

Fact sheet

# Danfoss Hansen® Universal Quick Disconnect Blind-Mate (UQDB)

One partner, every solution



Danfoss Hansen **Universal Quick Disconnect Blind-Mate (UQDB)** has been designed with OCP (Open Compute Project) community to set industry standard for thermal management application in data centers.

**This quick disconnect coupling is available in 4 different sizes (as the UQD: -02/-04/-06/-08) and complies with OCP specification requirements.**

**Danfoss UQDB offers a self-alignment feature to help connect in location with limited access or visibility and guarantees 100% helium-leak testing on every coupling.**

## Product Features

- Designed per OCP UQDB specifications
- “Blind-connection” thanks to self- alignment feature with radial compensation of 1 mm
- Push-to-connect design
- Direct connection between servers and manifolds
- High flow and reduced pressure drop for an improved system efficiency
- Flat-face dry break design to avoid spillage during connection/ disconnection
- Sizes available: -02\*/-04/-06/-08\*
- High reliability and 100% helium-leak tested
- Standard material: 303 stainless steel for excellent corrosion resistance
- Standard seal material: EPDM for excellent fluid compatibility
- Terminal ends are ORB
- Operating temperature: up to +100°C
- Working pressure: min. 10 bar
- QR code marking to help identify and track production parts

