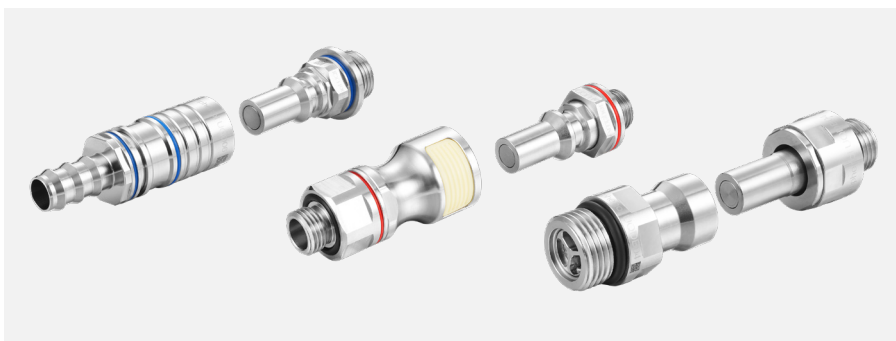
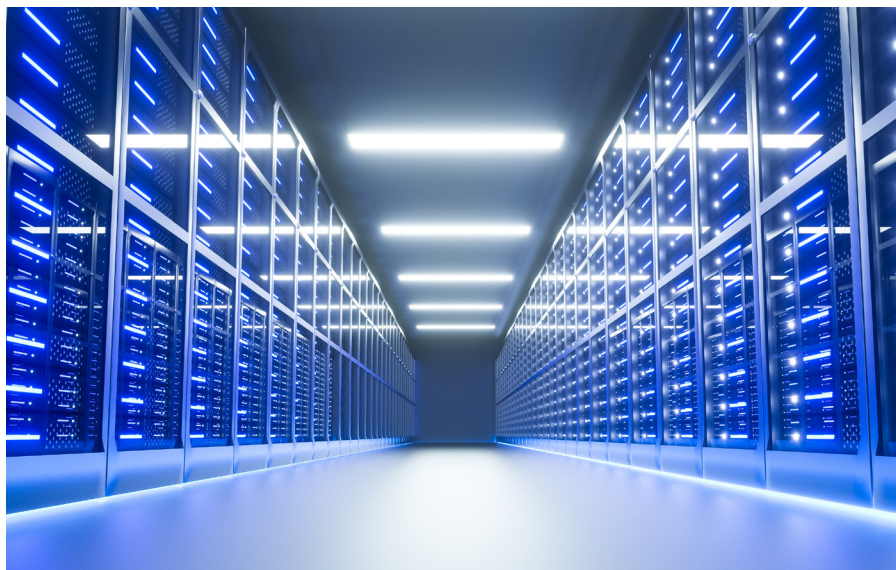


# Amphenol®



**Liquid Cooling Systems**  
Reliable Quick Disconnect Connectors

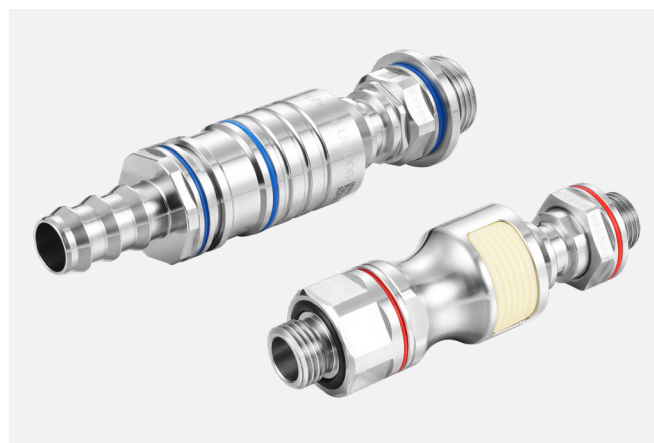
[www.amphenol-industrial.com](http://www.amphenol-industrial.com)

## UQD Product Introduction

The Universal Quick Disconnect (UQD) is a global standard for quick disconnect couplings developed within the OCP (Open Compute Project) liquid cooling fluid connection in data centers. The products can also be used in other industries such as energy storage systems, charging equipment, military, and power equipment that require quick fluid connections. The excellent non-leakage design enables quick & safe maintenance in field.

## Product Features

- Aerospace-grade sealed for safety and reliability
- Quick plug-in
- Bidirectional shut-off valve & dry-break
- Multiple termination options, such as barb, threads, etc.
- Right angle or inline options for different application scenarios
- Low flow resistance
- Latch socket has flat-design button
- QR code traceability
- Dimensional & performance requirements conform to OCP UQD specification rev 1.0

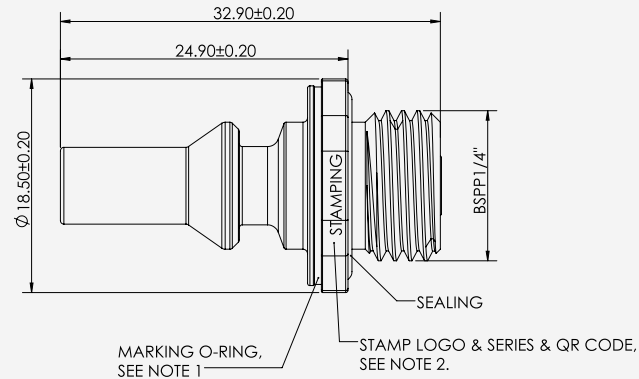


## Product SPEC

|                                       |                                                          |             |             |            |
|---------------------------------------|----------------------------------------------------------|-------------|-------------|------------|
| <b>Shell Material</b>                 | Stainless steel                                          |             |             |            |
| <b>Spring (Wetted)</b>                | Corrosion-resistant stainless steel                      |             |             |            |
| <b>Seal</b>                           | EPDM, FKM, FMVQ optional according to the coolant        |             |             |            |
| <b>Working Pressure</b>               | 0~0.6MPa                                                 |             |             |            |
| <b>Safe Pressure</b>                  | 1~2MPa                                                   |             |             |            |
| <b>Size</b>                           | UQD02/04/06/08 (OCP Standard)                            |             |             |            |
| <b>Temperature</b>                    | Operating Temperature: -40 °C to 105°C                   |             |             |            |
| <b>Sealing</b>                        | Bidirectional dry-break sealed                           |             |             |            |
| <b>Applicable Coolant</b>             | Deionized water, Ethylene glycol, Propylene glycol, etc. |             |             |            |
| <b>Cv Value</b>                       | UQD02:0.4                                                | UQD04:1.29  | UQD06:2.32  | UQD08:3.7  |
| <b>Fluid Loss (ml)</b>                | UQD02:0.004                                              | UQD04:0.006 | UQD06:0.008 | UQD08:0.01 |
| <b>Mating Force (N) at 0 pressure</b> | UQD02:47                                                 | UQD04:51    | UQD06:100   | UQD08:137  |

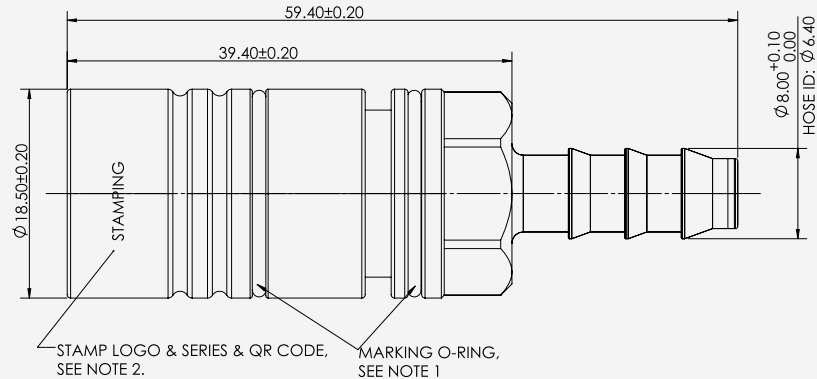
## UQD02 Dimensions

### UQD02 PLUG



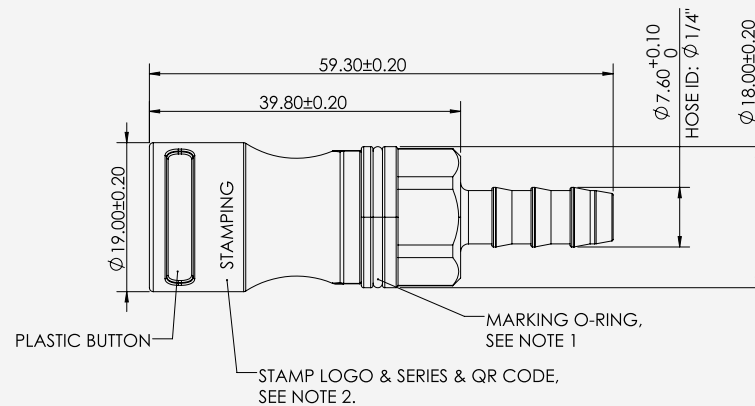
UQDP-02TMB02-L000

### UQD02 SOCKET



UQDS-02HSH05-L000

### UQD02 SOCKET LATCH



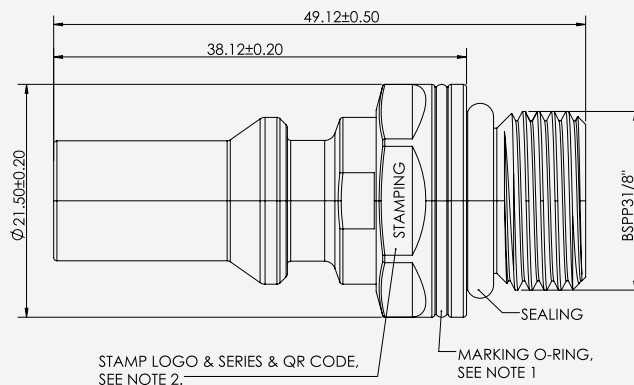
UQDLS-02HSH01-L000

#### Note:

1. UQD has color option, -L suffix means Blue, -R means Red.
2. For other terminations, please refer to PN list from following page, or contact the Amphenol team.

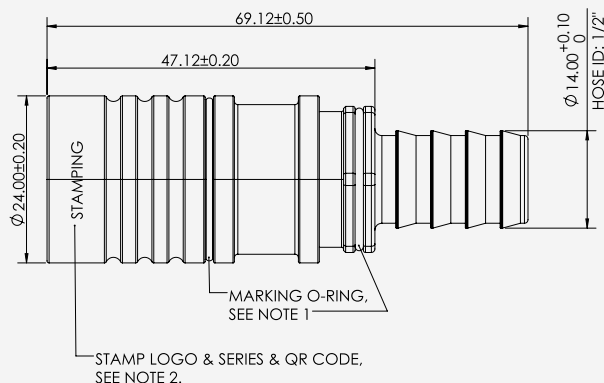
## UQD04 Dimensions

### UQD04 PLUG



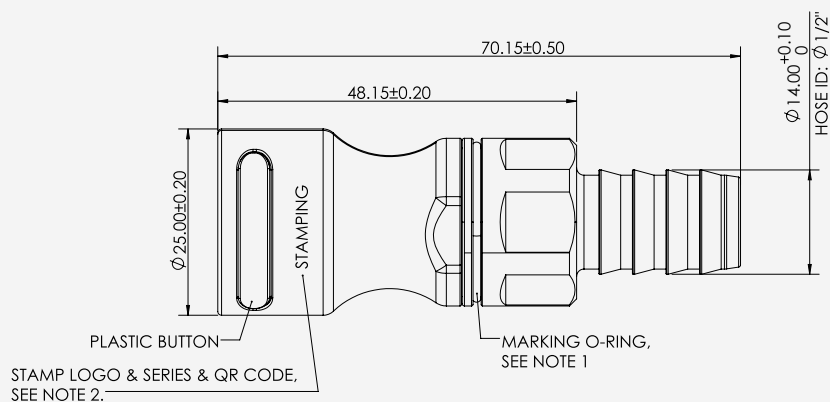
UQDP-04TMB03-L000

### UQD04 SOCKET



UQDS-04HSH03-L000

### UQD04 SOCKET LATCH



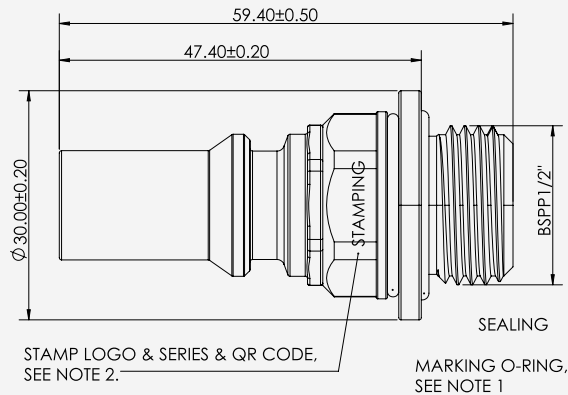
UQDLS-04HSH03-L000

Note:

1. UQD has color option, -L suffix means Blue, -R means Red.
2. For other terminations, please refer to PN list from following page, or contact the Amphenol team.

