°C to 115°C)

MAXIMUM FLOW AT DISCONNECT:

3.0 gal/min, 11.3L/min

ENGAGEMENT TOLERANCE

Coupling must be within $1/8^{\scriptscriptstyle \rm T}$ of fully engaged to achieve maximum flow.

MATERIALS:

Main housing components: Chrome-plated brass Valves: Polysulfone

Valve spring (wetted): Stainless steel Seals: EPDM

SEGIS: EFUI

COLOR: Chrome with Cool Blue or Chrome with Warm Red

THREAD SIZES: 1/4" to 3/8" NPT or SAE

LUBRICANTS: Krytox[®] PFPE

SPILLAGE:

0.025 cc per disconnect rated at 0 psi 0.055 cc per disconnect rated at 120 psi

INCLUSION: 0.025 cc per connect

FEATURES

Non-spill design Redundant sealing when connected Color-coding Friction-free valve

Ruggedness Axial engagement tolerance



BENEFITS

Disconnect under pressure with no spills Extra protection from leaks Instant visual difference in cooling lines Valving system designed for extended periods in connected state Able to withstand long-term, repeated use Valves designed to allow full flow even when not fully engaged





These graphs are intended to give you a general idea of the performance capabilities of each product line. Contact CPC for flow of a particular coupling combination.



Coupling Bodies • CHROME-PLATED BRASS

	TERMINATION RACK AND PANEL STRAIGHT THREAD PORT SAE	THREAD SIZE 1/4 SAE-04 1/4 SAE-04 3/8 SAE-06 3/8 SAE-06	METRIC EQ.	SHUT OFF RPLQ4D30004RED RPLQ4D30004BLU RPLQ4D30006RED RPLQ4D30006BLU	A 0.74 0.74 0.74 0.74 0.74	B 2.16 2.16 2.16 2.16 2.16
1	RACK AND PANEL PIPE THREAD	1/4" NPT 1/4" NPT 3/8" NPT 3/8" NPT		RPLQ4D10004RED RPLQ4D10004BLU RPLQ4D10006RED RPLQ4D10006BLU	0.74 0.74 0.74 0.74	2.18 2.18 2.18 2.18 2.18

Coupling Inserts • CHROME-PLATED BRASS

d)	TERMINATION RACK AND PANEL STRAIGHT THREAD PORT SAE	THREAD SIZE 1/4 SAE-04 1/4 SAE-04 3/8 SAE-06 3/8 SAE-06	METRIC EQ.	SHUT OFF RPLQ4D46004BLU RPLQ4D46004RED RPLQ4D46006BLU RPLQ4D46006RED	A 0.80 0.80 0.80 0.80 0.80	B 1.90 1.90 1.90 1.90
1	RACK AND PANEL PIPE THREAD	1/4" NPT 1/4" NPT 3/8" NPT 3/8" NPT		RPLQ4D24004RED RPLQ4D24004BLU RPLQ4D24006RED RPLQ4D24006BLU	0.80 0.80 0.80 0.80 0.80	1.92 1.92 1.92 1.92

PLC SERIES CONNECTOR



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

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 and PLC12 Series coupling







PRESSURE:

Vacuum to 120 psi, 8.3 bar

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

MATERIALS:

Main components and valves: Acetal Thumb latch: Stainless steel Valve spring: 316 stainless steel External springs and pin: Stainless steel O-rings: Buna-N

COLOR: Natural white, others available

TUBING SIZES:

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

JG® TUBING SPECIFICATIONS:

Tube tolerances: 1/4" OD, +0.001/-0.004 | 3/8" OD, +0.001/-0.004

Tube Types: Plastic tube: Polyethylene, nylon, polyurethane. For soft or thin wall tubing with JG[®] terminations, tube supports are recommended.

Metal tube: Brass, copper and mild steel

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

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



Decoding Coupling Options

Often times, it can be an overwhelming task to decipher which coupling best fits your application needs. The chart below helps to decode popular CPC couplings.

1/4" FLOW OPTIONS	PRIMARY MATERIAL	0-RING	APPLICATION BENEFITS
PLC	Acetal	Buna-N	General purpose plastic connector with metal latch
PLC12	Polypropylene	EPDM	Expanded chemical compatibility
LC	Chrome-Plated Brass	Buna-N	Higher operating temperature and pressure
APC	Acetal	Buna-N	Plastic thumb latch
BREAKAWAY®	Acetal	Buna-N	Breakaway latch
NS4	Glass-filled polypropylene	EPDM	Drybreak, non-spill connect and disconnect, even under pressure

Liquid Flow Rate Information for Couplings

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

C_v values for 1/4" flow plc couplings



 \mathbf{Q} = Flow rate in gallons per minute

 ΔP = Pressure drop across coupling (psi)

S = Specific gravity of liquid

BODIES INSERTS	PLC 20004	PLCD 20004	PLC 20006	PLCD 20006	PLC 22004	PLCD 22004	PLC 22006	PLCD 22006	PLC 24004	PLCD 24004	PLC 24006	PLCD 24006	PLC 26004
PLC10004	.40	.36	1.05	.58	.83	.56	1.40	.82	1.40	.75	1.40	.77	.83
PLCD10004	.36	.31	.73	.48	.66	.41	.82	.50	.80	.45	.77	.45	.81
PLC10006	.40	.36	1.05	.60	.83	.56	1.40	.81	1.40	.76	1.40	.76	.83
PLCD10006	.37	.31	.81	.47	.70	.43	1.02	.51	.98	.46	.99	.48	.98
PLC12006	.38	.36	.84	.63	.74	.56	1.14	.75	1.14	.70	1.14	.72	.74
PLCD12006	.38	.33	.78	.49	.68	.44	.84	.49	.81	.43	.82	.44	.81
PLC16004	.38	.37	.87	.54	.95	.51	1.00	.70	.95	.64	1.00	.66	.95
PLCD16004	.37	.31	.61	.44	.57	.41	.78	.44	.78	.43	.75	.46	.78
PLC16006	.38	.37	1.00	.57	.95	.53	1.40	.80	1.40	.71	1.40	.73	1.40
PLCD16006	.38	.32	.71	.49	.63	.42	.89	.51	.96	.45	.92	.49	.97

PLC DIMENSIONS



Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAX.–MIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES	see drawing	.50 – .05	13/16	11/16-24UNEF
COUPLING INSERTS	see drawing	.30 – .05	13/16	11/16-24UNEF



Coupling Bodies • ACETAL

¢	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT	METRIC EQ.	STRAIGHT THRU PLC10004 PLC10004BSPT PLC10006 PLC10006BSPT	SHUTOFF PLCD10004 PLCD10004BSPT PLCD10006 PLCD10006BSPT	(A) .90 .90 .90 .90	B 1.17 1.15 1.15 1.15 1.15
() e	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 8.0mm OD, 6.0mm ID 9.5mm OD, 6.4mm ID 10.0mm OD, 8.0mm ID	PLC12004 PLC120M8 PLC12006 PLC120010	PLCD12004 PLCD120M8 PLCD12006 PLCD120M10	.88 .88 .88 .88	1.87 1.95 1.95 1.95 1.95
Y	PANEL MOUNT HOSE BARB	1/4" ID 5/16" ID 3/8" ID	6.4mm ID 7.9mm ID 9.5mm ID	PLC16004 PLC16005 PLC16006	PLCD16004 PLCD16005 PLCD16006	.88 .88 .88	1.95 1.95 1.95
(7)	PANEL MOUNT JG® PUSH-TO- CONNECT	1/4" OD	6.4mm OD	PLC11004	PLCD11004	.88	1.95
000	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 8.0mm OD, 6.0mm ID 9.5mm OD, 6.4mm ID 10.0mm OD, 8.0mm ID	PLC13004 PLC130M8 PLC13006 PLC130010	PLCD13004 PLCD130M8 PLCD13006 PLCD130M10	.94 .94 .94 .94	1.82 1.95 1.95 1.95 1.95
	IN-LINE HOSE BARB	1/4" ID 5/16" ID 3/8" ID	6.4mm ID 7.9mm ID 9.5mm ID	PLC17004 PLC17005 PLC17006	PLCD17004 PLCD17005 PLCD17006	.94 .94 .94	1.80 /1.95 1.95 1.80 /1.95
800	IN-LINE JG® PUSH-TO- CONNECT	1/4" OD 3/8" OD (See page 162 for JG a	6.4mm OD 9.5mm OD ccessories)	PLC14004 PLC14006	PLCD14004 PLCD14006	.94 .94	1.95 2.09

