

**CONNECTIONS for
LIQUID COOLING**

CONNECTIONS FOR LIQUID COOLING



BENEFITS OF CONNECTIONS FOR LIQUID COOLING

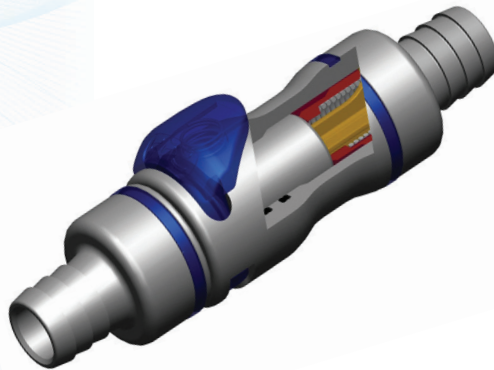
CPC's couplings are designed with a variety of features that provide safe and secure disconnects for protecting critical fluid applications:

- Automatic non-spill shutoff valves help keep electronics safe by eliminating drips
- Integral terminations result in fewer potential leak points, shorter assemblies and faster installations
- Multiple options for materials, configurations, sizes and valves
- Custom solutions to meet unique application needs

Request a sample at cpcworldwide.com/cool or by calling 800-444-2474.

Protect your valuable electronics with the unmatched design, quality and reliability of CPC quick disconnect couplings. CPC's quick disconnect couplings for liquid cooling applications provide ultra-reliable, drip-free connections and disconnections.

The leader in connection technology, CPC has been delivering quick disconnect couplings for liquid cooling of electronics for over 20 years. Applications for CPC's liquid cooling connections include PCs, supercomputers, data centers, chillers, medical equipment and many others that require quality and performance for critical fluid handling solutions.



Attributes for Reliability

Understanding your application is the key to selecting the proper connection. When selecting quick disconnect couplings for liquid cooling it is important to look for the following five attributes to ensure reliability:

ROBUST DESIGN

Liquid cooling system quick disconnect couplings need to be durable, robust and be able to withstand long periods of connection before disconnection. Couplings should also be designed for low pressure drop in order to minimize flow restriction.

DRY DISCONNECT CAPABILITY

Dry disconnect couplings reduce spillage of water or coolant to near zero, giving technicians the confidence to connect and disconnect couplings without drips that can damage or destroy equipment.

RESILIENT SEALS

Couplings used in liquid cooling applications remain in a connected state for extended periods. Upon disconnection and reconnection, they need to function perfectly so there are no drips or leaks of coolants. Seals need to have high reliability.

EASE OF USE

It is important to be able to easily disconnect the cooling loops from servers with no spills. Valves on the coupling need to reliably close when disconnected.

MATERIALS COMPATIBILITY

Determine whether the coolant is compatible with the connector. Compatibility can be ensured by using quick disconnect couplings designed specifically for liquid cooling.

BLQ2 SERIES CONNECTOR



BLQ2 Series quick disconnect couplings provide ultra-reliable, dripless connections and disconnections that protect valuable electronics. Designed specifically for rack mounted liquid cooling applications, the BLQ2 utilizes patent-pending valve technology that eliminates drips and is able to withstand long-term connection.

FEATURES

- Non-spill design
- Redundant sealing when connected
- Friction-free valve
- Ruggedness
- Axial engagement tolerance

BENEFITS

- Disconnect under pressure with no spills
- Extra protection from leaks
- 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 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; .025 gal/min at 101 - 200 psi

MATERIALS:

Main Housing Components:

Chrome-plated brass

Valves: Polysulfone

Valve Springs (wetted): Stainless steel

Seals: EPDM

COLOR:

Chrome

THREAD SIZES:

1/4" SAE-4

LUBRICANTS:

Krytox® PFPE

SPILLAGE:

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

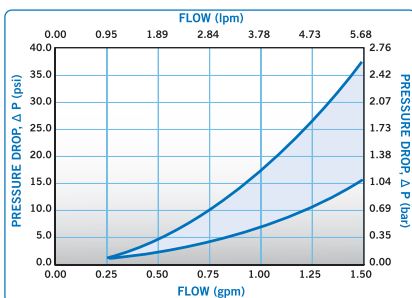
INCLUSION:

<0.063 cc per connect

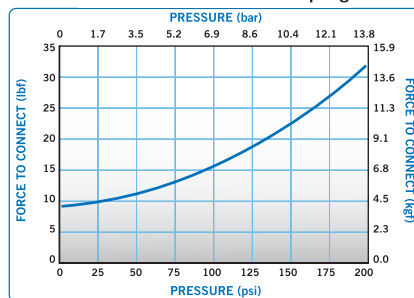
WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

