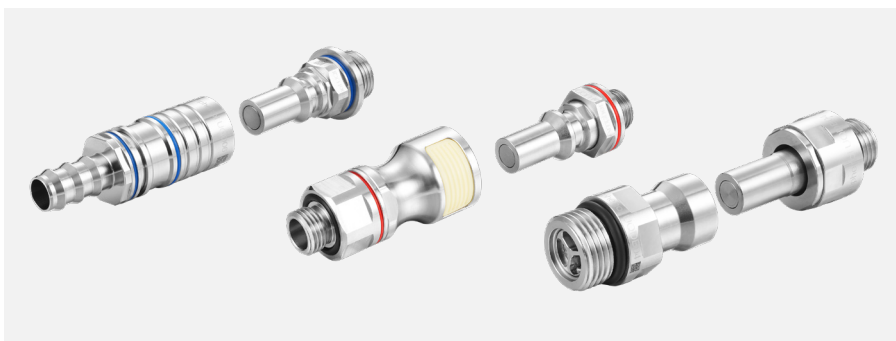
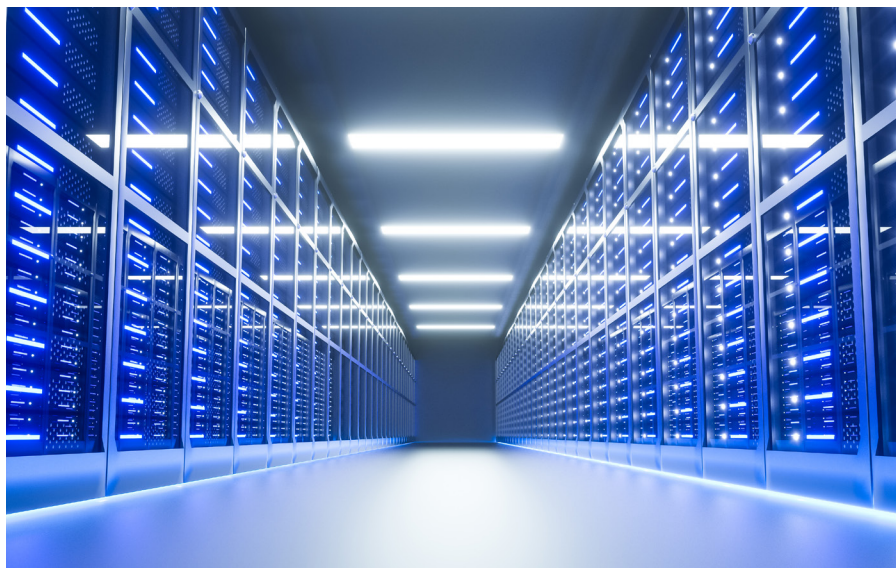


Amphenol®



Liquid Cooling Systems
Reliable Quick Disconnect Connectors

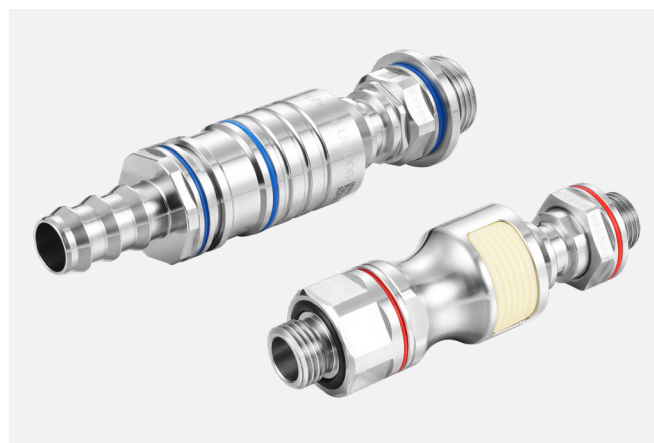
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UQD Product Introduction

