



Danfoss Hansen[®] Universal Quick Disconnect (UQD)

One partner, every solution

Danfoss Hansen® Universal Quick Disconnect (UQD)

Danfoss Hansen **UQD** is designed for thermal management applications, available in 4 sizes and has 2 color options. It complies with OCP (Open Compute Project) and exceeds requirements of specified performance characteristics.

Danfoss UQD offers color identification (red and blue) and guarantees 100% helium-leak testing.



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 seal material: EPDM-P (Peroxide cured)
- Standard material: 303/304 stainless steel provides broad fluid compatibility
- Color anodized aluminum sleeves
- Color coded (red/blue) sleeves on socket and O-rings on plug
- Compact socket versions for sizes -02, -04, -06 to better fit in data center applications
- QR code identification to help track parts
- Wide range of terminal end options: ORB, BSPP on plug and push on hose on socket. Additional configurations available upon request
- Operating temperature range: 5°C (41°F) to 65°C (149°F)
- Typical working pressure: 6.9 bar, up to 20 bar for smaller sizes
- All wetted o-rings/seals are qualified/ certified as per IEC/ UL 62368-1 G.15.2.3

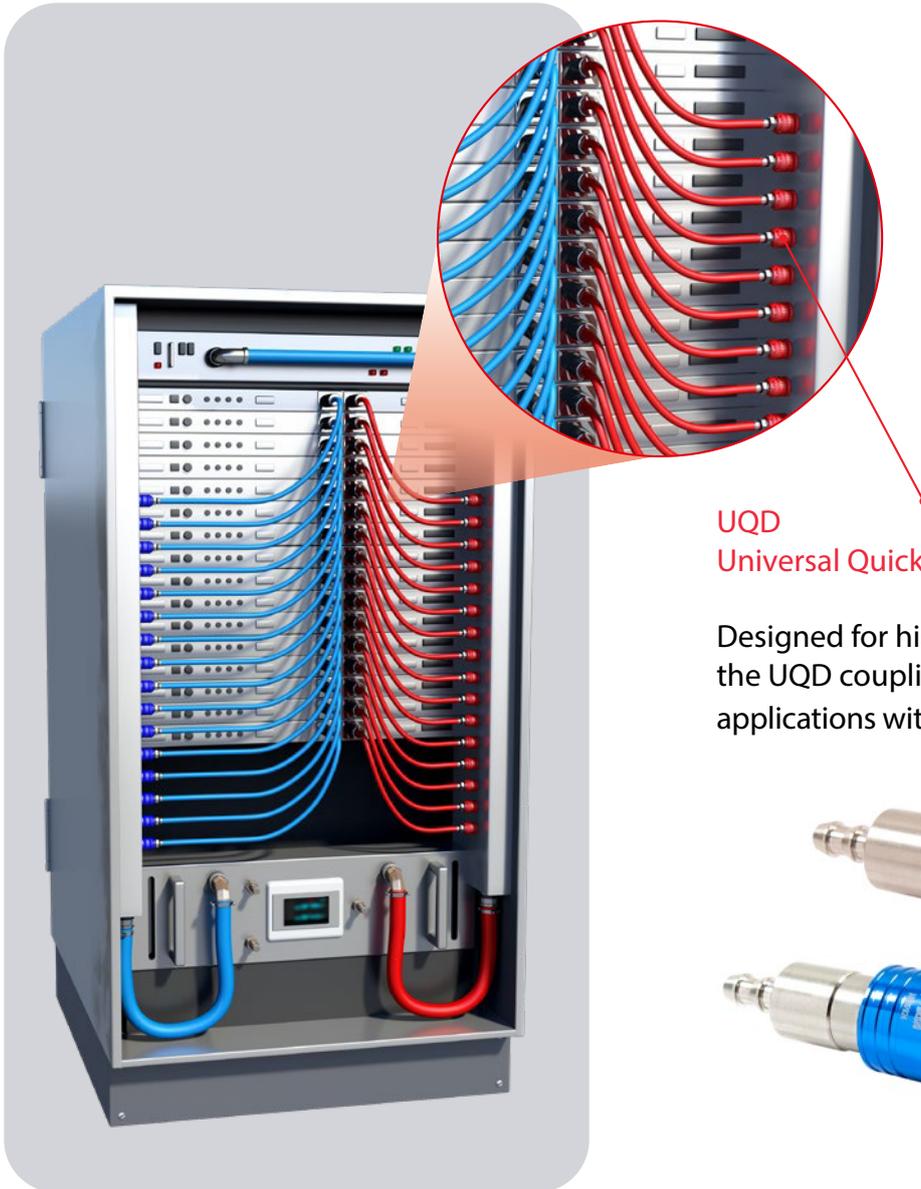


Solutions to your liquid cooling challenges

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.