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

Coupling Inserts • ACETAL

	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT	METRIC EQ.	STRAIGHT THRU PLC24004 PLC24004BSPT PLC24006 PLC24006BSPT	SHUTOFF PLCD24004 PLCD24004BSPT PLCD24006 PLCD24006BSPT	A .72 .72 .87 .87	B 1.25/1.66 1.53/1.66 1.25/1.63 1.51/1.63	0
	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 8.0mm OD, 6.0mm ID 9.5mm OD, 6.4mm ID 10.0mm OD, 8.0mm ID	PLC40004 PLC400M8 PLC40006 PLC400M10	PLCD40004 PLCD400M8 PLCD40006 PLCD400M10	.94 .94 .94 .94	1.78/1.91 1.91/2.03 1.91/2.05 1.91/2.05	
2	PANEL MOUNT HOSE BARB	1/4" ID 5/16" ID 3/8" ID	6.4mm ID 7.9mm ID 9.5mm ID	PLC42004 PLC42005 PLC42006	PLCD42004 PLCD42005 PLCD42006	.94 .94 .94	1.91/2.05 1.91/2.05 1.91/2.05	
	PANEL MOUNT JG® PUSH-TO- CONNECT	1/4" OD	6.4mm OD	PLC41004	PLCD41004	.94	1.91/2.05	
	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 8.0mm OD, 6.0mm ID 9.5mm OD, 6.4mm ID 10.0mm OD, 8.0mm ID	PLC20004 PLC200M8 PLC20006 PLC200M10	PLCD20004 PLCD200M8 PLCD20006 PLCD200M10	.72 .72 .72 .72 .72	1.25/1.88 1.38/1.82 1.38/1.82 1.38/1.82 1.38/1.82	
	IN-LINE Hose Barb	1/4" ID 5/16" ID 3/8" ID	6.4mm ID 7.9mm ID 9.5mm ID	PLC22004 PLC22005 PLC22006	PLCD22004 PLCD22005 PLCD22006	.62 .62 .62	1.35/1.99 1.35/1.99 1.36/1.81	
	IN-LINE JG® PUSH-TO- CONNECT	1/4" OD 3/8" OD	6.4mm OD 9.5mm OD	PLC29004 PLC29006	PLCD29004 PLCD29006	.63 .78	1.35/1.95 1.51/2.11	
	ELBOW FERRULELESS POLYTUBE FITTING, PTF†	3/8" OD, .25" ID	9.5mm OD, 6.4mm ID	PLC21006	PLCD21006	.61/.62	1.22/1.35	.85/.96
	ELBOW Hose Barb	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	PLC23004 PLC23006	PLCD23004 PLCD23006	.67/.63 .67/.63	1.10/1.28 1.25/1.28	.85/.96 .90/.96

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

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

PLC12 SERIES CONNECTOR



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. PLC12 coulings are also gamma sterilizable and available with optional RFID (Radio Frequency Identification) capability (see page 96).

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







PRESSURE: Vacuum to 120 psi, 8.3 bar

TEMPERATURE: 32°F to 160°F (0°C to 71°C)

MATERIALS:

Main components and valves: Polypropylene Thumb latch: Stainless steel Valve spring: 316 stainless steel External springs and pin: Stainless steel O-rings: EPDM

STERILIZATION:

Gamma: Up to 50 kGy irradiation

COLOR: Almond

TUBING SIZES:

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

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

> PLC12 Couplings are gamma sterilizable; see page 162 for more information on sterilization and disinfection

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



Liquid Flow Rate Information for Couplings

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

C_v values for 1/4" flow plc12 couplings



Q = Flow rate in gallons per minute **C**_v = Average coefficient across various flow rates (see chart)

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

BODIES INSERTS	PLC12 20004	PLCD12 20004	PLC12 20006	PLCD12 20006	PLC12 22004	PLCD12 22004	PLC12 22006	PLCD12 22006	PLC12 24004	PLCD12 24004	PLC12 24006	PLCD12 24006	PLC12 26004
PLC1000412	.40	.36	1.05	.58	.83	.56	1.40	.82	1.40	.75	1.40	.77	.83
PLCD1000412	.36	.31	.73	.48	.66	.41	.82	.50	.80	.45	.77	.45	.81
PLC1000612	.40	.36	1.05	.60	.83	.56	1.40	.81	1.40	.76	1.40	.76	.83
PLCD1000612	.37	.31	.81	.47	.70	.43	1.02	.51	.98	.46	.99	.48	.98
PLC1200612	.38	.36	.84	.63	.74	.56	1.14	.75	1.14	.70	1.14	.72	.74
PLCD1200612	.38	.33	.78	.49	.68	.44	.84	.49	.81	.43	.82	.44	.81
PLC1600412	.38	.37	.87	.54	.95	.51	1.00	.70	.95	.64	1.00	.66	.95
PLCD1600412	.37	.31	.61	.44	.57	.41	.78	.44	.78	.43	.75	.46	.78
PLC1600612	.38	.37	1.00	.57	.95	.53	1.40	.80	1.40	.71	1.40	.73	1.40
PLCD1600612	.38	.32	.71	.49	.63	.42	.89	.51	.96	.45	.92	.49	.97



PLC12 DIMENSIONS



Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAXMIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES	see drawing	.30 – .02	13/16	11/16-24UNEF
COUPLING INSERTS	see drawing	.30 – .02	13/16	11/16-24UNEF



Coupling Bodies • POLYPROPYLENE

TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT	METRIC EQ.	STRAIGHT THRU PLC1000412 PLC1000412BSPT PLC1000612 PLC1000612BSPT	SHUTOFF PLCD1000412 PLCD1000412BSPT PLCD1000612 PLCD1000612BSPT	A 1.00 1.00 1.00 1.00	B 1.15 1.15 1.15 1.15 1.15
PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	3/8" OD, 1/4" ID	9.5mm OD, 6.4mm ID	PLC1200612	PLCD1200612	1.00	1.95
PANEL MOUNT	1/4" ID	6.4mm ID	PLC1600412	PLCD1600412	1.00	1.95
HOSE BARB	3/8" ID	9.5mm ID	PLC1600612	PLCD1600612	1.00	1.95
IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	3/8" OD, 1/4" ID	9.5mm OD, 6.4mm ID	PLC1300612	PLCD1300612	1.02	1.96
IN-LINE	1/4" ID	6.4mm ID	PLC1700412	PLCD1700412	1.02	1.96
HOSE BARB	3/8" ID	9.5mm ID	PLC1700612	PLCD1700612	1.02	1.96
IN-LINE	3/8" OD, 1/4" ID	9.5mm OD, 6.4mm ID		PLCD17040612	1.02	2.20
SOFTUBE™ FITTING	1/2" OD, 3/8" ID	12.7mm OD, 9.5mm ID		PLCD17060812	1.02	2.36

PLC12 Coupling Readers • POLYPROPYLENE

REID	TERMINATION IN-LINE HOSE BARB (RS-232 Interface)	<i>TUBING/THREAD SIZE</i> 1/4" ID 3/8" ID	METRIC EQ. 6.4mm ID 9.5mm ID	STRAIGHT THRU	<i>Shutoff</i> iplcdr1700400 iplcdr1700600	A 1.39 1.39	B 2.78 2.78
RFĪD	IN-LINE HOSE BARB (USB Interface)	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID		iPLCDR1700401 iPLCDR1700601	1.00 1.05	1.38/2.05 1.74/1.87

