Fact sheet

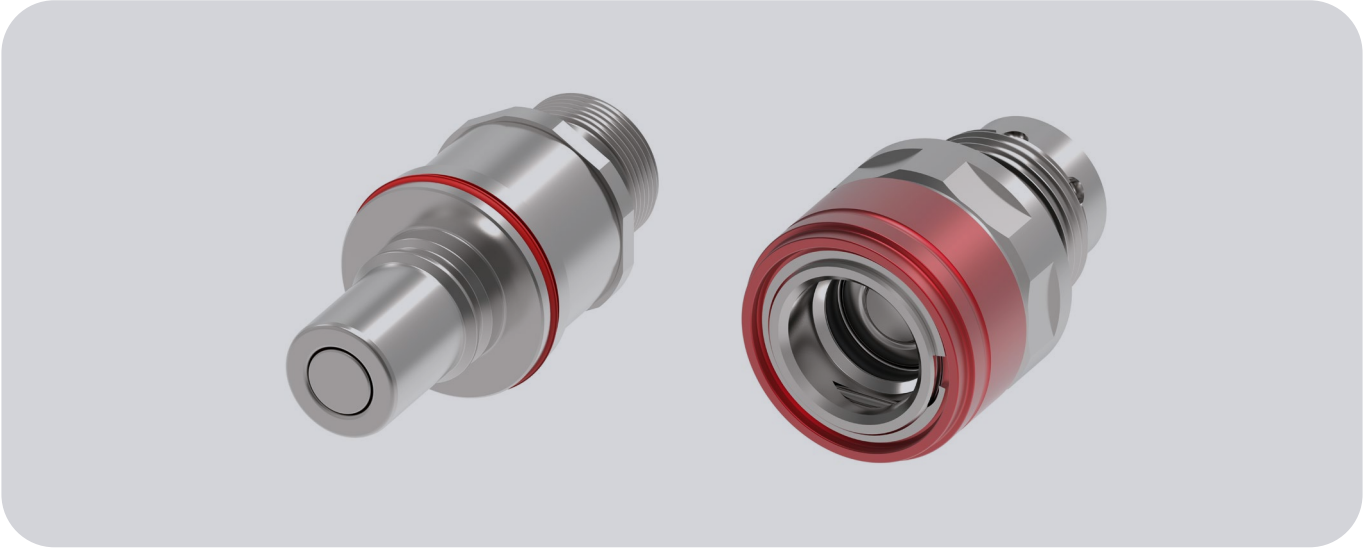


Danfoss Hansen®
MQD and MQDB

Danfoss Hansen® MQD and MQDB

Danfoss Hansen MQD and MQDB are designed for single-phase (water/glycol) systems for liquid cooling of electronics. This product is compliant to NVIDIA Quick Disconnect (MQD & MQDB) Specification 3.2 and can be interchanged with vendors compliant to this specification.

Offered with ISO 11926-3 O-ring boss, BSPP and hose tail terminal ends.



Product Features

- Stainless steel 304 material and EPDM seals
- Color identification (red and blue) for hand mate MQD
- Available in 3 different sizes (MQD02, MQD03, MQD04)
- All parts are 100 % helium-leak tested
- Operating temperature range : 10° C to +65 ° C (50°F to +149°F)
- All EPDM peroxide-cured seals and O-rings used in our products are certified in accordance with IEC 62368-1 G.15.2.3 under file MH67791, Volume 1.

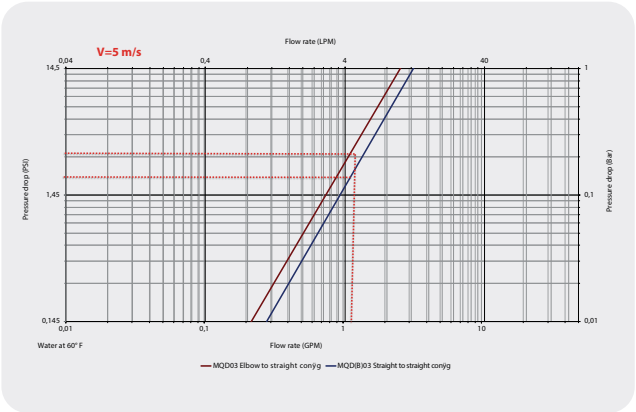
Physical characteristics

Body Size	Nominal flow diameter	Max. Operating Pressure		Min. Burst Pressure		Rated Flow		Force to connect	Fluid Loss
(in)	(mm)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	N max.	cc. max.
MQD02	3.3	7	100	21	300	2.04	0.55	51	0.02
MQD03	4.9	7	100	21	300	4.54	1.2	55	0.023
MQD04	6.4	7	100	21	300	6.81	1.8	63	0.025