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

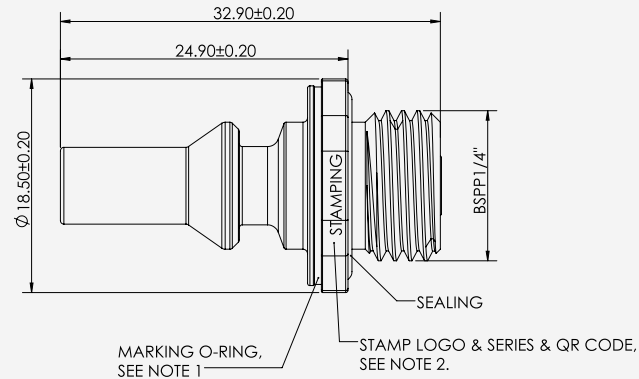


Product SPEC

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

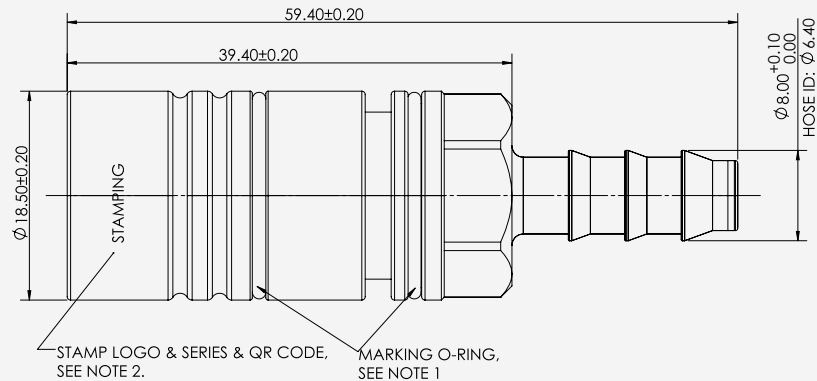
UQD02 Dimensions

UQD02 PLUG



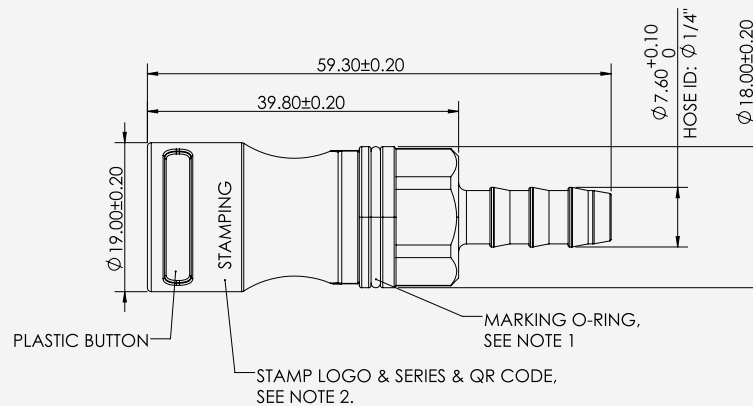
UQDP-02TMB02-L000

UQD02 SOCKET



UQDS-02HSH05-L000

UQD02 SOCKET LATCH



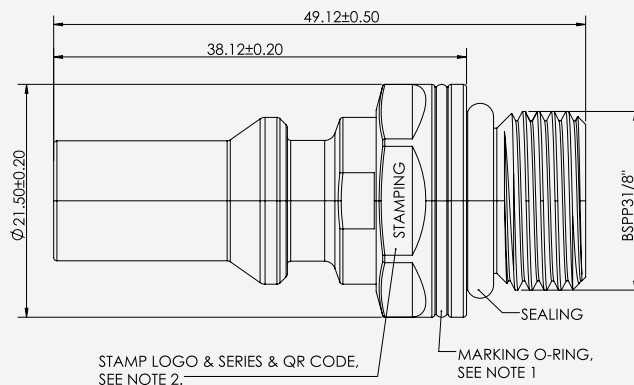
UQDLS-02HSH01-L000

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.

