



CONNECT WITH SOMETHING COOL

HPC Users Group and CPC

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SMART FLUID HANDLING TO TAKE YOU FORWARD, FASTER

- Global provider of couplings, fittings and connectors for flexible tubing
- Industry-leading innovation, collaboration, quality and customization
- Quality Management System is ISO 9001 and ISO 13485 certified
- Full-service Offices in U.S., Germany, Hong Kong and China
- Global Manufacturing
- Advanced clean room facilities
- RFID technology expertise

DOVER: A MULTIBILLION-DOLLAR, DIVERSIFIED GLOBAL MANUFACTURER

- Fortune 500 company, \$8B annual revenue
34 operating companies, 3 business units
- Established R&D and worldwide distribution
- Committed to the highest ethical standards
- Global brand equity

CPC STANDARD AND CUSTOMIZED SOLUTIONS

- 10,000 standard ways to move fluid and air plus unlimited customization
- 300+ requests for custom projects annually
- Partner with OEMs to custom-engineer solutions for their specific needs



PRODUCT OVERVIEW



LQ Series Overview

- Ultra-reliable, dripless connections and disconnections
- Designed specifically for liquid cooling applications
- High-flow capacity to optimize liquid cooling system performance
- CPC-designed valve technology that eliminates drips



Thumb latch for one-handed quick connections and disconnections

- No sleeve to pull back
- Intuitive connect and disconnect
- Color coded for foolproof connections
- Audible CPC click
- Sleek look, ergonomic design
- Resin valves protect connector from corrosion
- Swivel and elbows available to make quick disconnections easier



Temperature: 0°F to 240°F; -17°C to 115°C

Materials:

Main Components

Chrome-plated brass

Valves and Thumb Latch

Polysulfone

Valve Springs (wetted)

Stainless steel

Seals

EPDM

Color:

Chrome with Cool Blue or Warm Red

Lubricant:

Krytox PFPE



A transparent validation process



- Increased confidence in
- Platform reliability
 - Quality of components



High impact characteristics of Thermoplastic QD's

HIGHLY ENGINEERED POLYMER

- Known as polyphenylsulfone (PPSU)
- Heat and chemical-resistant
- Tensile strength up to 8000 psi (55 Mpa)
- Used for specially designed applications such as liquid cooling QDs, automotive and aerospace



CHEMICAL COMPATIBILITY

- **3M™ Novec™**
- **DI Water**
- **Glycols**
- **Mineral oils**
- **Other engineered fluids**

EASE OF USE



- Lightweight and compact
- Contoured thumb latch for one handed connection



DIMENSIONAL STABILITY

- Stable, durable thermoplastic
- Withstands heat and humidity without losing structural integrity
- Designed for extended use

WITHSTANDS CONTINUOUS EXPOSURE TO MOISTURE AND HIGH TEMPERATURES

- No corrosion risk
- Thermal insulators instead of thermally conductive
- No risk of external condensation



Inherently flame retardant UL94 V-0 rating



Flammability rating UL 94 V	
Test criteria	V-0
Burning time of each individual test specimen (s) (after first and second flame applications)	≤10
Total burning time (s) (10 flame applications)	≤50
Burning and afterglow times after second flame application (s)	≤30
Dripping of burning specimens (ignition of cotton batting)	no
Combustion up to holding clamp (specimens completely burned)	no

Temperature: 0°F to 240°F; -17°C to 115°C

Materials:

Main Components	PPSU
Valves and Thumb Latch	PPSU
Valve Springs (wetted)	Stainless steel
Seals	EPDM

Color: Black with Cool Blue or Warm Red

Lubricant: Krytox PFPE



Keeping innovation flowing



KEEPING IT COOL WITH CPC

Thank You