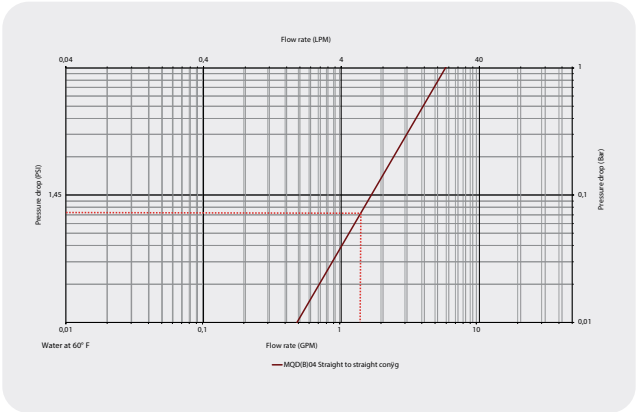
Applications & Markets

- Technology Cooling System (TCS) for Electronics
- Data Center Liquid Cooling

Flow Data MQ03



Flow Data MQ04



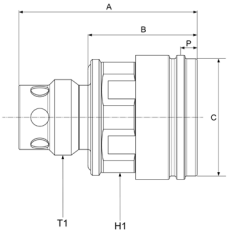


Figure 1

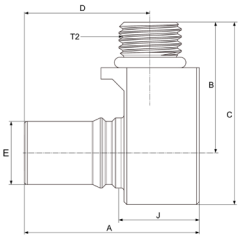


Figure 2

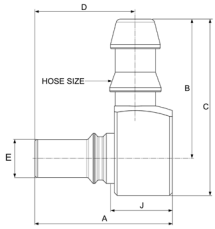


Figure 3

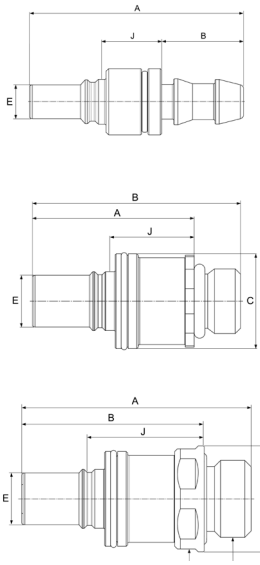


Figure 4 (a, b, c)

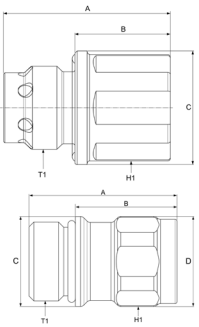


Figure 5 (a, b)

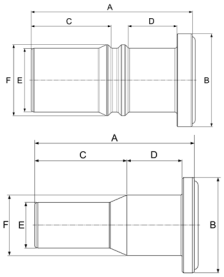


Figure 6 (a, b)

