# Couplings for thermal management application

北京汉深流体技术有限公司 *Catalog ~2026*

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# ADB Series (Aluminium) Flat Face/Dry Break

Thermal Management Application

Danfoss Hansen Aluminium Flat Face ADB coupling is a flat face/dry break coupling used for cooling systems in electric applications with circulating water and antifreeze fluids.
This coupling is providing an enhanced solution for preventing spillage of cooling agent which can cause technical failures, system shutdowns, and difficult clean-ups.

## Product Features

- Aluminium construction extends life for safer operations and reduced maintenance.
- Enhances operations in demanding applications with heat and vibration compared to plastic couplings.
- Up to 62% higher flow than ISO 16028 requirements to improve efficiency.
- 4-times safety factor at maximum operating pressure of 25 bar
- Options are available for railway applications with an enhanced version for vibration resistance tested according to EN 61373.
- Pre-guided system that helps users pre-position the coupling in difficult environments, making connection easy and reducing maintenance time.
- Full range of optional seals, end connections and sizes,

## Physical characteristics

| ADB Model | ISO size | Body size | Nominal Flow Diameter | Max. Operating Pressure | | Rated* Flow | Air Inclusion | Fluid Loss | Force to Connect | |
|---|---|---|---|---|---|---|---|---|---|---|
| | (mm) | (in) | (mm) | (bar) | (psi) | (lpm) | ml-cc. | ml-cc. | N | lbf |
| A2DB | 6.3 | ¼ | 5.9 | 25 | 360 | 25 | 0.002 | 0.001 | 77 | 17 |
| A3DB | 10 | ⅜ | 9 | 25 | 360 | 80 | 0.012 | 0.03 | 103 | 23 |
| A4DB | 12.5 | ½ | 11.5 | 25 | 360 | 110 | 0.012 | 0.025 | 110 | 25 |
| A6DB | 19 | ¾ | 15 | 25 | 360 | 150 | 0.03 | 0.05 | 193 | 43 |
| A8DB | 25 | 1 | 18.5 | 25 | 360 | 290 | 0.15 | 0.13 | 180 | 40 |

* Indicated values refer to a 1 bar / 14.5 psi pressure drop with water values obtained by projection of pressure drops measured with Oil.

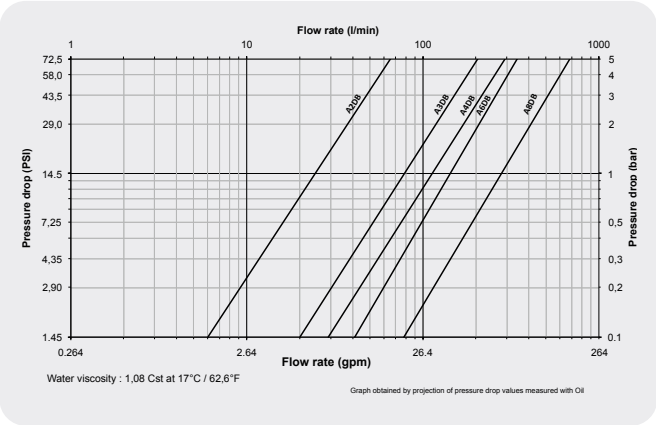
## Applications & Markets

- Electrical cooling applications
- Renewable energy
- Railway
- Processing industry
- Data centers

Global region

# ADB Series (Aluminium) Flat Face/Dry Break

## Flow Data




| Seal Elastomer Data* | |
|---|---|
| **Seal Elastomer** | **Max. Operation Temperature Range** |
| EPDM (Ethylene-Propylene)** | -40°C +150°C/-40°F +302°F |

*Other sealing material couold be available, contact Danfoss technical support for further information on sealing availability.
**For reference only, based on Danfoss recommended temperatures.
Contact Danfoss technical support for further information on fluid compatibility.

- Integrated relive valve into the front face of the Plug (Male).
- The valve opens at the given relive pressure in disconnected state.
- Applicable with all standard Sockets (Female).
- Flow rates relive valve < 1l/min.
- Seal Elastomer EPDM.
- Very low relive valve spillage.

### Plug (Male) Relive Valve Option*

| Part/Order Number | ADB Model | Body size | Relive Pressure | Thread Size | |
|---|---|---|---|---|---|
| | | (in) | (bar) | BSPP female | BSPP male |
| 12027776 | A4DBPS52 | ½ | 9±3 | – | 1/2' |
| 12016893 | A6DBPS51 | ¾ | 9±3 | 3/4' | – |
| 12016878 | A8DBPS51 | 1 | 9±3 | 1' | – |

* On customer request.

