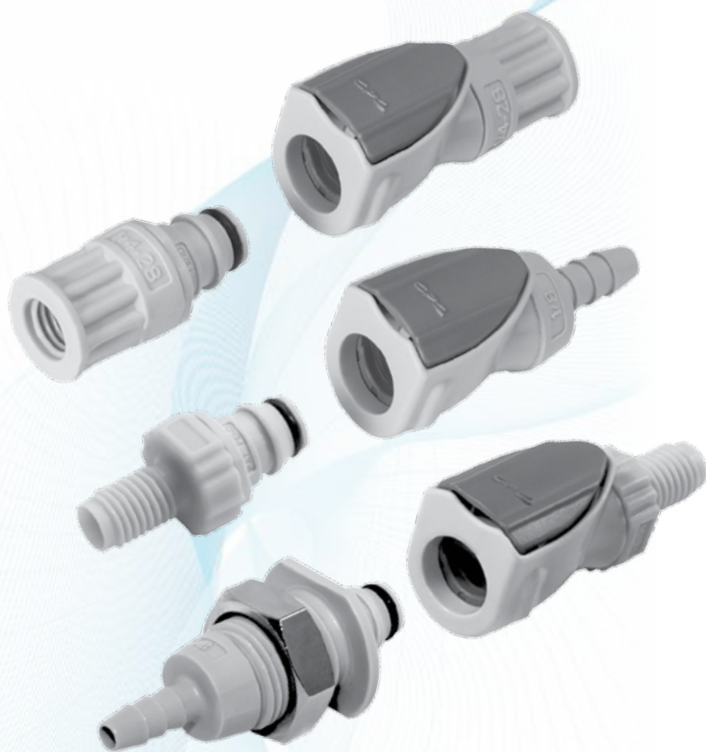


NS1 SERIES CONNECTOR



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

Non-spill design

Ultra low air inclusion

Intuitive interface

Rotating design

Chemically resistant materials

BENEFITS

Closed system for drip-free disconnect

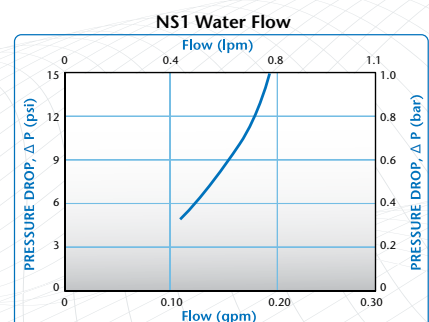
Minimizes contaminants, eliminates the need to purge air bubbles from the system

User friendly ergonomic design enables a secure, reliable connection

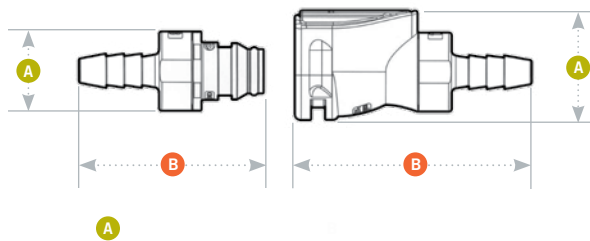
Allows tubing to move freely or relax without kinking or leaking

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 Dimensions

	PANEL OPENING	PANEL THICKNESS MAX. – MIN.	PANEL NUT HEX	PANEL NUT THREAD
COUPLING INSERTS	see drawing	.29 – .05	5/8	1/2-24UNS



Greenlee® punch
number 60077

Coupling Bodies • POLYPROPYLENE



DESCRIPTION	TUBING SIZE	METRIC EQ.	SHUTOFF	A	B
IN-LINE HOSE BARB	1/8" ID	3.2 MM ID	NS1D170212	0.61	1.33
IN-LINE WITH A 1/4-28 FLAT BOTTOM PORT	1/8" OD OR SMALLER*	3.2 MM OD OR SMALLER*	NS1D19042812	0.61	1.21
IN-LINE WITH A 1/4-28 MALE THREAD			NS1D10042812	0.61	1.28

Coupling Inserts • POLYPROPYLENE



DESCRIPTION	TUBING SIZE	METRIC EQ.	SHUTOFF	A	B
IN-LINE HOSE BARB	1/8" ID	3.2 MM ID	NS1D220212	0.44	1.04
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
IN-LINE WITH A 1/4-28 MALE THREAD			NS1D24042812	0.49	0.99
PANEL MOUNT HOSE BARB	1/8" ID	3.2 MM ID	NS1D420212	0.70	1.56
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.