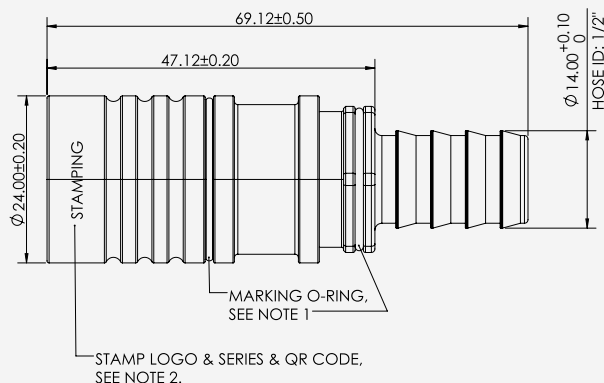
UQD04 Dimensions

UQD04 PLUG



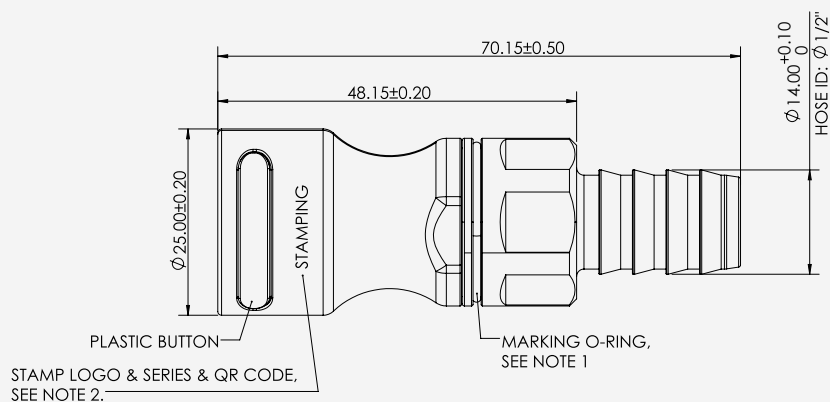
UQDP-04TMB03-L000

UQD04 SOCKET



UQDS-04HSH03-L000

UQD04 SOCKET LATCH



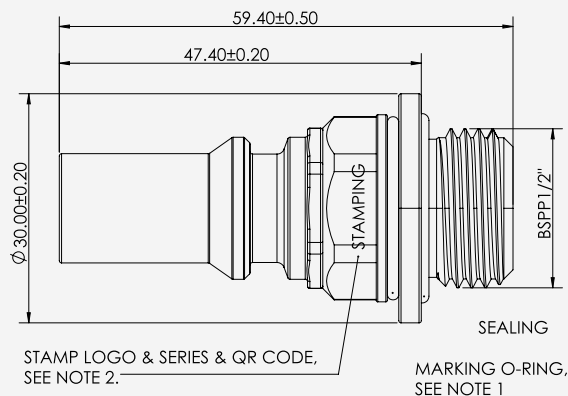
UQDLS-04HSH03-L000

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.

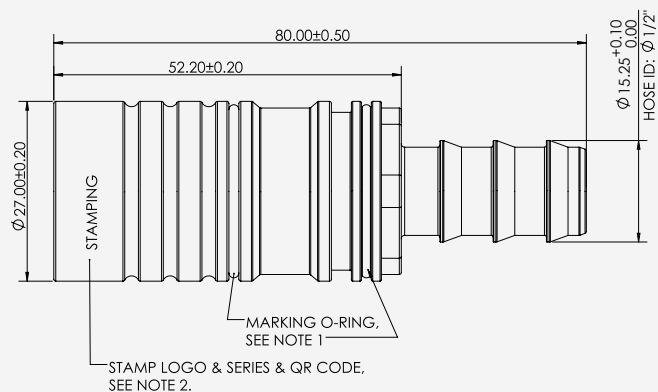
UQD06 Dimensions

UQD06 PLUG



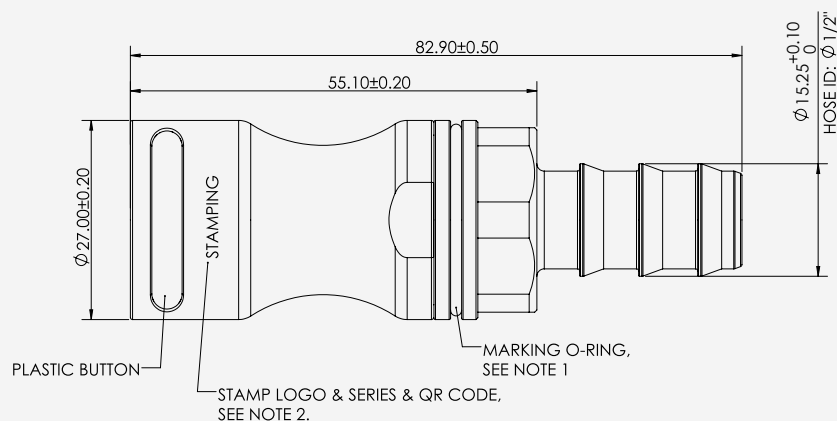
UQDP-06TMB04-L000

UQD06 SOCKET



UQDS-06HSH03-L000

UQD06 SOCKET LATCH



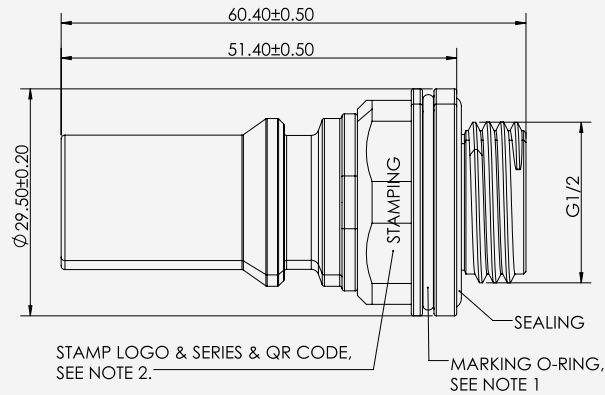
UQDLS-06HSH03-L000

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.

