

LÜDECKE

Since 1930. The perfect connection.



OCP
ACCEPTED™

UQD & UQDB
QUICK DISCONNECT COUPLINGS

Efficiency meets Precision: Quick Disconnect Couplings for Liquid Cooling



The UQD/B quick disconnect couplings made by **LÜDECKE** have been developed according to the specifications of the Open Compute Project (OCP) and guarantee standardised, dripless connections for liquid cooling in data centres.

Using the quick disconnect couplings ensures a coupling process with low leakage. This provides a high level of safety for both the system and the operator.

The UQD and UQDB quick disconnect couplings are entirely made of stainless steel making them extremely resistant to any liquids. The ergonomic sleeve shape and the slim design provide very good grip and easy handling even in tight spaces. The couplings are perfect for use with liquid media in energy and thermal regulation, especially in control cabinet cooling.

Advantages:

- Compatible with the 'OCP UQD/B' standard
- Dripless design to prevent media leakage when decoupling
- Additional sealing provided by two EPDM seals
- Entirely made of stainless steel, and thus extremely durable
- Robust, absolutely leakage-proof and reliable
- Simple and intuitive coupling process
- Ergonomic and slim design

The Perfect Solution for every Application

While the UQD couplings allow for easy differentiation of media circuits due to their various colour options, the UQDB couplings can be connected securely as a blind-mate solution, even without visual contact. Thanks to their radial allowance, they offer precise self-alignment – ideal for high-density server environments and complex systems.



UQD



UQDB



The Liquid Cooling Standard

Quick disconnect couplings are of great importance for liquid cooling in data centres (e.g. Direct Liquid Cooling, DLC). Especially at high power densities or close rack installation, they have to ensure minimum leakage, high flow rates as well as easy maintenance.



As part of the Open Compute Project (OCP) initiated by Intel, open standards for liquid cooling technologies have been established. In this context, 'open standard' means that manufacturers have access to the relevant specifications so that they can create compatible products themselves. UQD/B is such an open standard for quick disconnect couplings.

Based on this initiative, **LÜDECKE** is extending its range of dripless quick disconnect couplings and adapting them to the OCP standard for server cooling. Thanks to our comprehensive know-how and excellent quality 'Made in Germany', we guarantee 100% compatibility and exceed the defined specifications

Broad Range

LÜDECKE UQD/B quick disconnect couplings are available in various sizes (DN 4, DN 6) as well as with different connections. This allows for a high degree of flexibility when planning and makes it easy to adapt them to existing or new system designs.



Quick Disconnect Couplings

Series UQD V2 Dripless – made of Stainless Steel

DN 4

- Universal Quick Disconnect Coupling made of Stainless steel
- Dripless coupling process (i.e. no drops when disconnecting)
- Coloured markings on coupling and plug for visual differentiation of media circuits
- To control temperature and heat distribution in systems based on hot or cold water

Materials

- Main material: Stainless Steel
- Seals: EPDM

Max. Working Pressure	Burst Pressure	Operating Temperature	Shipping Temperature	DN	Operation	Type of valve	Media
PN 16 bar	PN 40 bar	-20°C – +100°C	-40°C – +75°C	4 & 6	One-hand	Dripless	Water/ PG25

Coupling with straight male thread

Connection	Type No. neutral	Type No. red	Type No. blue
UNF 9/16 – 18"	UQD4U916AAB	UQD4U916AABRO	UQD4U916AABBL

Coupling with quick-fit hose stem

Connection	Type No. neutral	Type No. red	Type No. blue
3/8"	UQD410TAB	UQD410TABRO	UQD410TABBL

Plug with male thread

Connection	Type No. neutral	Type No. red	Type No. blue
UNF 9/16 – 18"	UQD4U916NAAB	UQD4U916NAABRO	UQD4U916NAABBL

DN 6

Coupling with straight male thread

Connection	Type No. neutral	Type No. red	Type No. blue
UNF 3/4 – 16"	UQD6U34AAB	UQD6U34AABRO	UQD6U34AABBL

Coupling with quick-fit hose stem

Connection	Type No. neutral	Type No. red	Type No. blue
1/2"	UQD613TAB	UQD613TABRO	UQD613TABBL

Plug with male thread

Connection	Type No. neutral	Type No. red	Type No. blue
UNF 3/4 – 16"	UQD6U34NAAB	UQD6U34NAABRO	UQD6U34NAABBL

Quick Disconnect Couplings

Dripless – made of Stainless Steel **Series UQDB V2**

- Universal Quick Disconnect Coupling made of Stainless steel
- Dripless coupling process (i.e. no drops when disconnecting)
- Coloured markings on coupling and plug for visual differentiation of media circuits
- UQDB couplings are also compatible with UQD plugs
- To control temperature and heat distribution in systems based on hot or cold water

DN 4

Materials

- Main material: Stainless Steel
- Seals: EPDM

Max. Working Pressure	Burst Pressure	Operating Temperature	Shipping Temperature	DN	Operation	Type of valve	Media
PN 16 bar	PN 40 bar	-20°C – +75°C	-40°C – +75°C	4 & 6	One-hand	Blind-mate	Water/ PG25

Coupling with straight male thread

Connection	Type No. neutral
UNF 3/4 – 16"	UQDB4U34AAB



Plug with male thread

Connection	Type No. neutral
UNF 9/16 – 18"	UQDB4U916NAAB



DN 6

Coupling with straight male thread

Connection	Type No. neutral
UNF 7/8 – 14"	UQDB6U78AAB



Plug with male thread

Connection	Type No. neutral
UNF 3/4 – 16"	UQDB6U34NAAB



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