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

Coupling Inserts • POLYPROPYLENE

	TERMINATION IN-LINE PIPE THREAD	<i>tubing/thread size</i> 1/4" NPT	METRIC EQ.	<i>STRAIGHT THRU</i> PLC2400412	<i>Shutoff</i> PLCD2400412	A .72	B 1.26/1.67	0
)))	PANEL MOUNT HOSE BARB	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	PLC4200412 PLC4200612	PLCD4200412 PLCD4200612	.94 .94	1.91/2.05 1.91/2.05	
	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	3/8" OD, 1/4" ID	9.5mm OD, 6.4mm ID	PLC2000612	PLCD2000612	.72	1.68/1.82	
	IN-LINE HOSE BARB	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	PLC2200412 PLC2200612	PLCD2200412 PLCD2200612	.63 .63	1.35/2.00 1.35/1.82	
	IN-LINE Softube™ fitting	3/8" OD, 1/4" ID 1/2" OD, 3/8" ID	9.5mm OD, 6.4mm ID 12.7mm OD, 9.5mm ID		PLCD22040612 PLCD22060812	.72 .72	2.23 2.18	
	ELBOW FERRULELESS POLYTUBE FITTING, PTF†	3/8" OD, 1/4" ID	9.5mm OD, 6.4mm ID	PLC2100612	PLCD2100612	.61/.62	1.29/1.36	.95
1	ELBOW HOSE BARB	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	PLC2300412 PLC2300612	PLCD2300412 PLCD2300612	.63 .63	1.22/1.36 1.28/1.42	.96 .96
REID	IN-LINE HOSE BARB (RS-232 Interface)	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	iPLCT2200400 iPLCT2200600	iPLCDT2200400 iPLCDT2200600	1.39 1.39	2.78 2.78	
RFID	ELBOW HOSE BARB (RS-232 Interface)	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	iPLCT2300400 iPLCT2300600	iPLCDT2300400 iPLCDT2300600	1.48 1.48	1.27/1.40 1.33/1.46	

All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters. Couplings are pictured with valves unless otherwise noted. †NOTE: CPC's Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc. NOTE: JG is a registered trademark of John Guest USA, Inc.

LC SERIES CONNECTOR



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

FEATURES	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
Compatible	LC mates with PLC Series couplings







PRESSURE:

Vacuum to 250 psi, 17.3 bar

TEMPERATURE:

-40°F to 180°F (-40°C to 82°C) (High temperature versions available with ratings to 400°F)

MATERIALS:

Main components: Chrome-plated brass Thumb latch: Stainless steel Valves: Acetal Valve springs: 316 stainless steel External springs and pin: Stainless steel

0-rings: Buna-N

FINISH: Chrome

TUBING SIZES:

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

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

> Note: High temperature versions available with ratings to 400 F. Call customer service for more information.

Also available in NSF listed versions for foodbased applications, please visit our website for part number information.

NSF

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

DID YOU KNOW?

O-RING SELECTION IS A KEY DECISION in determining which connector will perform best in your specific application. Understanding the material characteristics and how they can be affected by both the media being transferred and the environment in which the connector is being used is important.

BUNA-N is the most common o-ring seal due to its solvent, oil and water resistance. Temperature range is -40°F to 250°F.

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

 ${\ensuremath{\text{EPDM}}}$ has excellent resistance to polar solvents. This o-ring is not compatible with petroleum. The temperature range is -70°F to 300°F.

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

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



Liquid Flow Rate Information for Couplings

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





 ΔP = Pressure drop across coupling (psi)

S = Specific gravity of liquid

BODIES INSERTS	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

LC DIMENSIONS



Product Dimensions

	PANEL OPENING	PANEL THICKNESS MAXMIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES	see drawing	.50 – .05	13/16	11/16-24UNEF
COUPLING INSERTS	see drawing	.090– .300	13/16	11/16-24UNEF



Coupling Bodies • CHROME-PLATED BRASS

	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT	METRIC EQ.	<i>STRAIGHT THRU</i> LC10004 LC10004BSPT LC10006 LC10006BSPT	SHUTOFF LCD10004 LCD10004BSPT LCD10006 LCD10006BSPT	 .88 .88 .88 .88 .88 	B 1.15 1.15 1.15 1.15 1.15
-Alt	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	LC12004 LC12006	LCD12004 LCD12006	.88 .88	1.87 2.00
- Hann	PANEL MOUNT HOSE BARB	1/4" ID 5/16" ID 3/8" ID	6.4mm ID 7.9mm ID 9.5mm ID	LC16004 LC16005 LC16006	LCD16004 LCD16005 LCD16006	.88 .88 .88	2.00 2.00 2.00
-TF-	PANEL MOUNT MALE THREAD	1/4" NPT		LC15004	LCD15004	.88	1.50
	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	LC13004 LC13006	LCD13004 LCD13006	.88 .88	1.87 2.00
and the second	IN-LINE HOSE BARB	1/4" ID 5/16" ID 3/8" ID	6.4mm ID 7.9mm ID 9.5mm ID	LC17004 LC17005 LC17006	LCD17004 LCD17005 LCD17006	.88 .88 .88	2.00 2.00 2.00

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

Coupling Inserts • CHROME-PLATED BRASS

	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT	METRIC EQ.	<i>STRAIGHT THRU</i> LC24004 LC24004BSPT LC24006 LC24006BSPT	SHUTOFF LCD24004 LCD24004BSPT LCD24006 LCD24006BSPT	A .72 .72 .87 .87	B 1.25/1.68 1.25/1.68 1.25/1.55 1.25/1.55	0
P	IN-LINE PIPE THREAD (FEMALE)	1/4" NPT Female 1/4" BSPP Female		LC26004 LC26004BSPP	LCD26004 LCD26004BSPP	.72 .72	1.25/1.90 1.25/1.75	
O PAR	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	LC40004 LC40006	LCD40004 LCD40006	.94 .94	1.83/1.98 1.96/2.11	
- AFF	PANEL MOUNT Hose Barb	1/4" ID 5/16" ID 3/8" ID	6.4mm ID 7.9mm ID 9.5mm ID	LC42004 LC42005 LC42006	LCD42004 LCD42005 LCD42006	.94 .94 .94	1.96/2.11 1.96/2.11 1.96/2.11	
O TIM	IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	LC20004 LC20006	LCD20004 LCD20006	.72 .72	1.25/1.87 1.38/1.83	
	IN-LINE HOSE BARB	1/4" ID 5/16" ID 3/8" ID	6.4mm ID 7.9mm ID 9.5mm ID	LC22004 LC22005 LC22006	LCD22004 LCD22005 LCD22006	.63 .63 .63	1.35/2.00 1.35/1.85 1.35/1.83	
	ELBOW FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	LC21004 LC21006	LCD21004 LCD21006	.63 .63	1.28/1.43 1.28/1.43	.96 .83
	ELBOW HOSE BARB	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	LC23004 LC23006	LCD23004 LCD23006	.63/.62 .63/.62	1.28/1.43 1.28/1.43	1.28 1.28

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

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

APC SERIES CONNECTOR



Specifications • • •

PRESSURE:

Vacuum to 120 psi, 8.3 bar

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

MATERIALS:

Main components and valves: Acetal Thumb latch: Acetal Valve springs: 316 stainless steel External springs and pin: Stainless steel

O-rings: Buna-N

COLOR: Natural white with light gray latch

TUBING SIZES:

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

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

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 includes couplings with valves and thumb latch shrouds. A more rugged design on some models adds durability to increase the APC's application range.

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		
Compatibility	Mates with most EFC couplings		

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

(NSF)





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

DID YOU KNOW?

THE SHELF LIFE OF A CONNECTOR IS DEPENDENT UPON THE CONNECTOR MATERIALS AND THE STORAGE CONDITIONS. CPC manufactures quick disconnect couplings

and connections made from a variety of metal, plastic and elastomeric raw materials. In general, it is best to store any CPC product in an environment shielded from light at a temperature between 50°F and 90°F.