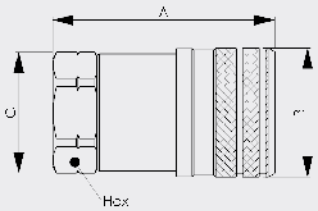


Figure 1

End-connection

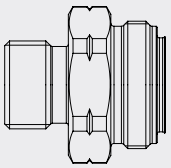


Figure 2

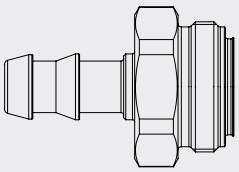


Figure 3

### Sockets (Female)

| Part/Order Number | Fig. | Body Size | Thread Size | | | Dimensions | | | | | | | | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | BSPP female | BSPP male | Hosebarb | A | | B | | C | | Hex1 | | | |
| | | (in) | | | | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | lbs | grams |
| A2DBS25BS192 | 1 | ¼ | ¼ | – | – | 46.7 | 1.84 | 26.8 | 1.06 | 24.5 | 0.96 | 22 | 0.87 | 0.104 | 47 |
| A2DBS25MBS192 | 2 | ¼ | – | ¼ | – | 46.7 | 1.84 | 26.8 | 1.06 | 24.5 | 0.96 | 22 | 0.87 | 0.106 | 48 |
| A2DBS25HT192 | 3 | ¼ | – | – | ¼ | 46.7 | 1.84 | 26.8 | 1.06 | 24.5 | 0.96 | 22 | 0.87 | 0.106 | 48 |
| A2DBS37HT192 | 3 | ¼ | – | – | ⅜ | 46.7 | 1.84 | 26.8 | 1.06 | 24.5 | 0.96 | 22 | 0.87 | 0.106 | 48 |
| A3DBS37BS192 | 1 | ⅜ | ⅜ | – | – | 61.5 | 2.42 | 32 | 1.26 | 29.5 | 1.16 | 27 | 1.06 | 0.192 | 87 |
| A3DBS37MBS192 | 2 | ⅜ | – | ⅜ | – | 61.5 | 2.42 | 32 | 1.26 | 29.5 | 1.16 | 27 | 1.06 | 0.192 | 87 |
| A3DBS37HT192 | 3 | ⅜ | – | – | ⅜ | 61.5 | 2.42 | 32 | 1.26 | 29.5 | 1.16 | 27 | 1.06 | 0.190 | 86 |
| A3DBS50BS192 | 1 | ⅜ | ½ | – | – | 61.5 | 2.42 | 32 | 1.26 | 29.5 | 1.16 | 27 | 1.06 | 0.192 | 87 |
| A3DBS50MBS192 | 2 | ⅜ | – | ½ | – | 61.5 | 2.42 | 32 | 1.26 | 29.5 | 1.16 | 27 | 1.06 | 0.205 | 93 |
| A3DBS50HT192 | 3 | ⅜ | – | – | ½ | 61.5 | 2.42 | 32 | 1.26 | 29.5 | 1.16 | 27 | 1.06 | 0.201 | 91 |
| A4DBS50BS192 | 1 | ½ | ½ | – | – | 63.3 | 2.49 | 37.9 | 1.49 | 35.5 | 1.4 | 32 | 1.26 | 0.284 | 129 |
| A6DBS75BS192 | 1 | ¾ | ¾ | – | – | 88.5 | 3.48 | 48 | 1.89 | 46.5 | 1.83 | 41 | 1.61 | 0.613 | 278 |
| A8DBS100BS192 | 1 | 1 | 1 | – | – | 93.9 | 3.70 | 57.4 | 2.26 | 54.9 | 2.16 | 50 | 1.97 | 0.939 | 426 |

*Alternative end connections available upon request.
To obtain connected length of coupling, add dimensions A (Fig. 1) and G (Fig. 4) together.

# ADB Series (Aluminium) Flat Face/Dry Break

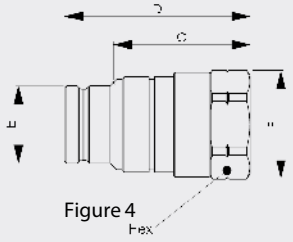



Figure 4

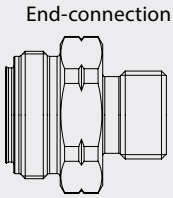



Figure 5

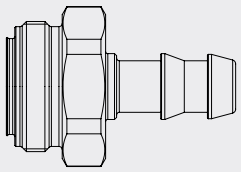


Figure 6

## Sockets (Female)

| Part/Order Number | Fig. | Body Size | Thread Size | | | Dimensions | | | | | | | | | | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | BSPP female | BSPP male | Hosebarb | D | | E | | F | | G | | Hex1 | | | |
| | | (in) | | | | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | lbs | grams |
| A2DBP25BS192 | 4 | ¼ | ¼ | – | – | 43.5 | 1.71 | 16.5 | 0.65 | 24.5 | 0.96 | 32.1 | 1.26 | 22 | 0.87 | 0.062 | 28 |
| A2DBP25MBS192 | 5 | ¼ | – | ¼ | – | 43.5 | 1.71 | 16.5 | 0.65 | 24.5 | 0.96 | 32.1 | 1.26 | 22 | 0.87 | 0.064 | 29 |
| A2DBP25HT192 | 6 | ¼ | – | – | ¼ | 43.5 | 1.71 | 16.5 | 0.65 | 24.5 | 0.96 | 32.1 | 1.26 | 22 | 0.87 | 0.064 | 29 |
| A2DBP37HT192 | 6 | ¼ | – | – | ⅜ | 43.5 | 1.71 | 16.5 | 0.65 | 24.5 | 0.96 | 32.1 | 1.26 | 22 | 0.87 | 0.064 | 29 |
| A3DBP37BS192 | 4 | ⅜ | ⅜ | – | – | 57.1 | 2.25 | 19.7 | 0.77 | 29.5 | 1.16 | 39.5 | 1.45 | 27 | 1.06 | 0.117 | 53 |
| A3DBP37MBS192 | 5 | ⅜ | – | ⅜ | – | 57.1 | 2.25 | 19.7 | 0.77 | 29.5 | 1.16 | 39.5 | 1.45 | 27 | 1.06 | 0.117 | 53 |
| A3DBP37HT192 | 6 | ⅜ | – | – | ⅜ | 57.1 | 2.25 | 19.7 | 0.77 | 29.5 | 1.16 | 39.5 | 1.45 | 27 | 1.06 | 0.115 | 52 |
| A3DBP50BS192 | 4 | ⅜ | ½ | – | – | 57.1 | 2.25 | 19.7 | 0.77 | 29.5 | 1.16 | 39.5 | 1.45 | 27 | 1.06 | 0.117 | 53 |
| A3DBP50MBS192 | 5 | ⅜ | – | ½ | – | 57.1 | 2.25 | 19.7 | 0.77 | 29.5 | 1.16 | 39.5 | 1.45 | 27 | 1.06 | 0.130 | 59 |
| A3DBP50HT192 | 6 | ⅜ | – | – | ½ | 57.1 | 2.25 | 19.7 | 0.77 | 29.5 | 1.16 | 39.5 | 1.45 | 27 | 1.06 | 0.126 | 57 |
| A4DBP50BS192 | 4 | ½ | ½ | – | – | 60.6 | 2.39 | 25.2 | 0.99 | 35.5 | 1.4 | 40.4 | 1.59 | 32 | 1.26 | 0.194 | 88 |
| A6DBP75BS192 | 4 | ¾ | ¾ | – | – | 83.4 | 3.28 | 32.8 | 1.29 | 46.5 | 1.83 | 57.7 | 2.27 | 41 | 1.61 | 0.375 | 170 |
| A8DBP100BS192 | 4 | 1 | 1 | – | – | 89.4 | 3.52 | 40.4 | 1.59 | 54.9 | 2.16 | 62 | 2.44 | 50 | 1.97 | 0.591 | 268 |

*Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1) and G (Fig. 4) together.