✓ 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

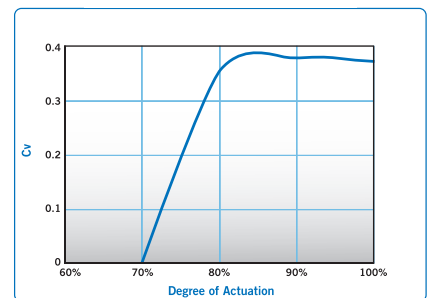
BLQ2 Water Flow



BLQ2 Force to Connect Coupling



BLQ2 Actuation vs Cv

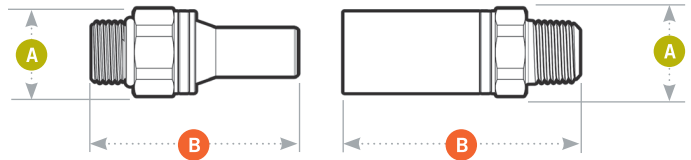


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BLQ2 SERIES CONNECTOR

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

A = Height/Diameter
B = Total Length



Coupling Bodies • CHROME-PLATED BRASS



TERMINATION
IN-LINE STRAIGHT
THREAD PORT SAE

TUBING/THREAD SIZE
¼ SAE-4

METRIC EQ.
SAE 4

SHUTOFF
BLQ2D3004

A
0.62

B
1.310

Coupling Inserts • CHROME-PLATED BRASS



TERMINATION
IN-LINE STRAIGHT
THREAD PORT SAE

TUBING/THREAD SIZE
¼ SAE-4

METRIC EQ.
SAE 4

SHUTOFF
BLQ2D4604

A
0.620

B
1.320



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Smart fluid handling to take you forward, faster.

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WARRANTY: All sales are subject to Colder Products Company's limited express warranty set forth in the CPC catalog. Contact your local distributor or CPC Customer Service for warranty provisions.

Warning: Due to the wide variety of possible fluid media and operating conditions, unintended consequences may result from the use of this product, all of which are beyond the control of CPC. It is the user's responsibility to carefully determine and test for compatibility for use with their application. All such risks shall be assumed by the buyer.

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BLQ4 SERIES CONNECTOR



BLQ4 Series quick disconnect couplings provide ultra-reliable, dripless connections and disconnections that protect valuable electronics. Designed specifically for rack mounted liquid cooling applications, BLQ4 utilizes patent-pending valve technology that eliminates drips and is able to withstand long-term use.

FEATURES

- Non-spill design
- Redundant sealing when connected
- Friction-free valve
- Ruggedness
- Axial engagement tolerance

BENEFITS

- Disconnect under pressure with no spills
- Extra protection from leaks
- 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 Springs (wetted): Stainless steel

Seals: EPDM

THREAD SIZES:

Insert: SAE-6

Body: SAE-8

LUBRICANTS:

Krytox® PFPE

SPILLAGE:

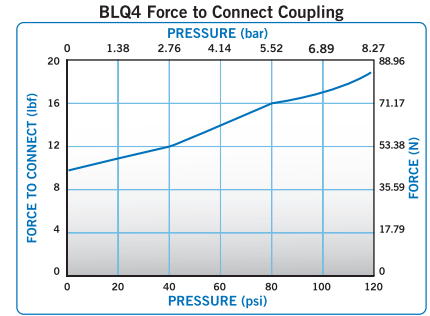
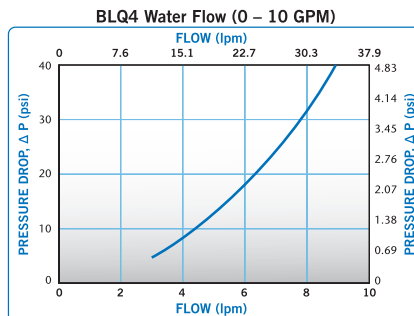
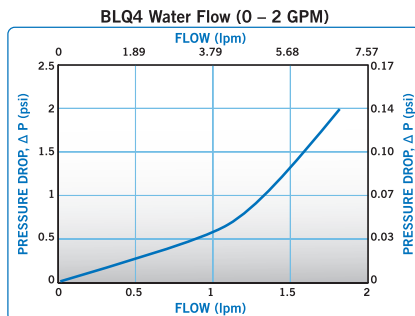
<0.025 cc per disconnect at 0 psi;
<0.055 cc per disconnect at 120 psi

INCLUSION:

