

EVERIS® BLQ2 SERIES CONNECTOR

Everis® 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 Everis BLQ2 utilizes patented technology that eliminates drips and is able to withstand long-term connection.



SPECIFICATIONS

PRESSURE:

Vacuum to 200 psi, 13.8 bar

TEMPERATURE:

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

Storage/Shipping:

-40°F to 240°F (-40°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 Components:

Nickel-chrome plated brass

Valves: Polysulfone

Valve Springs (wetted): Stainless steel

Seals: EPDM

Compliance: RoHS, REACH

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

AIR INCLUSION: <0.04 cc per connect

FLOW COEFFICIENT: $C_v \sim 0.4$ (0.3 K_v)

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.

FEATURES

Non-spill valve

Redundant multi-lobed seals

Innovative valve design

Ruggedness

Axial engagement tolerance

Single-piece options for body & insert

BENEFITS

Disconnect under pressure with no spills

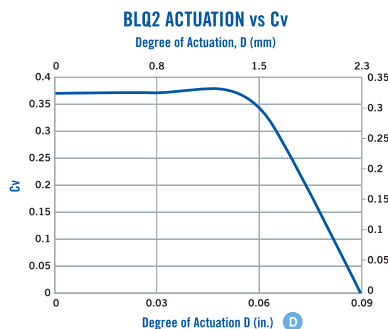
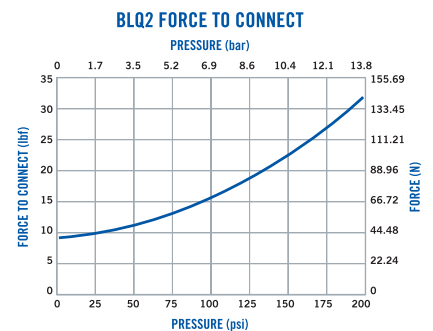
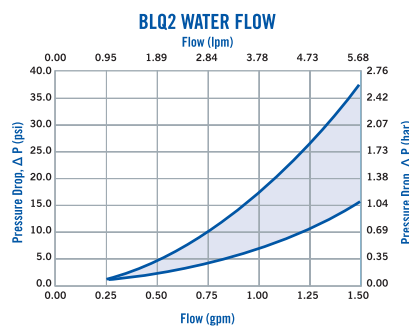
Extra protection from leak-causing contaminants and debris

Enables extended periods in connected state

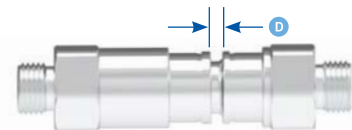
Able to withstand long-term, repeated use

Allows full flow even when not fully engaged

Space saving



ACTUATION LENGTH



EVERIS® BLQ2 SERIES DIMENSIONS

COUPLING BODIES - Nickel-chrome plated brass

	TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	SHUTOFF	HEX	A	B	C
	IN-LINE STRAIGHT THREAD SAE	1/4 SAE-4: 7/16-20 ^{1,2}	N/A	BLQ2D3004	9/16"	0.62 (15.7)	1.31 (33.3)	0.95 (24.1)

COUPLING INSERTS - Nickel-chrome plated brass

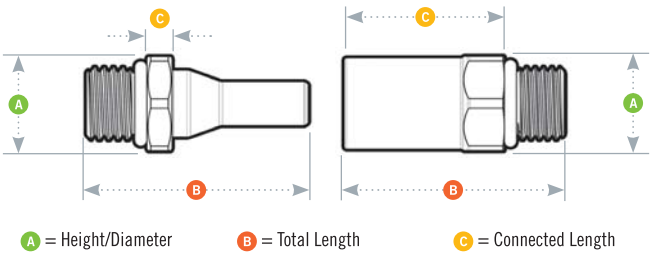
	TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	SHUTOFF	HEX	A	B	C
	IN-LINE STRAIGHT THREAD SAE	1/4 SAE-4: 7/16-20 ^{1,2}	N/A	BLQ2D4604	9/16"	0.62 (15.7)	1.32 (33.3)	0.15 (3.8)

All measurements are in inches (millimeters) unless otherwise noted.
¹All SAE terminations are compatible with SAE J1926-1 ports
²One-piece design

PRODUCT DIMENSIONS



cpcworldwide.com/Everis-BLQ2



Everis® QD Reliability

QDs designed for long-term, connected use with non-spill valves for dripless connection and disconnection.



EVERIS® BLQ4 SERIES CONNECTOR

Everis® BLQ4 Series quick disconnect couplings provide ultra-reliable, dripless connections and disconnections that protect valuable electronics. Designed specifically for rack mounted liquid cooling applications, Everis BLQ4 utilizes patented technology that eliminates drips and is designed for long-term connected use.