## Color Coding Ring Option*

| Body Size | ISO Size | Size | Socket/Female Ring Part/Order Number** | | | | Plug/Male Ring Part/Order Number** | | | | Tool Part/Order Number | Tool & Rings Kit Part/Order Number*** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Blue | Red | Yellow | Green | Blue | Red | Yellow | Green | | |
| (in) | (mm) | | | | | | | | | | | |
| ½ | 12.5 | 12FF | CR12FFSLB | CR12FFSRD | CR12FFSYL | CR12FFSDG | CR12FFPLB | CR12FFPRD | CR12FFPYL | CR12FFPDG | CR12FFSP93 | CRKIT12FF |

For color coded rings TPE material is used that offers excellent flexibility which allows a very good shock resistance in demanding applications.
Good thermal, chemical and weather resistance provides a great fit on the coupling and a extended life time in toughest conditions.
The color coded rings are easy to install by using the referenced tools. Please refer to the user guide on danfoss/qdc.com

* For requests on alternative colors or installation instructions, please contact your Danfoss sales representative.
** Orders must be in multiples of 10 pcs.
*** The kit consists of a tool plus 10 socket rings and 10 plug rings of each color.

Global region

# FD83 Series Full Flow Dual Interlock

Thermal Management Application

Danfoss Hansen´s FD83 coupling is designed for fluid transfer and electronics cooling applications where full flow, fluid compatibility and safety are essential. The FD83 identical halves include two interlock features to eliminate spills and ensure maximum safety. Valves cannot be opened until the coupling halves are mated and coupling halves cannot be disconnected until both halves are closed.

## Product Features

- Dual interlock safety feature eliminates accidental opening of coupling when disconnected with the use of a patented locking pin design and lever handle
- Design provides reliable performance and no spillage during maintenance or service
- Standard seal material: EPDM-P (Peroxide cured)
- Standard body material: 303 stainless steel
- Full flow coupling
- Identical coupling halves
- Maintenance and service friendly
- Passivated 303 stainless steel material provides broad fluid compatibility
- Wide range of terminal end options
- Operation temperature range: -3°C min (26.6°F), 60°C max (140°F)*

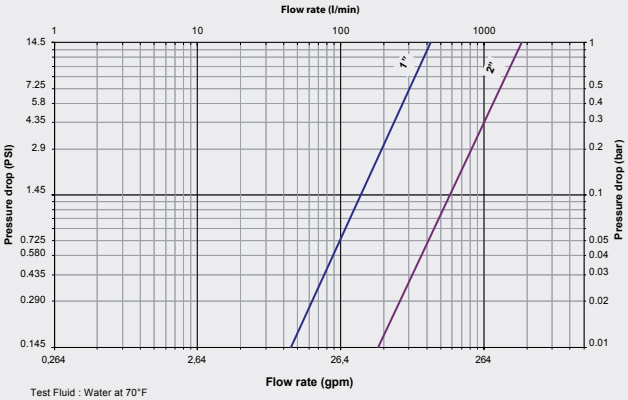
## Physical characteristics

| | Max Operating pressure | | | | | | Min burst pressure | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Couplin Size | Connected | | Disconnected Half | | | | Connected | | Disconnected Half | | | | Rated Flow | | Fluid Loss | Cv Value |
| (in) | (bar) | (psi) | (bar) | (psi) | (bar) | (psi) | (bar) | (psi) | (bar) | (psi) | (bar) | (psi) | (lpm) | (gpm) | cc. max. | |
| 1 | 10 | 150 | 10 | 150 | 10 | 150 | 20 | 300 | 20 | 300 | 20 | 300 | 189 | 50 | 5.0 | 30 |
| 2 | 10 | 150 | 10 | 150 | 10 | 150 | 20 | 300 | 20 | 300 | 20 | 300 | 800 | 211 | 12 | 127 |

## Applications & Markets

- Data Centers
- Thermal Management Systems
- Industrial Fluid Transfer
- Not intended for two-phase cooling

## Flow Data




## Seal Elastomer Data*

| Seal Elastomer | Operation Temperature Range C° | F° |
|---|---|---|
| EPDM-P (Peroxide Cured) | -40C° to 150C° | -40F° to 302F° |

*For reference only, based on Danfoss recommended temperatures.
Contact Danfoss technical support for further information on fluid compatibility.