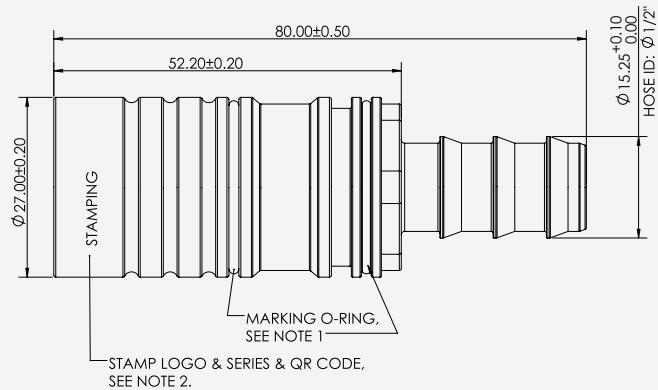
## UQD06 Dimensions

### UQD06 PLUG



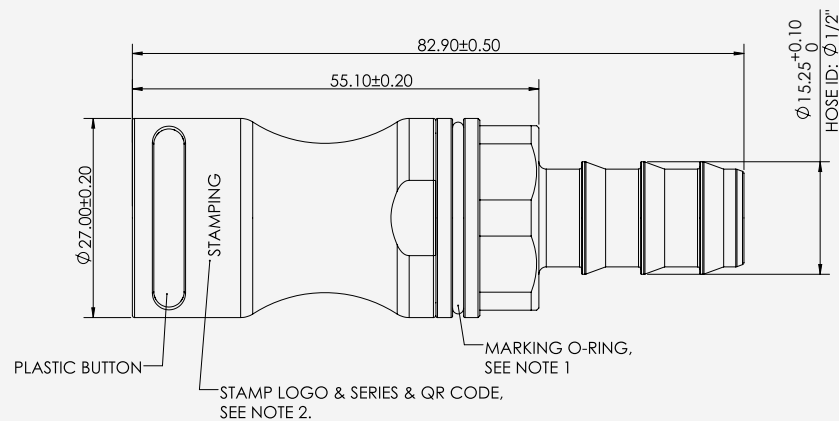
UQDP-06TMB04-L000

### UQD06 SOCKET



UQDS-06HSH03-L000

### UQD06 SOCKET LATCH



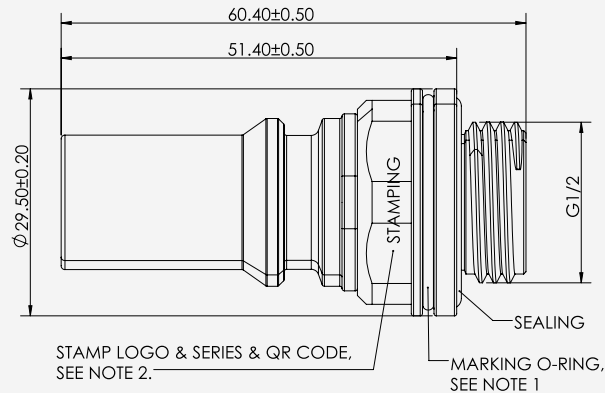
UQDLS-06HSH03-L000

#### Note:

1. UQD has color option, -L suffix means Blue, -R means Red.
2. For other terminations, please refer to PN list from following page, or contact the Amphenol team.

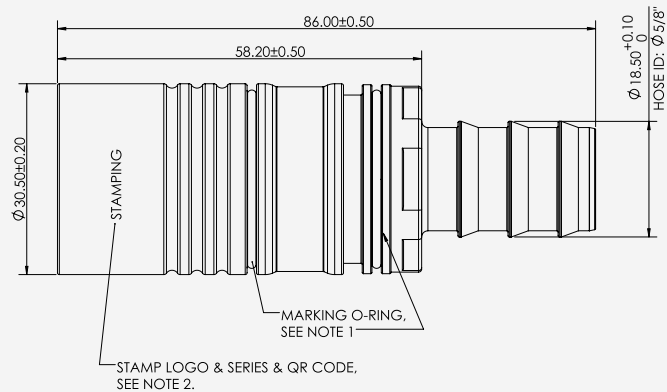
## UQD08 Dimensions

### UQD08 PLUG



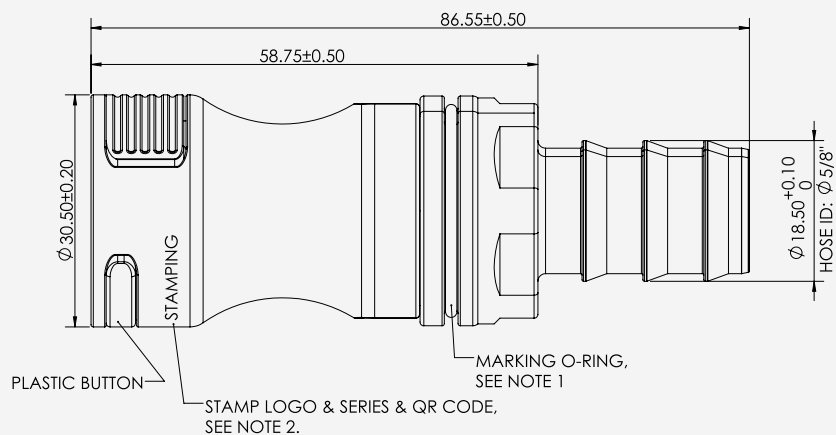
UQDP-08TMB04-L000

### UQD08 SOCKET



UQDS-08HSH04-L000

### UQD08 SOCKET LATCH

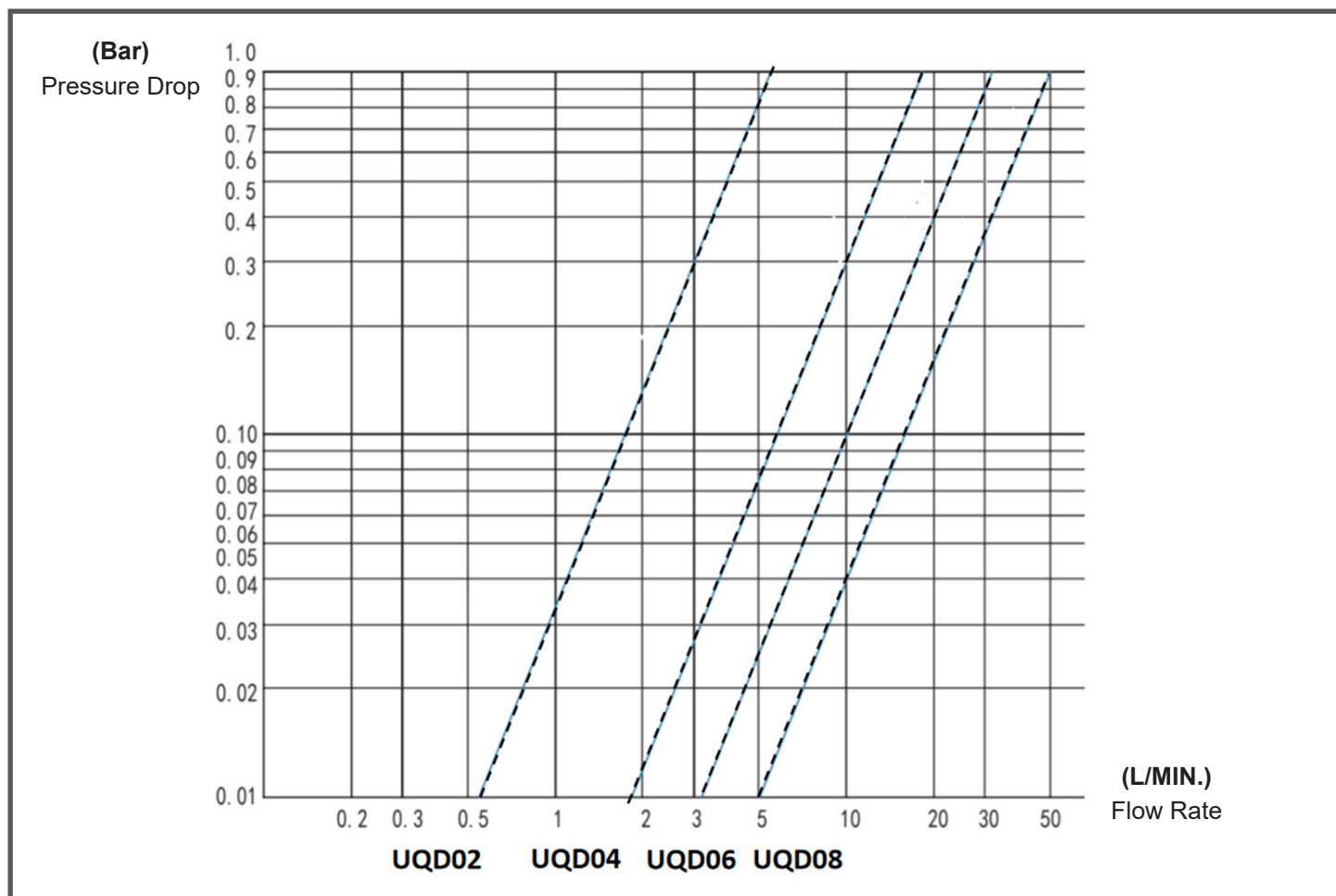


UQDLS-08HSH04-L000

Note:

1. UQD has color option, -L suffix means Blue, -R means Red.
2. For other terminations, please refer to PN list from following page, or contact the Amphenol team.

## Flow Rate Curve: UQD



Note: Tested by water

## UQDB Product Introduction

The Universal Quick Disconnect Blind-Mate (UQDB) is a liquid cooling fluid connection for data centers developed by the Open Compute Project (OCP) based on global standards which can automatically connect and seal without visual assistance. The UQDB series products use advanced blind-mate technology and high-performance sealing materials to ensure the reliability and durability, simplified the installation and improved efficiency, reduced the difficulty of operation and the risk of mis-operation.

## Product Features

- Blind-mate design, self- alignment feature with radial compensation of 1 mm
- Aerospace-grade sealed for safety and reliability
- Quick plug-in
- Bidirectional shut-off valve & dry-break
- Multiple termination options, such as barb, threads, etc.
- Right angle or inline options for different application scenarios
- Low flow resistance
- QR code traceability
- Dimensional & performance requirements conform to OCP UQDB specification rev 1.0

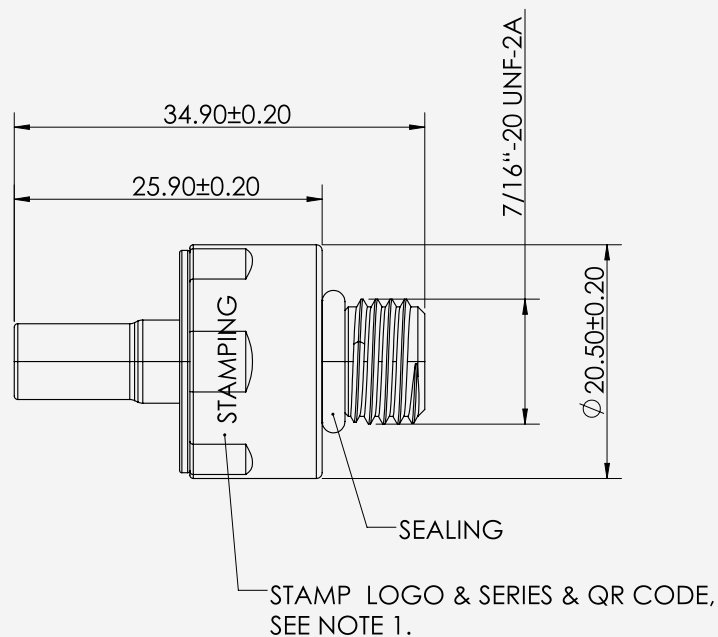


## Product SPEC

|                                       |                                                          |              |              |             |
|---------------------------------------|----------------------------------------------------------|--------------|--------------|-------------|
| <b>Shell Material</b>                 | Stainless steel                                          |              |              |             |
| <b>Spring (Wetted)</b>                | Corrosion-resistant stainless steel                      |              |              |             |
| <b>Seal</b>                           | EPDM, FKM, FMVQ optional according to the coolant        |              |              |             |
| <b>Working Pressure</b>               | 0~0.6MPa                                                 |              |              |             |
| <b>Safe Pressure</b>                  | 1~2MPa                                                   |              |              |             |
| <b>Size</b>                           | UQDB02/04/06/08 (OCP Standard)                           |              |              |             |
| <b>Temperature</b>                    | Operating Temperature: -40 °C to 105°C                   |              |              |             |
| <b>Sealing</b>                        | Bidirectional dry-break sealed                           |              |              |             |
| <b>Applicable Coolant</b>             | Deionized water, Ethylene glycol, Propylene glycol, etc. |              |              |             |
| <b>Cv Value</b>                       | UQDB02:0.4                                               | UQDB04:1.32  | UQDB06:2.11  | UQDB08:3.83 |
| <b>Fluid Loss (ml)</b>                | UQDB02:0.004                                             | UQDB04:0.004 | UQDB06:0.006 | UQDB08:0.01 |
| <b>Mating Force (N) at 0 pressure</b> | UQDB02:49                                                | UQDB04:58    | UQDB06:60    | UQDB08:68   |