NS212 SERIES CONNECTOR



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

- Efficient, non-spill design
- Multiple seal materials
- Twist-to-connect locking
- Compact design
- Ultra low air inclusion

BENEFITS

- Disconnect under pressure with no spills
- Broad chemical compatibility for diverse applications
- Easy, non-spill connections in tight spaces
- High flow in a small connector
- Minimizes contaminants, reduces the need to purge lines

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:

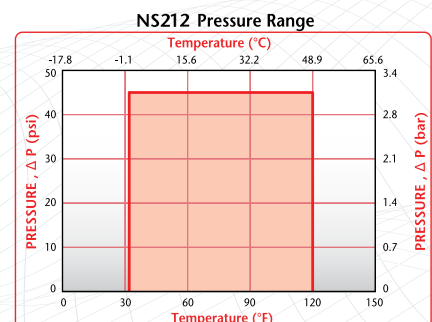
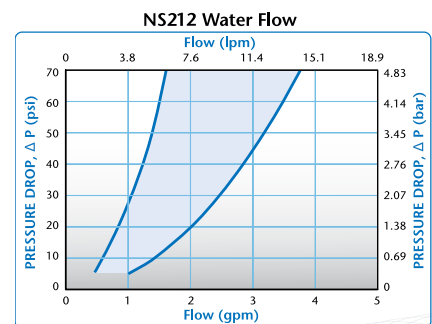
1/8" and 1/4" ID, 3.2mm and 6.4mm ID

SPILLAGE: <0.025 cc/disconnect

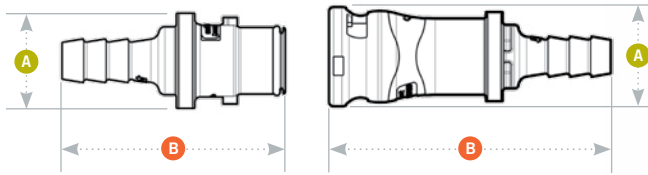
INCLUSION: 0.009 cc/connect

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 fall within the shaded area.



NS212 DIMENSIONS



A = Height/Diameter

B = Total Length

Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAX.-MIN.
COUPLING BODIES	see drawing	.30-.05



Coupling Bodies • POLYPROPYLENE



TERMINATION	TUBING	METRIC EQ.	SHUTOFF	A	B
IN-LINE PIPE THREAD	1/8" NPT		NS2D100212	.71	1.74
IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17 ID	6.4mm OD, 4.3mm ID	NS2D130412	.71	1.87
IN-LINE HOSE BARB	1/8" ID 1/4" ID	3.2mm ID 6.4mm ID	NS2D170212 NS2D170412	.71 .71	1.87 2.05
PANEL MOUNT FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17 ID	6.4mm OD, 4.3mm ID	NS2D120412	.88	1.87
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	TUBING SIZE	METRIC EQ.	SHUTOFF	A	B
IN-LINE PIPE THREAD	1/8" NPT		NS2D240212	.64	1.27
IN-LINE FERRULELESS POLYTUBE FITTING, PTF†	1/4" OD, .17 ID	6.4mm OD, 4.3mm ID	NS2D200412	.64	1.39
IN-LINE HOSE BARB	1/8" ID 1/4" ID	3.2mm ID 6.4mm ID	NS2D220212 NS2D220412	.64 .64	1.32 1.52

Accessories

DESCRIPTION

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

MATERIAL
Buna-N

PART NO.
1830300

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

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.

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 couplings are also available with optional RFID (Radio Frequency Identification) capability (see page 97).

