



Fact sheet

Danfoss Hansen® Universal Quick Disconnect (UQD) Compact Design One partner, every solution



Danfoss Hansen's compact version of the UQD is designed for thermal management applications and complies with OCP UQD specifications. Danfoss has developed a shortened version of the socket to offer a compact, lightweight UQD with the same flow and pressure drop characteristics.

The compact version of the UQD still offers color-coded identification and QR code marking to help visualize hot and cold parts of the cooling system and track parts.

Product Features

- Designed per OCP (Open Compute Project) UQD specification
- Push-to-connect design
- High flow and no spillage
- Double shut off flat face valves
- Exceeds OCP flow ratings at least by 25% resulting in reduction in overall energy consumption
- Best in class force to connect

- Standard material: 303 stainless steel provides broad fluid compatibility
- Standard seal material: EPDM
- Color anodized aluminum sleeves
- Color coded (red/blue) sleeves on socket and O-rings on plug
- Wide range of terminal end options: ORB, BSPP on plug and push on hose on socket. Additional configurations available upon request
- Operating temperature -40°C to +150°C
- Typical working pressure: 6.9 bar, up to 20 bar for smaller sizes

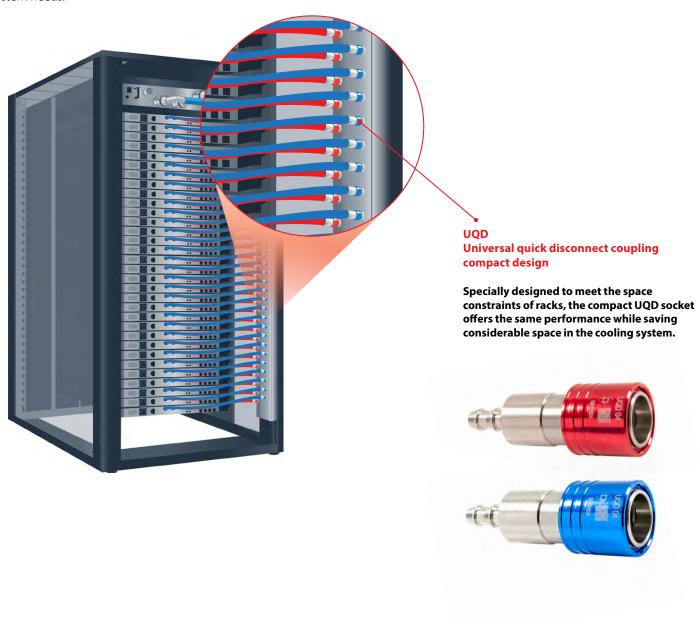


Solutions to your liquid cooling challenges

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.





			Max operating pressure						Min burst pressure										
Size	Body Size	Nominal Flow Dia- meter	Connected		Socket / Female Half		Plug / Male Half		Connected		Socket / Female Half		Plug / Male Half		Rated Flow		Cv Value	Air Inclu- sion	Fluid Loss
																		cc.	cc.
	(in)	(mm)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	-	max.	max.
UQD04	1/4	5.5	16	232	16	232	16	232	48	696	48	696	48	696	6.4	1.7	1.37	0.024	0.01

Performance Parameters												
Size	Force to Coni	nect	Recommended	Recommended Torque								
	N	lb	ORB size	N-m	BSP Size	N-m						
UQD04	50	11.24	9/16-18	18-20	3/8"	18-20						

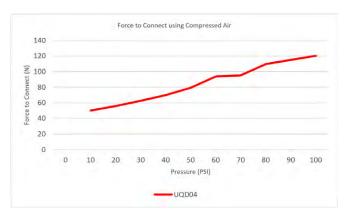
Applications & Markets

- Liquid cooling application
- Data center application

Seal Elastomer Data

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

Force to Connect Vs Pressure



Flow Data





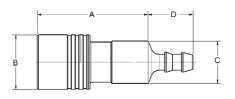


Figure 1 Push on socketless fitting

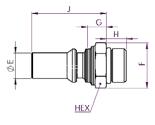


Figure 2Male ORB ISO 11926-3



Figure 3 ISO 1179-3

		Deta	ils	Dimensions										
UQD	Part number	Thread / end size	Fig.	ļ ,	1	E	3	С		D				
		Hose Tail	n°	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)			
	4UQS25HABLS11	1/4	1	51.2	2.01	24.6	0.97	11.9	0.47	22	0.87			
UQD04	4UQS25HARDS11	1/4	1	51.2	2.01	24.6	0.97	11.9	0.47	22	0.87			
UQD04	4UQS37HABLS11	3/8	1	49.5	1.95	24.6	0.97	9	0.36	23.7	0.93			
	4UQS37HARDS11	3/8	1	49.5	1.95	24.6	0.97	9	0.36	23.7	0.93			

Note 1: To obtain connected length of coupling, add dimensions A (Fig. 1) and G (Fig. 2) together.

Note 2: For color options, RD suffix corresponds to RED and BL suffix to BLUE

			Details		Dimensions											
UQD	Part number	Thread / end size		Fig.	E		F G		i	н		J		Hex		
		BSP	ORB	n°	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
	4UQP56ORMBL	-	9/16-18	2	11.07	0.44	19.63	0.77	9.8	0.39	9.9	0.39	37.9	1.49	17	0.67
LIODO4	4UQP56ORMRD	-	9/16-18	2	11.07	0.44	19.63	0.77	9.8	0.39	9.9	0.39	37.9	1.49	17	0.67
UQD04	4UQP37ORMBL	3/8	-	3	11.07	0.44	25.40	1.00	9.8	0.39	11.2	0.44	37.9	1.49	22	0.87
	4UQP37ORMRD	3/8	-	3	11.07	0.44	25.40	1.00	9.8	0.39	11.2	0.44	37.9	1.49	22	0.87

Note 1: To obtain connected length of coupling, add dimensions A (Fig. 1) and G (Fig. 2) together.

Note 2: For color options, RD suffix corresponds to RED and BL suffix to BLUE

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