ENGINEERING TOMORROW

Danfoss Hansen®
Universal Quick Disconnect Couplings

High-level flow rate.
Ideal for data center **thermal management** systems.

Exceeds OCP UQD specifications:

- At least 25% higher flow rate compared to OCP standards
- Operating pressures up to 20 bar exceeding OCP requirements
- 100% helium-leak tested, higher reliability and reduced leakage risk

Markets/Applications

- Data centers: direct-to-chip, immersion cooling
- Electric vehicle manufacturers, charging station
- Railways traction converter cooling
- Battery storage
- Wind power

Sells Against

- Parker
- Johnon
- CEJN
- Stäubli
- CPC

Features

- Featuring at least 25% higher flow rate than OCP standards and a lowest pressure drop, Danfoss UQD reduces system level power consumption
- UQD has color coded sleeves on socket and O-rings on plug as a visual identifier
- Constructed in stainless steel with an EPDM rubber seal, our UQD couplings are engineered for high corrosion resistance and broad fluid compatibility.
- Operating temperature: -40°C to +150°C
- Connection and disconnection under pressure feasible up to 5 bar

Order Fulfillment

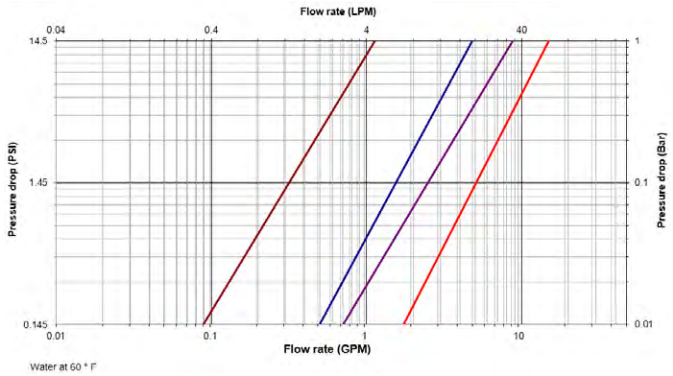
- Standard UQD configurations are stocked in Ningbo (China), Van Wert (USA), and Annemasse, (France) distribution centers.

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						
	(in)	(mm)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	-	cc. max.	cc. max.
UQD02	1/8	2.8	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	5.5	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	6.3	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	8.9	6.9	100	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

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	11-12	1/8"	8-9
UQD04	50	11.24	9/16-18	18-20	3/8"	18-20
UQD06	73	16.41	3/4-16	52-57	3/8"	18-20
UQD08	87	19.56	7/8-14	58-64	1/2"	34-37

Flow Data



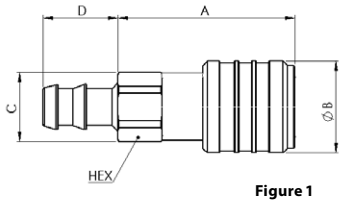


Figure 1

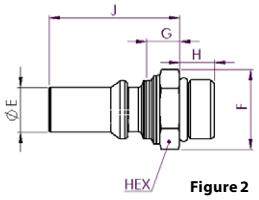


Figure 2

Dimensions (Socket - Hose barb)

Part Number	Coupling Type	Body Size	Type	Fig.	Dimension A		Dimension B		Dimension C		Dimension D		Hex
					mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm
2UQS25HABL	Socket/Female	1/8"	Hose barb	1	46,2	(1.82)	23	(0.91)	15,5	(0.61)	19	(0.75)	14
4UQS37HABLS11	Socket/Female	1/4"	Hose barb	1	60,7	(2.39)	28,7	(1.13)	20	(0.79)	22	(0.87)	18
6UQS50HABL	Socket/Female	3/8"	Hose barb	1	61,1	(2.41)	31,7	(1.25)	24	(0.94)	25,8	(1.02)	22
8UQS62HABL	Socket/Female	½"	Hose barb	1	68,4	(2.69)	35	(1.38)	30	(1.18)	39	(1.54)	27

Dimensions (Male - ORB)

Part Number	Coupling Type	Body Size	Thread	Type	Fig.	Dimension E		Dimension F		Dimension G		Dimension H		Dimension J		Hex
						mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm
2UQP43ORMBL	Plug/Male	1/8"	7/16-20	ORB	2	6,65	(0.26)	16,17	(0.64)	8,7	(0.34)	9,1	(0.36)	29,3	(1.15)	14
4UQP56ORMB	Plug/Male	1/4"	9/16-18	ORB	2	11,07	(0.44)	19,63	(0.77)	9,8	(0.39)	9,9	(0.39)	37,9	(1.49)	17
6UQP75ORMBL	Plug/Male	3/8"	3/4-16	ORB	2	14,3	(0.56)	25,4	(1.00)	10	(0.39)	11,1	(0.44)	41,6	(1.64)	22
8UQP87ORMBL	Plug/Male	½"	7/8-14	ORB	2	17,48	(0.69)	31,18	(1.23)	12	(0.47)	12,7	(0.50)	47,6	(1.87)	27

For color options, RD suf x corresponds to RED and BL suf x to BLUE

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