Global region

# FD83 Series Full Flow Dual Interlock

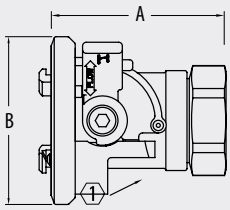


Figure 1

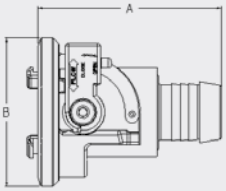


Figure 2

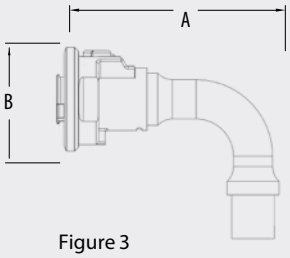


Figure 3

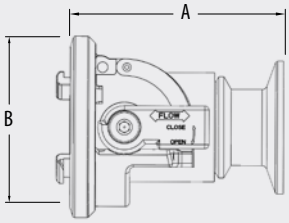


Figure 4

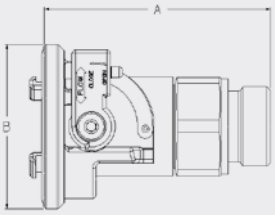


Figure 5

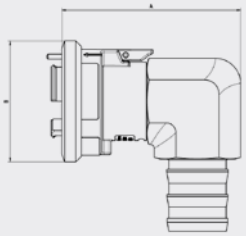


Figure 6

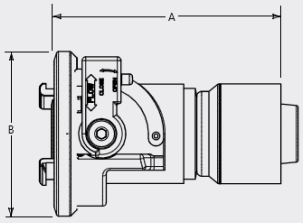


Figure 7

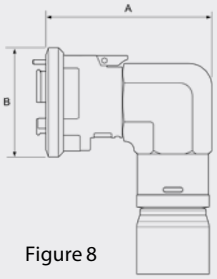


Figure 8

## Dimensions (Female, SAE O-Ring Non-Valved)

| Part Number | Order Number | Body Size | Port Size | Thread | Type | Fig. | Dimensions A (mm) | A (in) | B (mm) | B (in) | Hex (mm) | Hex (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FD83-2052-16-16 | FD83-2052-16-16 | 1 | 1 | 1-11-½ | Female NPTF | 1 | 95.5 | 3.76 | 71.6 | 2.82 | 41 | 1.63 |
| FD83-2052-12-16 | FD83-2052-12-16 | 1 | ¾ | ¾-14 | Female NPTF | 1 | 70.1 | 2.76 | 71.6 | 2.82 | 41 | 1.63 |
| FD83-2046-16-16 | FD83-2046-16-16 | 1 | 1 | NA | 1" Hose Barb EHW194 hose | 2 | 84.2 | 3.31 | 71.6 | 2.82 | - | - |
| FD83-2092-16-16 | FD83-2092-16-16 | 1 | 1 | NA | 1" Hose Barb 90° EHW194 hose | 3 | 142.3 | 5.60 | 71.6 | 2.82 | - | - |
| FD83-2096-16-16 | FD83-2096-16-16 | 1 | 1 | 1 5/16-12 | Male ORB ISO 11926-3 | 5 | 95.5 | 3.76 | 71.6 | 2.82 | 41 | 1.63 |
| FD83-2140-16-16 | FD83-2140-16-16 | 1 | 1 | G1-11 | Male BSPP ISO 1179-2 | 5 | 95.5 | 3.76 | 71.6 | 2.82 | 41 | 1.63 |
| FD83-2126-16-16 | FD83-2126-16-16 | 1 | 1 | G1-11 | Female BSPP ISO 1179-1 | 1 | 84.3 | 3.32 | 71.6 | 2.82 | 41 | 1.63 |
| FD83-2128-16-16 | FD83-2128-16-16 | 1 | 1 | NA | Sanitary Flange 1"-DIN32676/ISO2852/ BS4825 | 4 | 79.6 | 3.13 | 71.6 | 2.82 | - | - |
| FD83-2126-32-32 | FD83-2126-32-32 | 2 | 2 | G2-11 | Female BSPP ISO 1179-1 | 1 | 112.0 | 4.43 | 105.3 | 4.15 | 70 | 2.76 |
| FD83-2046-32-32 | 11349026 | 2 | 2 | NA | 2" Hose barb EHW194 hose | 2 | 156.8 | 6.17 | 105.3 | 4.15 | - | - |
| FD83-2046-24-32 | 11349477 | 2 | 1 ½ | NA | 1 1/2" Hose Barb EHW194 hose | 2 | 149.8 | 5.90 | 105.3 | 4.15 | - | - |
| FD83-2046-20-32 | 11349492 | 2 | 1 ¼ | NA | 1 1/4" Hose Barb EHW194 hose | 2 | 141.6 | 5.57 | 105.3 | 4.15 | - | - |
| FD83-2128-32-32 | FD83-2128-32-32 | 2 | 2 | NA | Sanitary Flange 2"-DIN32676/ISO2852/BS4825 | 4 | 102.4 | 4.03 | 105.3 | 4.15 | - | - |
| FD83-2052-32-32 | FD83-2052-32-32 | 2 | 2 | 2-11-½ | Female NPT | 1 | 112.6 | 4.43 | 105.3 | 4.15 | 70 | 2.76 |
| FD83-2092-32-32 | 11358296 | 2 | [2] | NA | 2" Hose barb EHW194 hose | 6 | 155.2 | 6.11 | 105.3 | 4.15 | - | - |
| FD83-2175-32-32 | 11369532 | 2 | 2 | G2-11 | Male BSPP ISO 1179-3 | 5 | 134.3 | 5.29 | 105.3 | 4.15 | 75 | 2.95 |
| FD83-2168-16-16 | 11367128 | 1 | 1 | N/A | 1" 1G Crimp | 8 | 102.8 | 4.05 | 71.6 | 2.82 | - | - |
| FD83-2170-16-16 | 11367142 | 1 | 1 | N/A | 1" 1G Crimp | 7 | 106.1 | 4.2 | 71.6 | 2.82 | - | - |
| FD83-2170-32-32 | 11367130 | 2 | 2 | N/A | 2" 1G Crimp | 7 | 148.3 | 5.84 | 105.3 | 4.15 | - | - |
| FD83-2168-32-32 | 11367129 | 2 | 2 | N/A | 2" 1G Crimp | 8 | 153.2 | 6.03 | 105.3 | 4.15 | - | - |

Other end connections available upon request.

Global region

# UQD Series

Thermal Management Application

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: 5°C - 65°C (41°F - 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

OCP INSPIRED

## Physical characteristics

| Size | Body Size | Nominal Flow Diameter | Max operating pressure | | | | | | Min burst pressure | | | | | | Rated Flow* | | Cv Value | Air In-clusion | 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) | | - | cc. max. | cc. max. |
| UQD02 | ⅛ | 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 | ¼ | 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 | ⅜ | 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 | ½ | 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).