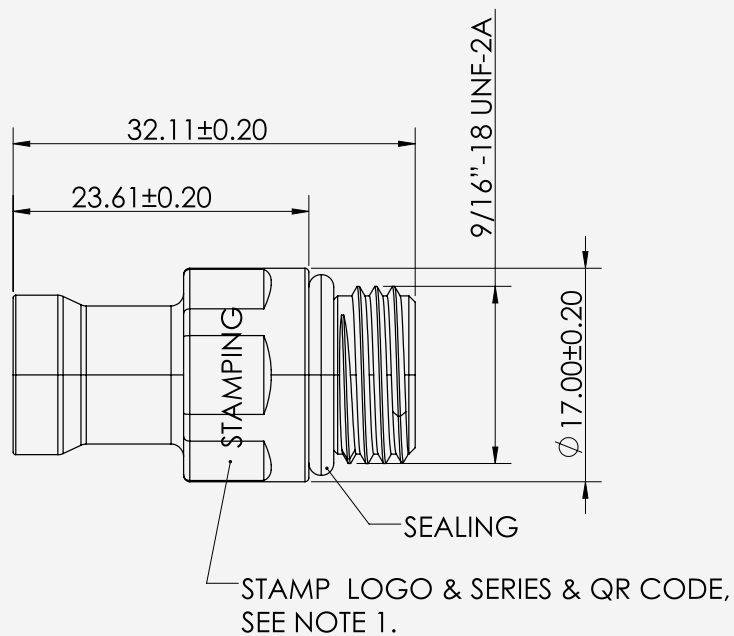
## UQDB Dimensions

### UQDB02 PLUG



UQDBP-02TMU01-N000

### UQDB02 SOCKET



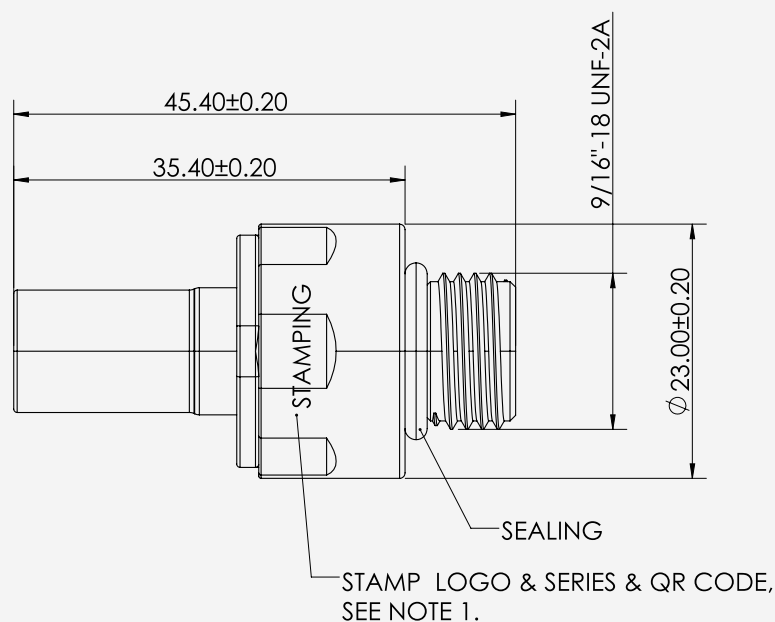
UQDBS-02TMU02-N000

**Note:**

1. UQDB has no color option.
2. For other terminations, please refer to PN list from following page, or contact the Amphenol team.

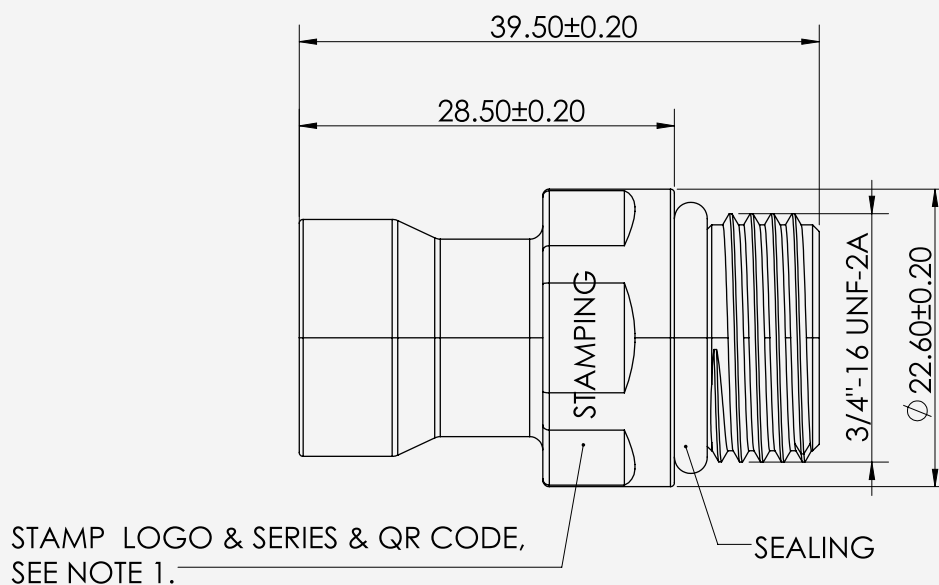
## UQDB Dimensions

### UQDB04 PLUG



UQDBP-04TMU02-N000

### UQDB04 SOCKET



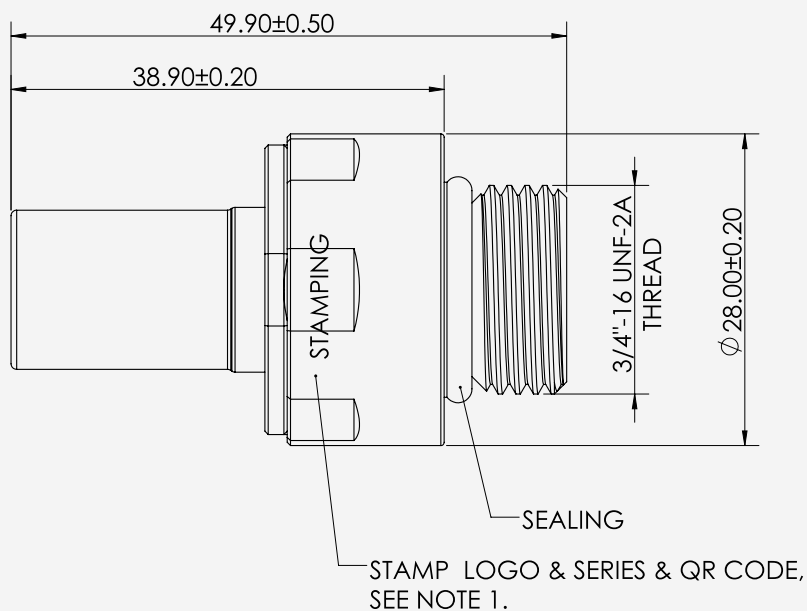
UQDBS-04TMU03-N000

**Note:**

1. UQDB has no color option.
2. For other terminations, please refer to PN list from following page, or contact the Amphenol team.

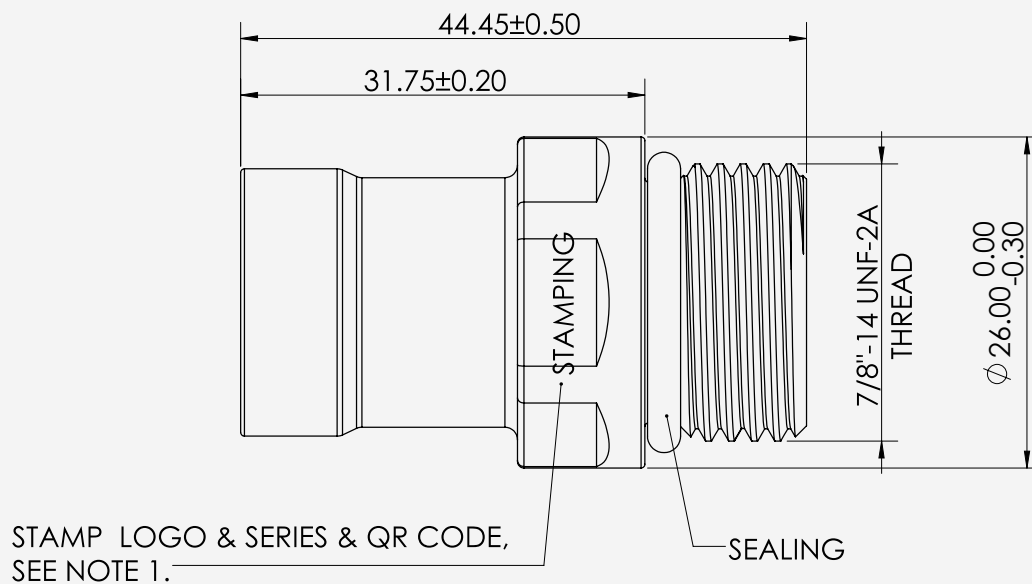
## UQDB Dimensions

### UQDB06 PLUG



UQDBP-06TMU03-N000

### UQDB06 SOCKET



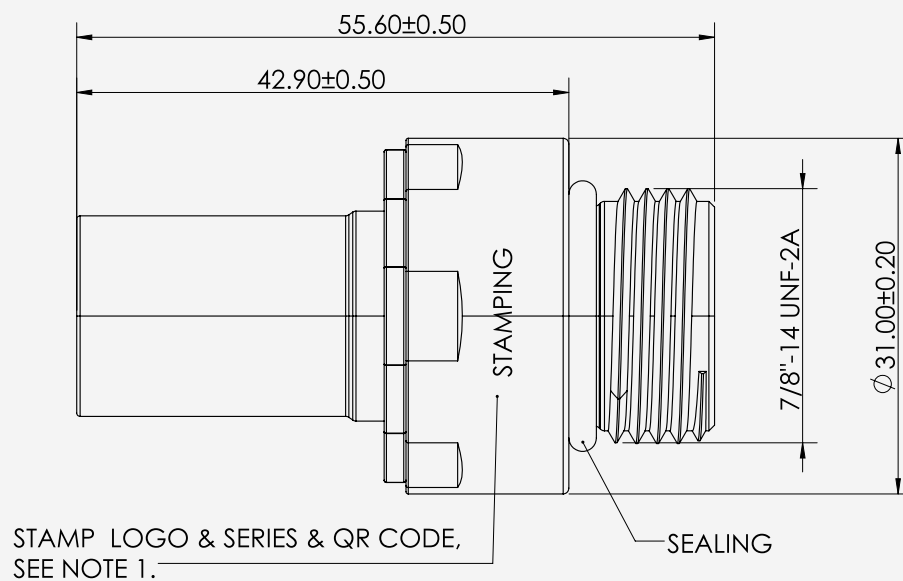
UQDBS-06TMU04-N000

#### Note:

1. UQDB has no color option.
2. For other terminations, please refer to PN list from following page, or contact the Amphenol team.