<0.025 cc per connect

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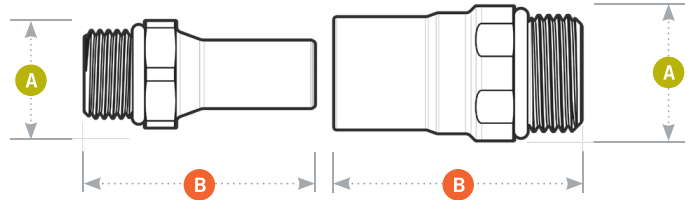


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BLQ4 SERIES CONNECTOR

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A = Height/Diameter
B = Total Length



Coupling Bodies • CHROME-PLATED BRASS



TERMINATION
IN-LINE STRAIGHT
THREAD PORT SAE

TUBING/THREAD SIZE
SAE-8

METRIC EQ.

SHUTOFF
BLQ4D30008

A
0.90

B
1.60

Coupling Inserts • CHROME-PLATED BRASS



TERMINATION
IN-LINE STRAIGHT
THREAD PORT SAE

TUBING/THREAD SIZE
SAE-6

METRIC EQ.

SHUTOFF
BLQ4D46006

A
0.75

B
1.50



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LQ2 SERIES CONNECTOR



The LQ2 Series with 1/8" flow is designed for liquid cooling applications. With a small form factor for tight spaces, LQ2 connectors offer a high-flow capacity to optimize system performance while providing ultra-reliable, dripless connections and disconnections to protect valuable electronics. Patent pending valve technology eliminates drips and are designed for long-term use. EPDM and FKM seals are standard options for compatibility with glycol/water and dielectric coolants. For other material and termination options see your regional CPC sales representative.

FEATURES

Non-spill design
Redundant multi-lobed seals
High flow capacity with low pressure drop
EPDM or FKM seals
Ergonomic body and latch design with audible click
Color coding
Low profile
Swivel connection
Barbed and threaded terminations

BENEFITS

Disconnect under pressure with no spills
Extra protection from leaks over an extended period of time
Efficient, cost-effective cooling system
Options support common coolants used in liquid cooling applications (i.e. glycol/water, mineral oil, synthetic oils, ElectroCool®)
Simple, intuitive one-handed operation of latch. Audible click signals secure engagement
Instant visual identification of cooling lines
Meets size requirements for space-constrained electronics
Allows user to orientate latch or tube to facilitate installation and maintenance
Compatibility with various tubing options including reinforced tubing

Specifications

PRESSURE: Vacuum to 200 psi, 13.8 bar

TEMPERATURE:

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

Storage/Shipping: -40°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 (FKM optional)

Compliance: RoHS, REACH

COLOR: Chrome with Cool Blue or Warm Red

TUBING SIZES: 1/4" ID (6.4mm ID)

LUBRICANTS: Krytox® PFPE

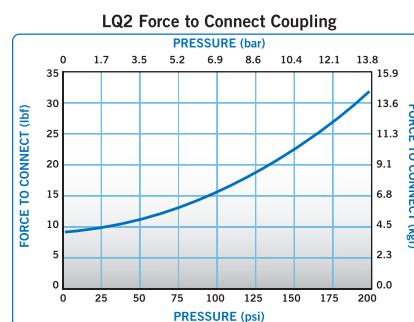
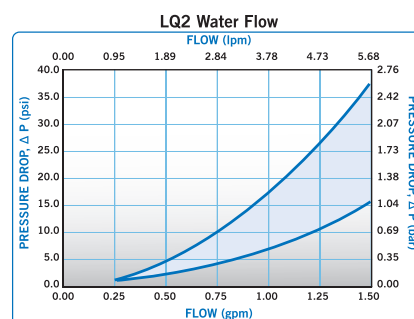
SPILLAGE:

<0.015 cc per disconnect at 0 psi

<0.063 cc per disconnect rated at 200 psi

INCLUSION: <0.063 cc per connect

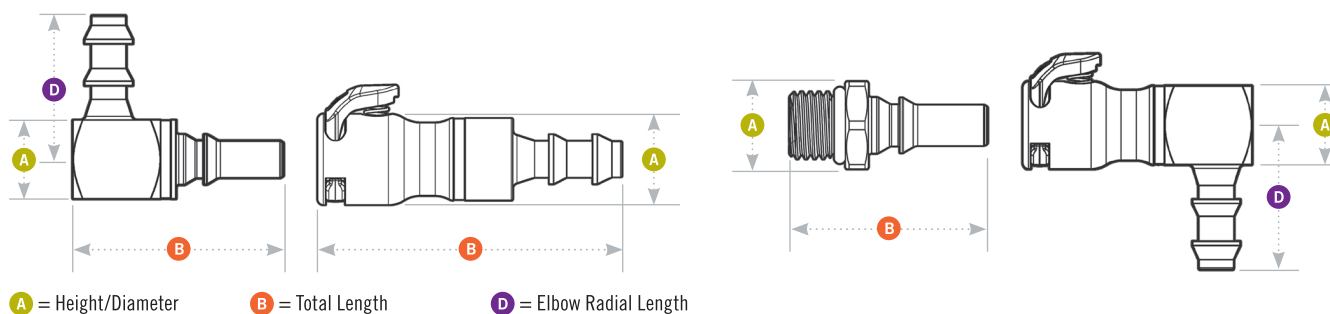
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LQ2 SERIES DIMENSIONS



Coupling Bodies • CHROME-PLATED BRASS

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	SHUTOFF	A	B	D
IN-LINE LOCKING HOSE BARB	1/4" ID	6.4mm ID	LQ2D1704LRED LQ2D1704LBLU	0.82	2.09	
IN-LINE STRAIGHT THREAD PORT SAE	1/4 SAE-4:7/16-20 ¹		LQ2D3004RED LQ2D3004BLU	0.82	1.72	
ELBOW LOCKING HOSE BARB	1/4" ID	6.4mm ID	LQ2D3304LRED LQ2D3304LBLU	1.54	1.64	1.03
IN-LINE THREAD G / BSPP	G1/8		LQ2D3102RED LQ2D3102BLU	0.82 0.82	1.67 1.67	

Coupling Inserts • CHROME-PLATED BRASS

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	SHUTOFF	A	B	D
IN-LINE LOCKING HOSE BARB	1/4" ID	6.4mm ID	LQ2D2204LRED LQ2D2204LBLU	0.562	1.96	
IN-LINE STRAIGHT THREAD PORT SAE	1/4 SAE-4:7/16-20 ¹		LQ2D4604RED LQ2D4604BLU	0.625	1.28	
ELBOW LOCKING HOSE BARB	1/4" ID	6.4mm ID	LQ2D2304LRED LQ2D2304LBLU	1.313	1.51	1.03
IN-LINE THREAD G / BSPP	G1/8		LQ2D4702RED LQ2D4702BLU	0.59 0.59	1.2 1.2	

Note: For FKM seal option, add V suffix to part number. Example: LQ2D3004REDV
¹All SAE terminations are compatible with SAE J1926-1 ports.



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SPEC1048 02/20 GLS/750 PRINTED IN THE U.S.A.

LQ4 SERIES CONNECTOR



The LQ4 Series quick disconnects with 1/4" flow offer a relative high-flow capacity to optimize system performance while providing ultra-reliable, dripless connections and disconnections to protect valuable electronics. LQ4 fittings are designed for long-term use and feature patent pending valve technology that eliminates drips. EPDM and FKM seals are standard options for compatibility with glycol/water or dielectric coolants. For other material and termination options see your regional CPC sales representative.

FEATURES

Non-spill design

Redundant multi-lobed seals

High flow capacity with low pressure drop

EPDM or FKM seals

Ergonomic body and latch design with audible click

Color coding

Low profile

Swivel connection

Barbed and threaded terminations

BENEFITS

Disconnect under pressure with no spills

Extra protection from leaks over an extended period of time

Efficient, cost-effective cooling system

Options support common coolants used in liquid cooling applications (i.e. glycol/water, mineral oil, synthetic oils, ElectroCool®)

Simple, intuitive one-handed operation of latch. Audible click signals secure engagement

Instant visual identification of cooling lines

Meets size requirements for space-constrained electronics

Allows user to orientate latch or tube to facilitate installation and maintenance

Compatibility with various tubing options including reinforced tubing

Specifications

PRESSURE: Vacuum to 120 psi, 8.3 bar

TEMPERATURE:

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

Storage/Shipping: -40°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 Springs (wetted): Stainless steel

External springs and pin: Stainless steel

Seals: EPDM (FKM optional)

Compliance: RoHS, REACH

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

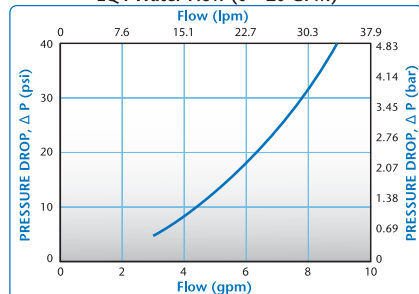
INCLUSION: 0.025 cc per connect

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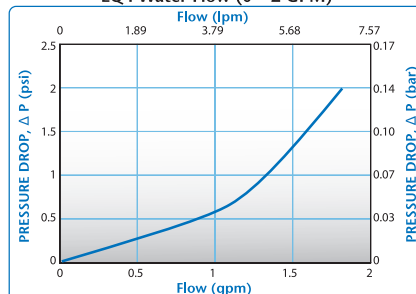
EPDM and FKM seals are options which help support glycol/water and dielectric coolant compatibility.