Global region

# UQD Series

| Size | Force to Connect | | Performance Parameters 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 |

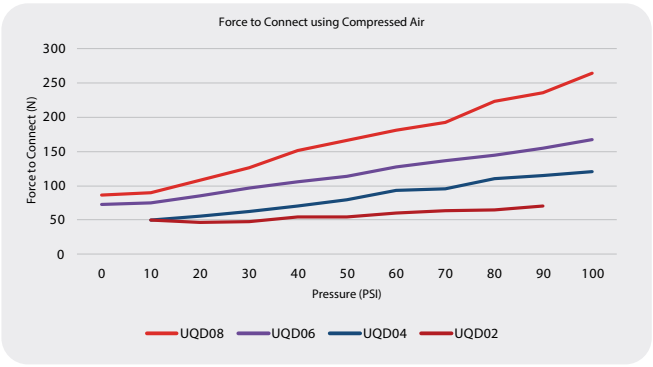
## Applications & Markets

- Liquid cooling application
- Data center application

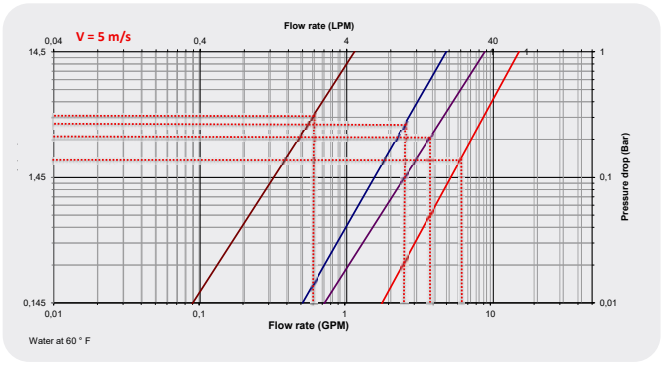
### Seal Elastomer Data

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

## Force to Connect vs Pressure




## Flow Data




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.

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

# UQD Series

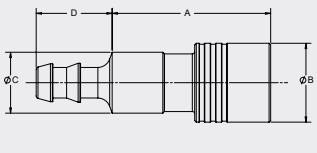



Figure 1
Push on socketless fitting

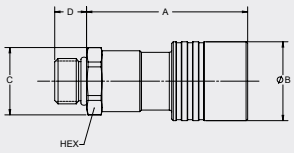



Figure 2
Male ORB

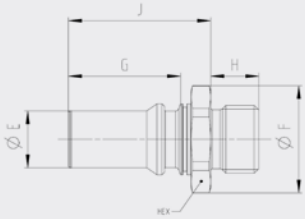



Figure 3
Male ORB ISO 11926-3

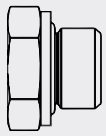


Figure 4
ISO 1179-3

## 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 | | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) |
| UQD02 | 2UQS25HABLS11<br>2UQS25HARDS11 | 2UQS25HABLS11<br>2UQS25HARDS11 | SS303 | 1/4 | - | 1 | 38.4 | 1.51 | 18.5 | 0.73 | 14.0 | 0.55 | 19.1 | 0.75 | - | - |
| UQD04 | 4UQS37HABLS11<br>4UQS37HARDS11 | 4UQS37HABLS11<br>4UQS37HARDS11 | SS303 | 3/8 | - | 1 | 49.5 | 1.95 | 24.6 | 0.97 | 19.0 | 0.75 | 23.7 | 0.93 | - | - |
| | 4UQS25HABLS11<br>4UQS25HARDS11 | 4UQS25HABLS11<br>4UQS25HARDS11 | SS303 | 1/4 | - | 1 | 51.2 | 2.01 | 24.6 | 0.97 | 19.0 | 0.75 | 22 | 0.87 | - | - |
| | 4UQS56ORMBLS11<br>4UQS56ORMRDS11 | 4UQS56ORMBLS11<br>4UQS56ORMRDS11 | SS303 | - | 9/16 | 2 | 50.3 | 1.98 | 24.6 | 0.97 | 21 | 0.83 | 9.9 | 0.39 | 19 | 0.75 |
| UQD06 | 6UQS50HABLS11<br>6UQS50HARDS11 | 6UQS50HABLS11<br>6UQS50HARDS11 | SS303 | 1/2 | - | 1 | 52.3 | 2.06 | 27.8 | 1.10 | 23 | 0.9 | 25.8 | 1.01 | - | - |
| | 6UQS75ORMBLS11<br>6UQS75ORMRDS11 | 11348377<br>11348376 | SS303 | - | 3/4 | 2 | 52.5 | 2.06 | 27.9 | 1.09 | 22 | 0.87 | 11.1 | 0.44 | 22 | 0.86 |
| UQD08 V2 | 8UQS62HARDS11<br>8UQS62HABLS11<br>ML8UQS62HARDS11<br>ML8UQS62HABLS11 | 11368547<br>11368540<br>11368473<br>11368468 | SS303<br>SS303<br>SS304<br>SS304 | 5/8 | - | 1 | 62,05 | 2,44 | 31,5 | 1,24 | 28 | 1,1 | 39 | 1,54 | - | - |

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.

## 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) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) |
| UQD02 | 2UQP43ORMBL<br>2UQP43ORMRD | 2UQP43ORMBL<br>2UQP43ORMRD | 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 |
| | 2UQP12MBSBL<br>2UQP12MBSRD | 2UQP12MBSBL<br>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 |
| UQD04 | 4UQP56ORMBL<br>4UQP56ORMRD | 4UQP56ORMBL<br>4UQP56ORMRD | SS303 | - | 9/16-18 | 3 | 11.07 | 0.44 | 19.63 | 0.77 | 9.8 | 0.39 | 9.9 | 0.39 | 37.9 | 1.49 | 17 | 0.67 |
| | 4UQP37MBSBL<br>4UQP37MBSRD | 4UQP37MBSBL<br>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 |
| UQD06 | 6UQP75ORMBL<br>6UQP75ORMRD | 6UQP75ORMBL<br>6UQP75ORMRD | SS303 | - | 3/4-16 | 3 | 14.3 | 0.56 | 25.40 | 1.00 | 10 | 0.39 | 11.1 | 0.44 | 41.6 | 1.64 | 22 | 0.87 |
| | 6UQP37MBSBL<br>6UQP37MBSRD | 6UQP37MBSBL<br>6UQP37MBSRD | SS303 | 3/8 | - | 4 | 14.3 | 0.56 | 25.40 | 1.00 | 10 | 0.39 | 11.2 | 0.44 | 41.6 | 1.64 | 22 | 0.87 |
| UQD08 V2 | 8UQP870RMRDS11<br>8UQP870RMBLS11<br>ML8UQP870RMRDS11<br>ML8UQP870RMBLS11 | 12029056<br>12029057<br>11368458<br>11368440 | SS303<br>SS303<br>SS304<br>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 |
| | 8UQP50MBSRDS11<br>8UQP50MBSBLS11<br>ML8UQP50MBSRDS11<br>ML8UQP50MBSBLS11 | 11368541<br>11368548<br>11358746<br>11358734 | SS303<br>SS303<br>SS304<br>SS304 | 1/2 | - | 4 | 17,48 | 0,69 | 33 | 1,30 | 33,8 | 1,33 | 14,5 | 0,57 | 42,9 | 1,69 | 30 | 1,18 |