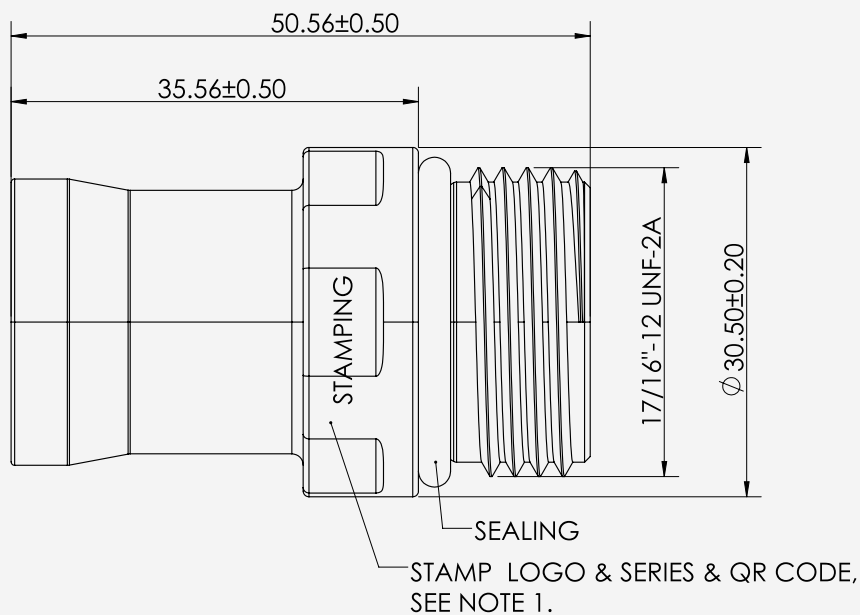
## UQDB Dimensions

### UQDB08 PLUG



UQDBP-08TMU04-N000

### UQDB08 SOCKET

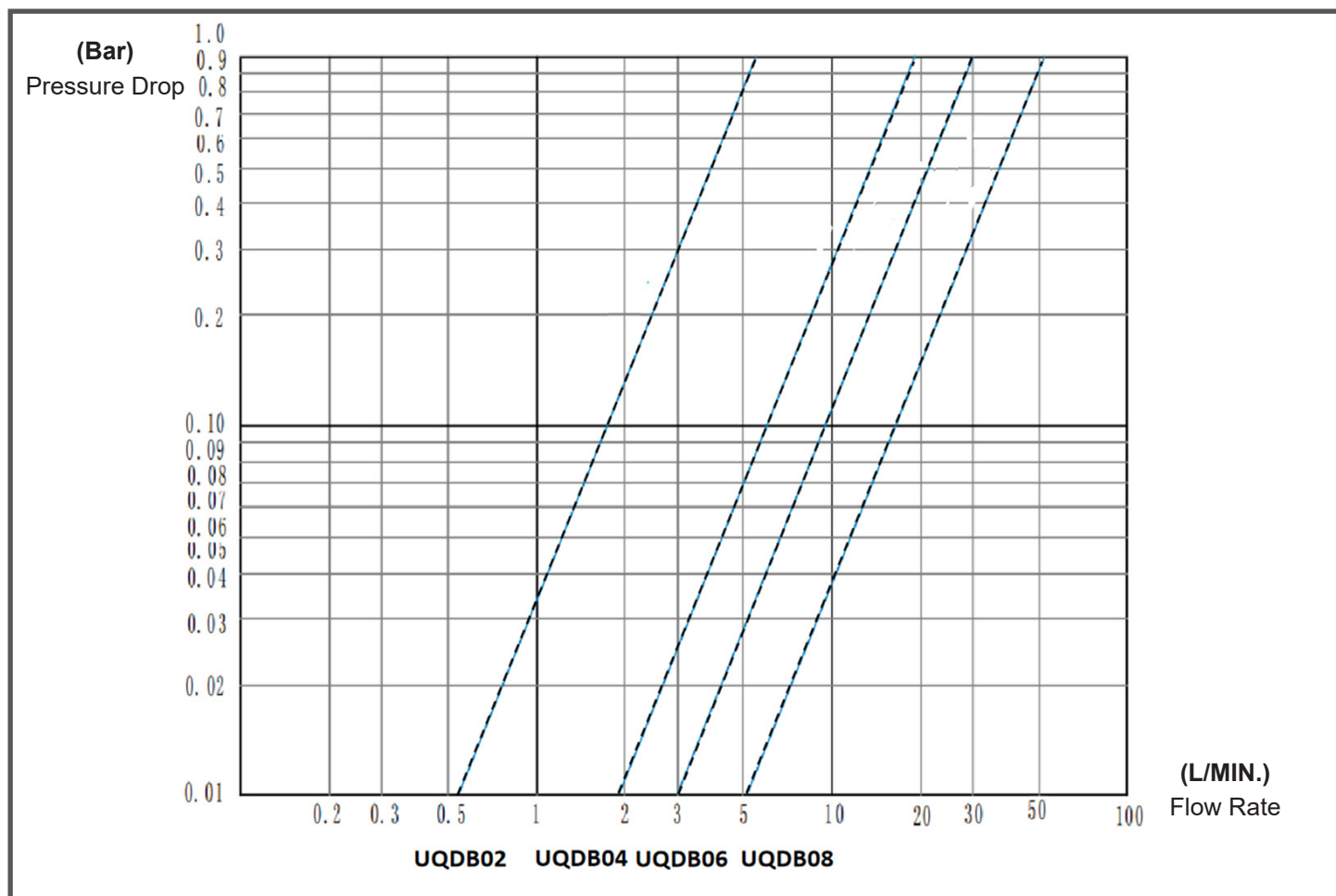


UQDBS-08TMU05-N000

#### Note:

1. UQDB has no color option.
2. For other terminations, please refer to PN list from following page, or contact the Amphenol team.

## Flow Rate Curve: UQDB



Note: Tested by water

## BMQC Product Introduction

The Blind Mate Quick Connector (BMQC) is a liquid cooling fluid connection for data centers developed by the Open Compute Project (OCP) based on Open Rack V3 that can automatically connect and seal without visual assistance. The BMQC series products use advanced blind-mate technology and high-performance sealing materials to ensure the reliability and durability, simplified the installation and improved efficiency, reduced the difficulty of operation and the risk of mis-operation.

### Product Features:

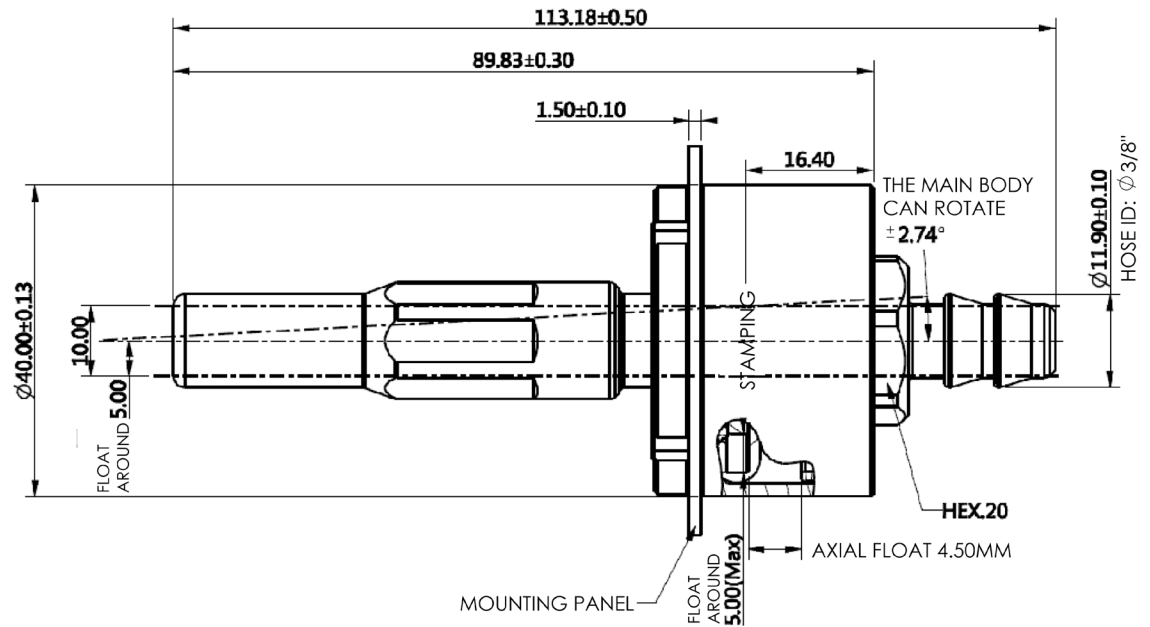
- Self- alignment feature, +/- 5 mm radial and +/- 2.7° angular misalignment tolerance
- Blind-mate design, quick plug-in
- Aerospace-grade sealed for safety and reliability
- Bidirectional shut-off valve & dry-break
- Multiple termination options, such as barb, threads, etc.
- Low flow resistance
- QR code traceability
- Dimensional & performance requirements conform to OCP BMQC specification rev 1.0



### Product SPEC

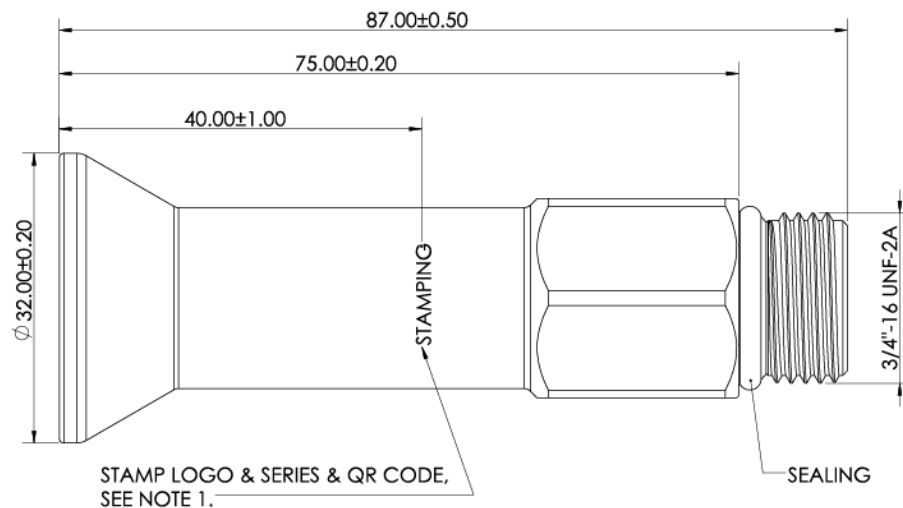
|                           |                                                          |
|---------------------------|----------------------------------------------------------|
| <b>Shell Material</b>     | Stainless Steel                                          |
| <b>Spring (Wetted)</b>    | Corrosion-resistant stainless steel                      |
| <b>Seal</b>               | EPDM, FKM, FMVQ Optional according to the coolant        |
| <b>Working Pressure</b>   | 0~0.35MPa                                                |
| <b>Safe Pressure</b>      | 1.0MPa                                                   |
| <b>Size</b>               | 7mm                                                      |
| <b>Temperature</b>        | -5 °C to 60°C,with fluid<br>-40 °C to 70°C,without fluid |
| <b>Sealing</b>            | Bidirectional dry-break sealed                           |
| <b>Applicable Coolant</b> | Deionized water, Ethylene glycol, Propylene glycol, etc. |
| <b>Cv value</b>           | 1.32                                                     |
| <b>Fluid loss (ml)</b>    | 0.025                                                    |