Series Description	Order Number	Part Number	Color	Nom Flow dia	End Type	Dimensions A	B	C	D	E	F	J	H1	H2	H3	Fig
				(mm)	T1/T2/T3/HOSE SIZE	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
Hand Mate Socket	12022881	ML2MQS43RD	RED	3.3	7/16-20 UNF 2A	25.67	15.37	18.00	-	-	-	-	15.9	-	-	1
	12022882	ML2MQS43BL	BLUE	3.3	7/16-20 UNF 2A	25.67	15.37	18.00	-	-	-	-	15.9	-	-	1
Hand Mate Plug, elbow	12022869	ML2MQPEL9025HCRD	RED	3.3	Hose barb -04 size	24.20	24.50	31.00	17.7	6.65	-	10.50	-	-	-	3
	12022870	ML2MQPEL9025HCBL	BLUE	3.3	Hose barb -04 size	24.20	24.50	31.00	17.7	6.65	-	10.50	-	-	-	3
Hand Mate Plug, straight	12022900	ML2MQP25HCRD	RED	3.3	Hose barb -04 size	39.20	15.00	-	-	6.65	-	10.50	-	-	-	4a
	12022901	ML2MQP25HCBL	BLUE	3.3	Hose barb -04 size	39.20	15.00	-	-	6.65	-	10.50	-	-	-	4a
Blind Mate, Socket	12022898	ML2MQBS43	-	3.3	7/16-20 UNF 2A	25.90	15.60	16.85	-	-	-	-	15.9	-	-	5a
Blind Mate, Plug	12022907	ML2MQBP	-	3.3	Floating Body	23.40	13.90	13.50	8.5	6.65	8.8	-	-	-	-	6a
Hand Mate Socket	11359567	ML3MQS25MBSRD	RED	4.9	G 1/4-19 BSPP	25.25	14.45	18.00	-	-	-	-	17.0	-	-	1
	11359568	ML3MQS25MBSBL	BLUE	4.9	G 1/4-19 BSPP	25.25	14.45	18.00	-	-	-	-	17.0	-	-	1
Hand Mate Plug, elbow	11359572	ML3MQPEL9043ORMRD	RED	4.9	7/16-20 UNF 2A	26.00	20.00	28.00	17.9	8.8	-	12.40	-	-	-	2
	11359557	ML3MQPEL9043ORMBL	BLUE	4.9	7/16-20 UNF 2A	26.00	20.00	28.00	17.9	8.8	-	12.40	-	-	-	2
	11359559	ML3MQPEL9025HCRD	RED	4.9	Hose barb -04 size	25.90	25.10	31.15	17.9	8.8	-	12.40	-	-	-	3
	11359583	ML3MQPEL9025HCBL	BLUE	4.9	Hose barb -04 size	25.90	25.10	31.15	17.9	8.8	-	12.40	-	-	-	3
Hand Mate Plug, straight, hose tail	11359564	ML3MQP43ORMRD	RED	4.9	7/16-20 UNF 2A	35.40	27.50	16.10	-	8.8	-	13.90	-	15.0	-	4b
	11359565	ML3MQP43ORMBL	BLUE	4.9	7/16-20 UNF 2A	35.40	27.50	16.10	-	8.8	-	13.90	-	15.0	-	4b
	11359561	ML3MQP25MBSRD	RED	4.9	G 1/4-19 BSPP	39.00	31.00	-	-	8.8	-	17.40	-	-	17.0	4b
	11359584	ML3MQP25MBSBL	BLUE	4.9	G 1/4-19 BSPP	39.00	31.00	-	-	8.8	-	17.40	-	-	17.0	4b
Blind Mate, Socket	11359563	ML3MQBS25MBS	-	4.9	G 1/4-19 BSPP	25.25	14.45	18.00	-	-	-	-	16.0	-	-	5a
Blind Mate, Plug	11359569	ML3MQBP	-	4.9	Floating Body	23.23	14.10	11.10	8.1	8.8	10.00	-	-	-	-	6b
Hand Mate Socket	11345074	ML4MQS37MBSRD	RED	6.4	G 3/8-19 BSPP	31.60	21.80	21.00	-	-	-	-	20.0	-	-	1
	11345075	ML4MQS37MBSBL	BLUE	6.4	G 3/8-19 BSPP	31.60	21.80	21.00	-	-	-	-	20.0	-	-	1
Hand Mate Plug, elbow	11345040	ML4MQPEL9043ORMRD	RED	6.4	7/16-20 UNF 2A	30.75	22.95	32.00	22.1	11.07	-	13.25	-	-	-	2
	11345067	ML4MQPEL9043ORMBL	BLUE	6.4	7/16-20 UNF 2A	30.75	22.95	32.00	22.1	11.07	-	13.25	-	-	-	2
Hand Mate Plug, straight	11345073	ML4MQP43ORMRD	RED	6.4	7/16-20 UNF 2A	30.50	38.50	18.10	-	11.07	-	13.00	-	17.0	-	4b
	11345061	ML4MQP43ORMBL	BLUE	6.4	7/16-20 UNF 2A	30.50	38.50	18.10	-	11.07	-	13.00	-	17.0	-	4b
Blind Mate, Socket	11345082	ML4MQBS37MBS	-	6.4	G 3/8-19 BSPP	31.30	21.50	21.60	-	-	-	-	19.0	-	-	5b
Blind Mate, Plug	11425366	ML4MQBP	-	6.4	Floating Body	28.60	16.10	14.30	8.6	11.07	12.30	-	-	-	-	6a
Blind Mate, Compact Socket	11425374	ML4MQBS37MBS11	-	6.4	G 3/8-19 BSPP	31.30	21.50	19.00	19.0	-	-	-	17.9	-	-	5b

Connected Length for Hand mate mounting face on socket to mounting face on plug = B+J
Refer MQD spec for more details

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