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

Global region

# UQDB Series

Blind-Mate Couplings

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 and Benefits

- 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: 303/304 stainless steel for excellent corrosion resistance
- Standard seal material: EPDM-P (Peroxide cured) for excellent fluid compatibility
- Terminal ends are ORB
- Operating temperature: 5°C - 65°C (41°F - 149°F)
- Typical working pressure: 6.9 bar
- QR code marking to help identify and track production parts
- All wetted o-rings/seals are qualified/ certified as per EC/UL 6268-1 G.15.2.3

OCP INSPIRED™

## Physical characteristics

| Size | Body Size | Nominal Flow Diameter | Max operating pressure | | | | | | Min burst pressure | | | | | | Rated Flow* | | Cv Value | Air In-clusion | Fluid Loss | Mis-align-ment (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) |
| UQDB02 | ⅛ | 3.15 | 20 | 290 | 20 | 290 | 20 | 290 | 60 | 870 | 60 | 870 | 60 | 870 | 2.1 | 0.55 | 0.31 | 0.04 | 0.02 | 1 |
| UQDB04 | ¼ | 5.7 | 16 | 232 | 16 | 232 | 16 | 232 | 48 | 696 | 48 | 696 | 48 | 696 | 6.4 | 1.7 | 1.22 | 0.04 | 0.025 | 1 |
| UQDB06 | ⅜ | 7.9 | 10 | 145 | 10 | 145 | 10 | 145 | 30 | 435 | 30 | 435 | 30 | 435 | 11.36 | 3.0 | 2.23 | 0.093 | 0.035 | 1 |
| UQDB08 | ½ | 9.3 | 6.89 | 100 | 6.89 | 100 | 6.89 | 100 | 20.68 | 300 | 20.68 | 300 | 20.68 | 300 | 17.8 | 4.7 | 3.76 | 0.096 | 0.044 | 1 |

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

Global region

# UQDB Series

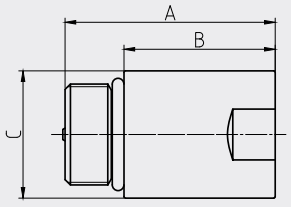



Figure 1
Socket

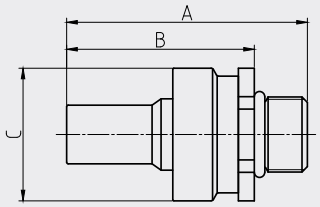



Figure 2
Plug

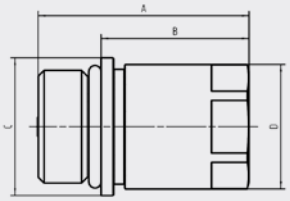


Figure 3
Socket

## Dimensions

| OCP UQDB size | Part number | Order number | Part | Material | Details Thread/size ORB | Fig. | Dimensions A (mm) | A (in) | B (mm) | B (in) | C (mm) | C (in) | D (mm) | D (in) | E2E length (mm) | E2E length (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UQDB02 | 2UQBS56ORM | 2UQBS56ORM | Socket | SS303 | 9⁄16-18 | 1 | 33.60 | 1.32 | 23.6 | 0.93 | 20 | 0.79 | | | 35.8 - 37.2 | 1.41 - 1.47 |
| UQDB02 | 2UQBP44ORM | 2UQBP44ORM | Plug | SS303 | 7⁄16-20 | 2 | 36.10 | 1.42 | 27 | 1.06 | 20 | 0.79 | | | | |
| UQDB04 | 4UQBS75ORM | 4UQBS75ORM | Socket | SS303 | ¾-16 | 1 | 39.60 | 1.55 | 28.5 | 1.12 | 23.6 | 0.92 | | | 44.0 - 45.4 | 1.73 - 1.79 |
| UQDB04 | 4UQBP56ORM | 4UQBP56ORM | Plug | SS303 | 9⁄16-18 | 2 | 45.32 | 1.78 | 35.3 | 1.39 | 25 | 0.98 | | | | |
| UQDB06 | 6UQBS87ORM | 6UQBS87ORM | Socket | SS303 | ⅞-14 | 1 | 44.40 | 1.74 | 31.7 | 1.24 | 28.4 | 1.11 | | | 47.5 - 48.9 | 1.87 - 1.93 |
| UQDB06 | 6UQBP75ORM | 6UQBP75ORM | Plug | SS303 | ¾ -16 | 2 | 49.90 | 1.96 | 38.9 | 1.53 | 28.4 | 1.11 | | | | |
| UQDB08 v2 | 8UQBS106ORMV2 | 11367197 | Socket | SS303 | 1 1⁄16-12 | 3 | 50.66 | 2.00 | 35.56 | 1.40 | 33 | 1.30 | 29.8 | 1.17 | 50.9-51.9 | 2.00-2.04 |
| UQDB08 v2 | 8UQBS106ORMV2 | 11368123 | Socket | SS304 | 1 1⁄16-12 | 3 | 50.66 | 2.00 | 35.56 | 1.40 | 33 | 1.30 | 29.8 | 1.17 | 50.9-51.9 | 2.00-2.04 |
| UQDB08 | 8UQBP87ORM | 8UQBP87ORM | Plug | SS303 | ⅞-14 | 2 | 55.60 | 2.19 | 42.9 | 1.69 | 31.3 | 1.23 | | | 51.8 – 53.2 | 2.04 - 2.09 |

| Size | Performance Parameters Force to Connect N | lb | Plug ORB size | Recommended Torque N.m | Socket ORB size | Recommended Torque N.m |
|---|---|---|---|---|---|---|
| UQDB02 | 53 | 12 | 7⁄16-20 UNF-2A | 9-10 | 9⁄16-18 UNF-2A | 15-17 |
| UQDB04 | 62 | 14 | 9⁄16-18 UNF-2A | 15-17 | ¾-16 UNF-2A | 25-28 |
| UQDB06 | 67 | 15 | ¾-16 UNF-2A | 25-28 | ⅞-14 UNF-2A | 30-33 |
| UQDB08 | 71 | 16 | ⅞-14 UNF-2A | 30-33 | 1 1⁄16-12 UN-2A | 48-53 |