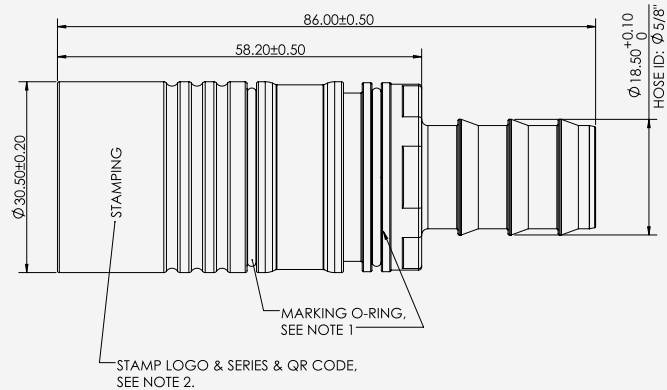
UQD08 Dimensions

UQD08 PLUG



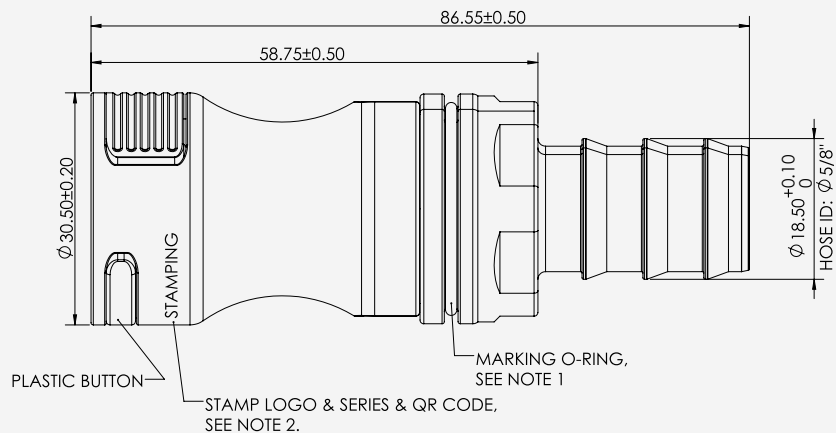
UQDP-08TMB04-L000

UQD08 SOCKET



UQDS-08HSH04-L000

UQD08 SOCKET LATCH

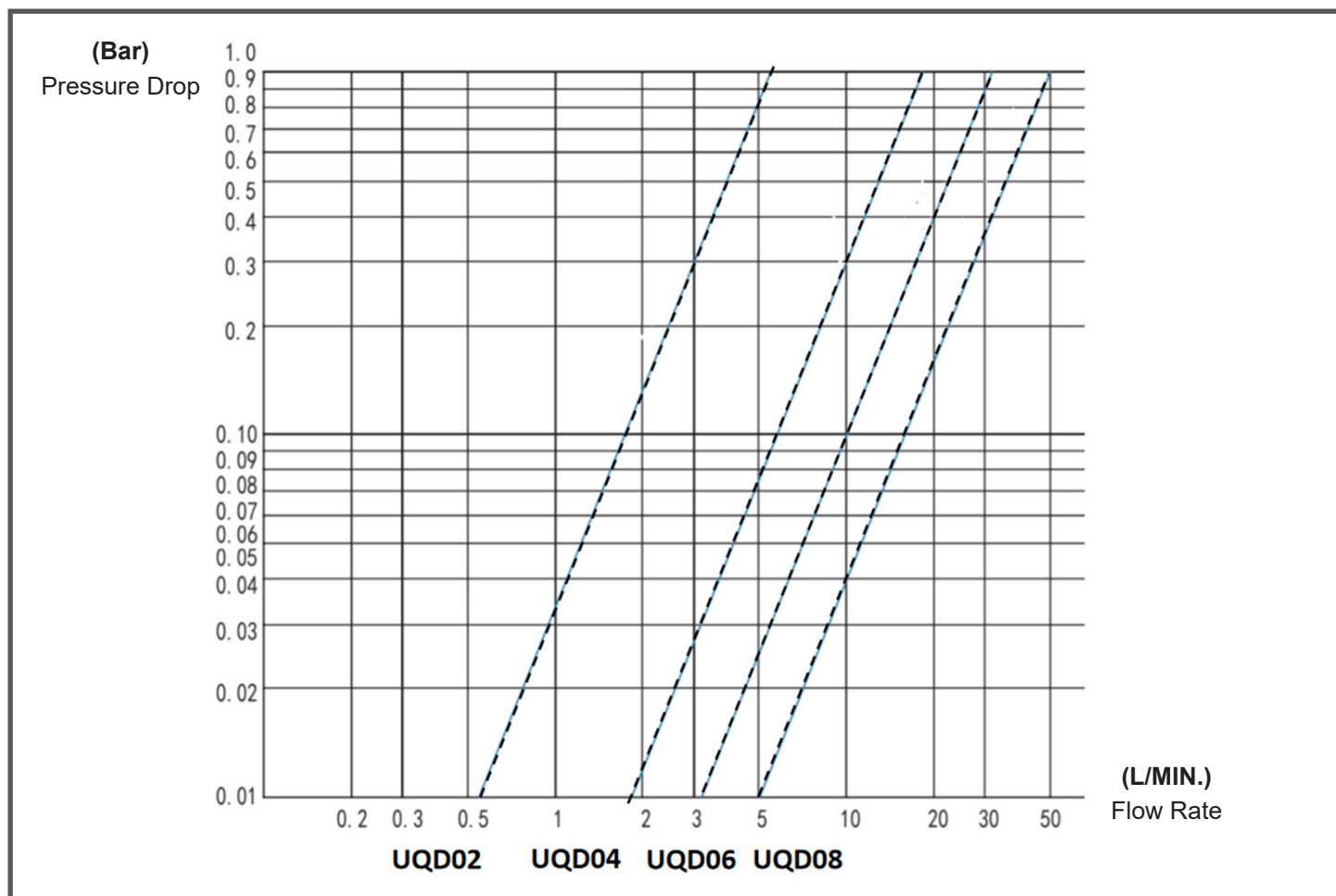


UQDLS-08HSH04-L000

