

**CONNECTIONS for  
LIQUID COOLING**

# CONNECTIONS FOR LIQUID COOLING

Protect your valuable electronics with the unmatched design, quality and reliability of CPC quick disconnect couplings. CPC's quick disconnect couplings for liquid cooling applications provide ultra-reliable, drip-free connections and disconnections.

The leader in connection technology, CPC has been delivering quick disconnect couplings for liquid cooling of electronics for over 20 years. Applications for CPC's liquid cooling connections include PCs, supercomputers, data centers, chillers, medical equipment and many others that require quality and performance for critical fluid handling solutions.

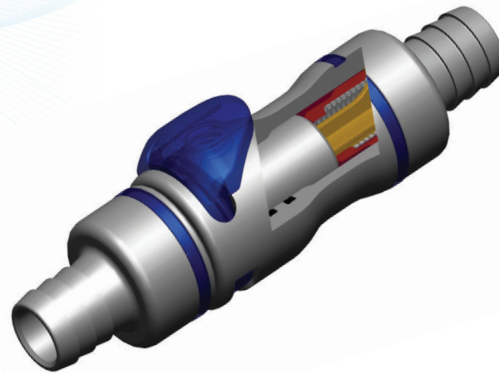


## BENEFITS OF CONNECTIONS FOR LIQUID COOLING

CPC's couplings are designed with a variety of features that provide safe and secure disconnects for protecting critical fluid applications:

- Automatic non-spill shutoff valves help keep electronics safe by eliminating drips
- Integral terminations result in fewer potential leak points, shorter assemblies and faster installations
- Multiple options for materials, configurations, sizes and valves
- Custom solutions to meet unique application needs

Request a sample at [cpcworldwide.com/cool](http://cpcworldwide.com/cool) or by calling 800-444-2474.



## Attributes for Reliability

Understanding your application is the key to selecting the proper connection. When selecting quick disconnect couplings for liquid cooling it is important to look for the following five attributes to ensure reliability:

### ROBUST DESIGN

Liquid cooling system quick disconnect couplings need to be durable, robust and be able to withstand long periods of connection before disconnection. Couplings should also be designed for low pressure drop in order to minimize flow restriction.

### DRY DISCONNECT CAPABILITY

Dry disconnect couplings reduce spillage of water or coolant to near zero, giving technicians the confidence to connect and disconnect couplings without drips that can damage or destroy equipment.

### RESILIENT SEALS

Couplings used in liquid cooling applications remain in a connected state for extended periods. Upon disconnection and reconnection, they need to function perfectly so there are no drips or leaks of coolants. Seals need to have high reliability.

### EASE OF USE

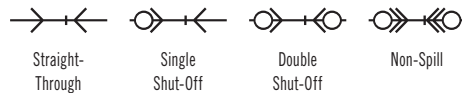
It is important to be able to easily disconnect the cooling loops from servers with no spills. Valves on the coupling need to reliably close when disconnected.

### MATERIALS COMPATIBILITY

Determine whether the coolant is compatible with the connector. Compatibility can be ensured by using quick disconnect couplings designed specifically for liquid cooling.

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## LEGEND



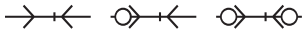
Note: Product images may not be to scale



**LC:** Durable and able to withstand higher pressure and temperature; easy one-hand connection and disconnection.

**Material:** Chrome-plated brass

**Tube ID Sizes:** 1/4" to 3/8" (6.4mm to 9.5mm)



**LQ2:** Provides ultra-reliable, dripless connections and disconnections that protect valuable electronics.

**Material:** Chrome-plated brass

**Tube ID Sizes:** 1/4" ID (6.4 mm ID)



**NS212:** Twist-to-connect design features non-spill valves designed to provide fast, safe and virtually leak-free fluid line connections.

**Material:** Glass-filled polypropylene

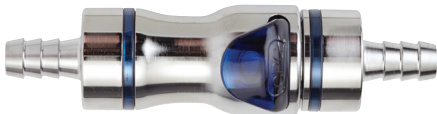
**Tube ID Sizes:** 1/8" to 1/4" (3.2mm to 6.4mm)



**NS4:** Non-spill coupling that virtually eliminates spills, minimizes downtime and enhances operator safety.

**Material:** Glass-filled polypropylene, ABS

**Tube ID Sizes:** 1/8" to 3/8" (3.2mm to 9.5mm)



**LQ4:** Liquid cooling non-spill coupling guarantees a secure, reliable connection and dripless disconnect.

**Material:** Chrome-plated brass

**Tube ID Sizes:** 1/4" to 3/8" (6.4mm to 9.5mm)



**RPLQ4:** Latchless rack and panel liquid cooling non-spill coupling guarantees a secure, reliable connection and dripless disconnect.

**Material:** Chrome-plated brass

**Thread Sizes:** 1/4" to 3/8" NPT or SAE



**LQ6:** Liquid cooling non-spill coupling guarantees a secure, reliable connection and dripless disconnect.

**Material:** Chrome-plated brass

**Tube ID Sizes:** 3/8" to 1/2" ID (9.5mm to 12.7mm ID)



**NS6:** Durable, yet lightweight construction that features non-spill valves and is compatible with many chemicals.

**Material:** Glass-filled polypropylene

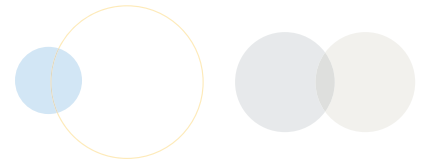
**Tube ID Sizes:** 3/8" and 1/2" (9.5mm and 12.7mm)



## CUSTOM CAPABILITIES

Connection solutions from CPC add value to your product by making your connections easy to use and more reliable, improving the overall functionality, serviceability and design of the equipment and processes in which they are used.

CPC's engineered solutions team works with customers around the world to innovate on the leading edge of what is possible and deliver unmatched product design and quality to solve fluid handling challenges.



Distributed by:

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leadership in the quick disconnect market, and aggressively pursues and protects its proprietary information and intellectual property. In cases where it is practical and has a benefit to its customers, CPC has licensed its proprietary technology. Please contact CPC to discuss your unique needs.

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CAT2025 11/16 WC/3M PRINTED IN U.S.A.