

**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.

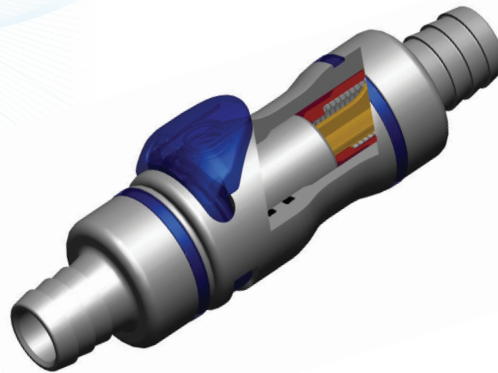
The leader in connection technology, CPC has been delivering quick disconnect couplings for liquid cooling of electronics for over 20 years. Applications for CPC's liquid cooling connections include PCs, supercomputers, data centers, chillers, medical equipment and many others that require quality and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

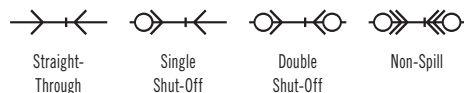
### MATERIALS COMPATIBILITY

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



# CONNECTIONS FOR LIQUID COOLING

## LEGEND



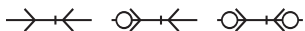
Note: Product images may not be to scale



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

**Material:** Chrome-plated brass

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



**LC NON-SPILL:** Custom designed liquid cooling non-spill coupling.

**Material:** Stainless Steel

**Tubing ID Sizes:** 3/8" (9.5mm), 1/4" SAE thread

Note: Not a catalog item. Contact CPC for pricing and availability



**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

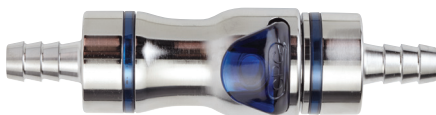
**Tubing ID Sizes:** 1/8" to 1/4" (3.2mm to 6.4mm)



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

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

**Tubing 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

**Tubing 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

**Tubing 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

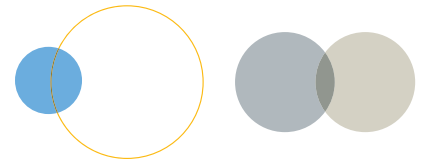
**Tubing ID Sizes:** 3/8" and 1/2" (9.5mm and 12.7mm)



## 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:



美国 CPC 快速接头及连接器授权西北地区

代理商联系方式：

西安嘉岳自动化技术有限公司 Garye Automation Company

西安市高新区科技二路 65 号清华科技园 D 座二层 邮编：710075

电话：029-8647 4991 手机：182 9256 1696

传真：029-8647 3942 公司 QQ：3180038393

邮箱：[sales@garye.cn](mailto:sales@garye.cn)

网址：[www.garye.cn](http://www.garye.cn)



CPC WARRANTY STATEMENT: CPC (Colder Products Company) warrants its products against defects in workmanship and materials for a period of 12 months from the date of sale by CPC to its initial customer (regardless of any subsequent sale of the products). This warranty is void if the product is misused, altered, tampered with or is installed or used in a manner that is inconsistent with CPC's written recommendations, specifications and/or instructions, or fails to perform due to normal wear and tear. CPC does not warrant the suitability of the product for any particular application. Determining product application suitability is solely the customer's responsibility. CPC is not liable for special, indirect, incidental, consequential or other damages including, but not limited to, loss, damage, personal injury, or any other expense directly or indirectly arising from the use of or inability to use its products either separately or in combination with other products. ALL OTHER WARRANTIES EXPRESS OR IMPLIED, WHETHER ORAL, WRITTEN OR IN ANY OTHER FORM, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY EXCLUDED. The sole and exclusive remedy under this warranty is limited, at the option of CPC, to replacement of the defective product or an account credit in the amount of the original selling price. All allegedly defective CPC products must be returned prepaid transportation to CPC, together with information describing the product's application and performance, unless otherwise authorized in writing by CPC.

CPC PATENT STATEMENT: CPC takes pride in its innovative quick disconnect coupling and fittings solutions, many of which have been awarded United States and international patents. CPC has a strong tradition of

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.

CPC TRADEMARK STATEMENT: AseptiQuik®, BottleQuik®, BreakAway®, ChemQuik®, DrumQuik®, FitQuik®, IdentiQuik®, Nu-Seal®, SnapQuik®, Steam-Thru®, Softube® are registered trademarks with the U.S. Patent & Trademark Office. All other trademarks or service marks are property of their respective owners. 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.

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.

CAT2025 02/15 WC/3M PRINTED IN U.S.A.