UQD Universal Quick Disconnect Coupling

Designed for high flow rate and no spillage, the UQD coupling is perfect for in-rack applications with smaller hose lines.



Physical characteristics

Size	Body Size	Nominal Flow Diameter	Max operating pressure						Min burst pressure						Rated Flow*		Cv Value	Air Inclusion	Fluid Loss
			Connected		Socket / Female Half		Plug / Male Half		Connected		Socket / Female Half		Plug / Male Half		lpm	gpm			
			(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)					
	(in)	(mm)															cc. max.	cc. max.	
UQD02	1/8	3.16	20	290	20	290	20	290	60	870	60	870	60	870	2.1	0.6	0.33	0.004	0.007
UQD04	1/4	6.3	16	232	16	232	16	232	48	696	48	696	48	696	6.4	1.7	1.37	0.024	0.01
UQD06	3/8	7.9	6.9	100	6.9	100	6.9	100	20.7	300	20.7	300	20.7	300	11.4	3.0	2.37	0.027	0.022
UQD08	1/2	10	8.9	129	6.9	100	6.9	100	20.7	300	20.7	300	20.7	300	17.8	4.7	5.32	0.029	0.03

* Defined per OCP specifications, Rated Flow is the reference flow rate used to measure pressure drop and determine the published Cv (flow coefficient)

Applications & Markets

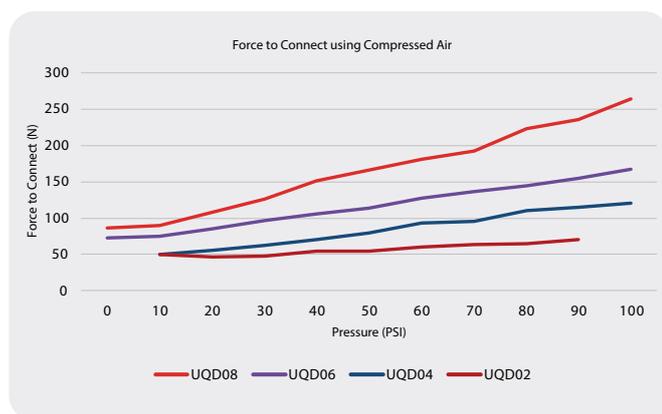
- Liquid cooling application
- Data center application

Seal Elastomer Data

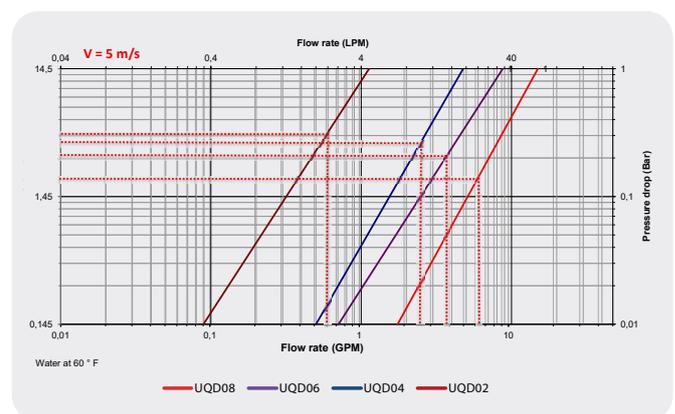
Seal Elastomer	Operation Temperature Range	
	C°	F°
EPDM-P	-40°C +150°C	-40°F +302°F

Size	Performance Parameters					
	Force to Connect		Recommended Torque			
	N	lb	ORB size	N-m	BSP Size	N-m
UQD02	48	10.79	7/16-20	9-10	1/8"	8-9
UQD04	50	11.24	9/16-18	15-17	3/8"	18-20
UQD06	73	16.41	3/4-16	25-28	3/8"	18-20
UQD08	87	19.56	7/8-14	30-33	1/2"	34-37

Force to Connect vs Pressure



Flow Data



Size	Flow at 5m/s (lpm)	Flow at 5 m/s (gpm)
UQD02	2.4	0.62
UQD04	9.4	2.5
UQD06	14.7	3.9
UQD08	23.6	6.2

A reference flow rate corresponding to 5 m/s is widely adopted in industry to balance pressure drop and flow stability. While not the maximum allowable flow, it offers an optimal balance between system performance and component sizing.