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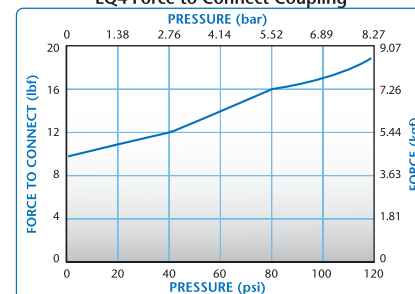
LQ4 Water Flow (0 – 20 GPM)



LQ4 Water Flow (0 – 2 GPM)



LQ4 Force to Connect Coupling

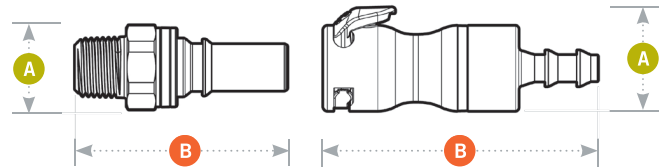


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LQ4 SERIES DIMENSIONS

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A = Height/Diameter
B = Total Length



Coupling Bodies • CHROME-PLATED BRASS

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	SHUTOFF	A	B
	1/4" ID	6.4mm ID	LQ4D17004LBLU	0.98	2.60
	1/4" ID	6.4mm ID	LQ4D17004LRED	0.98	2.60
	3/8" ID	9.5mm ID	LQ4D17006LBLU	0.98	2.69
	3/8" ID	9.5mm ID	LQ4D17006LRED	0.98	2.69
	1/4" ID	6.4mm ID	LQ4D17004RED	0.98	2.50
	1/4" ID	6.4mm ID	LQ4D17004BLU	0.98	2.50
	3/8" ID	9.5mm ID	LQ4D17006RED	0.98	2.50
	3/8" ID	9.5mm ID	LQ4D17006BLU	0.98	2.50
	1/4 SAE-4: 7/16-20 ¹		LQ4D30004RED	1.02	2.21
	1/4 SAE-4: 7/16-20 ¹		LQ4D30004BLU	1.02	2.21
	3/8 SAE-6: 9/16-18 ¹		LQ4D30006RED	1.02	2.24
	3/8 SAE-6: 9/16-18 ¹		LQ4D30006BLU	1.02	2.24
	1/4" NPT		LQ4D10004RED	1.02	2.35
	1/4" NPT		LQ4D10004BLU	1.02	2.35
	3/8" NPT		LQ4D10006RED	1.02	2.35
	3/8" NPT		LQ4D10006BLU	1.02	2.35
	1/4" ID x 3/8" OD		LQ4D13006RED	1.02	2.50
	1/4" ID x 3/8" OD		LQ4D13006BLU	1.02	2.50
	G1/4		LQ4D31004RED	1.00	2.29
			LQ4D31004BLU	1.00	2.29
	G3/8		LQ4D31006RED	1.04	2.29
			LQ4D31006BLU	1.04	2.29

Coupling Inserts • CHROME-PLATED BRASS

TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	SHUTOFF	A	B
	1/4" ID	6.4mm ID	LQ4D22004LBLU	0.74	2.44
	1/4" ID	6.4mm ID	LQ4D22004LRED	0.74	2.44
	3/8" ID	9.5mm ID	LQ4D22006LBLU	0.74	2.53
	3/8" ID	9.5mm ID	LQ4D22006LRED	0.74	2.53
	1/4" ID	6.4mm ID	LQ4D22004RED	0.80	2.34
	1/4" ID	6.4mm ID	LQ4D22004BLU	0.80	2.34
	3/8" ID	9.5mm ID	LQ4D22006BLU	0.80	2.34
	3/8" ID	9.5mm ID	LQ4D22006RED	0.80	2.34
	1/4 SAE-4: 7/16-20 ¹		LQ4D46004BLU	0.88	2.05
	1/4 SAE-4: 7/16-20 ¹		LQ4D46004RED	0.88	2.05
	3/8 SAE-6: 9/16-18 ¹		LQ4D46006BLU	0.75	1.65
	3/8 SAE-6: 9/16-18 ¹		LQ4D46006RED	0.75	1.65
	1/4" NPT		LQ4D24004RED	0.88	2.19
	1/4" NPT		LQ4D24004BLU	0.88	2.19
	3/8" NPT		LQ4D24006RED	0.88	2.19
	3/8" NPT		LQ4D24006BLU	0.88	2.19
	1/4" ID x 3/8" OD		LQ4D20006RED	0.88	2.34
	1/4" ID x 3/8" OD		LQ4D20006BLU	0.88	2.34
	G1/4		LQ4D47004RED	0.85	2.13
			LQ4D47004RED	0.85	2.13
	G3/8		LQ4D47006RED	0.93	1.66
			LQ4D47006RED	0.93	1.66