FEATURES

Non-spill design

Color coding

Glass-filled polypropylene

Medical-grade ABS

BENEFITS

Disconnect under pressure with no spills

Instant visual differentiation of media lines

Durable and compatible with many chemicals

Gamma sterilizable

Specifications

PRESSURE:

Vacuum to 120 psi, 8.3 bar

TEMPERATURE:

32°F to 160°F (0°C to 71°C)

MATERIALS:

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

Thumb latch: Glass-filled polypropylene, ABS

Valve spring: 316 stainless steel

External spring: 316 stainless steel

O-rings: EPDM

COLOR:

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

ABS: White with teal overmold

TUBING SIZES:

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

LUBRICANTS:

Krytox® PFPE (inert)

SPILLAGE:

<0.10 cc per disconnect at all rated pressures

INCLUSION:

0.26 cc per connect

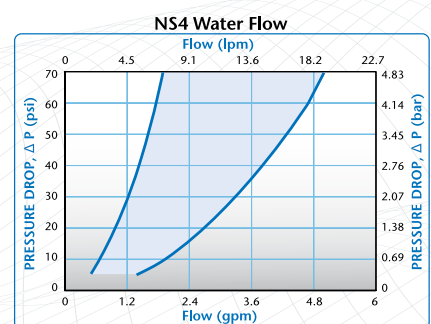
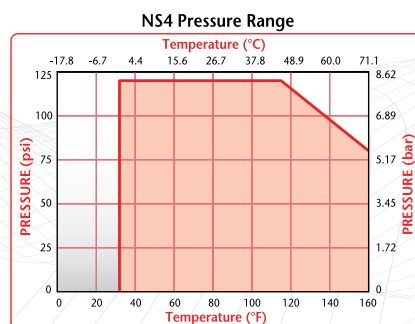
WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

*The overmold material TPV (thermoplastic 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.

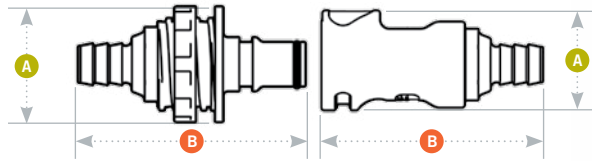
†NOTE: Standard product is gray; color options require a minimum quantities. Please contact CPC for details.



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.



NS4 DIMENSIONS



A = Height/Diameter

B = Total Length

Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAX.-MIN.
COUPLING INSERTS	see drawing	.25 - .03

Ø .945"
+.010
-.000



Coupling Bodies • POLYPROPYLENE / ABS



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

Coupling Inserts • POLYPROPYLENE / ABS



TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	ABS SHUTOFF	POLYPROPYLENE SHUTOFF	A	B
IN-LINE PIPE THREAD	1/4" NPT		NS4D2400406	NS4D24004	.96	1.95
	1/4" BSPT		NS4D24004BSPT06	NS4D24004BSPT	.96	1.95
IN-LINE FERRULESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID		NS4D20004	.96	1.95
	3/8" OD, 1/4" ID	9.5mm OD, 6.4mm ID	NS4D2000606	NS4D20006	.96	2.09
IN-LINE HOSE BARB	1/8" ID*	3.2mm ID*	NS4D2200206	NS4D22002	.96	1.73
	1/4" ID	6.4mm ID	NS4D2200406	NS4D22004	.96	1.98
	3/8" ID	9.5mm ID	NS4D2200606	NS4D22006	.96	1.98
PANEL MOUNT FERRULESS POLYTUBE FITTING, PTF†	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID		NS4D40004	1.17	2.30
	3/8" OD, 1/4" ID	9.5mm OD, 6.4mm ID	NS4D4000606	NS4D40006	1.17	2.43
PANEL MOUNT HOSE BARB	1/8" ID*	3.2mm ID*	NS4D4200206	NS4D42002	1.17	2.07
	1/4" ID	6.4mm ID	NS4D4200406	NS4D42004	1.17	2.32
	3/8" ID	9.5mm ID	NS4D4200606	NS4D42006	1.17	2.32
PANEL MOUNT HOSE BARB ELBOW	1/4" ID	6.4mm ID		NS4D43004	1.19	2.39
	3/8" ID	9.5mm ID		NS4D43006	1.19	2.39
ELBOW HOSE BARB	1/4" ID	6.4mm ID		NS4D23004	0.96	2.04
	3/8" ID	9.5mm ID		NS4D23006	0.96	2.04
IN-LINE HOSE BARB (RS-232 Interface)	1/8" ID	3.2mm		iNS4DR2200200	For product dimensions visit cpcworldwide.com	
	1/4" ID	6.4mm		iNS4DR2200400		
	3/8" ID	9.5mm		iNS4DR2200600		

Accessories

DESCRIPTION

PANEL MOUNT GASKET REPLACEMENT: For sealing panel mount inserts listed above

MATERIAL

EPDM
FKM

PART NO.