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

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

Liquid Flow Rate Information for Couplings

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



Q = Flow rate in gallons per minute

 $\mathbf{C}_{\mathbf{v}}$ = Average coefficient across various flow rates (see chart)

S = Specific gravity of liquid

Cv VALUES FOR APC COUPLINGS

BODIES INSERTS	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	0.36	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	0.37	0.4	1.3	0.8	0.6	0.5	1.1	0.7	1.3	0.7	1.0	0.7
APC13004SH	0.38	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4
APCD13004SH	0.38	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
APC13006SH	0.38	0.4	1.0	0.7	0.9	0.6	1.1	0.7	1.1	0.7	1.0	0.7
APCD13006SH	0.37	0.4	0.8	0.6	0.7	0.5	0.8	0.6	0.9	0.6	0.8	0.6
APC17004SH	0.38	0.4	0.8	0.6	1.0	0.7	0.9	0.7	0.8	0.6	0.7	0.6
APCD17004SH	0.38	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	1.4	0.9	1.4	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



APC DIMENSIONS



D = Elbow Radial Length

Panel Dimensions

Ø .688"-

	PANEL OPENING	PANEL THICKNESS MAXMIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING BODIES	see drawing	.05– .02	13/16	11/16-24UNF
\int			•	

+

Coupling Bodies • ACETAL

8

82	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/4" NPT 1/4" BSPT 3/8" NPT 3/8" BSPT	METRIC EQ.	<i>STRAIGHT THRU</i> APC10004 APC10004BSPT APC10006 APC10006BSPT	<i>SHUTOFF</i> APCD10004 APCD10004BSPT APCD10006 APCD10006BSPT	 .93 .93 .93 .93 .93 	B 1.40 1.40 1.40 1.40
8	IN-LINE HOSE BARB	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	APC17004 APC17006		.93 .93	1.35 1.35
800	IN-LINE WITH SHROUD FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 8.0mm OD, 6.0mm ID 9.5mm OD, 6.4mm ID 10.0mm OD, 8.0mm ID	APC13004SH APC130M8SH APC13006SH APC130M10SH	APCD13004SH APCD130M8SH APCD13006SH APCD130M10SH	1.30 1.30 1.30 1.30	1.94 2.07 2.07 2.07
5	IN-LINE HOSE BARB	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	APC17004SH APC17006SH	APCD17004SH APCD17006SH	1.30 1.30	2.07 2.07
P) P	PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, .25" ID	6.4mm OD, 4.3mm ID 8.0mm OD, 6.0mm ID 9.5mm OD, 6.4mm ID 10.0mm OD, 8.0mm ID	APC12004 APC120M8 APC12006 APC120M10	APCD12004 APCD120M8 APCD12006 APCD120M10	1.03 1.03 1.03 1.03 1.03	1.97 2.10 2.10 2.10 2.10
FT .	PANEL MOUNT HOSE BARB	1/4" ID 5/16" ID 3/8" ID	6.4mm ID 7.9mm ID 9.5mm ID	APC16004 APC16005 APC16006	APCD16004 APCD16005 APCD16006	1.03 1.03 1.03	2.10 2.10 2.10

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

Accessories

DESCRIPTION PANEL MOUNT GASKET REPLACEMENT: For sealing panel mount bodies listed above MATERIALPART NO.Buna-N1830300

Coupling Inserts • ACETAL

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

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

Couplings are pictured with valves unless otherwise noted. †NOTE: CPC's Ferruleless Polytube Fitting terminations do not require ferrules to achieve a secure connection, which makes them

easier to use and reuse. PTF fittings are designed for semi-rigid tubing, i.e., polyethylene, nylon, polyurethane, etc.

BREAKAWAY SERIES CONNECTOR



Specifications • • •

PRESSURE:

0 to 20 psi, 1.4 bar

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

MATERIALS:

Main components and valves: Acetal Valve springs: 316 stainless steel O-rings: Buna-N Retention ring: PPS

COLOR: White or black

TUBING SIZES:

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

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

CPC's BreakAway® Series couplings provide safe and easy fluid transfer with protection from costly product loss and equipment damage. These high quality, leak-free connectors are designed to disconnect when pull force is applied without depressing a latching mechanism, allowing users to make a clean, fast and easy break at critical moments.

FEATURES	BENEFITS
Reliable break-away design	Rapid, automatic disconnection
Automatic dual shutoff valves	Safe and clean fluid handling
Streamlined, flush finish	Easy-to-use for maximum productivity





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

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





Infiltec GmbH - Innovative Kupplungssysteme für das Gas- und Flüssigkeitshandling

BREAKAWAY DIMENSIONS



Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAXMIN.	$\left(\begin{array}{c} + \end{array} \right)$
COUPLING BODIES	see drawing	.5002	Ø .688" +.000

Coupling Bodies

TERMINATION A B **TUBING SIZE** METRIC EQ. STRAIGHT THRU SHUTOFF IN-LINE 1/4" ID 6.4mm ID BACD17004 0.92 2.29 HOSE BARB 3/8" ID 9.5mm ID BACD17006 0.92 2.29 PANEL MOUNT 1/4" ID 6.4mm ID BACD16004 0.92 2.29 3/8" ID BACD16006 0.92 2.29 HOSE BARB 9.5mm ID

• BLACK ACETAL

• WHITE ACETAL

TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/4" ID 3/8" ID	<i>METRIC EQ.</i> 6.4mm ID 9.5mm ID	STRAIGHT THRU	Shutoff Bacd17004mBlk Bacd17006mBlk	A 0.92 0.92	B 2.29 2.29	
PANEL MOUNT HOSE BARB	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID		BACD16004MBLK BACD16006MBLK	0.92 0.92	2.29 2.29	

Coupling Inserts



EFC12 SERIES CONNECTOR



Specifications •

PRESSURE:

Vacuum to 105 psi, 7.2 bar

TEMPERATURE: 32°F to 160°F (0°C to 71°C)

MATERIALS:

Main components and val Redypropylene Thumb latcl Polypropylene Valve spring 316 stainless steel Panel mount gask IPDM External spring 302 stainless steel O-rings EPDM

COLOR:

Gray with dark gray latch

TUBING SIZES:

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

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

The 9/32" flow EFC12 Series couplings feature a high efficiency valve design that provides a greater flow capability than any other coupling its size. Chemically resistant polypropylene material makes it ideal for harsh environments. The EFC12 Series adds a bulkhead panel mount option for tight seals against tank walls and drums.

FEATURES

High efficiency valve

Plastic thumb latch Polypropylene material

Compatible

BENEFITS

More flow than PLC Series in a compact size

Fewer moving parts

Chemically resistant and gamma sterilizable

Mates with most APC couplings





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



Liquid Flow Rate Information for Couplings

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

Cv VALUES FOR EFC12 COUPLINGS



PANEL THICKNESS

MAX.-MIN.

.25 - .03

PANEL

13/16

NUT HEX

PANEL NUT

11/16-24UNF

THREAD

s

flow rates (see chart) ΔP = Pressure drop across coupling (psi)

= Specific gravity of liquid

BODIES INSERTS	EFC12 20004	EFCD12 20004	EFC12 20006	EFCD12 20006	EFC12 22004	EFCD12 22004	EFC12 22006	EFCD12 22006	EFC12 24004	EFCD12 24004
EFCD10412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFCD10612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72
EFCD16412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFCD16612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72
EFCD17412	0.51	0.51	0.51	0.51	0.50	0.45	0.50	0.50	0.51	0.51
EFCD17612	0.61	0.51	1.13	0.72	0.50	0.45	0.81	0.69	0.51	0.72

EFC12 DIMENSIONS



Coupling Bodies • POLYPROPYLENE

D = Elbow Radial Length Ø .72" EFC Series Gasket Thickness: .06" Mounting Hole: .720" diameter Coupling Spacing: 1.25" min. Greenlee® 720 Keyway Punch and 730BB-3/4 Hole Punch.

Panel Dimensions

COUPLING BODIES

PANEL

OPENING

see drawing

TUBING/THREAD SIZE METRIC EQ. B D **TERMINATION** STRAIGHT THRU SHUTOFF A IN-LINE 1/4" NPT EFCD10412 .93 2.29 PIPE THREAD 3/8" NPT EFCD10612 .93 2.29 BULKHEAD 1/4" ID 6.4mm ID EFCD16412 .93 2.23 PANEL MOUNT .93 3/8" ID 9.5mm ID EFCD16612 2.23 HOSE BARB IN-LINE 1/4" ID 6.4mm ID EFCD17412 .93 2.23 HOSE BARB 3/8" ID 9.5mm ID EFCD17612 .93 2.23

Coupling Inserts • POLYPROPYLENE

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

	TERMINATION IN-LINE PIPE THREAD	Tubing/Thread Sizu 1/4" NPT 3/8" NPT	E METRIC EQ.	STRAIGHT THRU	SHUTOFF EFCD24412 EFCD24612	▲ .72 .72	B 1.77 1.77	0
A P	IN-LINE Hose Barb	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	EFC22412 EFC22612	EFCD22412 EFCD22612	.60/.72 .60/.72	1.33/2.08 1.33/1.90	
and the second	ELBOW Hose Barb	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID	EFC23412 EFC23612	EFCD23412 EFCD23612	.63 .63	1.32/1.45 1.32/1.45	.96 .96
Accessories		DESCRIPTION PANEL MOUNT GA	ISKET REPLACEMENT	For sealing panel m	ount bodies listed above	MATE Buna-	<i>RIAL</i> ·N	<i>PART NO.</i> 1830300

NS4 SERIES CONNECTOR



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 effectively eliminates spills, minimizes downtime and enhances operator safety. NS4 coulings are also available with optional RFID (Radio Frequency Identification) capability (see page 97).