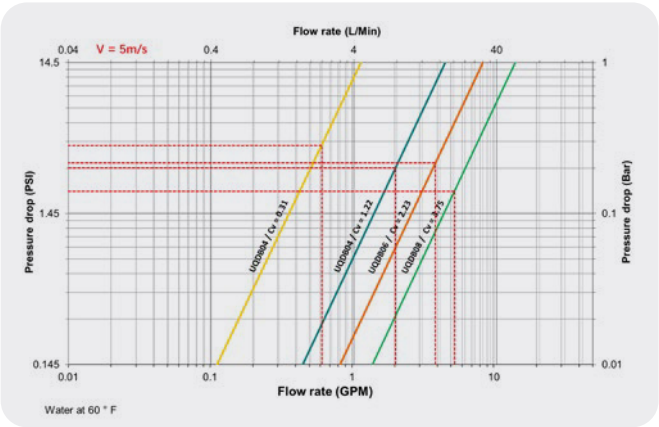
## Applications & Markets

- Direct-to-chip liquid cooling
- Thermal management

### Seal Elastomer Data

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

## Flow Data




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.

| Size | Flow at 5m/s (lpm) | Flow at 5 m/s (gpm) |
|---|---|---|
| UQBD02 | 2.3 | 0.60 |
| UQDB04 | 7.8 | 2.0 |
| UQDB06 | 14.7 | 3.9 |
| UQDB08 | 20.6 | 5.4 |

Global region

# MQD/MQDB Series

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 :
  -40° C to +150 ° C (-40°F to 302°F)

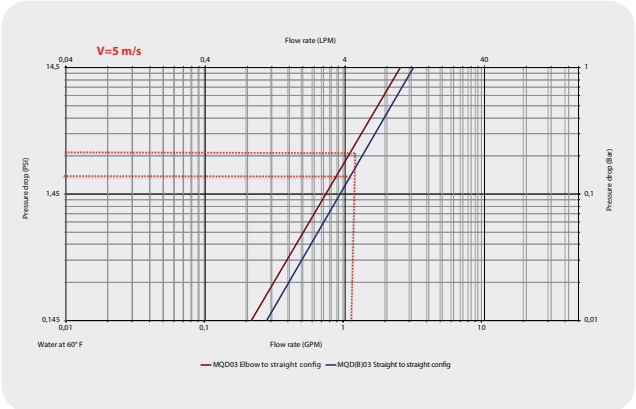
## Physical characteristics

| 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 |

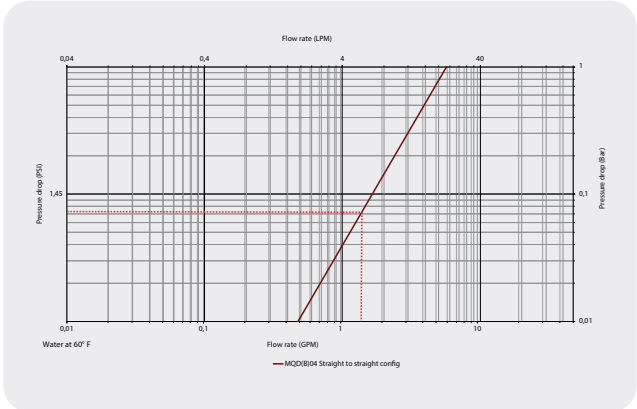
## Applications & Markets

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

## Flow Data MQ03




## Flow Data MQ04



Global region

# MQD/MQDB Series

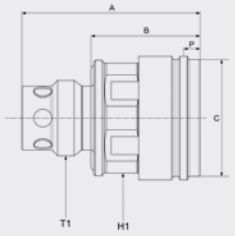



Figure 1

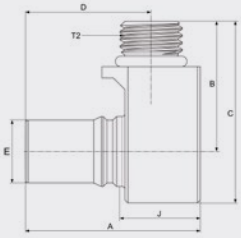



Figure 2

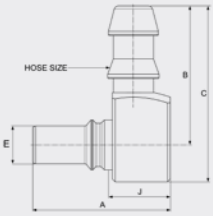



Figure 3

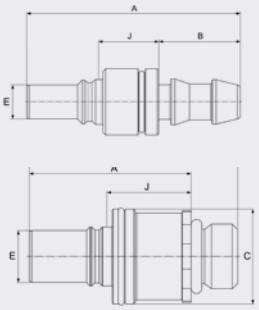



Figure 4 (a, b)

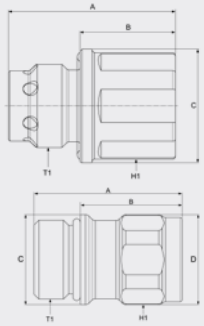



Figure 5 (a, b)

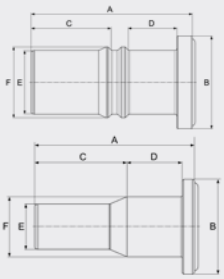



Figure 6 (a, b)

| 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 | 26.00 | 24.50 | 32.50 | 17.9 | 8.8 | - | 12.40 | - | - | - | 3 |
| | 11359583 | ML3MQPEL9025HCBL | BLUE | 4.9 | Hose barb -04 size | 26.00 | 24.50 | 32.50 | 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 | - | - | 15.0 | 4b |
| | 11359584 | ML3MQP25MBSBL | BLUE | 4.9 | G 1/4-19 BSPP | 39.00 | 31.00 | - | - | 8.8 | - | 17.40 | - | - | 15.0 | 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 | 23.40 | 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 | 11345092 | ML4MQBP | - | 6.4 | Floating Body | 28.60 | 16.10 | 14.30 | 8.6 | 11.07 | 12.30 | - | - | - | - | 6a |
| Blind Mate, Compact Socket | 11369766 | 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