# BMQC PLUG



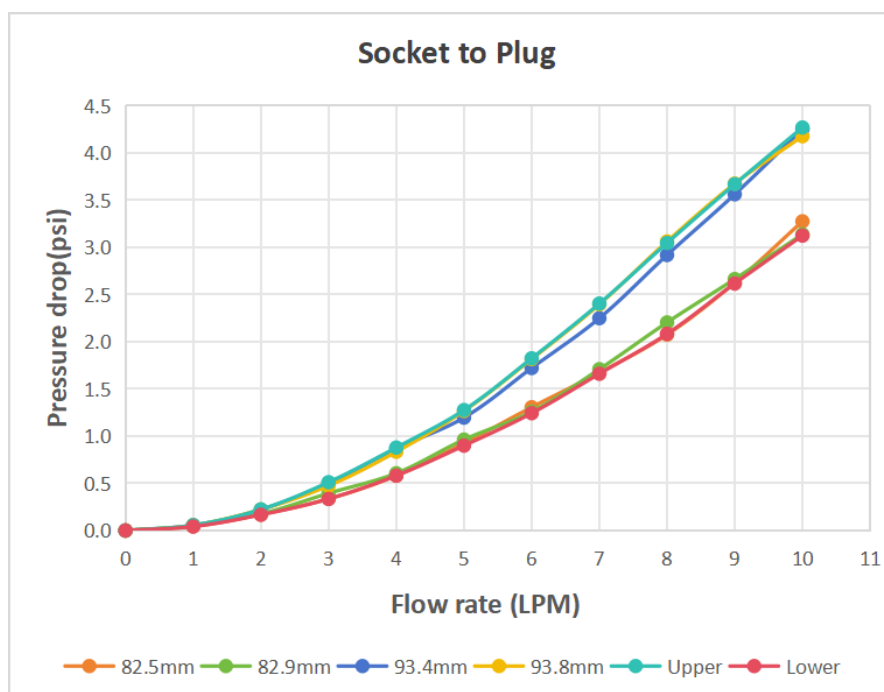
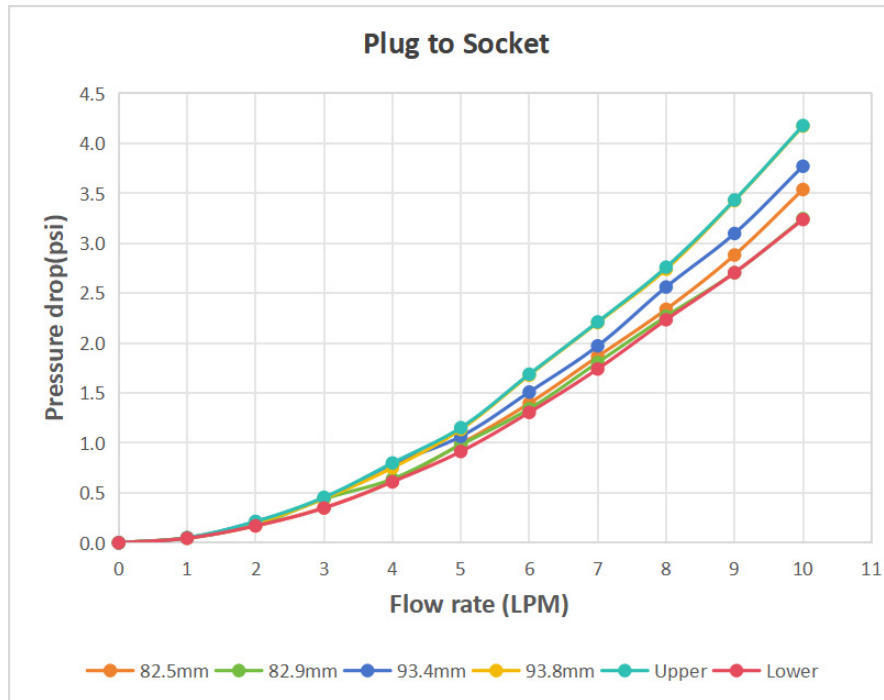
BMQCP-HSH02-N000

# BMQC SOCKET



BMQCS-TMU03-N000

## Flow Rate Curve: BMQC



## UQDB Standard Product PN

| CATALOG P/N        | SIZE   | TYPE   | END-CONNECTION                  |
|--------------------|--------|--------|---------------------------------|
| UQDBP-02TMU01-N000 | UQDB02 | PLUG   | male thread, ORB UNF 7/16"-20   |
| UQDBP-04TMU02-N000 | UQDB04 | PLUG   | male thread, ORB UNF 9/16"-18   |
| UQDBP-06TMU03-N000 | UQDB06 | PLUG   | male thread, ORB UNF 3/4"-16    |
| UQDBP-08TMU04-N000 | UQDB08 | PLUG   | male thread, ORB UNF 7/8"-14    |
| UQDBS-02TMU01-N000 | UQDB02 | SOCKET | male thread, ORB UNF 7/16"-20   |
| UQDBS-02TMU02-N000 | UQDB02 | SOCKET | male thread, ORB UNF 9/16"-18   |
| UQDBS-04TMU03-N000 | UQDB04 | SOCKET | male thread, ORB UNF 3/4"-16    |
| UQDBS-06TMU04-N000 | UQDB06 | SOCKET | male thread, ORB UNF 7/8"-14    |
| UQDBS-08TMU05-N000 | UQDB08 | SOCKET | male thread, ORB UNF 1-1/16"-12 |

## UQD Standard Product PN

| CATALOG P/N<br>BLUE COLOR | SIZE  | TYPE            | END-CONNECTION                | CATALOG P/N<br>RED COLOR |
|---------------------------|-------|-----------------|-------------------------------|--------------------------|
| UQDP-02TMU01-L000         | UQD02 | PLUG            | male thread, ORB UNF 7/16"-20 | UQDP-02TMU01-R000        |
| UQDP-02TMB01-L000         | UQD02 | PLUG            | male thread, BSP 1/8"         | UQDP-02TMB01-R000        |
| UQDP-02TMB02-L000         | UQD02 | PLUG            | male thread, BSP 1/4"         | UQDP-02TMB02-R000        |
| UQDP-02HSH01-L000         | UQD02 | PLUG            | hose barb straight, 1/4" hose | UQDP-02HSH01-R000        |
| UQDS-02TMB01-L000         | UQD02 | SOCKET          | male thread, BSP 1/8"         | UQDS-02TMB01-R000        |
| UQDS-02TMB02-L000         | UQD02 | SOCKET          | male thread, BSP 1/4"         | UQDS-02TMB02-R000        |
| UQDS-02HSH01-L000         | UQD02 | SOCKET          | hose barb straight, 1/4" hose | UQDS-02HSH01-R000        |
| UQDS-02TMU01-L000         | UQD02 | SOCKET          | male thread, ORB UNF 7/16"-20 | UQDS-02TMU01-R000        |
| UQDS-02TFB02-L000         | UQD02 | SOCKET          | female thread, BSP 1/4"       | UQDS-02TFB02-R000        |
| UQDLS-02TMB01-L000        | UQD02 | SOCKET<br>LATCH | male thread, BSP 1/8"         | UQDLS-02TMB01-R000       |
| UQDLS-02TMB02-L000        | UQD02 | SOCKET<br>LATCH | male thread, BSP 1/4"         | UQDLS-02TMB02-R000       |
| UQDLS-02HSH01-L000        | UQD02 | SOCKET<br>LATCH | hose barb straight, 1/4" hose | UQDLS-02HSH01-R000       |
| UQDLS-02TMU01-L000        | UQD02 | SOCKET<br>LATCH | male thread, ORB UNF 7/16"-20 | UQDLS-02TMU01-R000       |
| UQDLS-02TFB02-L000        | UQD02 | SOCKET<br>LATCH | female thread, BSP 1/4"       | UQDLS-02TFB02-R000       |

## UQD Standard Product PN (Cont.)

| CATALOG P/N<br>BLUE COLOR | SIZE  | TYPE            | END-CONNECTION                | CATALOG P/N<br>RED COLOR |
|---------------------------|-------|-----------------|-------------------------------|--------------------------|
| UQDP-04TMU02-L000         | UQD04 | PLUG            | male thread, ORB UNF 9/16"-18 | UQDP-04TMU02-R000        |
| UQDP-04TMB02-L000         | UQD04 | PLUG            | male thread, BSP 1/4"         | UQDP-04TMB02-R000        |
| UQDP-04TMB03-L000         | UQD04 | PLUG            | male thread, BSP 3/8"         | UQDP-04TMB03-R000        |
| UQDP-04HSH02-L000         | UQD04 | PLUG            | hose barb straight, 3/8" hose | UQDP-04HSH02-R000        |
| UQDP-04HSH01-L000         | UQD04 | PLUG            | hose barb straight, 1/4" hose | UQDP-04HSH01-R000        |
| UQDS-04TMU02-L000         | UQD04 | SOCKET          | male thread, ORB UNF 9/16"-18 | UQDS-04TMU02-R000        |
| UQDS-04TMB03-L000         | UQD04 | SOCKET          | male thread, BSP 3/8"         | UQDS-04TMB03-R000        |
| UQDS-04TMB02-L000         | UQD04 | SOCKET          | male thread, BSP 1/4"         | UQDS-04TMB02-R000        |
| UQDS-04HSH02-L000         | UQD04 | SOCKET          | hose barb straight, 3/8" hose | UQDS-04HSH02-R000        |
| UQDS-04HSH01-L000         | UQD04 | SOCKET          | hose barb straight, 1/4" hose | UQDS-04HSH01-R000        |
| UQDS-04HSH03-L000         | UQD04 | SOCKET          | hose barb straight, 1/2" hose | UQDS-04HSH03-R000        |
| UQDLS-04TMU02-L000        | UQD04 | SOCKET<br>LATCH | male thread, ORB UNF 9/16"-18 | UQDLS-04TMU02-R000       |
| UQDLS-04TMB03-L000        | UQD04 | SOCKET<br>LATCH | male thread, BSP 3/8"         | UQDLS-04TMB03-R000       |
| UQDLS-04TMB02-L000        | UQD04 | SOCKET<br>LATCH | male thread, BSP 1/4"         | UQDLS-04TMB02-R000       |
| UQDLS-04HSH02-L000        | UQD04 | SOCKET<br>LATCH | hose barb straight, 3/8" hose | UQDLS-04HSH02-R000       |
| UQDLS-04HSH01-L000        | UQD04 | SOCKET<br>LATCH | hose barb straight, 1/4" hose | UQDLS-04HSH01-R000       |
| UQDLS-04HSH03-L000        | UQD04 | SOCKET<br>LATCH | hose barb straight, 1/2" hose | UQDLS-04HSH03-R000       |

## UQD Standard Product PN (Cont.)

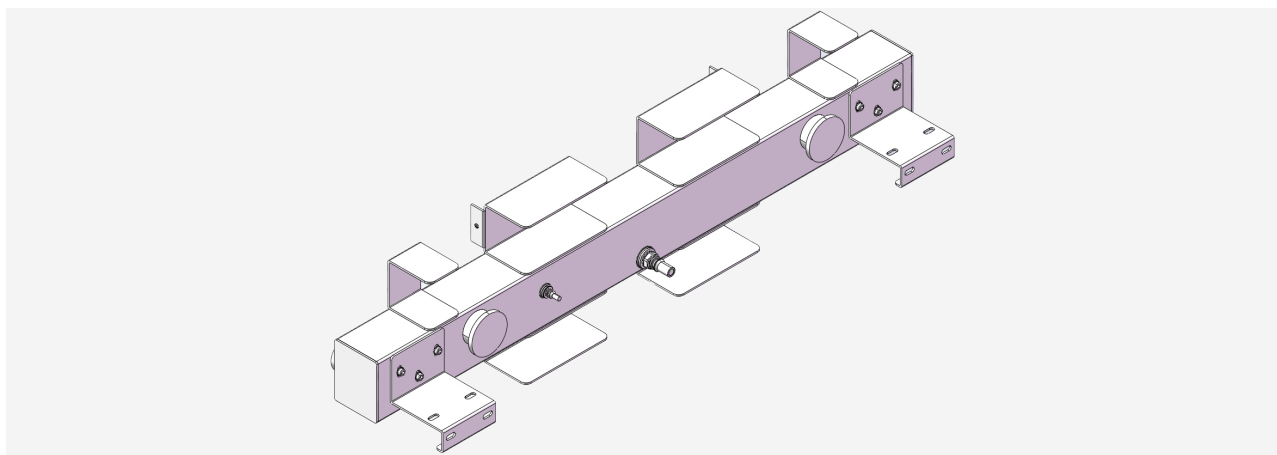
| CATALOG P/N<br>BLUE COLOR | SIZE  | TYPE            | END-CONNECTION                | CATALOG P/N<br>RED COLOR |
|---------------------------|-------|-----------------|-------------------------------|--------------------------|
| UQDP-06TMB03-L000         | UQD06 | PLUG            | male thread, BSP 3/8"         | UQDP-06TMB03-R000        |
| UQDP-06TMB04-L000         | UQD06 | PLUG            | male thread, BSP 1/2"         | UQDP-06TMB04-R000        |
| UQDP-06TMU03-L000         | UQD06 | PLUG            | male thread, ORB UNF 3/4"-16  | UQDP-06TMU03-R000        |
| UQDS-06TMU03-L000         | UQD06 | SOCKET          | male thread, ORB UNF 3/4"-16  | UQDS-06TMU03-R000        |
| UQDS-06TMB02-L000         | UQD06 | SOCKET          | male thread, BSP 1/4"         | UQDS-06TMB02-R000        |
| UQDS-06TMB03-L000         | UQD06 | SOCKET          | male thread, BSP 3/8"         | UQDS-06TMB03-R000        |
| UQDS-06TMB04-L000         | UQD06 | SOCKET          | male thread, BSP 1/2"         | UQDS-06TMB04-R000        |
| UQDS-06HSH03-L000         | UQD06 | SOCKET          | hose barb straight, 1/2" hose | UQDS-06HSH03-R000        |
| UQDLS-06TMU03-L000        | UQD06 | SOCKET<br>LATCH | male thread, ORB UNF 3/4"-16  | UQDLS-06TMU03-R000       |
| UQDLS-06TMB02-L000        | UQD06 | SOCKET<br>LATCH | male thread, BSP 1/4"         | UQDLS-06TMB02-R000       |
| UQDLS-06TMB03-L000        | UQD06 | SOCKET<br>LATCH | male thread, BSP 3/8"         | UQDLS-06TMB03-R000       |
| UQDLS-06TMB04-L000        | UQD06 | SOCKET<br>LATCH | male thread, BSP 1/2"         | UQDLS-06TMB04-R000       |
| UQDLS-06HSH03-L000        | UQD06 | SOCKET<br>LATCH | hose barb straight, 1/2" hose | UQDLS-06HSH03-R000       |