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
Medical-grade ABS	Gamma sterilizable



PRESSURE:

Vacuum to 120 psi, 8.3 bar

TEMPERATURE: 32°F to 160°F (0°C to 71°C)

MATERIALS:

Main components and valves: Glass-filled polypropylene with TPV* overmold, ABS with TPE* soft-touch overmold

Thumb latch: Glass-filled polypropylene, ABS

Valve spring: 316 stainless steel

External spring: 316 stainless steel

O-rings: EPDM

COLOR:

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

ABS: White with teal overmold

TUBING SIZES:

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

LUBRICANTS: Krytox® PFPE (inert)

SPILLAGE:

<0.10 cc per disconnect at all rated pressures

INCLUSION: 0.26 cc per connect

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

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

†NOTE: Standard product is gray; color options require a minimum quantities. Please contact CPC for details.







NS4 DIMENSIONS



Coupling Bodies • POLYPROPYLENE / ABS

0	TERMINATION IN-LINE PIPE THREAD	Tubing/Thread Size 1/4" NPT 1/4" BSPT	METRIC EQ.	<i>ABS</i> <i>Shutoff</i> NS4D1000406 NS4D10004BSPT06	<i>Polypropylene</i> <i>Shutoff</i> NS4D10004 NS4D10004BSPT	A 1.05 1.05	B 2.31 2.29	
opr	IN-LINE FERRULESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, 1/4" ID	6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	NS4D1300606	NS4D13004 NS4D13006	1.05 1.05	2.32 2.45	
O O	IN-LINE HOSE BARB	1/8" ID* 1/4" ID 3/8" ID	3.2mm ID* 6.4mm ID 9.5mm ID	NS4D1700206 NS4D1700406 NS4D1700606	NS4D17002 NS4D17004 NS4D17006	1.05 1.05 1.05	2.09 2.34 2.34	
RFID	IN-LINE HOSE BARB (RS-232 Interface)	1/8" ID 1/4" ID 3/8" ID	3.2mm 6.4mm 9.5mm		iNS4DR1700200 iNS4DR1700400 iNS4DR1700600	2.15 2.15 2.15	3.49 3.49 3.49	
2 M	IN-LINE HOSE BARB (USB Interface)	1/4" ID 3/8" ID 1/2" ID	6.4mm ID 9.5mm ID 12.7mm ID		iNS4DR1700201 iNS4DR1700401 iNS4DR1700601	2.15 2.15 2.15	3.40 3.40 3.40	

Panel Dimensions

COUPLING

INSERTS

PANEL

OPENING

see drawing

PANEL THICKNESS

Ø .945"

MAX.-MIN.

.25 – .03

Coupling Inserts • POLYPROPYLENE / ABS

,	TERMINATION IN-LINE PIPE THREAD	Tubing/Thread Size 1/4" NPT 1/4" BSPT	METRIC EQ.	ABS SHUTOFF NS4D2400406 NS4D24004BSPT06	<i>POLYPROPYLENE</i> <i>Shutoff</i> NS4D24004 NS4D24004BSPT	A .96 .96	B 1.95 1.95
	IN-LINE FERRULESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, 1/4" ID	6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	NS4D2000606	NS4D20004 NS4D20006	.96 .96	1.95 2.09
all a	IN-LINE Hose Barb	1/8" ID* 1/4" ID 3/8" ID	3.2mm ID* 6.4mm ID 9.5mm ID	NS4D2200206 NS4D2200406 NS4D2200606	NS4D22002 NS4D22004 NS4D22006	.96 .96 .96	1.73 1.98 1.98
and I	PANEL MOUNT FERRULESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID 3/8" OD, 1/4" ID	6.4mm OD, 4.3mm ID 9.5mm OD, 6.4mm ID	NS4D4000606	NS4D40004 NS4D40006	1.17 1.17	2.30 2.43
- M	PANEL MOUNT HOSE BARB	1/8" ID* 1/4" ID 3/8" ID	3.2mm ID* 6.4mm ID 9.5mm ID	NS4D4200206 NS4D4200406 NS4D4200606	NS4D42002 NS4D42004 NS4D42006	1.17 1.17 1.17	2.07 2.32 2.32
DE	PANEL MOUNT HOSE BARB ELBOW	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID		NS4D43004 NS4D43006	1.19 1.19	2.39 2.39
S	ELBOW HOSE BARB	1/4" ID 3/8" ID	6.4mm ID 9.5mm ID		NS4D23004 NS4D23006	0.96 0.96	2.04 2.04
FID	IN-LINE HOSE BARB (RS-232 Interface)	1/8" ID 1/4" ID 3/8" ID	3.2mm 6.4mm 9.5mm		iNS4DR2200200 iNS4DR2200400 iNS4DR2200600	For produ dimension cpcworld	ct 1s visit vide.com
	Accessories		DESCRIPTION PANEL MOUNT GASKET panel mount inserts lis	MATERIAL PART NO. EPDM 1879800 FKM 1889500			

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

LQ4 SERIES CONNECTOR



LQ4 Series quick disconnect couplings provide ultra-reliable, dripless connections and disconnections that protect valuable electronics. Designed specifically for liquid cooling applications, LQ4 utilizes patent-pending valve technology that eliminates drips and is able to withstand long-term use.

FEATURES	BENEFITS
Non-spill design	Disconnect under pressure with no spills
Redundant sealing when connected	Extra protection from leaks
Color-coding	Instant visual difference in cooling lines
Friction-free valve	Valving system designed for extended periods in connected state
Ruggedness	Able to withstand long-term, repeated use
Rotation allows movement	Eliminates tube kinking





Specifications • • •

PRESSURE: Vacuum to 120 psi, 8.3 bar

TEMPERATURE: 0°F to 240°F (-17°C to 115°C)

MAXIMUM FLOW AT DISCONNECT: 3.0 gal/min, 11.3L/min

MATERIALS:

Main housing components: Chrome-plated brass Valves and thumb latch: Polysulfone Valve spring (wetted): Stainless steel External spring: Stainless steel Seals: EPDM

COLOR:

Chrome with Cool Blue or Warm Red

TUBING SIZES:

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

LUBRICANTS: Krytox® PFPE

SPILLAGE:

0.025 cc per disconnect rated at 0 psi 0.055 cc per disconnect rated at 120 psi

INCLUSION: 0.025 cc per connect

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

These graphs are intended to give you a general idea of the performance capabilities of each product line. Contact CPC for flow of a particular coupling combination.



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LQ4 DIMENSIONS



A = Height/DiameterB = Total Length

Coupling Bodies • CHROME-PLATED BRASS

Contraction of the second seco	<i>TERMINATION IN-LINE HOSE BARB</i>	TUBING/THREAD SIZE 1/4" ID 1/4" ID 3/8" ID 3/8" ID	METRIC EQ. 6.4mm ID 6.4mm ID 9.5mm ID 9.5mm ID	SHUTOFF LQ4D17004RED LQ4D17004BLU LD4D17006RED LQ4D17006BLU	(A) 0.98 0.98 0.98 0.98	B 2.49 2.49 2.49 2.49 2.49
	IN-LINE STRAIGHT THREAD PORT SAE	1/4 SAE-4 1/4 SAE-4 3/8 SAE-6 3/8 SAE-6		LQ4D30004RED LQ4D30004BLU LQ4D30006RED LQ4D30006BLU	0.98 0.98 0.98 0.98	2.29 2.29 2.29 2.29 2.29
	IN-LINE PIPE THREAD	1/4" NPT 1/4" NPT 3/8" NPT 3/8" NPT		LQ4D10004RED LQ4D10004BLU LQ4D10006RED LQ4D10006BLU	0.98 0.98 0.98 0.98	2.31 2.31 2.31 2.31 2.31
19	IN-LINE PTF	1/4" ID x 3/8" OD 1/4" ID x 3/8" OD		LQ4D13006RED LQ4D13006BLU	0.98 0.98	2.46 2.46