1879800
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).

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

Non-spill design
Color coding
Glass-filled polypropylene
CPC thumb latch

BENEFITS

Disconnect under pressure with no spills
Instant visual differentiation of media lines
Durable and compatible with many chemicals
One-hand connection and disconnection

Specifications ● ● ●

PRESSURE:

Vacuum to 120 psi, 8.3 bar

TEMPERATURE:

32°F to 160°F (0°C to 71°C)

MATERIALS:

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

Thumb latch: Glass-filled polypropylene

Valve spring (wetted): 316 stainless steel

External spring: 316 stainless steel

O-rings: EPDM

COLOR:

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

TUBING SIZES:

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

LUBRICANTS: Krytox® PFPE (inert)

SPILLAGE:

~0.03 cc per disconnect @ 0 psi, ~0.30 cc/disconnect @ 120 psi

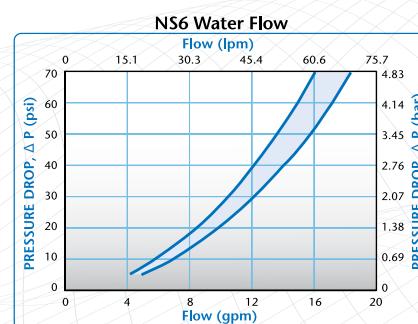
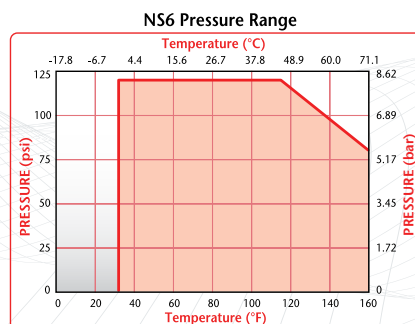
INCLUSION: 0.42 cc per connect

*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.

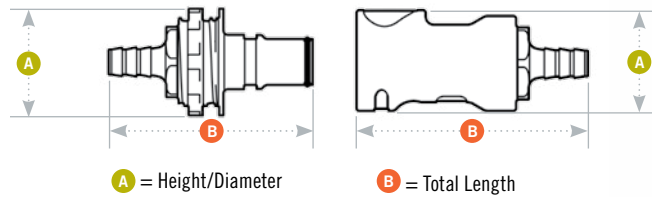
†NOTE: Standard product is gray; color options require a set-up charge and minimum quantities. Please contact CPC for details.



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.

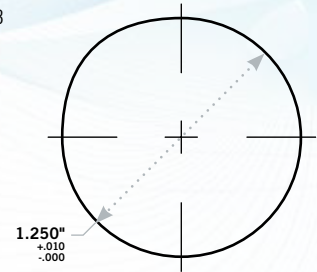


NS6 DIMENSIONS



Panel Dimensions

	PANEL OPENING	PANEL THICKNESS MAX. - MIN.
COUPLING INSERTS	see drawing	.25 - .03



Coupling Bodies • POLYPROPYLENE

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	SHUTOFF	A	B
IN-LINE PIPE THREAD	1/2" NPT 1/2" BSPT		NS6D10008 NS6D10008BSPT	1.31 1.31	3.01 3.01
IN-LINE COMPRESSION	1/2" OD	12.7mm OD	NS6D13008	1.31	3.53
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

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	SHUTOFF	A	B
IN-LINE PIPE THREAD	1/2" NPT 1/2" BSPT		NS6D24008 NS6D24008BSPT	1.31 1.31	2.44 2.44
IN-LINE COMPRESSION	1/2" OD	12.7mm OD	NS6D20008	1.31	3.01
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
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

Accessories

DESCRIPTION

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

MATERIAL

EPDM
FKM

PART NO.

1884300
1889600

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.

