

# START COOLING SMARTER.

**QUICK DISCONNECT COUPLINGS**

**AI DATA CENTERS AND  
HIGH-PERFORMANCE COMPUTERS**

[cpcworldwide.com/Cool](http://cpcworldwide.com/Cool)





# INNOVATION DRIVES HIGHER-DENSITY PROCESSING.

AI data center and high-performance computer (HPC) processing power is increasing all the time. Simultaneously, components are becoming smaller and denser, which means things are heating up — literally. To handle the heat, liquid cooling is a must.

## **POWER IS CRITICAL, AS IS MANAGING HEAT.**

Cutting edge artificial intelligence and HPC clusters don't just require the highest performing GPUs and CPUs, they are now packed in incredibly dense configurations. That leads to substantially higher wattage densities at both the node and rack levels, with ever increasing rack power densities. Further, given their expense and the critical computing for research these systems are often dedicated to performing, these high-density clusters run at 100% capacity for sustained periods 24/7.



SCAN

See our video CPC QUICK  
DISCONNECTS FOR LIQUID  
COOLING IN DATA CENTERS  
at [cpcworldwide.com/Data-  
Centers-Video](https://cpcworldwide.com/Data-Centers-Video)



### Everis® LQ & PLQ

1/8" - 5/8"

Optimized flow and pressure drop for rack manifold and in-server configurations. Available in stainless steel, high-performance polymer and plated brass.



### Everis® UQD

1/8" - 3/8"

Developed according to OCP standard with CPC's patented valve technology for long-term reliability.

## HANDMATE Server Manifold Solutions

### In-Server Cooling

Ready to optimize your in-blade cooling loop? Contact CPC to learn more.

**SOLUTIONS  
TO ENABLE  
COOLING  
THE LATEST  
TECHNOLOGIES**



## BLIND MATE Server Manifold Solutions



### Everis® UQDB

1/4" - 3/8"

Developed according to OCP standard for blind mate rack manifold configurations.



### Everis® BLQ

1/8" - 5/8"

Exclusively designed and built by CPC for the rigors of liquid cooling.



A man with dark hair and glasses, wearing a light blue button-down shirt and dark trousers, stands in a server room. He is holding a laptop and looking at it. The background consists of rows of server racks with glowing lights. The overall lighting is dim and blue-toned.

# A GLOBAL LEADER IN LIQUID COOLING CONNECTORS.

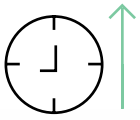
CPC has been delivering lightweight, non-spill, worry-free couplings, and we have more than 300 patents to prove it. Now our thermal management expertise and proven record of liquid cooling quick disconnect (QD) coupling innovation sets CPC apart.

## MAKE THE CONNECTION

CPC couplings are purpose-built to address the challenges you face today.



## YOUR CHALLENGES



### 100% Uptime

It's not negotiable — any maintenance schedule or upgrade costs time and money.



### Performance + Sustainability

Managing the increasing power of demands of a data center in a sustainable way without sacrificing performance is a critical challenge.



### Rapid Pace

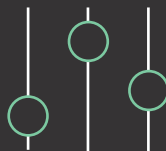
In this industry, things move fast and become obsolete even faster. You need flexible and adaptable proven solutions to support cutting-edge technologies.

## OUR SOLUTIONS



### Dependable Durability

CPC provides a wide range of high-performance quick disconnect couplings that deliver years of leak-free performance.