Coupling Inserts • CHROME-PLATED BRASS

- AF	TERMINATION IN-LINE HOSE BARB	TUBING/THREAD SIZE 1/4" ID 1/4" ID 3/8" ID 3/8" ID	METRIC EQ. 6.4mm ID 6.4mm ID 9.5mm ID 9.5mm ID	SHUTOFF LQ4D22004RED LQ4D22004BLU LQ4D22006BLU LQ4D22006RED	A 0.74 0.74 0.74 0.74	B 2.22 2.22 2.22 2.22 2.22 2.22
9F	IN-LINE STRAIGHT THREAD PORT SAE	1/4 SAE-4 1/4 SAE-4 3/8 SAE-6 3/8 SAE-6		LQ4D46004BLU LQ4D46004RED LQ4D46006BLU LQ4D46006RED	0.80 0.80 0.80 0.80	2.02 2.02 2.02 2.02 2.02
-	IN-LINE PIPE THREAD	1/4" NPT 1/4" NPT 3/8" NPT 3/8" NPT		LQ4D24004RED LQ4D24004BLU LQ4D24006RED LQ4D24006BLU	0.80 0.80 0.80 0.80 0.80	2.04 2.04 2.04 2.04
01 th	IN-LINE PTF	1/4" ID x 3/8" OD 1/4" ID x 3/8" OD		LQ4D20006RED LQ4D20006BLU	0.80 0.80	2.19 2.19

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

NS6 SERIES CONNECTOR



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

FEATURES	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



PRESSURE:

Vacuum to 120 psi, 8.3 bar

TEMPERATURE: 32°F to 160°F (0°C to 71°C)

MATERIALS:

Main components and valves: Glass-filled polypropylene with TPV* soft touch overmold

Thumb latch: Glass-filled polypropylene

Valve spring (wetted): 316 stainless steel

External spring: 316 stainless steel

0-rings: EPDM

COLOR:

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

TUBING SIZES:

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

LUBRICANTS: Krytox® PFPE (inert)

SPILLAGE:

 ${\sim}0.03~{\rm cc}$ per disconnect @ 0 psi, ${\sim}0.30~{\rm cc}/$ disconnect @ 120 psi

INCLUSION: 0.42 cc per connect

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

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







NS6 DIMENSIONS





B = Total Length

Panel Dimensions



Coupling Bodies • POLYPROPYLENE

0.00	TERMINATION IN-LINE PIPE THREAD	<i>Tubing/Thread Size</i> 1/2" NPT 1/2" BSPT	METRIC EQ.	<i>SHUTOFF</i> NS6D10008 NS6D10008BSPT	A 1.31 1.31	B 3.01 3.01
RED	IN-LINE COMPRESSION	1/2" OD	12.7mm OD	NS6D13008	1.31	3.53
0.0	IN-LINE HOSE BARB	3/8" ID 1/2" ID	9.5mm ID 12.7mm ID	NS6D17006 NS6D17008	1.31 1.31	3.16 3.16

Coupling Inserts • POLYPROPYLENE

300	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/2" NPT 1/2" BSPT	METRIC EQ.	<i>Shutoff</i> NS6D24008 NS6D24008BSPT	A 1.31 1.31	B 2.44 2.44	
- Maria	IN-LINE COMPRESSION	1/2" OD	12.7mm OD	NS6D20008	1.31	3.01	
DI	IN-LINE HOSE BARB	3/8" ID 1/2" ID	9.5mm ID 12.7mm ID	NS6D22006 NS6D22008	1.31 1.31	2.59 2.59	
· Wh	PANEL MOUNT Compression	1/2" OD	12.7mm OD	NS6D40008	1.50	3.32	
	PANEL MOUNT Hose Barb	3/8" ID 1/2" ID	9.5mm ID 12.7mm ID	NS6D42006 NS6D42008	1.50 1.50	2.85 2.85	
	Accesso	pries	DESCRIPTION PANEL MOUNT GASKET REPLACEMENT: For sealing panel mount bodies listed aboveMATERIAL EPDM FKMPART NO.1884300 FKM1889600				
		All measurem Couplings are	ents are in inches (millimete pictured with valves unless	rs) unless otherwise noted. Tub otherwise noted.	ing must meet stated	inside and outside diameters.	

LQ6 SERIES CONNECTOR



LQ6 Series couplings closed-system design provides ultra-reliable, dripless connections and disconnections. The first of their kind, the couplings utilize patent-pending valve technology specifically designed for liquid cooling applications.

FEATURES	BENEFITS
Non-spill design	Disconnect under pressure with no spills
Redundant sealing when connected	Extra protection from leaks
Color-coding	Instant visual difference in cooling lines
Friction-free valve	Valving system designed for extended periods in connected state
Ruggedness	Able to withstand long-term, repeated use
Rotation allows movement	Eliminates tube kinking







PRESSURE: Vacuum to 120 psi, 8.3 bar

TEMPERATURE: 0°F to 240°F (-17°C to 115°C)

MAXIMUM FLOW AT DISCONNECT: 4.0 gal/min, 15.1 L/min

MATERIALS:

Main housing components: Chrome-plated brass Valves and thumb latch: Polysulfone Valve spring (wetted): Stainless steel External spring: Stainless steel Seals: EPDM

COLOR:

Chrome with Cool Blue or Warm Red

TUBING SIZES:

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

LUBRICANTS: Krytox® PFPE

SPILLAGE:

0.05 cc per disconnect rated at 0 psi 0.125 cc per disconnect rated at 120 psi

INCLUSION: 0.42 cc per connect

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

These graphs are intended to give you a general idea of the performance capabilities of each product line. Contact CPC for flow of a particular coupling combination.



Infiltec GmbH - Innovative Kupplungssysteme für das Gas- und Flüssigkeitshandling

LQ6 DIMENSIONS



A = Height/DiameterB = Total Length

Coupling Bodies • CHROME-PLATED BRASS

Coloradore de la colora	TERMINATION IN-LINE HOSE BARB	TUBING/THREAD SIZE 3/8" ID 3/8" ID 1/2" ID 1/2" ID	<i>METRIC EQ.</i> 9.5mm ID 9.5mm ID 12.7mm ID 12.7mm ID	<i>SHUTOFF</i> LQ6D17006RED LQ6D17006BLU LQ6D17008RED LQ6D17008BLU	A 1.185 1.185 1.185 1.185 1.185	B 2.73 2.73 2.73 2.73 2.73
()	IN-LINE STRAIGHT THREAD PORT SAE	3/8 SAE-6 3/8 SAE-6 1/2 SAE-8 1/2 SAE-8		LQ6D30006RED LQ6D30006BLU LQ6D30008RED LQ6D30008BLU	1.185 1.185 1.185 1.185 1.185	2.48 2.48 2.50 2.50
	IN-LINE PIPE THREAD	3/8" NPT 3/8" NPT		LQ6D10006RED LQ6D10006BLU	1.185 1.185	2.56 2.56
A A A	IN-LINE PTF	3/8" ID x 1/2" OD 3/8" ID x 1/2" OD		LQ6D13008RED LQ6D13008BLU	1.185 1.185	2.50 2.50

Coupling Inserts • CHROME-PLATED BRASS

	TERMINATION IN-LINE HOSE BARB	TUBING/THREAD SIZE 3/8" ID 3/8" ID 1/2" ID 1/2" ID	<i>METRIC EQ.</i> 9.5mm ID 9.5mm ID 12.7mm ID 12.7mm ID	SHUTOFF LQ6D22006RED LQ6D22006BLU LQ6D22008RED LQ6D22008BLU	(A) .93 .93 .93 .93	B 2.47 2.47 2.47 2.47 2.47
0)F	IN-LINE STRAIGHT THREAD PORT SAE	3/8 SAE-6 3/8 SAE-6 1/2 SAE-8 1/2 SAE-8		LQ6D46006RED LQ6D46006BLU LQ6D46008RED LQ6D46008BLU	1.025 1.025 1.025 1.025 1.025	2.22 2.22 2.24 2.24 2.24
a for	IN-LINE PIPE THREAD	3/8" NPT 3/8" NPT		LQ6D24006RED LQ6D24006BLU	1.025 1.025	2.30 2.30
a. 7	IN-LINE PTF	3/8" ID x 1/2" OD 3/8" ID x 1/2" OD		LQ6D20008RED LQ6D20008BLU	1.025 1.025	2.52 2.52

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

HFC12 SERIES CONNECTOR



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

FEATURES	BENEFITS
High efficiency valve	More flow 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