NSH SERIES CONNECTOR



NSH Series couplings couplings are general purpose versions of our pressure-balanced, non-spill, ChemQuik® CQG06 couplings. Molded polypropylene, EPDM seals and a 100% springless and metal-free flow path provide broad chemical resistance and exceptionally high flow capacity, allowing instant disconnects (and reconnects), even under pressure. Their non-spill design virtually eliminates spills, minimizes downtime and enhances operator safety in a very low cost package.

FEATURES

Non-spill design

Pressure-balanced design

Springless flow path design

Optional color coding

BENEFITS

Ultimate protection from chemicals and fumes

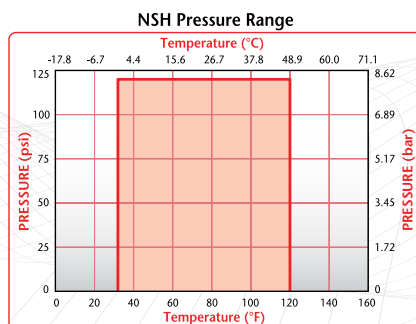
Failsafe disconnect, even under pressure; easy to reconnect at high pressure

Eliminates source of metallic contaminants

Helps prevent accidental misconnects



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



Specifications ● ● ●

PRESSURE:

Vacuum to 120 psi, 8.3 bar

TEMPERATURE:

32°F to 120°F (0°C to 49°C)

MATERIALS:

Main components: Glass-filled polypropylene

Thumb latch: Glass-filled polypropylene

O-rings: EPDM

Springs (non-wetted): 316 stainless steel

Compression nuts: White polypropylene

COLOR:

Gray with dark gray accent standard; red or blue thumb latch and insert tip available.

TUBING SIZES:

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

LUBRICANTS:

Krytox® PFPE (inert)

SPILLAGE:

0.03 cc/connect

INCLUSION:

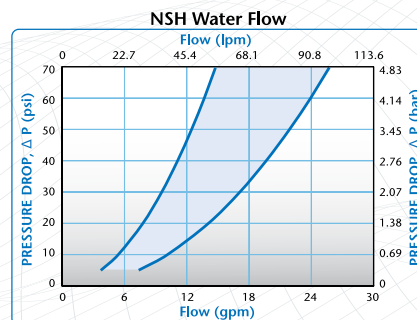
0.42 cc per connect

PANEL MOUNT:

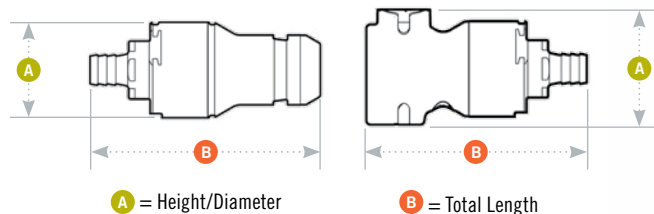
Optional adaptor kit (see page 69)

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 below as a guide.

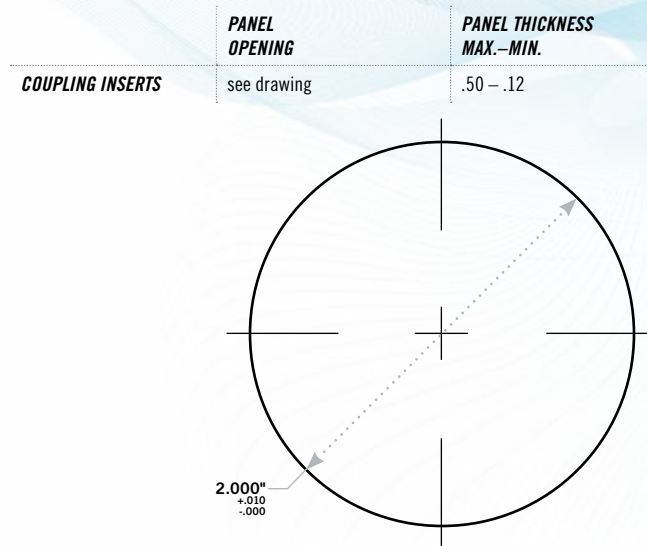
Compatible with ChemQuik® Dual Containment System; DrumQuik® Universal Dispense System and Asian Drum Adaptors.