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

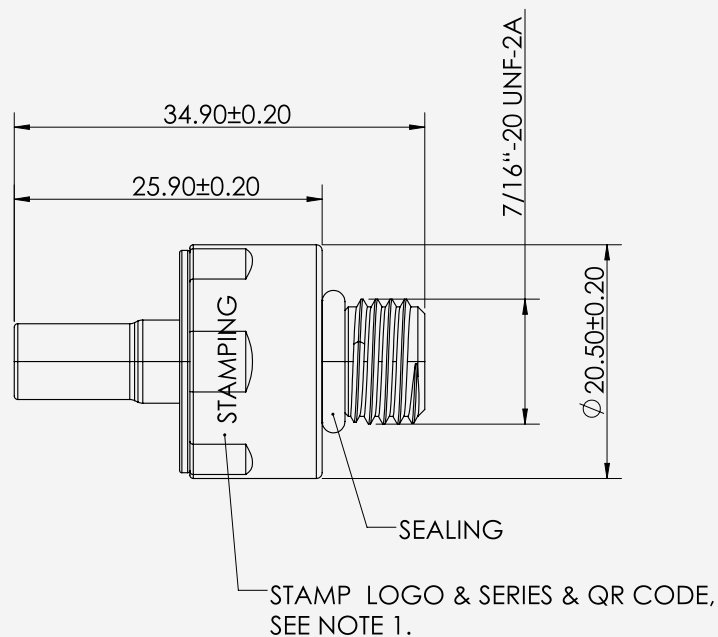


Product SPEC

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

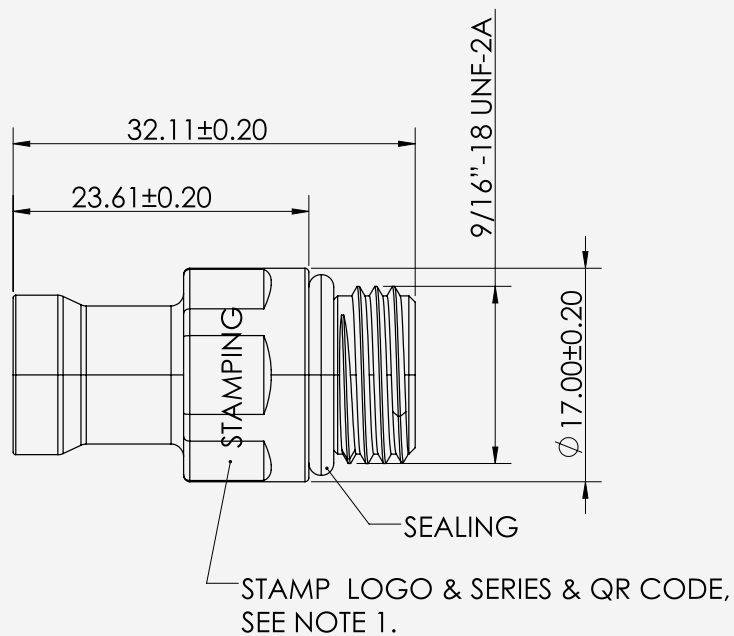
UQDB Dimensions

UQDB02 PLUG



UQDBP-02TMU01-N000

