# EVERIS™ PLQ4 SERIES CONNECTOR



**Everis<sup>TM</sup> PLQ4 Series** liquid cooling connectors provide ultra-reliable, dripless connections and disconnections. They are purpose-built for liquid cooling of electronics applications and offer a high-flow capacity to optimize thermal management system performance. Made of PPSU, a high-performance, engineered thermoplastic, Everis PLQ4 connectors are lightweight, and not susceptible to galvanic corrosion. With an ergonomic thumb latch, Everis PLQ4 are easy to use. Everis PLQ4 quick disconnects incorporate CPC's patent-pending valve technology that is designed for long-term use with no spill upon disconnect.

FEATURES	BENEFITS			
Made of high-performance PPSU material	Lightweight, durable and chemically compatible with widely used liquid cooling fluids and UL94 VO flame retardant			
Non-spill valve design	No drips during connection or disconnection			
High flow to size ratio with low pressure drop	Increased cooling efficiency in small spaces			
Ergonomic body and latch design	Simple, intuitive one-handed operation			
Audible click upon connection	Provides connection assurance			
Barbed and threaded termination options	Meets preferences for mounting or tubing connections			
Robust product testing (product tested to 10,000 cycles), dimensional stability	High durability and reliability in long-use applications			

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

## Specifications • • •



#### PRESSURE:

Vacuum to 120 psi, 8.3 bar

#### TEMPERATURE:

Operating: 0°F to 185°F (-17°C to 85°C)

Storage/Shipping:

-40°F to 240°F (-40°C to 115°C)

#### MATERIALS:

Main Components: Polyphenylsulfone PPSU

Valves and Thumb latch: PPSU Valve Springs (wetted): Stainless steel

External spring: Stainless steel

Seals: EPDM Seal Spacer: PTFE

Compliance: RoHS, REACH

#### COLOR:

Matte Black with Cool Blue or Warm Red

#### **TUBING SIZES:**

1/4" to 3/8" ID (6.4mm to 9.5mm ID)

LUBRICANTS: Krytox® PFPE

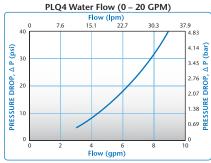
#### SPILLAGE:

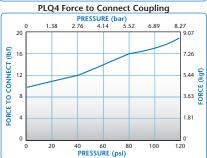
< 0.025 cc per disconnect at 0 psi < 0.055 cc per disconnect at 120 psi

**INCLUSION:** <0.55cc per connect

#### FLOW COEFFICIENT: Cv ~ 1.37 (1.1Kv)

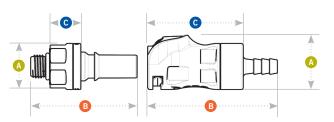
WARNING: Pressure, temperature, chemicals, and operating environment can affect the performance of couplings. It is the customer's responsibility to test the suitability of CPC's products in their own application conditions.





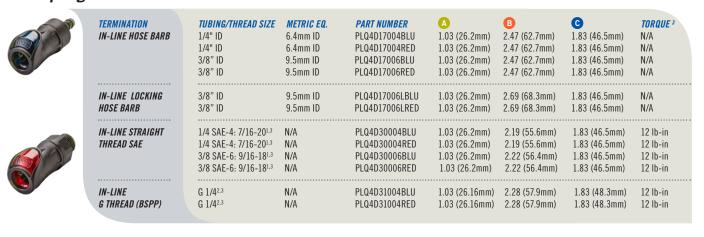
These graphs are intended to give you a general idea of the performance capabilities of each product line. Contact CPC for flow of a particular coupling combination

## EVERIS™ PLQ4 SERIES DIMENSIONS



A = Height/DiameterB = Total LengthC = Connected Length

## **Coupling Bodies** • POLYPHENYLSULFONE PPSU



### **Coupling Inserts • POLYPHENYLSULFONE PPSU**

TERMINATION IN-LINE HOSE BARB	<b>TUBING/THREAD SIZE</b> 1/4" ID 1/4" ID 3/8" ID 3/8" ID	METRIC EQ. 6.4mm ID 6.4mm ID 9.5mm ID 9.5mm ID	PART NUMBER PLQ4D22004BLU PLQ4D22004RED PLQ4D22006BLU PLQ4D22006RED	0.87 (22.10mm) 0.87 (22.10mm) 0.87 (22.10mm) 0.87 (22.10mm)	2.30 (58.4mm) 2.30 (58.4mm) 2.30 (58.4mm) 2.30 (58.4mm)	0.59 (15mm) 0.59 (15mm) 0.59 (15mm) 0.59 (15mm)	TORQUE 3 N/A N/A N/A N/A
IN-LINE LOCKING	3/8" ID	9.5mm ID	PLQ4D22006LBLU	0.87 (22.10mm)		0.59 (15mm)	N/A
HOSE BARB	3/8" ID	9.5mm ID	PLQ4D22006LRED	0.87 (22.10mm)		0.59 (15mm)	N/A
IN-LINE STRAIGHT THREAD SAE	1/4 SAE-4: 7/16-20 <sup>1,3</sup> 1/4 SAE-4: 7/16-20 <sup>1,3</sup> 3/8 SAE-6: 9/16-18 <sup>1,3</sup> 3/8 SAE-6: 9/16-18 <sup>1,3</sup>	N/A N/A N/A N/A	PLQ4D46004BLU PLQ4D46004RED PLQ4D46006BLU PLQ4D46006RED	0.87 (22.10mm) 0.87 (22.10mm) 0.87 (22.10mm) 0.87 (22.10mm)	2.02 (51.3mm) 2.02 (51.3mm) 2.05 (52.1mm) 2.05 (52.1mm)	0.59 (15mm) 0.59 (15mm) 0.59 (15mm) 0.59 (15mm)	12 lb-in 12 lb-in 12 lb-in 12 lb-in
IN-LINE	G 1/4 <sup>2,3</sup>	N/A	PLQ4D47004BLU	0.87 (22.10mm)	2.11 (53.6mm)	0.67 (17mm)	12 lb-in
G THREAD (BSPP)	G 1/4 <sup>2,3</sup>	N/A	PLQ4D47004RED	0.87 (22.10mm)	2.11 (53.6mm)	0.67 (17mm)	12 lb-in



#### Note:

<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>Do not exceed torque value due to potential damage to coupling. User should consider application factors such as mating material, media, temperature, etc. when implementing an installation torque specificationw for the product.



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We inspire confidence at every point of connection.

### cpcworldwide.com/ContactUs

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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