### Maximum Control

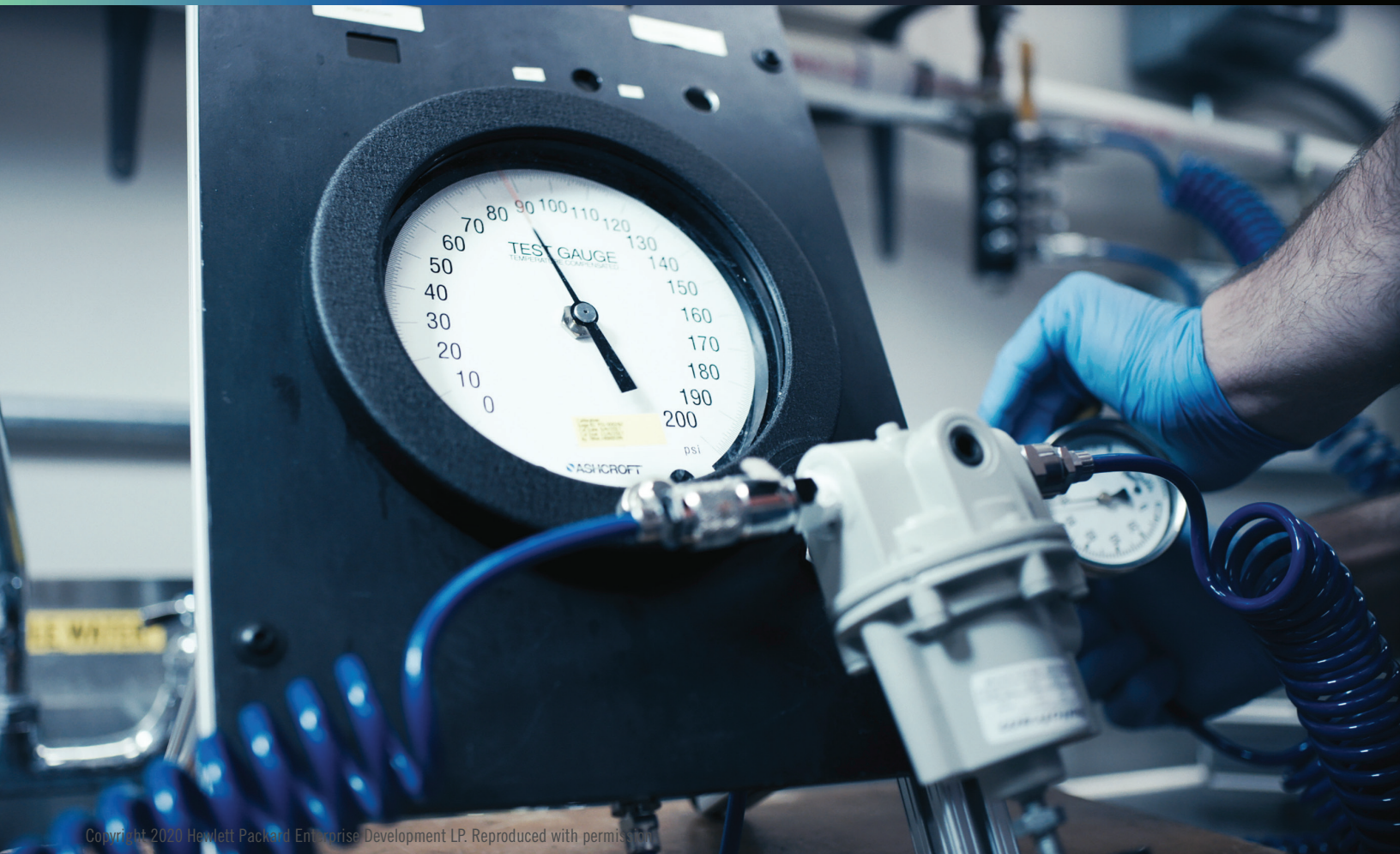
Make the choice that's right for you from a wide array of QD designs, materials and component terminations.



### Expert Flexibility

Our engineers are excited to work with yours and collaborate at the speed of your business, providing insights on fit, testing and performance for various locations within a system.





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# TORTURE TESTED AGAIN AND AGAIN AND AGAIN.

We want you to be absolutely confident in our liquid cooling connectors. That's why all CPC products are produced in ISO certified Class 8 or better cleanrooms. We start with Design for Quality (DFQ), then materials testing, followed by product testing and torture testing to failure. In addition to published verification reports, our connectors are designed and manufactured to meet the stringent ISO 9001 and ISO 13485 quality standards.



SCAN

## TESTING EXPERTISE:

Testing protocols include helium, bubble, and hydrostatic leak testing as well as rigorous conditioning, pressure and mechanical testing, and more for proven reliability. CPC research lab testing capabilities also include material analysis for system-level inquiries.



# IMPRESSIVE INNOVATION. UNPARALLELED PERFORMANCE.

Backed by decades of experience, we're at the forefront of innovation, delivering the features needed to connect with confidence.



Range of seal options and QD materials for temperature, chemical and pressure compatibilities.



Optimized compact design for size-to-flow ratio.



Redundant, multi-lobed seals retain their shape in connected states and offer leak prevention confidence.