| CATALOG P/N<br>BLUE COLOR | SIZE  | TYPE            | END-CONNECTION                | CATALOG P/N<br>RED COLOR |
|---------------------------|-------|-----------------|-------------------------------|--------------------------|
| UQDP-08TMB04-L000         | UQD08 | PLUG            | male thread, BSP 1/2"         | UQDP-08TMB04-R000        |
| UQDP-08TMU04-L000         | UQD08 | PLUG            | male thread, ORB UNF 7/8"-14  | UQDP-08TMU04-R000        |
| UQDS-08HSH04-L000         | UQD08 | SOCKET          | hose barb straight, 5/8" hose | UQDS-08HSH04-R000        |
| UQDS-08TMU04-L000         | UQD08 | SOCKET          | male thread, ORB UNF 7/8"-14  | UQDS-08TMU04-R000        |
| UQDLS-08HSH04-L000        | UQD08 | SOCKET<br>LATCH | hose barb straight, 5/8" hose | UQDLS-08HSH04-R000       |
| UQDLS-08TMU04-L000        | UQD08 | SOCKET<br>LATCH | male thread, ORB UNF 7/8"-14  | UQDLS-08TMU04-R000       |

| CATALOG P/N      | SIZE | TYPE   | End-Connection                             |
|------------------|------|--------|--------------------------------------------|
| BMQCP-HSH02-N000 | 7mm  | PLUG   | BMQC, PLUG, hose barb straight, 3/8" hose  |
| BMQCS-TMU03-N000 | 7mm  | SOCKET | BMQC, SOCKET, male thread, ORB UNF 3/4"-16 |

## Additional QD Product Information

# Connect with an Amphenol Liquid Cooling Expert on Manifold Solutions



**Manifold Series**

## LQC Product Introduction

The Large Quick Connector (LQC), developed under the Open Compute Project (OCP) framework, has set a new international specification for quick-connect couplings in the data center industry. Key features such as its screw-to-connect locking mechanism, the ability to connect effortlessly under working pressures of up to 1 MPa, and a double redundant O-ring seal for enhanced leak protection make this coupling particularly suited for Coolant Distribution Units (CDUs) in data centers.

### Product Features:

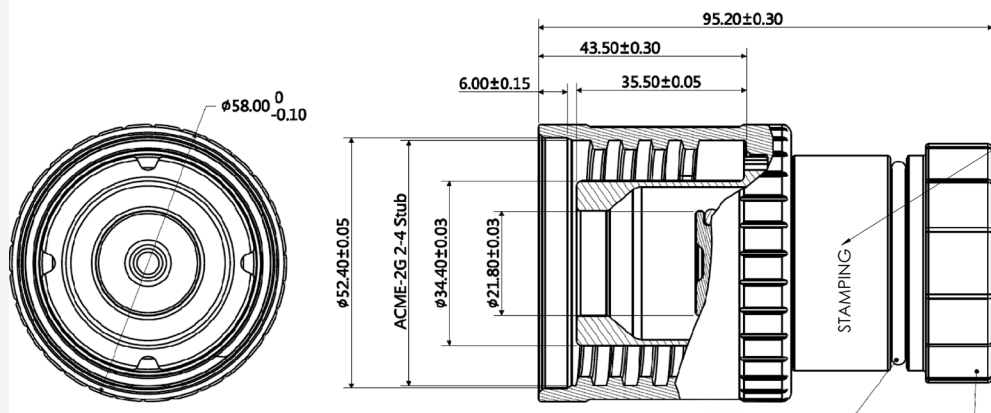
- Aerospace-grade sealed for safety and reliability
- Thread-to-connect quick disconnect for inlets & manifold
- Bidirectional shut-off valve & dry-break
- Low flow resistance
- QR code traceability
- Dimensional & performance requirements conform to OCP LQC specification rev 1.0
- Used in Open Rack V3 Blind Mate Manifold, CDU application



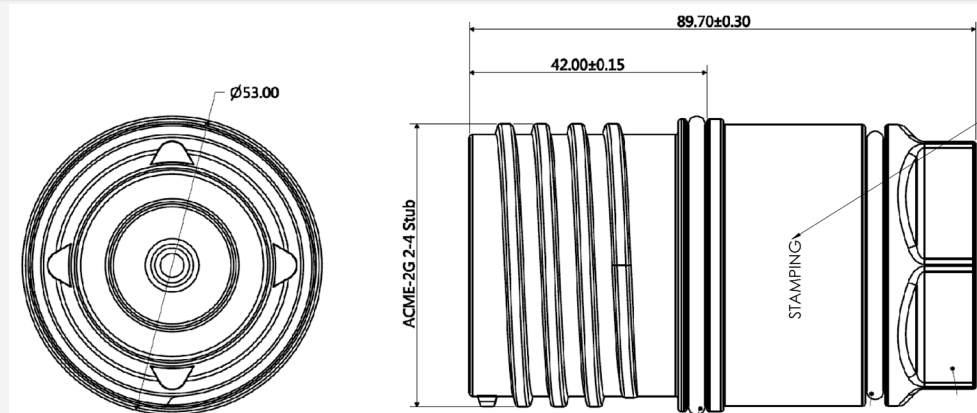
### Product SPEC

|                                              |                                                          |
|----------------------------------------------|----------------------------------------------------------|
| <b>Shell Material</b>                        | Stainless Steel                                          |
| <b>Spring/Interlock Pin/Latch/Ball Valve</b> | Corrosion-resistant stainless steel                      |
| <b>Seal Material</b>                         | EPDM, Optional FKM, FMVQ according to the coolant        |
| <b>Rated Flow Rate</b>                       | Refer to flow rate curve                                 |
| <b>Working Pressure</b>                      | 0~1MPa                                                   |
| <b>Safe Pressure</b>                         | 2MPa                                                     |
| <b>Size</b>                                  | 20mm                                                     |
| <b>Fluid Loss (cc.)</b>                      | <0.005(@0.3MPa)                                          |
| <b>Temperature</b>                           | Operating Temperature: -40 °C to 105°C                   |
| <b>Sealing</b>                               | Bidirectional dry-break sealed                           |
| <b>Applicable Coolant</b>                    | Deionized water, Ethylene glycol, Propylene glycol, etc. |
| <b>Termination Type</b>                      | G1 "(BSPP1)<br>(customized design upon request)          |

## LQC Dimensions

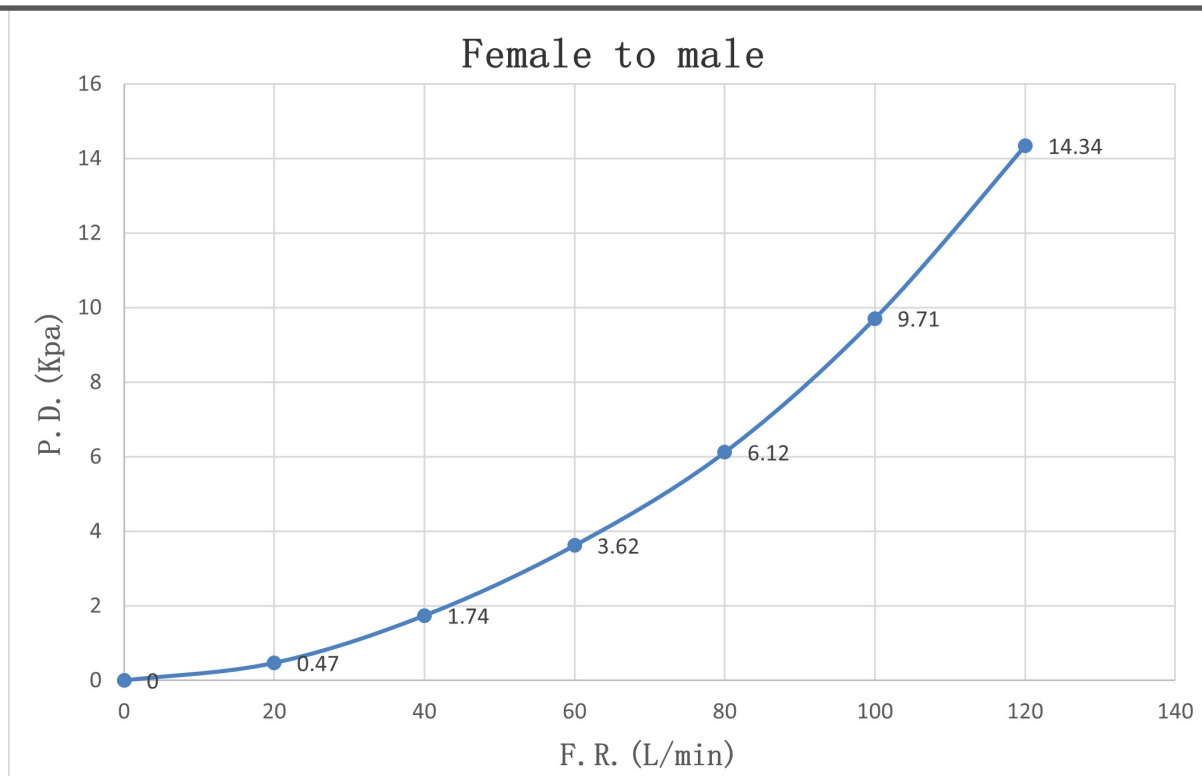
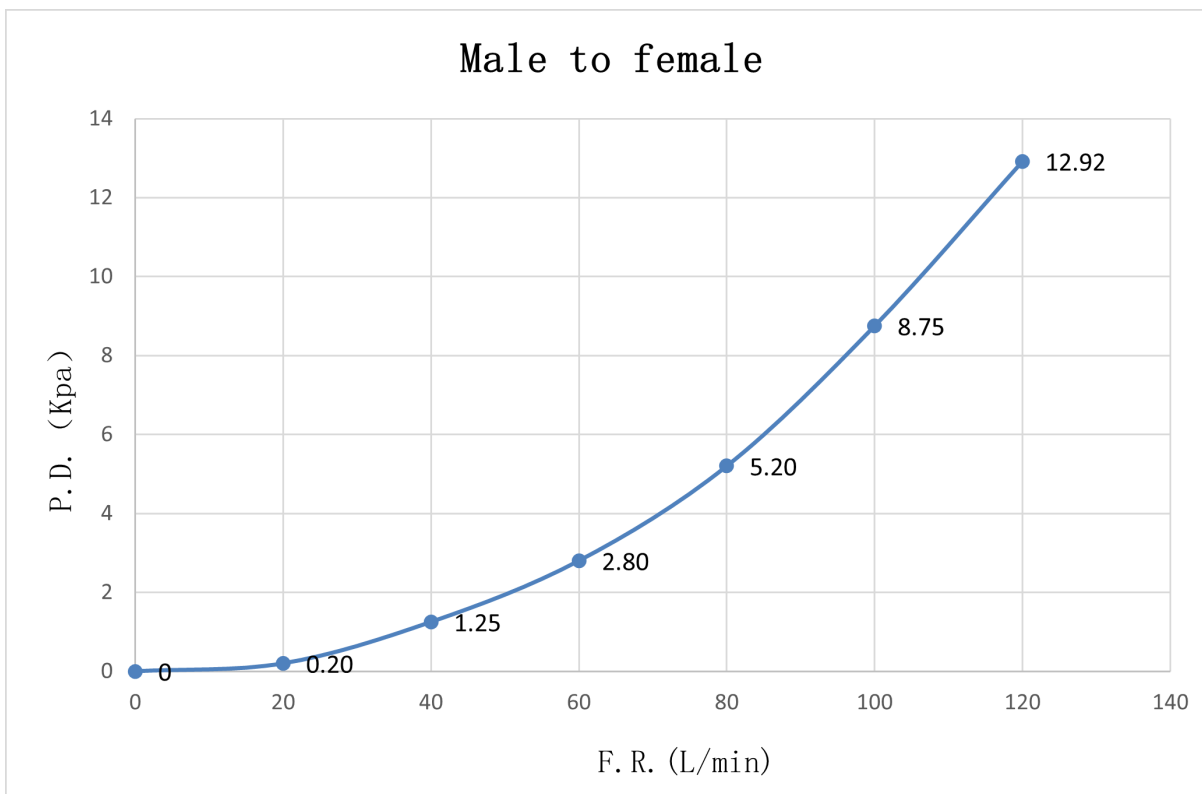
LQC  
PLUG

LQCP-20TFB20-L000 &amp; LQCP-20TFB20-R000

LQC  
SOCKET

LQCS-20TFB20-L000 &amp; LQCS-20TFB20-R000

## Flow Rate Curve: LQC



## MQD Product Introduction

The Mini Quick Disconnect (MQD), developed under the trend of compact computer tray with smaller DIA requirements. Features such as its compact design with push-pull locking mechanism, the MQD is not just a simple connector; it is a high-performance, reliable, and user-friendly solution that is fundamental to enabling the next generation of liquid-cooled AI data centers, ensuring that powerful computing infrastructure remains cool, efficient, and operational.