NSH DIMENSIONS



Panel Dimensions



Coupling Bodies • POLYPROPYLENE

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

Coupling Inserts • POLYPROPYLENE

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

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

Accessories



DESCRIPTION
PANEL MOUNT KIT: with panel seal
Dust plug/cap for body or insert*

PART NO.
NSHPMKIT12
1800700 (not shown)

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

Color-coded thumb latch

High flow capacity

Redundant multilobed seals

Locking hose barb

BENEFITS

Simple, intuitive one-handed operation with visual difference in cooling lines

Cost-effective fluid handling system

Protection against leakage and ability to withstand extended periods of connection

Quality connection with reinforced tubing used in liquid cooling applications

Specifications

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 gal/min at 0 – 100 psi

0.25 gal/min at 101 – 200 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:

¼" ID (6.4mm ID)

LUBRICANTS: Krytox® PFPE

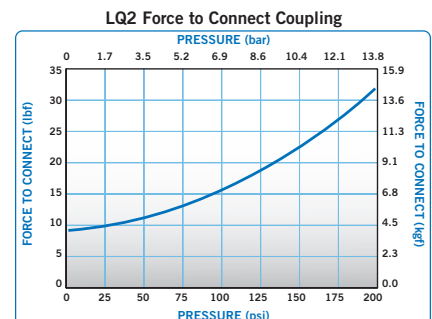
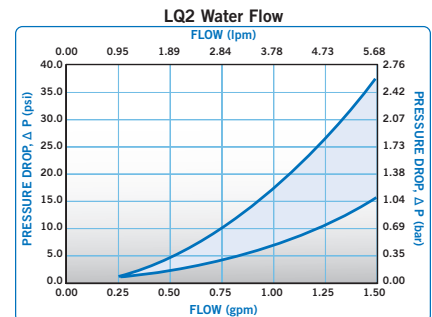
SPILLAGE:

<0.015 cc per disconnect at 0 psi

<0.063 cc per disconnect rated at 200 psi

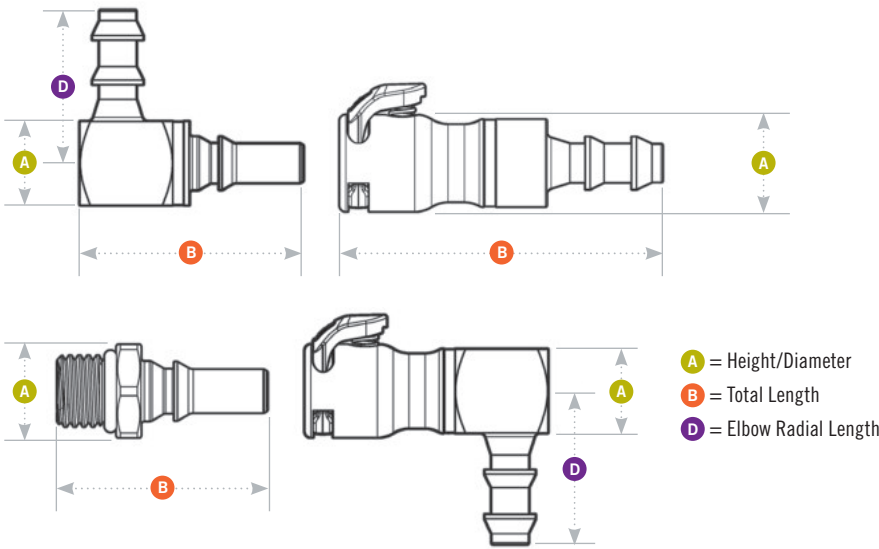
INCLUSION: <0.063 cc per connect

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



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

Coupling Inserts • CHROME-PLATED BRASS



	TUBING/THREAD SIZE	METRIC EQ.	SHUTOFF	A	B	D
TERMINATION IN-LINE LOCKING HOSE BARB	¼" ID	6.4mm ID	LQ2D2204LRED LQ2D2204LBLU	0.562	1.96	
IN-LINE STRAIGHT THREAD PORT SAE	¼ SAE		LQ2D4604RED LQ2D4604BLU	0.625	1.28	
ELBOW LOCKING HOSE BARB	¼" 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.