Note: For FKM seal option, add V suffix to part number. Example: LQ4D30006BLUV

¹All SAE terminations are compatible with SAE J1926-1 ports.



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LQ6 SERIES CONNECTOR



The **LQ6 Series** fittings feature 3/8" flow for liquid cooling of electronics applications. LQ6 offers a high-flow capacity to optimize liquid cooling system performance. They provide ultra-reliable, dripless connections and disconnections to protect valuable equipment. LQ6 fittings use patent pending valve technology that eliminates drips and are designed for long-term use. FKM and EPDM seals are standard options for compatibility with dielectric or glycol/water coolants. For other material and termination options see your regional CPC sales representative.

FEATURES

Non-spill design	Disconnect under pressure with no spills
Redundant multi-lobed seals	Extra protection from leaks over an extended period of time
High flow capacity with low pressure drop	Efficient, cost-effective cooling system
EPDM or FKM seals	Options support common coolants used in liquid cooling applications (i.e. glycol/water, mineral oil, synthetic oils, ElectroCool®)
Ergonomic body and latch design with audible click	Simple, intuitive one-handed operation of latch. Audible click signals secure engagement
Color coding	Instant visual identification of cooling lines
Low profile	Meets size requirements for space-constrained electronics
Swivel connection	Allows user to orientate latch or tube to facilitate installation and maintenance
Barbed and threaded terminations	Compatibility with various tubing options including reinforced tubing

BENEFITS

Specifications

PRESSURE: Vacuum to 120 psi, 8.3 bar

TEMPERATURE:

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

Storage/Shipping: -40°C to 115°C

MATERIALS:

Main Components: Chrome-plated brass

Valves and thumb latch: Polysulfone

Valve Springs (wetted): Stainless steel

External spring: Stainless steel

Seals: EPDM (FKM optional)

Compliance: RoHS, REACH

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:

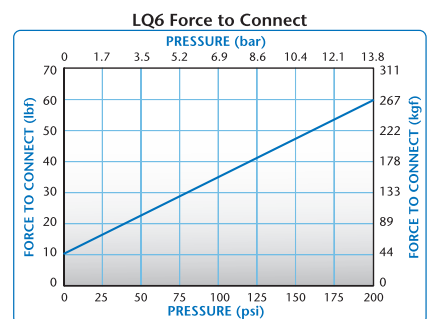
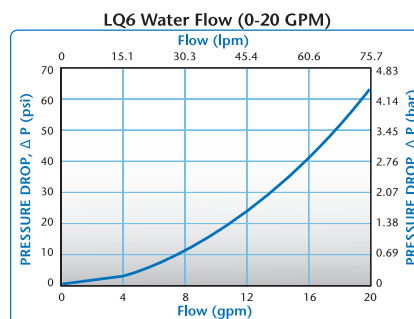
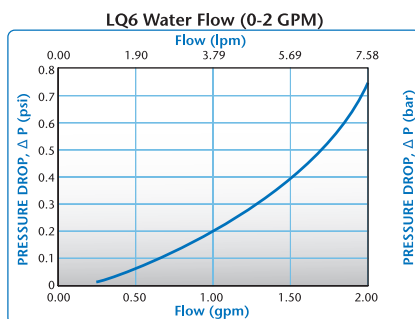
0.03 cc per disconnect rated at 0 psi

0.03 cc per disconnect rated at 120 psi

INCLUSION: 0.22 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

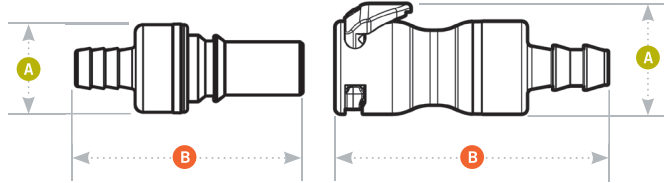


Visit us at cpcworldwide.com or call 800-444-2474 to get a free catalog or to find your local distributor.