## Product Features

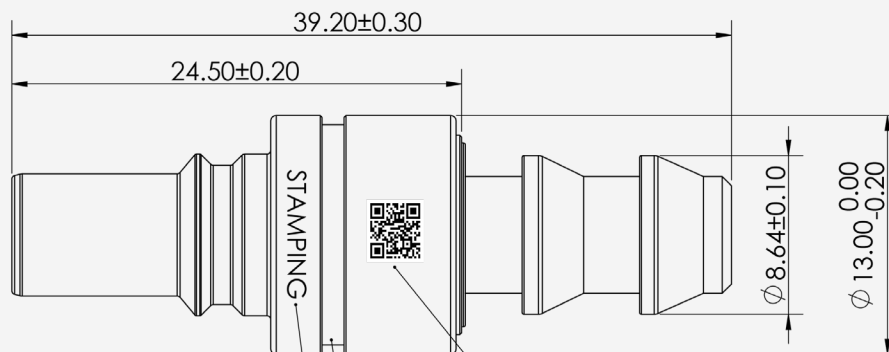
- Aerospace-grade sealed for safety and reliability
- Size02 with straight version, size03 with RA right angle version
- Push-pull quick disconnect
- Bidirectional shut-off valve & dry-break
- Low flow resistance
- QR code traceability
- Benefits for compact computer tray application



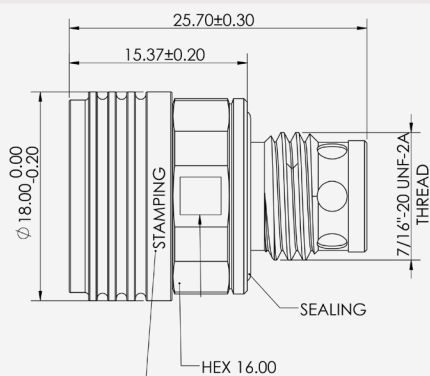
## Product SPEC

|                                              |                                                                           |
|----------------------------------------------|---------------------------------------------------------------------------|
| <b>Shell Material</b>                        | Stainless Steel                                                           |
| <b>Spring/Interlock Pin/Latch/Ball Valve</b> | Corrosion-resistant stainless steel                                       |
| <b>Seal Material</b>                         | EPDM, Optional FKM, FMVQ according to the coolant                         |
| <b>Rated Flow Rate</b>                       | Refer to flow rate curve                                                  |
| <b>Working Pressure</b>                      | 0~1MPa                                                                    |
| <b>Safe Pressure</b>                         | 2MPa                                                                      |
| <b>Size</b>                                  | 02straight & 03 RA(Right Angle)                                           |
| <b>Fluid Loss (cc.)</b>                      | <0.003(@0.3MPa)                                                           |
| <b>Temperature</b>                           | Operating Temperature: -40 °C to 105°C                                    |
| <b>Sealing</b>                               | Bidirectional dry-break sealed                                            |
| <b>Applicable Coolant</b>                    | Deionized water, Ethylene glycol, Propylene glycol, etc.                  |
| <b>Termination Type</b>                      | Hose barb & thread termination available (customized design upon request) |
| <b>Mating force (N) at 0 pressure</b>        | 50N                                                                       |

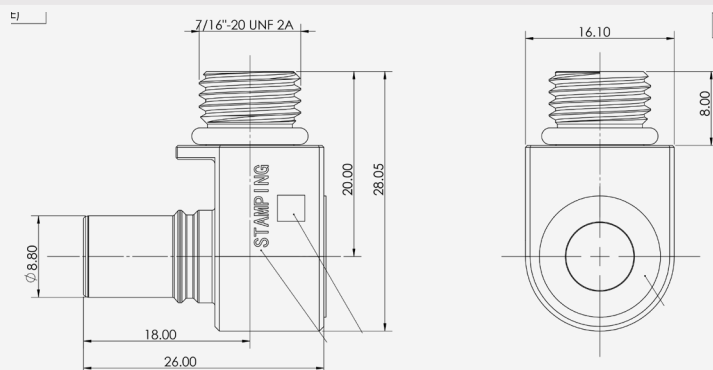
## MQD Dimensions

MQD02  
PLUG

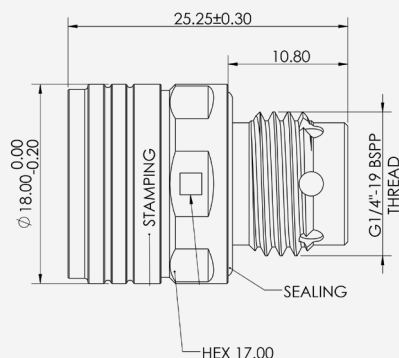
MQDP-02HSH06-L000 &amp; MQDP-02HSH06-R000

MQD02  
SOCKET

MQDS-02TMU01-L000 &amp; MQDS-02TMU01-R000

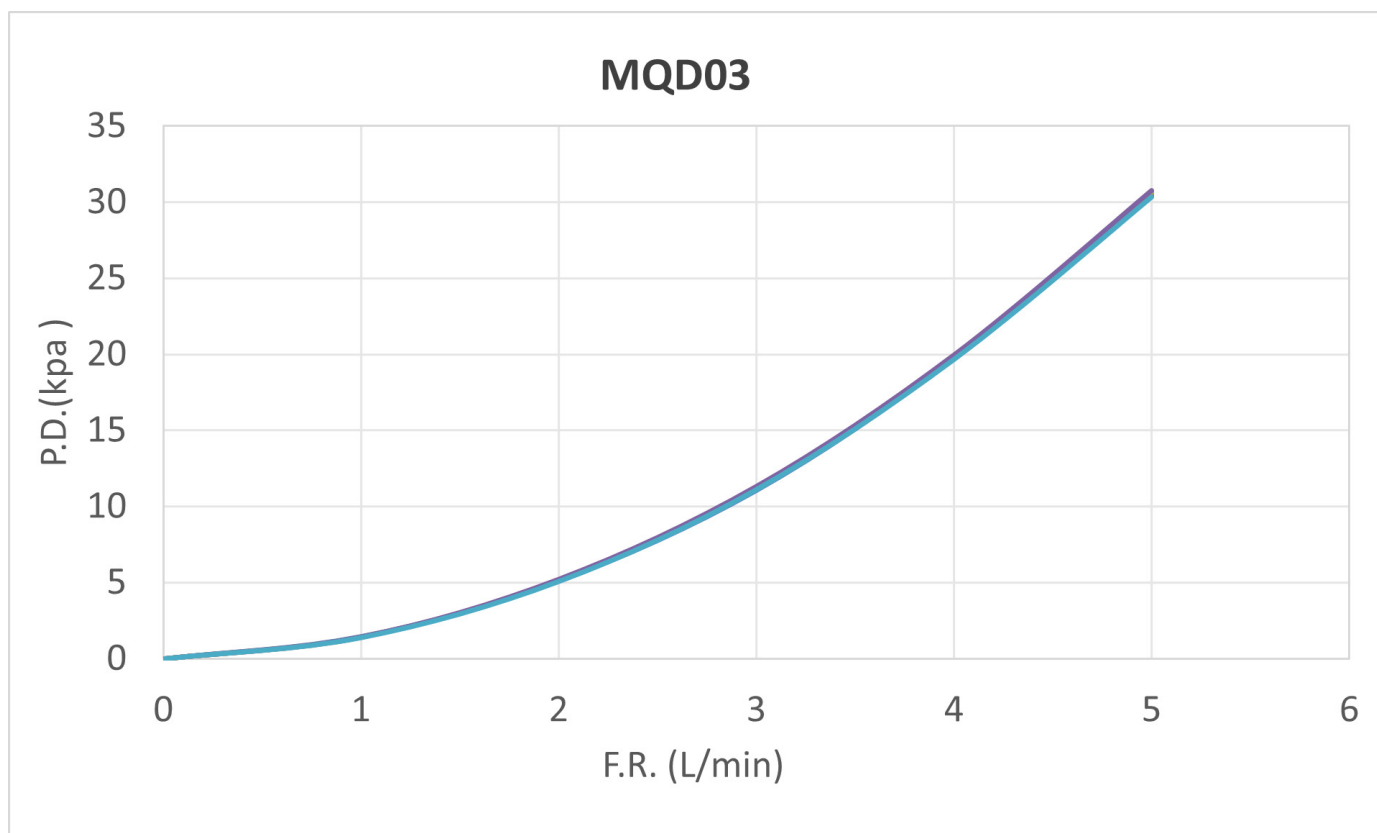
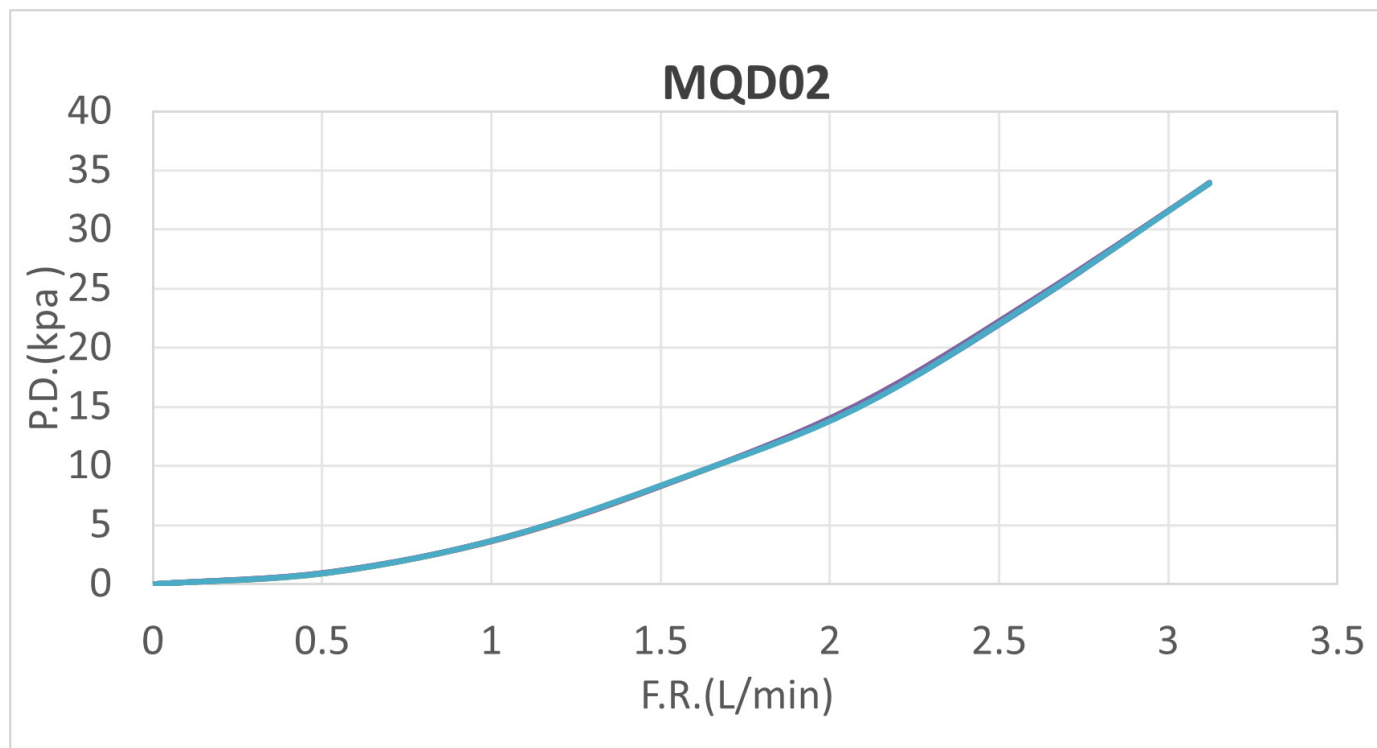
MQD03  
PLUG