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

Non-spill design
Redundant sealing when connected
Color-coding
Friction-free valve
Ruggedness
Rotation allows movement

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
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:

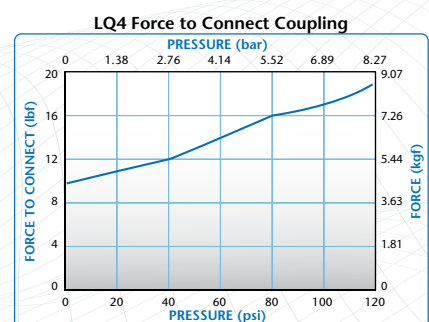
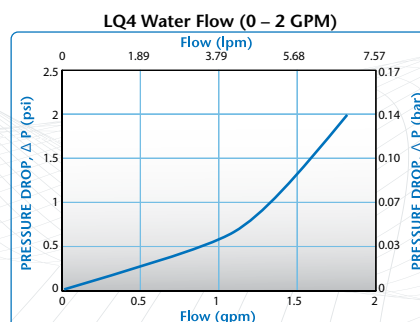
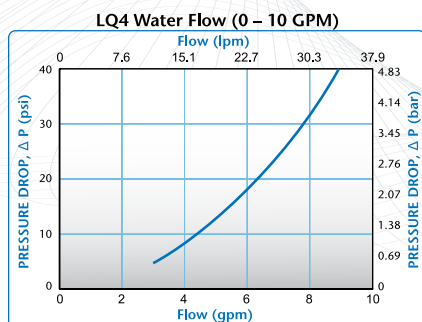
0.025 cc per disconnect rated at 0 psi

0.055 cc per disconnect rated at 120 psi

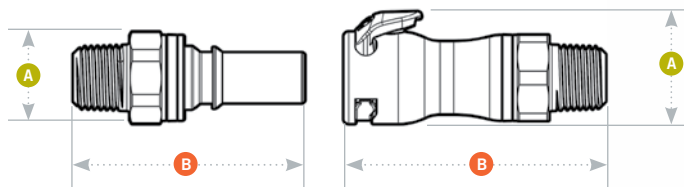
INCLUSION: 0.025 cc per connect

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.







LQ4 DIMENSIONS







A = Height/Diameter
B = Total Length

Coupling Bodies • CHROME-PLATED BRASS

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	SHUTOFF	A	B
 IN-LINE HOSE BARB	1/4" ID	6.4mm ID	LQ4D17004RED	0.98	2.49
	1/4" ID	6.4mm ID	LQ4D17004BLU	0.98	2.49
	3/8" ID	9.5mm ID	LQ4D17006RED	0.98	2.49
	3/8" ID	9.5mm ID	LQ4D17006BLU	0.98	2.49
 IN-LINE STRAIGHT THREAD PORT SAE	1/4 SAE-4		LQ4D30004RED	0.98	2.29
	1/4 SAE-4		LQ4D30004BLU	0.98	2.29
	3/8 SAE-6		LQ4D30006RED	0.98	2.29
	3/8 SAE-6		LQ4D30006BLU	0.98	2.29
 IN-LINE PIPE THREAD	1/4" NPT		LQ4D10004RED	0.98	2.31
	1/4" NPT		LQ4D10004BLU	0.98	2.31
	3/8" NPT		LQ4D10006RED	0.98	2.31
	3/8" NPT		LQ4D10006BLU	0.98	2.31
 IN-LINE PTF	1/4" ID x 3/8" OD		LQ4D13006RED	0.98	2.46
	1/4" ID x 3/8" OD		LQ4D13006BLU	0.98	2.46

Coupling Inserts • CHROME-PLATED BRASS

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

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.

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

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" of fully engaged to achieve maximum flow.