LQ6 SERIES DIMENSIONS

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

A = Height/Diameter
B = Total Length



Coupling Bodies • CHROME-PLATED BRASS



TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	SHUTOFF	A	B
IN-LINE LOCKING HOSE BARB	3/8" ID	9.5mm ID	LQ6D17006LBLU	1.19	2.96
	3/8" ID	9.5mm ID	LQ6D17006LRED	1.19	2.96
	1/2" ID	12.7mm ID	LQ6D17008LBLU	1.19	3.08
	1/2" ID	12.7mm ID	LQ6D17008LRED	1.19	3.08
IN-LINE HOSE BARB	3/8" ID	9.5mm ID	LQ6D17006RED	1.19	2.73
	3/8" ID	9.5mm ID	LQ6D17006BLU	1.19	2.73
	1/2" ID	12.7mm ID	LQ6D17008RED	1.19	2.73
	1/2" ID	12.7mm ID	LQ6D17008BLU	1.19	2.73
IN-LINE STRAIGHT THREAD PORT SAE	3/8 SAE-6: 9/16-18 ¹		LQ6D30006RED	1.19	2.47
	1/2 SAE-8: 3/4-16 ¹		LQ6D30006BLU	1.19	2.47
	1/2 SAE-8: 3/4-16 ¹		LQ6D30008RED	1.19	2.52
	1/2 SAE-8: 3/4-16 ¹		LQ6D30008BLU	1.19	2.52
IN-LINE PIPE THREAD	3/8" NPT		LQ6D10006RED	1.19	2.58
	3/8" NPT		LQ6D10006BLU	1.19	2.58
IN-LINE PTF	3/8" ID x 1/2" OD		LQ6D13006RED	1.19	2.91
	3/8" ID x 1/2" OD		LQ6D13006BLU	1.19	2.91
IN-LINE THREAD G / BSPP	G3/8		LQ6D31006BLU	1.25	2.59
			LQ6D31006RED	1.25	2.59
			LQ6D31008BLU	1.25	2.65
			LQ6D31008RED	1.25	2.65

Coupling Inserts • CHROME-PLATED BRASS



TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	SHUTOFF	A	B
IN-LINE LOCKING HOSE BARB	3/8" ID	9.5mm ID	LQ6D22006LBLU	0.93	2.79
	3/8" ID	9.5mm ID	LQ6D22006LRED	0.93	2.79
	1/2" ID	12.7mm ID	LQ6D22008LBLU	0.93	2.91
	1/2" ID	12.7mm ID	LQ6D22008LRED	0.93	2.91
IN-LINE HOSE BARB	3/8" ID	9.5mm ID	LQ6D22006RED	0.93	2.56
	3/8" ID	9.5mm ID	LQ6D22006BLU	0.93	2.56
	1/2" ID	12.7mm ID	LQ6D22008RED	0.93	2.56
	1/2" ID	12.7mm ID	LQ6D22008BLU	0.93	2.56
IN-LINE STRAIGHT THREAD PORT SAE	3/8 SAE-6: 9/16-18 ¹		LQ6D46006RED	1.025	2.30
	1/2 SAE-8: 3/4-16 ¹		LQ6D46006BLU	1.025	2.30
	1/2 SAE-8: 3/4-16 ¹		LQ6D46008RED	1.025	1.95
	1/2 SAE-8: 3/4-16 ¹		LQ6D46008BLU	1.025	1.95
IN-LINE PIPE THREAD	3/8" NPT		LQ6D24006RED	1.025	2.41
	3/8" NPT		LQ6D24006BLU	1.025	2.41
IN-LINE PTF	3/8" ID x 1/2" OD		LQ6D20008RED	1.025	2.74
	3/8" ID x 1/2" OD		LQ6D20008BLU	1.025	2.74
IN-LINE THREAD G / BSPP	G3/8	9.5mm ID	LQ6D47006RED	1.12	2.42
			LQ6D47006BLU	1.12	2.42
	G3/8	12.7mm ID	LQ6D47008RED	1.12	2.04
			LQ6D47008BLU	1.12	2.04

Note: For FKM seal option, add V suffix to part number. Example: LQ6D17006BLUV

¹All SAE terminations are compatible with SAE J1926-1 ports.



We inspire confidence at every point of connection.

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WARNING: Due to the wide variety of possible fluid media and operating conditions, unintended consequences may result from the use of this product, all of which are beyond the control of CPC. It is the user's responsibility to carefully determine and test for compatibility for use with their application. All such risks shall be assumed by the buyer.

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SPEC1034 02/20 GLS/750 PRINTED IN THE U.S.A.

