

# 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:**  $C_v \sim 2.2$  (1.90 Kv)

**AXIAL MISALIGNMENT:** 1 mm max

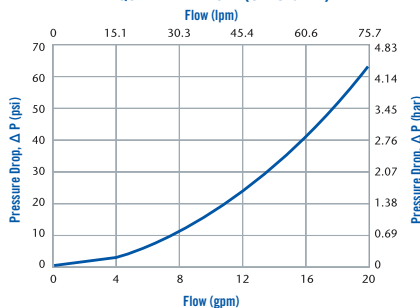
**WARNING:** Pressure, temperature, chemicals and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.

## FEATURES

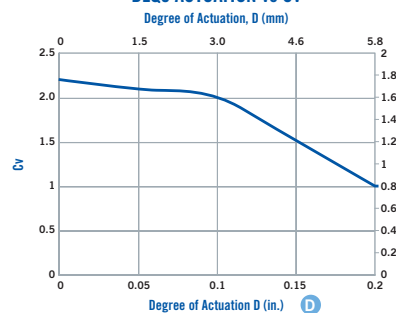
- Non-spill valve → Disconnect under pressure with no spills
- Redundant seals → Extra protection from leak-causing contaminants and debris
- Innovative valve design → Provides reliability for extended periods of operation
- Rugged anodized aluminum → Able to withstand long-term, ongoing and repeated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

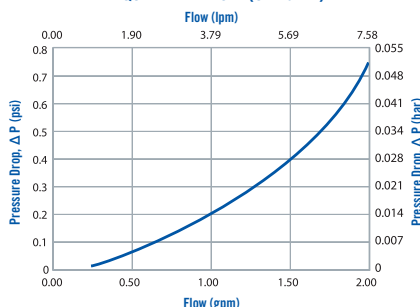
BLQ6 WATER FLOW (0-20 GPM)



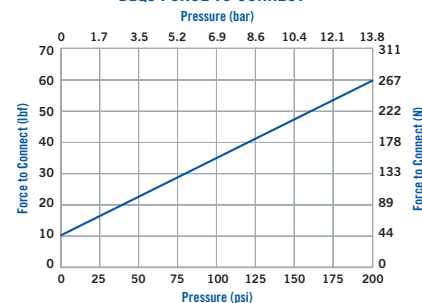
BLQ6 ACTUATION vs  $C_v$



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 - Anodized aluminum

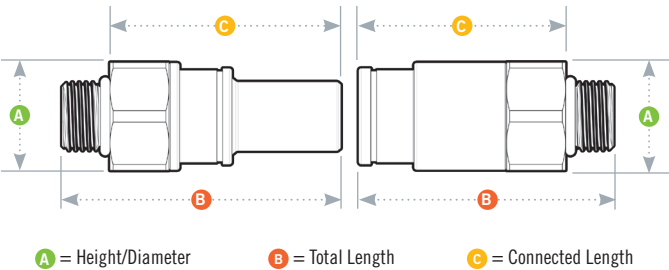
	TERMINATION	TUBING/THREAD SIZE	METRIC EQ	SHUTOFF	HEX	A	B	C
	IN-LINE STRAIGHT THREAD SAE	3/8 SAE-6: 9/16-18 <sup>1</sup>	N/A	BLQ6D30006	7/8"	0.96 (24.4)	2.08 (52.7)	1.68 (42.8)
	IN-LINE STRAIGHT THREAD G / BSPP	G 1/2 <sup>2</sup>	N/A	BLQ6D31008	26mm	1.12 (28.4)	2.26 (57.5)	1.76 (44.7)

## COUPLING INSERTS - 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 <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)

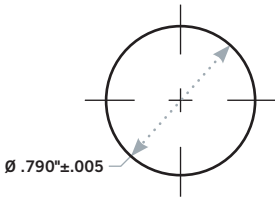
All measurements are in inches (millimeters) unless otherwise noted.  
<sup>1</sup>All SAE terminations are compatible with SAE J1926-1 ports.  
<sup>2</sup>All G (BSPP) terminations are compatible with ISO 1179-1 ports.  
<sup>3</sup>One-piece design

## PRODUCT DIMENSIONS



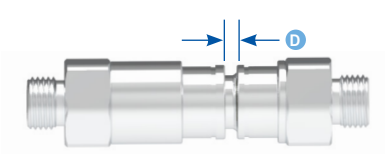
## PANEL DIMENSIONS

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

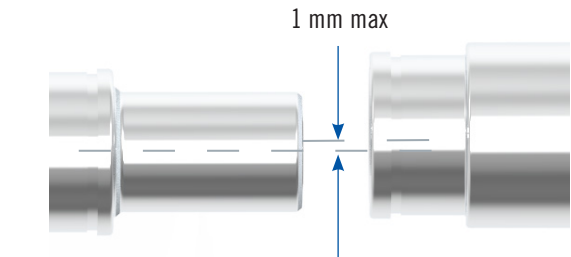


Ø .790"±.005

## ACTUATION LENGTH

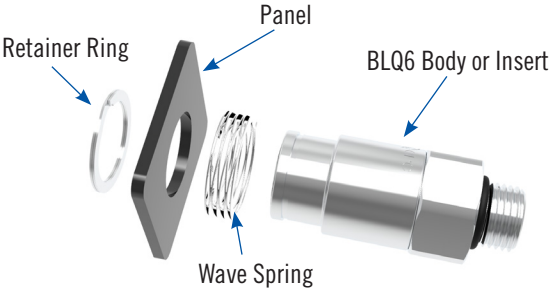


## RADIAL TOLERANCE



## PANEL MOUNT KIT (P/N BLQ6PMKIT)

Kit includes wave spring and retainer ring only.



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