

ENABLING LIQUID COOLING WITH PARKER'S CDB SERIES COUPLINGS

Parker Quick Coupling Division (QCD), a leader in liquid cooling coupling solutions, continually pioneers innovations for the data center market. Developed in collaboration with market leaders, Parker's **CDB Series** QDs deliver an advanced liquid-cooling component engineered to meet the evolving needs of today's high-energy data centers.

These couplings play a key role in deploying liquid to reduce heat produced by server racks, ensuring peak, chip performance and long-term sustainability. With state-of-the-art technology and a customer-centric approach, we are setting higher standards for innovation in thermal management

Parker's CDB Series

CDB Series QDs are a flat-face coupling engineered for liquid-cooling applications in data centers. The CDB Series was developed to allow hot swapping of CDUs and pumps to maximize uptime by substantially reducing maintenance time.

The CDBs are dry-break, blind-mate couplings which allow users to connect and disconnect by simply inserting and removing the CDU, while ensuring no fluid escapes. The male plug features a floating element that facilitates a connection with some degrees of misalignment due to tolerance stacking.

CDB Series Features

- Flush face valve design prevents fluid loss and optimum protection of electrical components
- Male plug floating element allows connection with 1.5mm of radial misalignment
- Reduced pressure drop for superior energy efficiency and system performance
- Manufacturing process that eliminates contamination
- Global manufacturing and service capabilities



Part Number	Coupling Half	Connection Thread Size
CDB-751-12MB-01	Female Socket	G 3/4 - 14-A BSPP
CDB-752-12MB-01	Male Plug	G 3/4 - 14-A BSPP

Pressure Rating

Static Design Pressure: 75 psi / 5.17 bar
Maximum Static Pressure: 150 psi / 10.34 bar
Safety Factor: 4 to 1

Working Temperature

10°C to 70°C

Material

Coupling: Stainless Steel
Plug: Stainless Steel
Seals: EPDM

Spillage/Air Inclusion

0.05ml / 0.30ml

CV Values

Plug-Socket: 7.2
Socket-Plug: 7

CDB Series Applications

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

Parker Hannifin Corporation
Quick Coupling Division
8145 Lewis Road
Minneapolis, MN 55427
phone 763 544 7781
fax 763 544 3418
Parker.com

CDB Series Bulletin 10/25

Scan to
view product
information