PLQ2 SERIES CONNECTOR



The PLQ2 Series provides ultra-reliable, dripless connections and disconnections that protect valuable electronics. Designed using a high-performance thermoplastic, the PLQ2 connector is lightweight, chemical resistant, UL94 V-0 flame retardant and easy to use—a perfect choice for liquid cooling of electronics applications. These innovative connectors offer a high-flow capacity to optimize thermal management system performance. The PLQ2 Series uses CPC-developed valve technology that eliminates drips and is designed to withstand long-term use.

FEATURES

High-performance thermoplastic material

Designed specifically for liquid cooling applications

Low pressure drop

Robust product testing to ensure reliability

BENEFITS

Lightweight, durable and chemically compatible with widely used liquid cooling fluids

Withstands continuous exposure to moisture with no risk of corrosion

Increases the efficiency of liquid cooling systems

Proven dimensional stability, chemical compatibility and product tested to 10,000 cycles

Specifications

PRESSURE:

Vacuum to 120 psi, 8.3 bar

TEMPERATURE:

0°F to 240°F (-17°C to 115°C)

MATERIALS:

Main Components: Polyphenylsulfone PPSU

Valves and Thumb latch: PPSU

Valve Springs (wetted): Stainless steel

External springs and pin: Stainless steel

Seals: EPDM

Seal Spacer: PTFE

COLOR: Matte Black with Cool Blue or Warm Red

TUBING SIZES:

1/4" ID (6.4mm ID)

LUBRICANTS: Krytox® PFPE

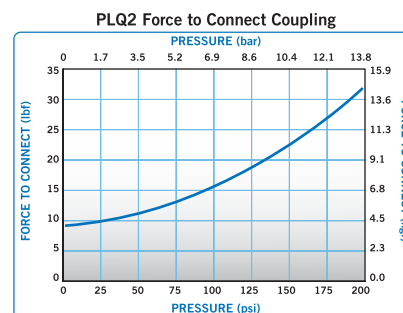
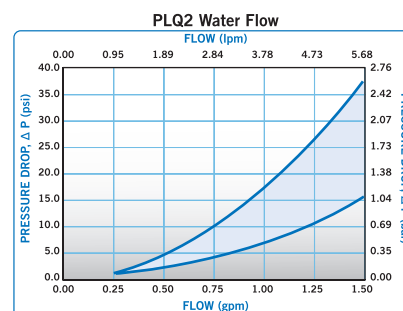
SPILLAGE:

<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.

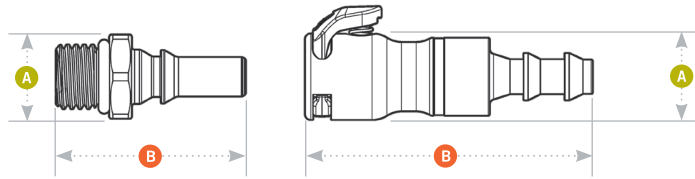


⚠ These graphs are intended to give you a general idea of the performance capabilities of each product line. Contact CPC for flow of a particular coupling combination.

Visit us at cpcworldwide.com or call 800-444-2747 to get a free catalog or to find your local distributor.

PLQ2 SERIES DIMENSIONS

A = Height/Diameter
B = Total Length



Coupling Bodies • POLYPHENYLSULFONE PPSU

	TERMINATION IN-LINE LOCKING HOSE BARB	TUBING/THREAD SIZE 1/4" ID	METRIC EQ. 6.4mm ID	SHUTOFF PLQ2D1704LRED PLQ2D1704BLU	A 0.63	B 2.10
	IN-LINE STRAIGHT THREAD PORT SAE	SAE-4	SAE 4	PLQ2D3004RED PLQ2D3004BLU	0.63	1.71
	IN-LINE G/ BSPP	G1/8	1/8 BSPP	PLQ2D3102RED PLQ2D3102BLU	0.63	1.65

Coupling Inserts • POLYPHENYLSULFONE PPSU

	TERMINATION IN-LINE LOCKING HOSE BARB	TUBING/THREAD SIZE 1/4" ID	METRIC EQ. 6.4mm ID	SHUTOFF PLQ2D2204LRED PLQ2D2204BLU	A 0.63	B 1.96
	IN-LINE STRAIGHT THREAD PORT SAE	SAE-4	SAE 4	PLQ2D4604RED PLQ2D4604BLU	0.63	1.52
	IN-LINE G / BSPP	G1/8	1/8 BSPP	PLQ2D4702RED PLQ2D4702BLU	0.63	1.46

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SPEC1051



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