Ergonomically designed thumb latch provides both ease and speed of installation and system maintenance — just listen for the CPC “click” to know you’re connected.



Blind mates and compact couplings built with swivel joints enable ease of installation and access within tight spaces.



# MEET YOUR LIQUID COOLING LINEUP.

A wide variety of use cases within HPC and data center applications require a broad portfolio of products. CPC offers the quick disconnect couplings options you need with features like non-spill shutoff valves, hose barbs and threaded terminations.

CPC's innovative design and quality manufacturing spans all product lines. However, Everis® connectors are exclusively designed and built for the rigors of liquid cooling applications. But it doesn't end there. CPC continues to expand the portfolio with innovative models along with new size, configuration and termination solutions. Visit [cpcworldwide.com/cool](https://cpcworldwide.com/cool) for details.

## EVERIS® LQ SERIES

Purpose-built liquid cooling non-spill couplings offer a secure, reliable connection and dripless disconnect.



### Everis® LQ2

Nominal flow of 1/8" (3.2 mm)  
with a Cv of 0.37 (Kv 0.32)  
Termination options: Locking 90°  
hose barb and inline hose barb,  
SAE, & G thread  
Materials: Plated Brass



### Everis® LQ4

Nominal flow of 1/4" (6.4 mm)  
with a Cv of 1.4 (Kv 1.2)  
Termination options: 90° hose  
barb and inline hose barb, locking  
90° hose barb and inline hose barb,  
SAE, NPT, G thread, & PTF  
Materials: Plated Brass,  
Stainless Steel



### Everis® LQ6

Nominal flow of 3/8" (9.5 mm)  
with a Cv of 2.2 (Kv 1.9)  
Termination options: Inline hose  
barb, locking 90° hose barb and  
inline hose barb,  
SAE, NPT, G thread, & PTF  
Materials: Plated Brass,  
Stainless Steel



### Everis® LQ8

Nominal flow of 1/2" (12.7 mm)  
with a Cv of 6 (Kv 5.2)  
Termination options: locking  
hose barb, SAE & G thread  
Materials: Plated Brass



### Everis® LQ10

Nominal flow of 5/8" (15.9 mm)  
with a Cv of 9.5 (Kv 8.2)  
Termination options: J1231 Hosebarb, SAE  
Materials: Aluminum



### Everis® PLQ4

Nominal flow of 1/4" (6.4 mm)  
with a Cv of 1.4 (Kv 1.12)  
Termination options: hose barb,  
locking hose barb, SAE, G thread  
Materials: High-performance polymer

## EVERIS® PLQ SERIES

The robust Everis PLQ socket made from UL94 VO-Rated high-performance polymer is lightweight, inherently resistant to corrosion, and interoperable with steel Everis plugs.



## EVERIS® BLQ SERIES

Designed specifically for integrated mounting and external locking engagement, with ultra-reliable dripless connections and disconnections.



### Everis® BLQ2

Nominal flow of 1/8" (3.2 mm)  
with a Cv of 0.37 (Kv 0.32)  
Termination option: SAE  
Materials: Plated Brass

### Everis® BLQ4

Nominal flow of 1/4" (6.4 mm)  
with a Cv of 1.4 (Kv 1.2)  
Termination options: SAE & G thread  
Materials: Plated Brass

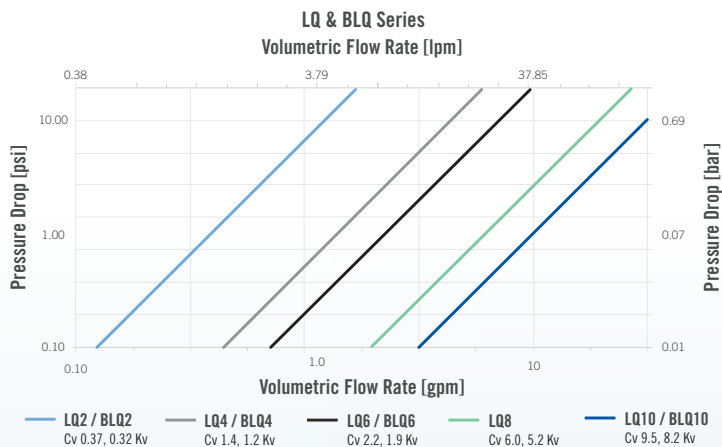


### Everis® BLQ6

Nominal flow of 3/8" (9.5 mm)  
with a Cv of 2.2 (Kv 1.7)  
Termination options: SAE & G thread  
Materials: Plated Brass, Stainless  
Steel & Aluminum

### Everis® BLQ10

Nominal flow of 5/8" (15.9 mm)  
with a Cv of 9.5 (Kv 8.2)  
Termination options: SAE  
Materials: Aluminum



Note: Graphs indicate flow performance using water at room temperature

## EVERIS® UQD SERIES

Developed according to OCP standard and incorporating CPC's patented technology for long-term reliability.