SPECIFICATIONS

PRESSURE:

Vacuum to 120 psi, 8.3 bar

TEMPERATURE:

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

Storage/Shipping:

-40°F to 240°F (-40°C to 115°C)

MAXIMUM FLOW AT DISCONNECT:

3.0 gal/min, 11.3L/min

ENGAGEMENT TOLERANCE:

Coupling must be within 1/8" (3mm) of fully engaged to achieve maximum flow.

MATERIALS:

Main Components:

Nickel-chrome plated brass

Valves: Polysulfone

Valve Springs (wetted): Stainless steel

Seals: EPDM

Compliance: RoHS, REACH

THREAD SIZES:

Insert: G 1/4, G 3/8, SAE-4, SAE-6

Body: G 1/4, G 3/8, SAE-4, SAE-6, SAE-8

LUBRICANTS: Krytox® PFPE

SPILLAGE:

<0.025 cc per disconnect at 0 psi;

<0.055 cc per disconnect at 120 psi

AIR INCLUSION: 0.20 cc per connect

FLOW COEFFICIENT: Cv ~1.4 (1.2 Kv)

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.

FEATURES

Non-spill valves

Redundant seals

Innovative valve design

Rugged construction

Axial engagement tolerance

Single-piece options for body & insert

BENEFITS

Disconnect under pressure with no spills

Extra protection from leak-causing contaminants and debris

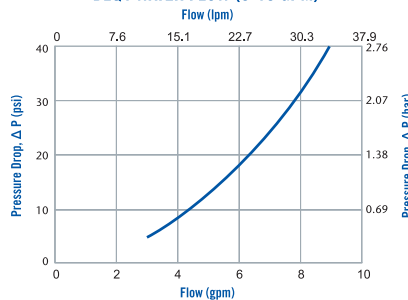
Enables extended periods in connected state

Able to withstand long-term, repeated use

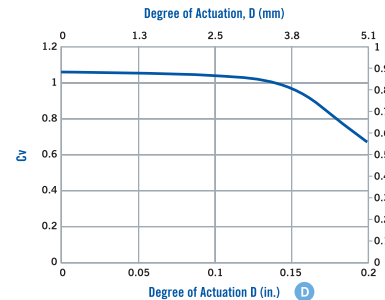
Allows full flow even when not fully engaged

Space saving

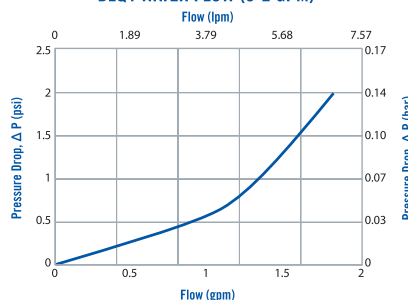
BLQ4 WATER FLOW (0-10 GPM)



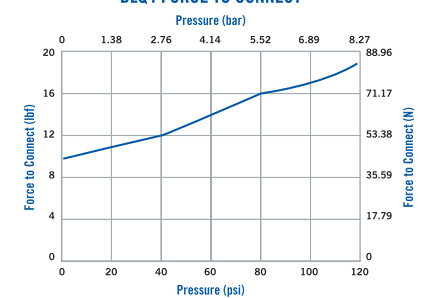
BLQ4 ACTUATION vs Cv



BLQ4 WATER FLOW (0-2 GPM)



BLQ4 FORCE TO CONNECT



EVERIS® BLQ4 SERIES DIMENSIONS

COUPLING BODIES - Nickel-chrome plated brass



TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	SHUTOFF	HEX	A	B	C
IN-LINE STRAIGHT THREAD SAE	1/4 SAE-4: 7/16-20 ¹	N/A	BLQ4D30004	22mm	0.93 (23.6)	2.05 (52.1)	1.64 (41.7)
	3/8 SAE-6: 9/16-18 ¹	N/A	BLQ4D30006	22mm	0.93 (23.6)	2.05 (52.1)	1.64 (41.7)
	1/2 SAE-8: 3/4-16 ^{1,3}	N/A	BLQ4D30008	22mm	0.90 (22.9)	1.60 (40.6)	1.16 (29.5)
IN-LINE STRAIGHT THREAD G / BSPP	G 1/4 (BSPP) ²	N/A	BLQ4D31004	22mm	0.93 (23.6)	2.11 (53.6)	1.70 (43.2)
	G 3/8 (BSPP) ²	N/A	BLQ4D31006	22mm	0.93 (23.6)	2.11 (53.6)	1.70 (43.2)