Specifications • • •

PRESSURE:

Vacuum to 60 psi, 4.2 bar

TEMPERATURE: 32°F to 160°F (0°C to 71°C)

MATERIALS:

Main components and valves: Polypropylene Thumb latch: Polypropylene Valve spring (wetted): 316 stainless steel

External springs: 316 stainless steel

0-rings: EPDM

Panel mount gasket: EPDM

Compression nut, gripper, ferrule: Polypropylene

COLOR: Gray with dark gray latch

TUBING SIZES: 3/8" to 3/4" ID. 9.5mm to 19.0mm ID

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

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



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





Liquid Flow Rate Information for Couplings

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

C_v values for hfc12 couplings



 ${\bm Q} \ = \ {\sf Flow} \ {\sf rate} \ {\sf in} \ {\sf gallons} \ {\sf per} \ {\sf minute}$

S = Specific gravity of liquid

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

HFC12 DIMENSIONS



Coupling Bodies • POLYPROPYLENE

4

19 al	TERMINATION IN-LINE PIPE THREAD	<i>TUBING/THREAD SIZE</i> 3/8" NPT 3/8" BSPT 1/2" NPT 3/4" NPT	METRIC EQ.	STRAIGHT THRU HFC10612 HFC10612BSPT HFC10812 HFC101212	SHUTOFF HFCD10612 HFCD10612BSPT HFCD10812 HFCD101212	A 1.44 1.44 1.44 1.44	B 2.69 2.72 2.88 3.07
(A)	BULKHEAD PANEL MOUNT HOSE BARB	3/8" ID 1/2" ID 5/8" ID 3/4" ID	9.5mm ID 12.7mm ID 15.9mm ID 19.0mm ID	HFC16612 HFC16812 HFC161012 HFC161212	HFCD16612 HFCD16812 HFCD161012 HFCD161212	1.82 1.82 1.82 1.82 1.82	2.82 2.82 2.94 2.94
ST.	BULKHEAD PANEL MOUNT COMPRESSION	3/8" OD 1/2" OD	9.5mm OD 12.7mm OD	HFC12612 HFC12812	HFCD12612 HFCD12812	1.82 1.82	2.96 3.11
Pin	IN-LINE HOSE BARB	3/8" ID 1/2" ID 5/8" ID 3/4" ID	9.5mm ID 12.7mm ID 15.9mm ID 19.0mm ID	HFC17612 HFC17812 HFC171012 HFC171212	HFCD17612 HFCD17812 HFCD171012 HFCD171212	1.44 1.44 1.44 1.44	2.79 2.79 2.94 2.94
No al	IN-LINE COMPRESSION	3/8" OD 1/2" OD	9.5mm OD 12.7mm OD	HFC13612 HFC13812	HFCD13612 HFCD13812	1.44 1.44	2.96 3.11

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

Accessories

visit our website for part number information.

DESCRIPTION PANEL MOUNT GASKET REPLACEMENT: For sealing panel mount bodies listed above

MATERIAL PART NO. EPDM 621200

Coupling Inserts • POLYPROPYLENE

IN-LINE

IN-LINE

IN-LINE

ELBOW

(non-valved shown)



A ST

TERMINATION TUBING/THREAD SIZE METRIC EQ. SHUTOFF STRAIGHT THRU 3/8" NPT HFC24612 HFCD24612 HFC24612BSPT HFCD24612BSPT PIPE THREAD 3/8" BSPT 1/2" NPT HFC24812 HFCD24812 3/4" NPT HFC241212 HFCD241212 3/8" ID 9.5mm ID HFC22612 HFCD22612 HOSE BARB 1/2" ID 12.7mm ID HFCD22812 HFC22812 5/8" ID 15.9mm ID HFC221012 HFCD221012 (non-valved shown) 3/4" ID HFCD221212 19.0mm ID HFC221212 3/8" OD 9.5mm OD HFC20612 HFCD20612 COMPRESSION 1/2" OD 12.7mm 0D HFC20812 HFCD20812 (non-valved shown) 3/8" ID 9.5mm ID HFC23612 HFCD23612 HOSE BARB 1/2" ID 12.7mm ID HFC23812 HFCD23812

19.0mm ID

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

HFCD231212

DID YOU KNOW?

3/4" ID

WHEN SELECTING A VALVED COUPLING FOR YOUR APPLICATION, make sure to order a part number with a D just before the numeric portion of the part number. For example, HFC101212 does not have a shutoff valve; HFCD101212 would be the correct part number to order for a valved coupling.

HFC231212

To visually identify a part to determine whether or not it is valved, disconnect the coupling body and insert, and then look through the part. If you can see light all the way through, your part is non-valved. If there is anything obstructing the light, you probably have a valved part.

D

.93

.93

.93

ß

1.77/1.89

1.80/1.92

1.95/2.07

2.14/2.26

1.97/2.09

1.97/2.09

2.01/2.13

2.14/2.26

2.14/2.26

2.29/2.41

1.93/2.05

1.97/2.09

1.95/2.07

1.16

1.16

1.16

1.23

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

HFC35 & HFC57 SERIES CONNECTOR



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

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

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

FEATURES	BENEFITS
Polysulfone (HFC35) Physically strong and autoclas	
UV Polysulfone (HFC57)	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 couplings



PRESSURE:

Vacuum to 125 psi, 8.6 bar

TEMPERATURE: -40°F to 280°F (-40°C to 138°C)

MATERIALS:

Main components and valves: HFC35 - Polysulfone HFC57 - UV-resistant polysulfone

THUMB LATCH:

HFC35 - Polysulfone HFC57 - UV-resistant polysulfone Valve spring: 316 stainless steel External springs: 316 stainless steel O-rings: EPDM Panel mount gasket: EPDM Female GHT gasket: FDA EPDM

COLORS:

HCF35 - Natural white, dark gray latch HCF57 - Black, black latch

TUBING SIZES: 3/8" to 3/4" ID, 9.5mm to 19.0mm ID

WARNING: Pressure, temperature, chemicals, and operating 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 graphs on the following page as a guide.

> Also available in NSF listed versions, please visit our website for part number information.

> > NSF





DID YOU KNOW?

THE HFC57 SERIES POLYSULFONE COUPLINGS ARE UV-RESISTANT AND ABLE TO WITHSTAND CONTINUED EXPOSURE TO HARMFUL RAYS WITHOUT AFFECTING PERFORMANCE?

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



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





HFC35 DIMENSIONS

HFC35 Coupling Bodies • **POLYSULFONE**

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

HFC35 Coupling Inserts • POLYSULFONE

	TERMINATION IN-LINE PIPE THREAD (non-valved shown)	TUBING/THREAD 3/8" NPT 3/8" BSPT 1/2" NPT 1/2" BSPT 3/4" NPT 3/4" BSPT 3/4" GHT	SIZE METRICEQ.	STRAIGHT THRU HFC24635 HFC24635BSPT HFC24835 HFC24835BSPT HFC241235 HFC241235BSPT HFC241235GHT	SHUTOFF HFCD24635 HFCD24635BSPT HFCD24835 HFCD24835BSPT HFCD241235 HFCD241235BSPT HFCD241235GHT	A 1.16 1.16 1.16 1.16 1.23 1.23 1.23 	B 1.82/1.94 1.97/2.09 1.97/2.09 1.17/2.09 2.22/2.34 2.21/2.33 2.03/2.15	D
	IN-LINE PIPE THREAD (FEMALE) (non-valved shown)	3/4" GHT 3/4" BSPP		HFC261235GHT HFC261235BSPP	HFCD261235GHT HFCD261235BSPP	1.37 1.37	1.79/1.91 1.79/1.91	
5)	IN-LINE HOSE BARB (non-valved shown)	3/8" ID 1/2" ID 5/8" ID 3/4" ID	9.5mm ID 12.7mm ID 15.9mm ID 19.0mm ID	HFC22635 HFC22835 HFC221035 HFC221235	HFCD22635 HFCD22835 HFCD221035 HFCD221235	1.00 1.00 1.00 1.00	1.91/2.03 1.91/2.03 2.03/2.15 2.03/2.15	
	ELBOW HOSE BARB (non-valved shown)	3/8" ID 1/2" ID	9.5mm ID 12.7mm ID	HFC23635 HFC23835	HFCD23635 HFCD23835	1.00 1.00	1.92/2.04 1.96/2.08	.93 .93