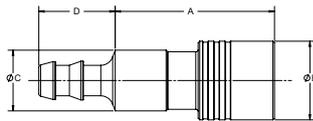


Figure 1
Push on socketless fitting

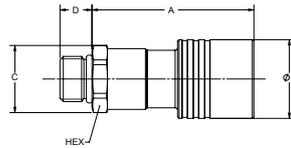


Figure 2
Male ORB

Socket (Female) part

OCP UQD size	Part number	Order number	Material	Details			Dimensions									
				Thread / end size		Fig.	A	B	C	D	Hex					
				Hose Tail	ORB	n°	(in)	(in)	(in)	(in)	(in)	(in)				
UQD02	2UQS25HABLS11	2UQS25HABLS11	SS303	1/4	-	1	38.4	1.51	18.5	0.73	14.0	0.55	19.1	0.75	-	-
	2UQS25HARDS11	2UQS25HARDS11														
UQD04	4UQS37HABLS11	4UQS37HABLS11	SS303	3/8	-	1	49.5	1.95	24.6	0.97	19.0	0.75	23.7	0.93	-	-
	4UQS37HARDS11	4UQS37HARDS11														
	4UQS25HABLS11	4UQS25HABLS11														
	4UQS25HARDS11	4UQS25HARDS11														
UQD06	4UQS56ORMBLS11	4UQS56ORMBLS11	SS303	-	9/16	2	50.3	1.98	24.6	0.97	21	0.83	9.9	0.39	19	0.75
	4UQS56ORMRDS11	4UQS56ORMRDS11														
	6UQS50HABLS11	6UQS50HABLS11														
	6UQS50HARDS11	6UQS50HARDS11														
UQD06	6UQS75ORMBLS11	11348377	SS303	-	3/4	2	52.5	2.06	27.9	1.09	22	0.87	11.1	0.44	22	0.86
	6UQS75ORMRDS11	11348376														
UQD08 V2	8UQS62HARDS11	11368547	SS303	5/8	-	1	62.05	2.44	31.5	1.24	28	1.1	39	1.54	-	-
	8UQS62HABLS11	11368540	SS303													
	ML8UQS62HARDS11	11368473	SS304													
	ML8UQS62HABLS11	11368468	SS304													

Note 1: To obtain connected length of coupling, add dimensions A (Fig. 1) and D (Fig. 2) together
 Note 2: For color options, RD suffix corresponds to RED and BL suffix to BLUE

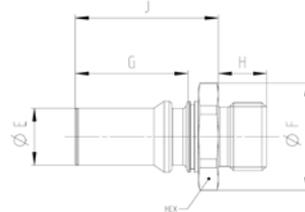


Figure 3
Male ORB ISO 11926-3

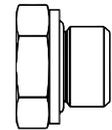


Figure 4
ISO 1179-3

Plug (Male) part

OCP UQD size	Part number	Order number	Material	Details			Dimensions												
				Thread / end size		Fig.	E	F	G	H	J	Hex							
				BSP	ORB	n°	(mm)	(in)	(mm)	(in)	(in)	(in)	(in)	(in)					
UQD02	2UQP43ORMBL	2UQP43ORMBL	SS303	-	7/16-20	3	6.65	0.26	16.17	0.64	8.7	0.34	9.1	0.36	29.3	1.15	14	0.55	
	2UQP43ORMRD	2UQP43ORMRD																	
	2UQP12MBSBL	2UQP12MBSBL																	
UQD04	2UQP12MBSRD	2UQP12MBSRD	SS303	1/8	-	4	6.65	0.26	17.32	0.68	8.7	0.34	8	0.31	30.4	1.20	15	0.59	
	4UQP56ORMBL	4UQP56ORMBL																	
	4UQP56ORMRD	4UQP56ORMRD																	
	4UQP37MBSBL	4UQP37MBSBL																	
UQD06	4UQP37MBSRD	4UQP37MBSRD	SS303	3/8	-	4	11.07	0.44	25.40	1.00	9.8	0.39	11.2	0.44	37.9	1.49	22	0.87	
	6UQP75ORMBL	6UQP75ORMBL																	
	6UQP75ORMRD	6UQP75ORMRD																	
	6UQP37MBSBL	6UQP37MBSBL																	
UQD08 V2	6UQP37MBSRD	6UQP37MBSRD	SS303	3/8	-	4	14.3	0.56	25.40	1.00	10	0.39	11.1	0.44	41.6	1.64	22	0.87	
	8UQP870MRDS11	12029056																	SS303
	8UQP870MRBLS11	12029057																	SS303
	ML8UQP870MRDS11	11368458																	SS304
UQD08 V2	ML8UQP870MRBLS11	11368440	SS304	-	7/8-14	3	17.48	0.69	30	1.18	33.8	1.33	12.7	0.50	42.9	1.69	27	1.06	
	ML8UQP50MBSRDS11	11358746	SS304																
	ML8UQP50MBSBLS11	11358734	SS304																
	ML8UQP50MBSRDS11	11358734	SS304																

Note 1: For color options, RD suffix corresponds to RED and BL suffix to BLUE

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