COUPLING INSERTS - Nickel-chrome plated brass



TERMINATION	TUBING/THREAD SIZE	METRIC EQ.	SHUTOFF	HEX	A	B	C
IN-LINE STRAIGHT THREAD SAE	1/4 SAE-4: 7/16-20 ¹	N/A	BLQ4D46004	22mm	0.93 (23.6)	1.99 (50.5)	0.69 (17.5)
	3/8 SAE-6: 9/16-18 ^{1,3}	N/A	BLQ4D46006	22mm	0.75 (19.1)	1.49 (37.8)	0.19 (4.8)
IN-LINE STRAIGHT THREAD G / BSPP	G 1/4 (BSPP) ²	N/A	BLQ4D47004	22mm	0.93 (23.6)	2.05 (52.1)	0.75 (19.1)
	G 3/8 (BSPP) ^{2,3}	N/A	BLQ4D47006	22mm	0.93 (23.6)	1.49 (37.8)	0.19 (4.8)

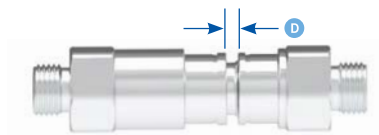
All measurements are in inches (millimeters) unless otherwise noted. Tubing must meet stated inside and outside diameters.

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

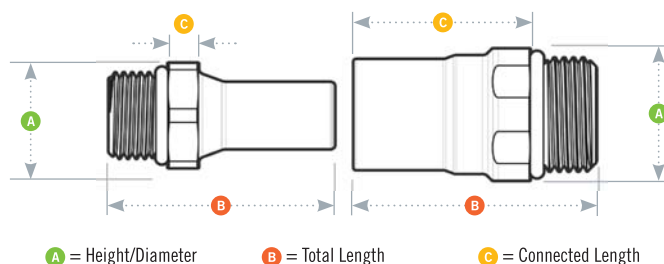
²All G (BSPP) terminations are compatible with ISO 1179-1 ports.

³One-piece design.

ACTUATION LENGTH



PRODUCT DIMENSIONS



cpcworldwide.com/
Everis-BLQ4

EVERIS® BLQ6 SERIES CONNECTOR

Everis® BLQ6 Series quick disconnect couplings Ultra-reliable, no-drip connections for thermal management to help protect valuable electronic systems. Designed specifically for blind mate liquid cooling applications, the BLQ6 Series uses patented technology that eliminates drips and is specifically designed to withstand long-term connection. An optional accessory kit is available for panel mount connections.



SPECIFICATIONS

PRESSURE: Vacuum to 120 psi, 8.3 bar

TEMPERATURE:

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

Storage/Shipping:

-40°F to 240°F (-40°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 Components: Anodized Aluminum

Valves: Polysulfone

Valve Springs (wetted): Stainless steel

Seals: EPDM

Panel Mount Kit: Stainless steel

Compliance: RoHS, REACH

THREAD SIZES:

Insert: SAE-6, G 1/2

Body: SAE-6, G 1/2

LUBRICANTS: Krytox® PFPE

SPILLAGE:

<0.03 cc per disconnect at 0 psi;

<0.03 cc per disconnect at 120 psi

AIR INCLUSION: <0.022 cc per connect

FLOW COEFFICIENT: Cv ~ 2.2 (1.90 Kv)

AXIAL MISALIGNMENT: 1 mm max

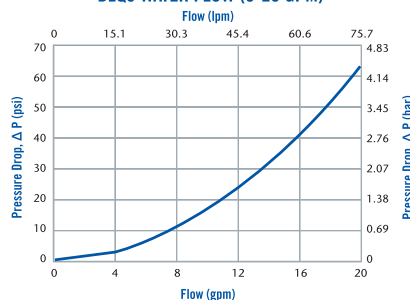
WARNING: Pressure, temperature, chemicals and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

FEATURES

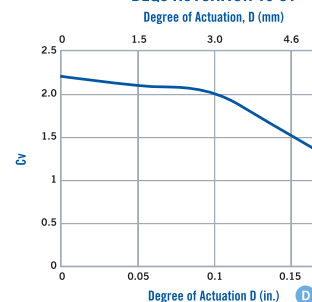
- Non-spill valve → Disconnect under pressure with no spills
- Redundant seals → Extra protection from leak-causing contaminants and debris
- Innovative valve design → Provides reliability for extended periods of operation
- Rugged anodized aluminum → Able to withstand long-term, ongoing and repeated use
- Axial engagement tolerance → Allows full flow even when not fully engaged
- Optional panel mount kit → Enables either the body, insert or both to be panel mounted

BENEFITS

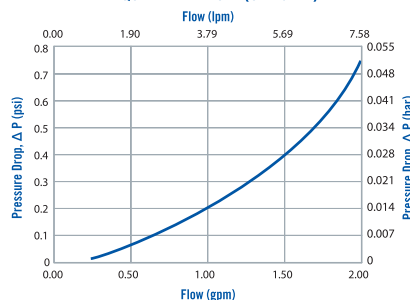
BLQ6 WATER FLOW (0-20 GPM)



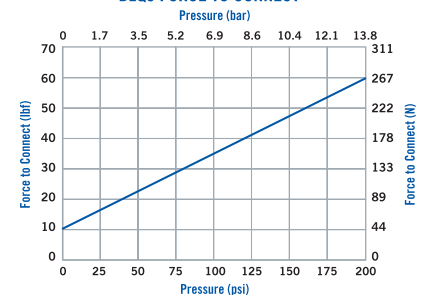
BLQ6 ACTUATION vs Cv



BLQ6 WATER FLOW (0-2 GPM)



BLQ6 FORCE TO CONNECT



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.