MQDP-03TMVU01-L000 &amp; MQDP-03TMVU01-R000

MQD03  
SOCKET

MQDS-03TMB02-L000 &amp; MQDS-03TMB02-R000

## Flow Rate Curve (MQD)



## UQDB Standard Product PN

| CATALOG P/N        | SIZE   | TYPE   | END-CONNECTION                 |
|--------------------|--------|--------|--------------------------------|
| UQDBP-02TMU01-N000 | UQDB02 | PLUG   | male thread, ORB UNF7/16"-20   |
| UQDBP-04TMU02-N000 | UQDB04 | PLUG   | male thread, ORB UNF9/16"-18   |
| UQDBP-06TMU03-N000 | UQDB06 | PLUG   | male thread, ORB UNF3/4"-16    |
| UQDBP-08TMU04-N000 | UQDB08 | PLUG   | male thread, ORB UNF7/8"-14    |
| UQDBS-02TMU01-N000 | UQDB02 | SOCKET | male thread, ORB UNF7/16"-20   |
| UQDBS-02TMU02-N000 | UQDB02 | SOCKET | male thread, ORB UNF9/16"-18   |
| UQDBS-04TMU03-N000 | UQDB04 | SOCKET | male thread, ORB UNF3/4"-16    |
| UQDBS-06TMU04-N000 | UQDB06 | SOCKET | male thread, ORB UNF7/8"-14    |
| UQDBS-08TMU05-N000 | UQDB08 | SOCKET | male thread, ORB UNF1-1/16"-12 |

## UQD Standard Product PN

| CATALOG P/N<br>BLUE COLOR | SIZE  | TYPE            | END-CONNECTION                | CATALOG P/N<br>RED COLOR |
|---------------------------|-------|-----------------|-------------------------------|--------------------------|
| UQDP-02TMU01-L000         | UQD02 | PLUG            | male thread, ORB UNF7/16"-20  | UQDP-02TMU01-R000        |
| UQDP-02TMB01-L000         | UQD02 | PLUG            | male thread, BSP1/8"          | UQDP-02TMB01-R000        |
| UQDP-02TMB02-L000         | UQD02 | PLUG            | male thread, BSP1/4"          | UQDP-02TMB02-R000        |
| UQDP-02HSH01-L000         | UQD02 | PLUG            | hose barb straight, 1/4" hose | UQDP-02HSH01-R000        |
| UQDS-02TMB01-L000         | UQD02 | SOCKET          | male thread, BSP1/8"          | UQDS-02TMB01-R000        |
| UQDS-02TMB02-L000         | UQD02 | SOCKET          | male thread, BSP1/4"          | UQDS-02TMB02-R000        |
| UQDS-02HSH01-L000         | UQD02 | SOCKET          | hose barb straight, 1/4" hose | UQDS-02HSH01-R000        |
| UQDS-02TMU01-L000         | UQD02 | SOCKET          | male thread, ORB UNF7/16"-20  | UQDS-02TMU01-R000        |
| UQDS-02TFB02-L000         | UQD02 | SOCKET          | female thread, BSP1/4"        | UQDS-02TFB02-R000        |
| UQDLS-02TMB01-L000        | UQD02 | SOCKET<br>LATCH | male thread, BSP1/8"          | UQDLS-02TMB01-R000       |
| UQDLS-02TMB02-L000        | UQD02 | SOCKET<br>LATCH | male thread, BSP1/4"          | UQDLS-02TMB02-R000       |
| UQDLS-02HSH01-L000        | UQD02 | SOCKET<br>LATCH | hose barb straight, 1/4" hose | UQDLS-02HSH01-R000       |
| UQDLS-02TMU01-L000        | UQD02 | SOCKET<br>LATCH | male thread, ORB UNF7/16"-20  | UQDLS-02TMU01-R000       |
| UQDLS-02TFB02-L000        | UQD02 | SOCKET<br>LATCH | female thread, BSP1/4"        | UQDLS-02TFB02-R000       |
| UQDP-04TMU02-L000         | UQD04 | PLUG            | male thread, ORB UNF9/16"-18  | UQDP-04TMU02-R000        |
| UQDP-04TMB02-L000         | UQD04 | PLUG            | male thread, BSP1/4"          | UQDP-04TMB02-R000        |
| UQDP-04TMB03-L000         | UQD04 | PLUG            | male thread, BSP3/8"          | UQDP-04TMB03-R000        |
| UQDP-04HSH02-L000         | UQD04 | PLUG            | hose barb straight, 3/8" hose | UQDP-04HSH02-R000        |
| UQDP-04HSH01-L000         | UQD04 | PLUG            | hose barb straight, 1/4" hose | UQDP-04HSH01-R000        |
| UQDS-04TMU02-L000         | UQD04 | SOCKET          | male thread, ORB UNF9/16"-18  | UQDS-04TMU02-R000        |

|                    |       |                 |                             |                    |
|--------------------|-------|-----------------|-----------------------------|--------------------|
| UQDS-04TMB03-L000  | UQD04 | SOCKET          | male thread,BSP3/8"         | UQDS-04TMB03-R000  |
| UQDS-04TMB02-L000  | UQD04 | SOCKET          | male thread,BSP1/4"         | UQDS-04TMB02-R000  |
| UQDS-04HSH02-L000  | UQD04 | SOCKET          | hose barb straight,3/8"hose | UQDS-04HSH02-R000  |
| UQDS-04HSH01-L000  | UQD04 | SOCKET          | hose barb straight,1/4"hose | UQDS-04HSH01-R000  |
| UQDS-04HSH03-L000  | UQD04 | SOCKET          | hose barb straight,1/2"hose | UQDS-04HSH03-R000  |
| UQDLS-04TMU02-L000 | UQD04 | SOCKET<br>LATCH | male thread,ORB UNF9/16"-18 | UQDLS-04TMU02-R000 |
| UQDLS-04TMB03-L000 | UQD04 | SOCKET<br>LATCH | male thread,BSP3/8"         | UQDLS-04TMB03-R000 |
| UQDLS-04TMB02-L000 | UQD04 | SOCKET<br>LATCH | male thread,BSP1/4"         | UQDLS-04TMB02-R000 |
| UQDLS-04HSH02-L000 | UQD04 | SOCKET<br>LATCH | hose barb straight,3/8"hose | UQDLS-04HSH02-R000 |
| UQDLS-04HSH01-L000 | UQD04 | SOCKET<br>LATCH | hose barb straight,1/4"hose | UQDLS-04HSH01-R000 |
| UQDLS-04HSH03-L000 | UQD04 | SOCKET<br>LATCH | hose barb straight,1/2"hose | UQDLS-04HSH03-R000 |
| UQDP-06TMB03-L000  | UQD06 | PLUG            | male thread,BSP3/8"         | UQDP-06TMB03-R000  |
| UQDP-06TMB04-L000  | UQD06 | PLUG            | male thread,BSP1/2"         | UQDP-06TMB04-R000  |
| UQDP-06TMU03-L000  | UQD06 | PLUG            | male thread,ORB UNF3/4"-16  | UQDP-06TMU03-R000  |
| UQDS-06TMU03-L000  | UQD06 | SOCKET          | male thread,ORB UNF3/4"-16  | UQDS-06TMU03-R000  |
| UQDS-06TMB02-L000  | UQD06 | SOCKET          | male thread,BSP1/4"         | UQDS-06TMB02-R000  |
| UQDS-06TMB03-L000  | UQD06 | SOCKET          | male thread,BSP3/8"         | UQDS-06TMB03-R000  |
| UQDS-06TMB04-L000  | UQD06 | SOCKET          | male thread,BSP1/2"         | UQDS-06TMB04-R000  |
| UQDS-06HSH03-L000  | UQD06 | SOCKET          | hose barb straight,1/2"hose | UQDS-06HSH03-R000  |
| UQDLS-06TMU03-L000 | UQD06 | SOCKET<br>LATCH | male thread,ORB UNF3/4"-16  | UQDLS-06TMU03-R000 |
| UQDLS-06TMB02-L000 | UQD06 | SOCKET<br>LATCH | male thread,BSP1/4"         | UQDLS-06TMB02-R000 |
| UQDLS-06TMB03-L000 | UQD06 | SOCKET<br>LATCH | male thread,BSP3/8"         | UQDLS-06TMB03-R000 |
| UQDLS-06TMB04-L000 | UQD06 | SOCKET<br>LATCH | male thread,BSP1/2"         | UQDLS-06TMB04-R000 |
| UQDLS-06HSH03-L000 | UQD06 | SOCKET<br>LATCH | hose barb straight,1/2"hose | UQDLS-06HSH03-R000 |
| UQDP-08TMB04-L000  | UQD08 | PLUG            | male thread,BSP1/2"         | UQDP-08TMB04-R000  |
| UQDP-08TMU04-L000  | UQD08 | PLUG            | male thread,ORB UNF7/8"-14  | UQDP-08TMU04-R000  |
| UQDS-08HSH04-L000  | UQD08 | SOCKET          | hose barb straight,5/8"hose | UQDS-08HSH04-R000  |
| UQDS-08TMU04-L000  | UQD08 | SOCKET          | male thread,ORB UNF7/8"-14  | UQDS-08TMU04-R000  |
| UQDLS-08HSH04-L000 | UQD08 | SOCKET<br>LATCH | hose barb straight,5/8"hose | UQDLS-08HSH04-R000 |
| UQDLS-08TMU04-L000 | UQD08 | SOCKET<br>LATCH | male thread,ORB UNF7/8"-14  | UQDLS-08TMU04-R000 |

## BMQC Standard Product PN

| CATALOG P/N      | SIZE | TYPE   | End-Connection                         |
|------------------|------|--------|----------------------------------------|
| BMQCP-HSH02-N000 | 7mm  | PLUG   | BMQC,PLUG,hose barb straight,3/8" hose |
| BMQCS-TMU03-N000 | 7mm  | SOCKET | BMQC,SOCKET,male thread,ORB UNF3/4"-16 |

## LQC Standard Product PN

| CATALOG P/N       | SIZE | TYPE   | End-Connection                       |
|-------------------|------|--------|--------------------------------------|
| LQCS-20TFB20-L000 | 20mm | SOCKET | LQC20,SOCKET,thread female G1-B,BLUE |
| LQCS-20TFB20-R000 | 20mm | SOCKET | LQC20,SOCKET,thread female G1-B,RED  |
| LQCP-20TFB20-L000 | 20mm | PLUG   | LQC20,PLUG,thread female G1-B,BLUE   |
| LQCP-20TFB20-R000 | 20mm | PLUG   | LQC20,PLUG,thread female G1-B,RED    |

## MQD Standard Product PN

| CATALOG P/N        | SIZE | TYPE   | End-Connection                   |
|--------------------|------|--------|----------------------------------|
| MQDP-02HSH06-L000  | 02   | PLUG   | MQD02 PLUG HS OD 8.64mm,BU       |
| MQDP-02HSH06-R000  | 02   | PLUG   | MQD02 PLUG HS OD 8.64mm,RD       |
| MQDS-02TMU01-L000  | 02   | SOCKET | MQD02 SKT TM UNF7/16"-20,BU      |
| MQDS-02TMU01-R000  | 02   | SOCKET | MQD02 SKT TM UNF7/16"-20,RD      |
| MQDP-03TMVU01-L000 | 03   | PLUG   | MQD03 PLUG 90° TM UNF7/16"-20,BU |
| MQDP-03TMVU01-R000 | 03   | PLUG   | MQD03 PLUG 90° TM UNF7/16"-20,RD |
| MQDS-03TMB02-L000  | 03   | SOCKET | MQD03 SKT TM BSPP1/4",BU         |
| MQDS-03TMB02-R000  | 03   | SOCKET | MQD03 SKT TM BSPP1/4",RD         |



**AMPHENOL CORPORATION**  
**Amphenol Industrial Operations**

Phone: 888-364-9011  
20 Valley Street  
Endicott, NY 13760-3600  
[www.amphenol-industrial.com](http://www.amphenol-industrial.com)

**Amphenol Technology(Zhuhai) Co., Ltd.**

No.63, Xinghan Road, Sanzao Town,  
Jinwan, Zhuhai, 519040  
China Tel: +86-756-398 9725  
Fax: +86-756-398 9768  
[www.amphenol-industrial.com](http://www.amphenol-industrial.com)  
Email: [tech@amphenol-aio.com](mailto:tech@amphenol-aio.com)