

ENHANCING THERMAL MANAGEMENT WITH PARKER'S CDT SERIES COUPLINGS

As a leader in thermal management solutions, **Parker Quick Coupling Division (QCD)** consistently drives innovation in the data center industry. With decades of expertise, Parker's **CDT Series** provides an advanced liquid cooling component designed to meet the dynamic demands of today's high-powered data centers and supercomputers.

These quick disconnects are crucial in managing the intense heat generated by server racks, ensuring optimal performance and sustainability. Our cutting-edge technology and comprehensive approach are raising the standard for efficiency and reliability in thermal management.

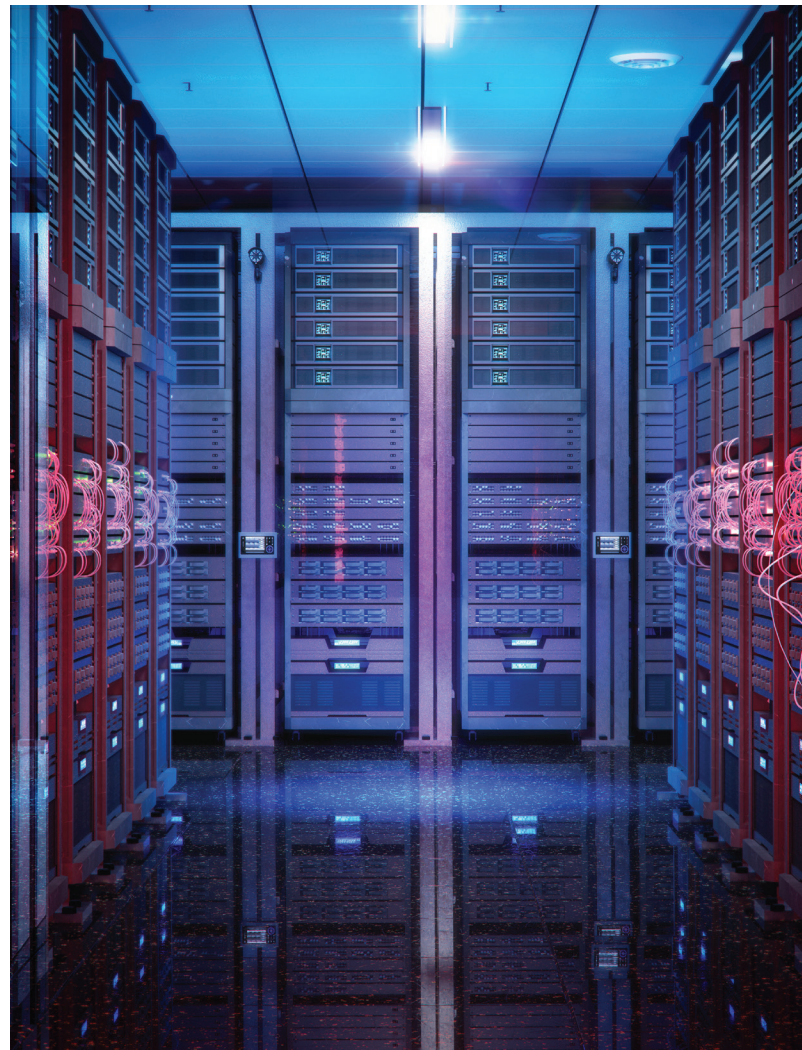
Parker's CDT Series

CDT Series is a flat-face coupling designed for liquid cooling and thermal management applications for electronics, servers, and supercomputers. Based on the OCP Large Quick Connector (LQC) specification, the CDT Series meets rigorous performance requirements for high-density data environments.

The CDTs are dry-break, thread-to-connect quick disconnects for headers, CDUs, and manifolds in liquid cooling systems. With a re-engineered design, the CDT Series offers improved durability, particularly in wear resistance and seal/O-ring retention. The connection includes redundant seals for leak prevention, while updates to the internal design also help reduce the risk of O-ring or seal washout caused by surge flow during deployment. Additionally, enhanced part identification—clearly labeling socket and plug components—helps ensure proper installation and reliable system performance.

CDT Series Features

- Flush face valve design prevents fluid loss and optimum protection of electrical components
- Reduced pressure drop for superior energy efficiency and system performance
- High resistance to vibrations and rotation
- Thread-to-connect design provides an ergonomically friendly connection sequence
- Manufacturing process that eliminates contamination
- Global manufacturing and service capabilities
- Designed for interchangeability and interoperability with OCP LQC Version 2.0.0.



Part Number	Coupling Half	Connection Thread Size
CDT-1001-16FB	Female Socket	G 1-11 BSPP
CDT-1002-16FB	Male Plug	G 1-11 BSPP

Pressure Rating

Static Design Pressure: 75 psi / 5.2 bar
Maximum Static Pressure: 175 psi / 12 bar
Safety Factor: 4 to 1

Working Temperature

-5° C to 60° C with PG25

Material

Coupling: Stainless Steel
Plug: Stainless Steel
Seals: EPDM

Connect Force

0 psi: 31 in-lbs (3.5 Nm)

CV Values

15.9

Spillage/Air Inclusion

0.10ml / 0.83ml

CDT Series Applications

- Liquid Cooling
- Thermal Management
- Data Centers
- Supercomputers
- Electronics
- Servers
- Rackable Server Systems

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