

Liquid Cooling Quick Disconnect Couplings (UQD / UQDB)

Models: TC-UQD series (push-to-connect) · TC-UQDB series (blind-mate)



PRODUCT OVERVIEW

Quick disconnect couplings connect devices in liquid cooling circulation systems, allowing fast connection and disconnection with zero leakage, simplifying draining and filling, and supporting plugging and unplugging under pressure.

KEY FEATURES

- Push-to-connect / self-locking and blind-mate versions
- Dual shut-off flat valve: high flow, spill-free, zero dripping
- One-handed push-in connection
- High-reliability sealing test
- Designed to OCP UQD specifications and performance standards
- Multiple bore sizes and port options (threaded male ends, barbed hose tails)
- Body SUS316 · seals EPDM · working pressure 2 MPa
- Fluids: deionized / purified water, water-glycol, water-propylene glycol, fluorinated liquid

PRODUCT SPECIFICATIONS

Series / Type	Model Code	Bore	Port Connection
UQD Male Plug	TC-UQD02P-G	DN03	G1/8 male, external thread
UQD Male Plug	TC-UQD02P-U	DN03	7/16-20 UNF male, external thread
UQD Male Plug	TC-UQD04P-G	DN05	G1/4 male, external thread
UQD Male Plug	TC-UQD04P-U	DN05	9/16-18 UNF male, external thread
UQD Male Plug	TC-UQD06P-G	DN07	G3/8 male, external thread
UQD Male Plug	TC-UQD06P-U	DN07	3/4-16 UNF male, external thread
UQD Male Plug	TC-UQD08P-U	DN10	7/8-14 UNF male, external thread
UQD Male Plug	TC-UQD08P-G	DN10	G1/2 male, external thread
UQD Receptacle	TC-UQD02S-F	DN03	7/16-20 UNF female, internal thread
UQD Receptacle	TC-UQD02S-B	DN03	Barbed hose tail for 1/4" ID hose
UQD Receptacle	TC-UQD04S-F	DN05	9/16-18 UNF female, internal thread
UQD Receptacle	TC-UQD04S-B	DN05	Barbed hose tail for 3/8" ID hose
UQD Receptacle	TC-UQD06S-F	DN07	3/4-16 UNF female, internal thread
UQD Receptacle	TC-UQD06S-B	DN07	Barbed hose tail for 1/2" ID hose
UQD Receptacle	TC-UQD08S-M	DN10	7/8-14 UNF male, external thread
UQD Receptacle	TC-UQD08S-B	DN10	Barbed hose tail for 5/8" ID hose
UQDB Male Plug	TC-UQDB02P	DN03	7/16-20 UNF male, external thread
UQDB Male Plug	TC-UQDB04P	DN05	9/16-18 UNF male, external thread
UQDB Male Plug	TC-UQDB06P	DN07	3/4-16 UNF male, external thread
UQDB Male Plug	TC-UQDB08P	DN10	7/8-14 UNF male, external thread
UQDB Receptacle	TC-UQDB02S	DN03	9/16-18 UNF male, external thread
UQDB Receptacle	TC-UQDB04S	DN05	3/4-16 UNF male, external thread
UQDB Receptacle	TC-UQDB06S	DN07	7/8-14 UNF male, external thread
UQDB Receptacle	TC-UQDB08S	DN10	11/16-12 UNF male, external thread

APPLICATIONS

Liquid-Cooled Servers

Manifolds & Hose Assemblies

CDU Connections