

# 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

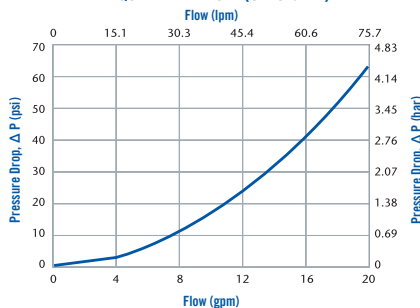
**WARNING:** Pressure, temperature, chemicals and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

## FEATURES

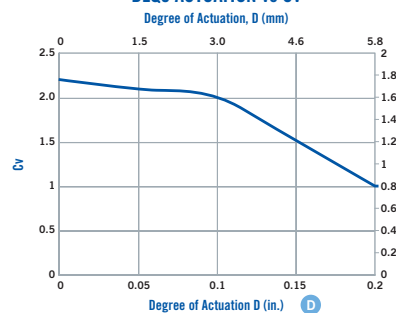
- Non-spill valve → Disconnect under pressure with no spills
- Redundant seals → Extra protection from leak-causing contaminants and debris
- Innovative valve design → Provides reliability for extended periods of operation
- Rugged anodized aluminum → Able to withstand long-term, ongoing and repeated 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

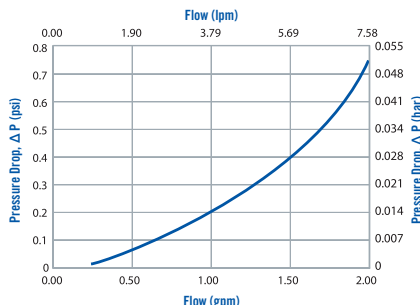
BLQ6 WATER FLOW (0-20 GPM)



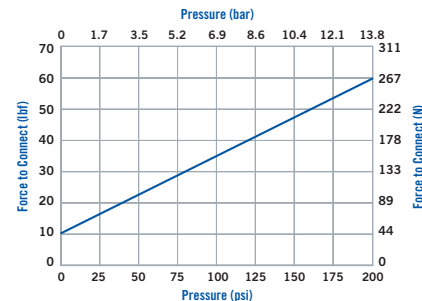
BLQ6 ACTUATION vs Cv



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.



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# EVERIS™ BLQ6 SERIES DIMENSIONS

## COUPLING BODIES - Nickel-chrome plated brass



TERMINATION	TUBING/THREAD SIZE	METRIC EQ	SHUTOFF	HEX	A	B	C
IN-LINE STRAIGHT THREAD SAE	3/8 SAE-6: 9/16-18 <sup>1</sup>	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 <sup>2</sup>	N/A	BLQ6D31008	26mm	1.12 (28.4)	2.26 (57.5)	1.76 (44.7)

## COUPLING INSERTS - Nickel-chrome plated brass



TERMINATION	TUBING/THREAD SIZE	METRIC EQ	SHUTOFF	HEX	A	B	C
IN-LINE STRAIGHT THREAD PORT SAE	3/8 SAE-6: 9/16-18 <sup>1</sup>	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 <sup>2,3</sup>	N/A	BLQ6D47008	26mm	1.12 (28.4)	2.00 (50.9)	0.70 (17.8)

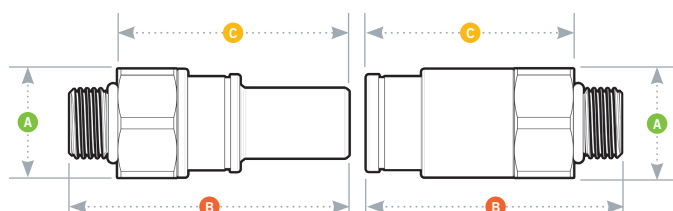
All measurements are in inches (millimeters) unless otherwise noted.

<sup>1</sup>All SAE terminations are compatible with SAE J1926-1 ports.

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

<sup>3</sup>One-piece design

## PRODUCT DIMENSIONS



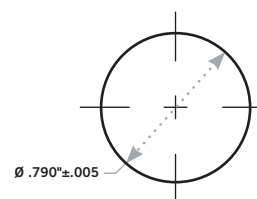
A = Height/Diameter

B = Total Length

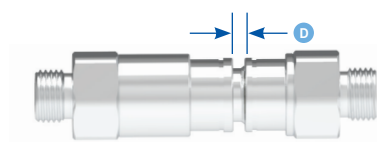
C = Connected Length

## PANEL DIMENSIONS

PANEL OPENING	PANEL THICKNESS MAX.-MIN.
see drawing	0.075 -0.175"

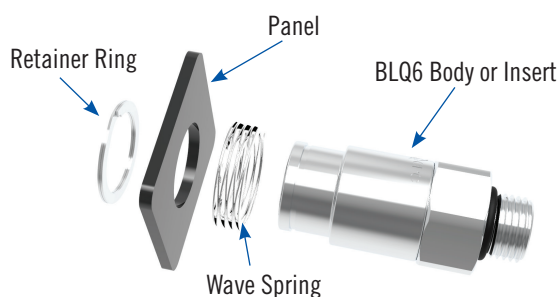


## ACTUATION LENGTH

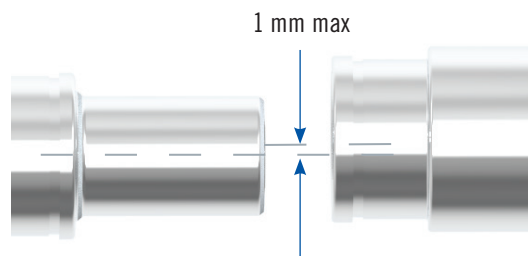


## PANEL MOUNT KIT (P/N BLQ6PMKIT)

Kit includes wave spring and retainer ring only.



## RADIAL TOLERANCE



[cpcworldwide.com/Everis-BLQ6](http://cpcworldwide.com/Everis-BLQ6)

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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CAT2042-BLQ6-1819 Rev. 07/22