MATERIALS:

Main housing components: Chrome-plated brass

Valves: Polysulfone

Valve spring (wetted): Stainless steel

Seals: EPDM

COLOR:

Chrome with Cool Blue or Chrome with Warm Red

THREAD SIZES:

1/4" to 3/8" NPT or SAE

LUBRICANTS:

Krytox® PFPE

SPILLAGE:

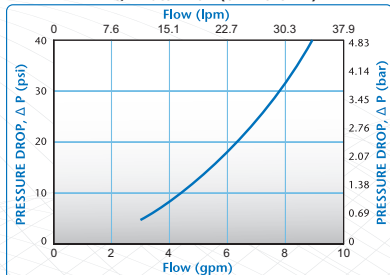
0.025 cc per disconnect rated at 0 psi

0.055 cc per disconnect rated at 120 psi

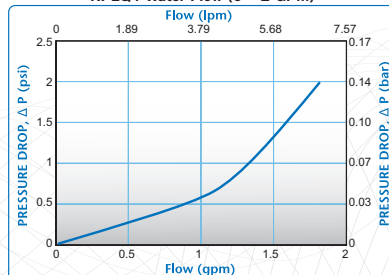
INCLUSION:

0.025 cc per connect

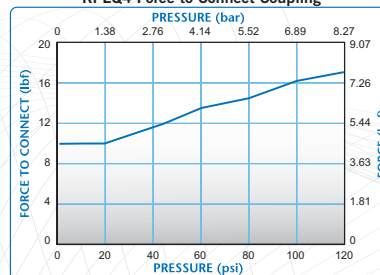
RPLQ4 Water Flow (0 – 20 GPM)



RPLQ4 Water Flow (0 – 2 GPM)



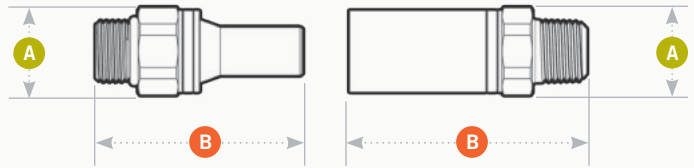
RPLQ4 Force to Connect Coupling



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.

Product Dimensions

A = HEIGHT/DIAMETER
B = TOTAL LENGTH



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

Coupling Bodies • CHROME-PLATED BRASS



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

Coupling Inserts • CHROME-PLATED BRASS



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

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

Non-spill design
Redundant sealing when connected
Color-coding
Friction-free valve
Ruggedness
Rotation allows movement

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
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:

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:

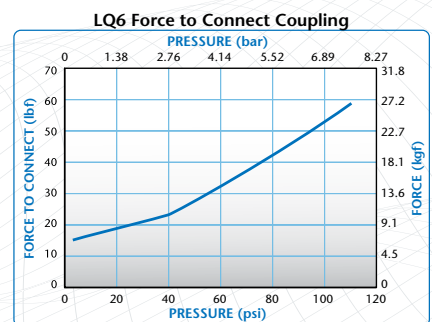
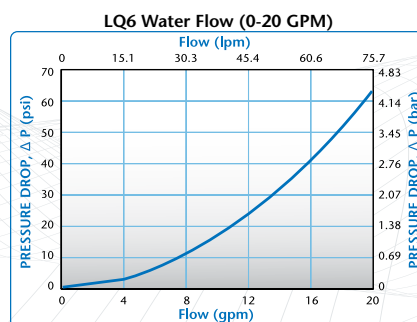
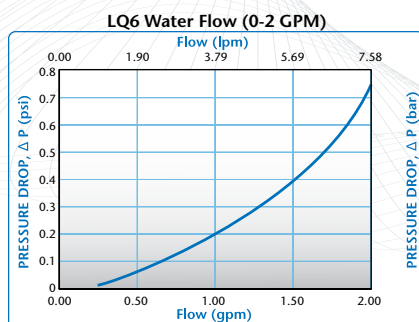
0.05 cc per disconnect rated at 0 psi

0.125 cc per disconnect rated at 120 psi

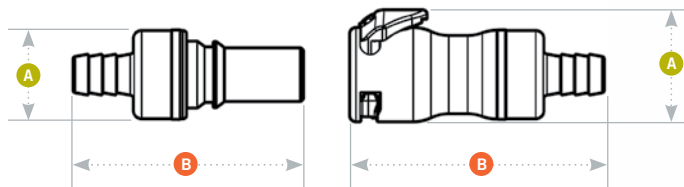
INCLUSION: 0.42 cc per connect

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.







LQ6 DIMENSIONS







A = Height/Diameter

B = Total Length

Coupling Bodies • CHROME-PLATED BRASS

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

Coupling Inserts • CHROME-PLATED BRASS

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

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