EVERIS® BLQ6 SERIES DIMENSIONS

COUPLING BODIES - Anodized Aluminum

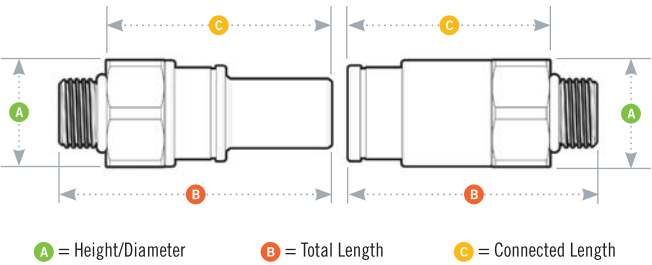
	TERMINATION	TUBING/THREAD SIZE	METRIC EQ	SHUTOFF	HEX	A	B	C
	IN-LINE STRAIGHT THREAD SAE	3/8 SAE-6: 9/16-18 ¹	N/A	BLQ6D30006	7/8"	0.96 (24.4)	2.08 (52.7)	1.68 (42.8)
	IN-LINE STRAIGHT THREAD G / BSPP	G 1/2 ²	N/A	BLQ6D31008	26mm	1.12 (28.4)	2.26 (57.5)	1.76 (44.7)

COUPLING INSERTS - Anodized Aluminum

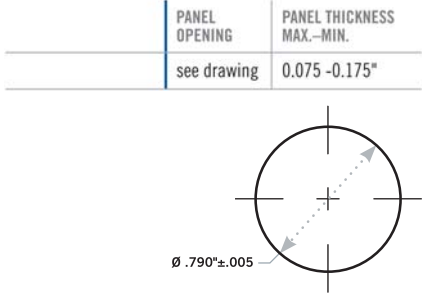
	TERMINATION	TUBING/THREAD SIZE	METRIC EQ	SHUTOFF	HEX	A	B	C
	IN-LINE STRAIGHT THREAD PORT SAE	3/8 SAE-6: 9/16-18 ¹	N/A	BLQ6D46006	7/8"	0.96 (24.4)	2.27 (57.7)	0.99 (25.2)
	IN-LINE STRAIGHT THREAD G / BSPP	G 1/2 ^{2,3}	N/A	BLQ6D47008	26mm	1.12 (28.4)	2.00 (50.9)	0.70 (17.8)

All measurements are in inches (millimeters) unless otherwise noted.
¹All SAE terminations are compatible with SAE J1926-1 ports.
²All G (BSPP) terminations are compatible with ISO 1179-1 ports.
³One-piece design

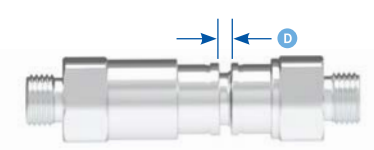
PRODUCT DIMENSIONS



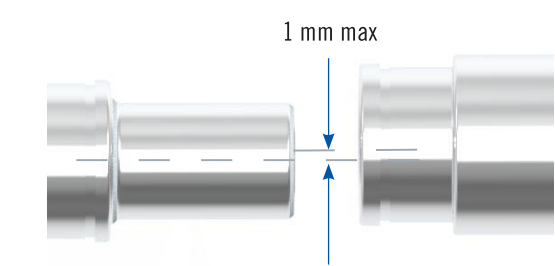
PANEL DIMENSIONS



ACTUATION LENGTH

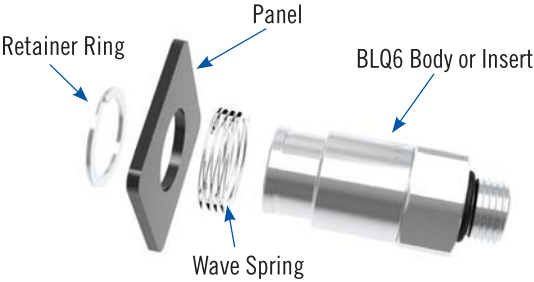


RADIAL TOLERANCE



PANEL MOUNT KIT (P/N BLQ6PMKIT)

Kit includes wave spring and retainer ring only.



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