### Everis® UQD02

Nominal flow of 1/8" (3.2 mm)  
with a Cv of 0.37 (Kv 0.32)  
Termination options: Locking 90°  
hose barb and inline hose barb, SAE  
Materials: Stainless steel

### Everis® UQD04

Nominal flow of 1/4" (6.4 mm)  
with a Cv of 1.3 (Kv 1.1)  
Termination options: Locking inline  
hose barb, SAE  
Materials: Stainless steel

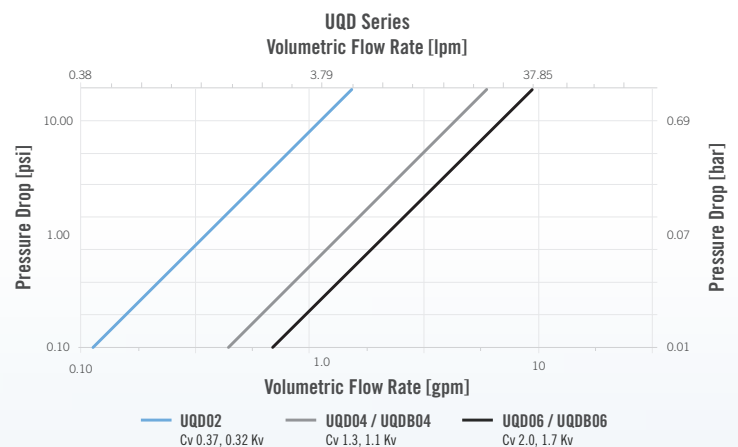


### Everis® UQDB04

Nominal flow of 1/4" (6.4 mm)  
with a Cv of 1.3 (Kv 1.1)  
Termination options: SAE  
Materials: Stainless steel

### Everis® UQD06 & UQDB06

Nominal flow of 3/8" (9.5 mm)  
with a Cv of 2.0 (Kv 1.7)  
Termination options: SAE  
Materials: Stainless steel



Note: Graphs indicate flow performance using water at room temperature



# INNOVATION BORN FROM EXPERIENCE.

For nearly half a century, CPC has been a leading provider of quick disconnect couplings, fittings and connectors for plastic tubing. Our passion is ensuring reliable liquid cooling of electronics. Our deployments include fields ranging from electronic vehicle charging to radar, lasers, 5G, medical devices and more.

By synthesizing our learnings from such a wide variety of disciplines, we're able to rapidly innovate, anticipate future challenges and bring you better, purpose-built solutions.

## READY TO CRACK THE CODE ON BETTER COOLING?

We want to work with you today to solve the computing needs of the future.

CPC can meet your needs for thousands of racks per month with our experienced engineers and best-in-class lead times on Everis® purpose-built QDs.



## KNOW EXACTLY WHAT YOU'RE LOOKING FOR?

Great, let's get down to business. Just call or e-mail us at [Liquidcool@cpcworldwide.com](mailto:Liquidcool@cpcworldwide.com) to request samples or a quote.

[cpcworldwide.com/Cool](https://cpcworldwide.com/Cool)

### North America

1-800-444-2474

### Europe

49-6026-9973-0

### Asia Pacific

86-400-990-1978



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Request a sample





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WARRANTY: All sales are subject to Colder Products Company's limited express warranty set forth in the CPC catalog. Visit [cpcworldwide.com/warranty](http://cpcworldwide.com/warranty) for more information.

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.



# WANT TO COLLABORATE?

For designers of AI data centers and high-performance computers, we've curated tools and resources to help you tackle any challenge:

- **ASK AN ENGINEER**
- **WHITE PAPERS**
- **LIQUID COOLING TECH GUIDES**
- **CAD FILES**

Visit us at [cpcworldwide.com/Cool](https://cpcworldwide.com/Cool) to get started.



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