Global region

# OCP ORV3 BMQC Series

Blind Mate Quick Connector

Danfoss Hansen OCP Open Rack V3 Blind Mate Quick Connector (BMQC) 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 size 5mm and complies with OCP specification requirements. Danfoss BMQC 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 and Benefits

- Designed together with OCP and complies with product specifications
- "Blind-connection" thanks to self- alignment feature with angular and radial compensation:
- +/- 5 mm of pure radial offset between the socket axis and the plug cup axis
- +/- 2.7° of angular offset
- Push-to-connect design
- Direct connection between servers and manifolds
- Static force to connect is max. 99.3 N
- Static force to connect dry is max. 66.71 N
- Dynamic force to connect is max . 120 N max @ 40 mm/sec
- Performance validated up-to 400 mm/sec
- High flow and reduced pressure drop for an improved system efficiency
- Flat-face dry break design to avoid spillage during connection/ disconnection
- High reliability and 100% helium-leak tested
- Danfoss unique patented centering mechanism. This allows end-user to use different types of hoses and a low force to connect.
- Standard material: 303 stainless steel for excellent corrosion resistance
- Standard seal material: EPDM-P (Peroxide cured) for excellent fluid compatibility
- Terminal ends are ORB for socket part and hose tail for plug part
- Operating temperature: 10°C - 65°C (50°F - 149°F)
- Working pressure: 2.4 bar (OCP is checking to increase the pressure – work is in progress)
- All wetted o-rings/seals are qualified/ certified as per IEC/ UL 6268-1 G.15.2.3

OCP INSPIRED

## Physical characteristics

| Size | Working Pressure | | Min. Burst Pressure | | Misalign-ment | Angular misalignment | Rated Flow | | Cv Value* | Torque |
|---|---|---|---|---|---|---|---|---|---|---|
| (in) | (bar) | (psi) | (bar) | (psi) | mm | degree | (lpm) | (gpm) | - | N/m |
| 5 | 2.4 | 35 | 13.8 | 200 | +/-5 | +/-2.7 | 6 | 1.6 | 1.04 | 40 +/-5 (socket) |
| | | | | | | | | | | 25 +/-5 (plug) |

*Using PG25, at 40°C.

Global region

# OCP ORV3 BMQC Series

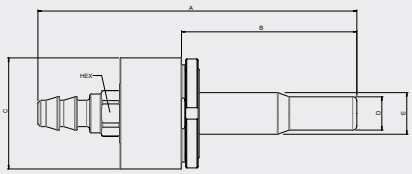


Figure 1
Plug

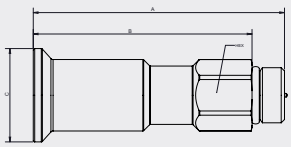


Figure 2
Socket

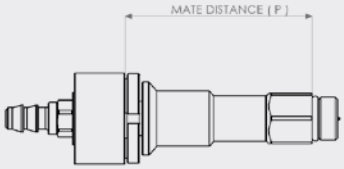


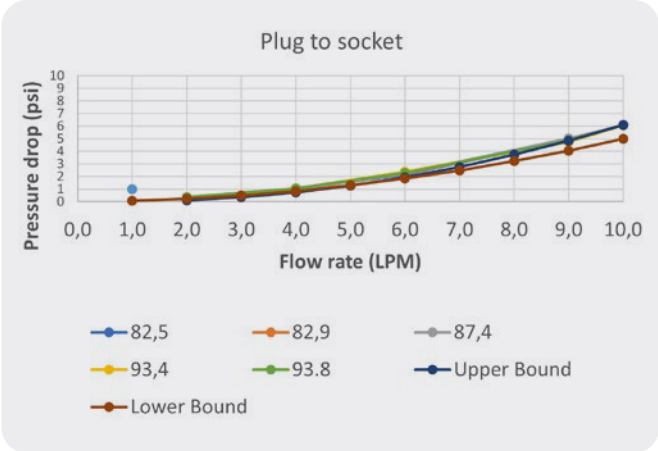

Figure 3
Connected

P = min 82.9 mm / max. 93.4 mm

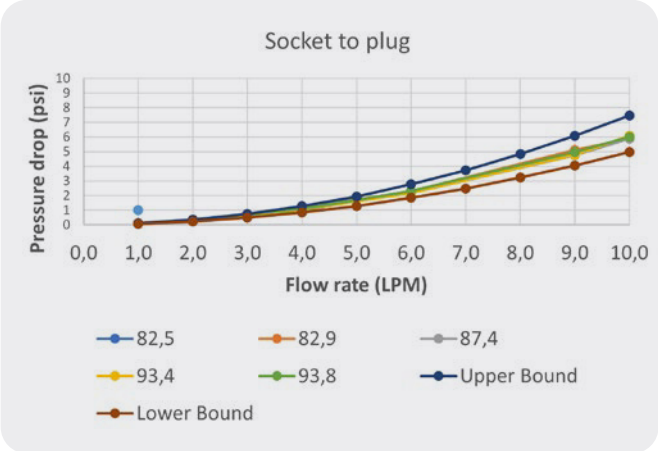
## Dimensions

| Part/Order Number | End connection | | | | Dimensions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Part | End type | Thread size | Fig. | A | | B | | C | | D | | E | | Hex |
| | | | | | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) |
| 12001795 | Plug | Hose barb | -6 | 1 | 115.6 | 4.55 | 67.7 | 2.66 | 40 | 1.57 | 12 | 0.59 | 15 | 0.47 | 15 |
| 12001797 | Socket | ORB | ¾ -16 UNF 2A | 2 | 86.1 | 3.39 | 75 | 2.95 | 32 | 1.25 | - | - | - | - | 22 |

## Flow Data




## Flow Data




## 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 |

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