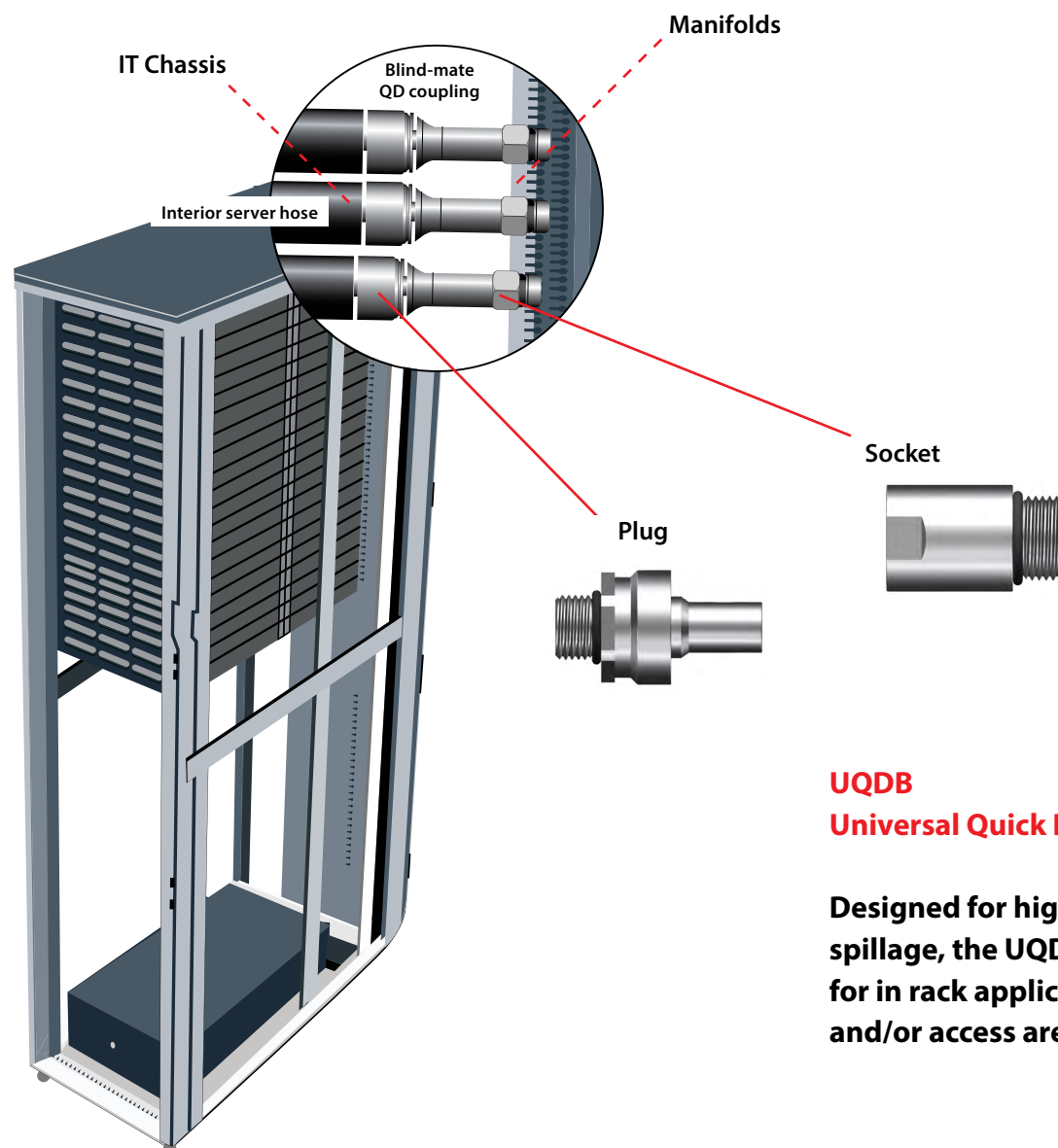
\* to be launched

# Solutions to your **liquid cooling challenges**

## Inner Rack Solutions

Danfoss' direct-to-chip cooling solutions extend into the racks through efficient routing of flexible, kink-free hoses, and leak free, helium-tested couplings.

Danfoss has a **comprehensive portfolio of premium fluid conveyance products** to meet your thermal management system needs.



### **UQDB** **Universal Quick Disconnect Blind-Mate**

**Designed for high flow rate and no spillage, the UQDB coupling is perfect for in rack applications where visibility and/or access are limited**

### Physical characteristics

Size	Body Size	Nominal Flow Diameter	Max operating pressure						Min burst pressure						Rated Flow	Cv Value	Air Inclusion	Fluid Loss	Misalignment (radial)	
			Connected		Socket / Female Half		Plug / Male Half		Connected		Socket / Female Half		Plug / Male Half							
	(in)	(mm)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	-	cc. max.	cc. max.	(mm)
UQDB04	1/4	5.5	16	232	16	232	16	232	48	696	48	696	48	696	6.4	1.7	1.22	0.004	0.025	1
UQDB06	3/8	6.3	10	145	10	145	10	145	30	435	30	435	30	435	11.36	3	2.23	0.007	0.035	1

### Applications & Markets

- Direct-to-chip liquid cooling
- Thermal management

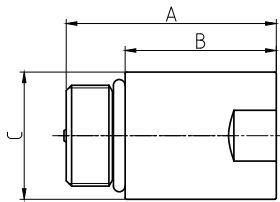


Figure 1  
Socket

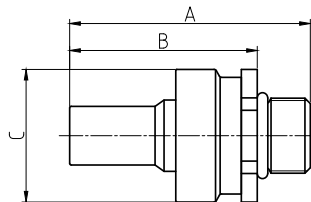


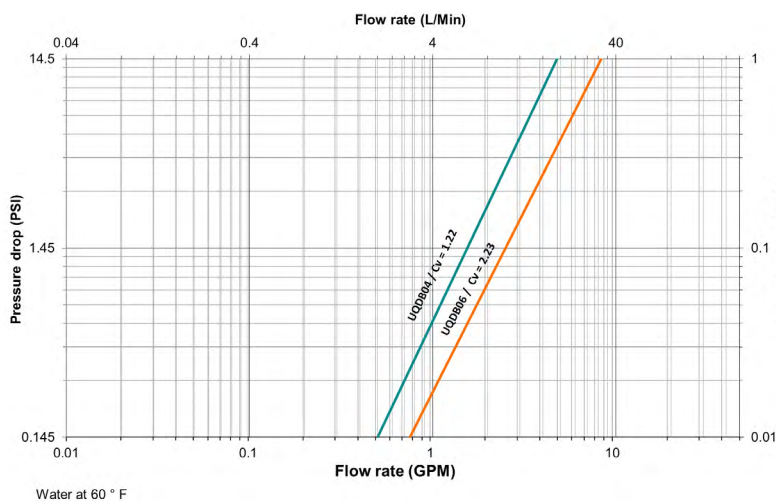
Figure 2  
Plug

### Seal Elastomer Data

Seal Elastomer	P/N Code	Operation Temperature Range	
		C°	F°
EPDM	-	-40°C +150°C	-40°F +302°F

### Dimensions

OCP UQDB size	Part number	Part	Details		Dimensions						E2E length
			Thread/size	Fig.	A		B		C		
			ORB	n°	(mm)	(in)	(mm)	(in)	(mm)	(in)	
UQDB04	4UQB575ORM	Socket	3/4"-16	1	39.6	1.55	28.5	1.12	23.6	0.92	44.0 - 45.4
UQDB04	4UQB56ORM	Plug	9/16"-18	2	45.32	1.78	35.3	1.39	25	0.98	
UQDB06	6UQB587ORM	Socket	7/8"-14	1	44.4	1.74	31.7	1.24	28.4	1.11	47.5 - 48.9
UQDB06	6UQB75ORM	Plug	3/4"-16	2	49.9	1.96	38.9	1.53	28.4	1.11	



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