∧ HFC35 & HFC57 Accessories ≫

DESCRIPTION PANEL MOUNT GASKET REPLACEMENT: For sealing panel mount bodies listed above	<i>Material</i> EPDM	PART NO. 621200	
GHT GASKET REPLACEMENT: For sealing female threads	FDA EPDM	2339400	

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

HFC57 DIMENSIONS



Panel Dimensions



HFC57 Coupling Bodies • UV POLYSULFONE

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

HFC57 Coupling Inserts • UV POLYSULFONE

	TERMINATION IN-LINE PIPE THREAD (non-valved shown)	TUBING/THREAD SIZE 3/8" BSPT 1/2" BSPT 1/2" NPT 3/4" BSPT 3/4" GHT	METRIC EQ.	<i>STRAIGHT THRU</i> HFC24657BSPT HFC24857BSPT HFC24857 HFC241257BSPT HFC241257GHT	SHUTOFF HFCD24657BSPT HFCD24857BSPT HFCD24857 HFCD241257BSPT HFCD241257GHT	A 1.16 1.16 1.16 1.23 1.16	B 1.84/1.96 1.99/2.07 1.95/2.11 2.19/2.31 2.15/2.27
	IN-LINE PIPE THREAD (FEMALE) (non-valved shown)	3/4" GHT 3/4" BSPP		HFC261257GHT HFC261257BSPP	HFCD261257GHT HFCD261257BSPP	1.37 1.37	1.79/1.91 1.79/1.91
3	IN-LINE HOSE BARB (non-valved shown)	3/8" ID 1/2" ID 5/8" ID 3/4" ID	9.5mm ID 12.7mm ID 15.9mm ID 19.0mm ID	HFC22657 HFC22857 HFC221057 HFC221257	HFCD22657 HFCD22857 HFCD221057 HFCD221257	1.00 1.00 1.00 1.00	1.91/2.03 1.91/2.03 2.03/2.15 2.03/2.15

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

FFC35 SERIES CONNECTOR





PRESSURE:

Vacuum to 125 psi, 8.6 bar

TEMPERATURE: -40°F to 280°F (-40°C to 138°C)

MATERIALS:

Main components: Polysulfone Thumb latch: Polysulfone External spring: 316 stainless steel O-rings: FDA Buna-N Panel mount gasket: EPDM

Female GHT gasket: FDA EPDM

COLOR:

Natural white with dark gray latch

TUBING SIZES: 3/4" ID, 19.0mm ID

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

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

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

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





NON-VALVED

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

FFC35 DIMENSIONS



Panel Dimensions



Coupling Bodies • POLYSULFONE

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S?	TERMINATION IN-LINE PIPE THREAD	TUBING/THREAD SIZE 1/2" NPT 1/2" BSPT 3/4" NPT 3/4" BSPT 3/4" GHT	METRIC EQ.	STRAIGHT THRU FFC10835 FFC10835BSPT FFC101235 FFC101235BSPT FFC101235GHT	1.44 44 44 44 44 1.44 1.44	B 2.88 2.88 3.12 3.12 2.94
S.	IN-LINE PIPE THREAD (FEMALE)	3/4" GHT 3/4" BSPP		FFC191235GHT FFC191235BSPP	1.44 1.44	2.70 2.70
N	BULKHEAD PANEL MOUNT HOSE BARB	3/4" ID	19.0mm ID	FFC161235	1.82	2.94
3	IN-LINE HOSE BARB	3/4" ID	19.0mm ID	FFC171235	1.44	2.94

Coupling Inserts • POLYSULFONE

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

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

Accessories

DESCRIPTION PANEL MOUNT GASKET REPLACEMENT: For sealing panel mount bodies listed above	<i>Material</i> EPDM	Part No. 621200
GHT GASKET REPLACEMENT: For sealing female threads	FDA EPDM	2339400

DPC SERIES CONNECTOR



The 1/4" flow DPC Series couplings feature a dual port connection in a contoured design that delivers ease-of-use and excellent flow in a compact size. Made from acetal thermoplastic, the DPC Series includes valved and non-valved couplings with a single plastic thumb latch. One-hand operation makes the DPC Series the choice for simple, simultaneous connections and disconnections where two fluid lines are required.

FEATURES	BENEFITS	
Single thumb latch	Intuitive one step, two-line connection and disconnection	
Insert keyed to body	Ensures correct directional flow	
Compact, modular design	Attractive, high-quality appearance an configuration flexibility	
Integral terminations	Fewer moving parts, shorter assemblies, faster installations	

Specifications

PRESSURE:

Vacuum to 120 psi, 8.3 bar

TEMPERATURE: 32°F to 180°F (0°C to 82°C)

MATERIALS:

Main Components: Acetal Thumb latch: Acetal Valve springs: 316 stainless steel External springs: Stainless steel O-rings: Buna-N

COLOR: White with blue latch

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

COMPLIANCE:

REACH

RoHS

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

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





DPC Air Flow, 100 psig Inlet Pressure



DPC SERIES DIMENSIONS

Panel Dimensions



	PANEL OPENING	PANEL THICKNESS MAX. – MIN.
COUPLING BODIES	contact CPC	
COUPLING INSERTS	see drawing	.135 – .132



Coupling Body • ACETAL

TERMINATION IN-LINE HOSE BARB	<i>TUBING SIZE</i> 1/4" ID 3/8" ID	<i>METRIC EQ.</i> 6.4mm ID 9.5mm ID	<i>STRAIGHT THRU</i> DPC17004 DPC17006	<i>Shutoff</i> DPCD17004 DPCD17006	A 1.62 1.62	B 2.09 2.09	C 0.75 0.75	
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Coupling Insert • ACETAL

TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/4" ID 3/8" ID	METRIC EQ. 6.4mm ID 9.5mm ID	STRAIGHT THRU DPC22004 DPC22006	SHUTOFF DPCD22004 DPCD22006	A 1.62 1.62	B 1.97 / 2.11 1.97 / 2.11	C 0.75 0.75	

DTLD SERIES CONNECTOR





The 1/4" flow DTLD Series dual flow couplings provide

a unique thumb latch that enables independent connection and simultaneous disconnection of loose tube sets. Made from ABS thermoplastic, the DTLD valved couplings prevent one tube inadvertently disconnecting when the other is inserted. One-hand operation makes the DTLD Series the choice for simple, independent quick connections of dual fluid lines. The DTLD Series is compatible with all PLC, PLC12 and LC Series inserts.

FEATURES	BENEFITS
Shrouded thumb latch	Minimizes inadvertent latch activation
Latch always in position to accept insert	Ensures leak-free operation
Compact, modular design	Fits well in the hand and is easy to wipe dowr
Independent quick connections	Requires minimal manual dexterity

Specifications

PRESSURE:

Vacuum to 20 psi, 1.38 bar

TEMPERATURE: 32°F to 120°F (0°C to 48°C)

MATERIALS:

Main components: ABS Thumb latch: Acetal Internal body valve: Acetal Internal insert valve: Polypropylene Springs: Stainless steel O-rings: Buna-N

COLOR: White with blue latch, Molded black with gray latch

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

COMPLIANCE:

REACH

RoHS

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

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



DTLD Temperature and Pressure Range



DTLD SERIES DIMENSIONS



Body Sideview



Coupling Body

TERMINATION IN-LINE HOSE BARB	TUBING SIZE 1/4" ID 1/4" ID 3/8" ID 3/8" ID	METRIC EQ. 6.4mm ID 6.4mm ID 9.5mm ID 9.5mm ID	SHUTOFF DTLD17004 DTLD17004MBLK DTLD17006 DTLD17006MBLK	1.59 1.59 1.59 1.59 1.59	B 2.02 2.02 1.86 1.86	C 0.75 0.75 0.75 0.75 0.75	D 1.00 1.00 1.00 1.00	
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Coupling Insert

5	TERMINATION IN-LINE HOSE BARB	<i>TUBING SIZE</i> 1/4" ID 1/4" ID 3/8" ID	METRIC EQ. 6.4mm ID 6.4mm ID 9.5mm ID	<i>Shutoff</i> PlcD2200406 PlcD2200406MBLK PlcD2200606	A0.730.730.73	B 1.85 1.85 1.69	
		3/8" ID	9.5mm ID	PLCD2200606MBLK	0.73	1.69	