UQDB02 SOCKET



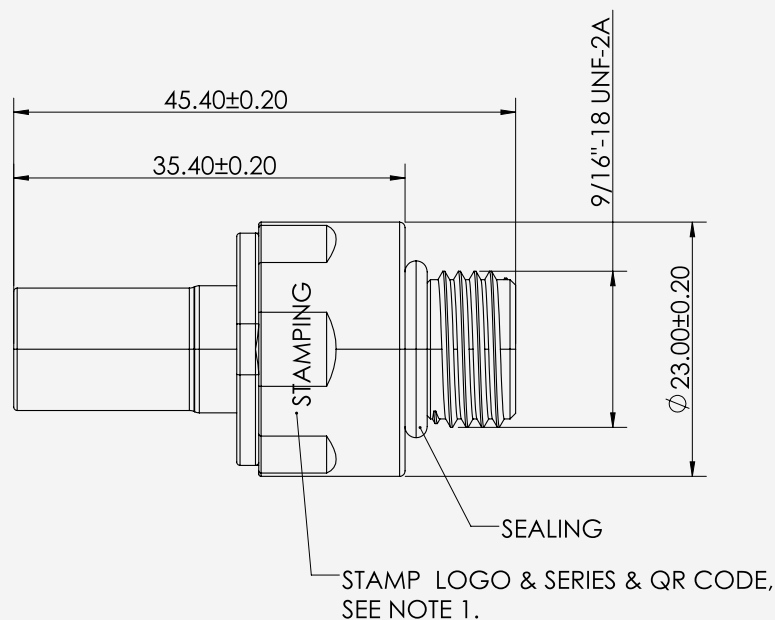
UQDBS-02TMU02-N000

Note:

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

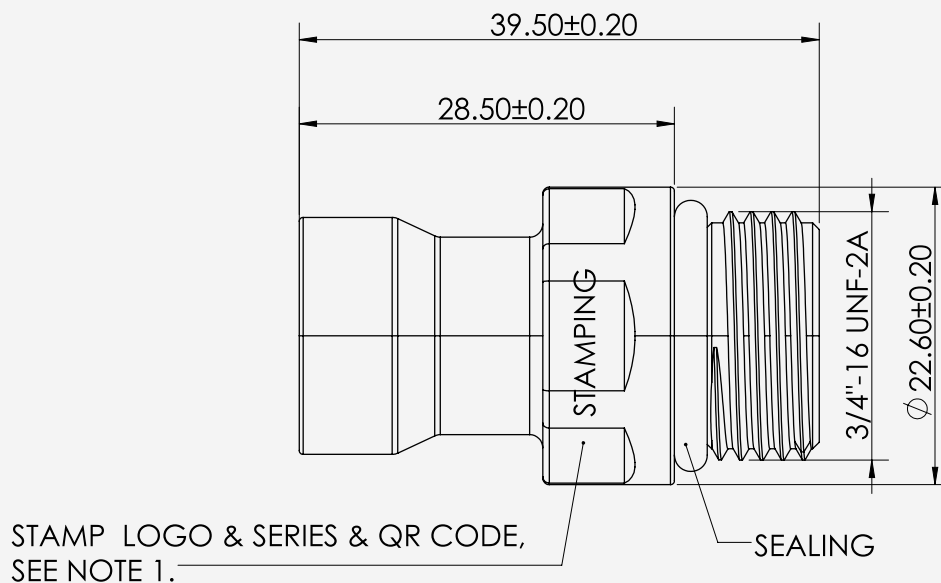
UQDB Dimensions

UQDB04 PLUG



UQDBP-04TMU02-N000

UQDB04 SOCKET



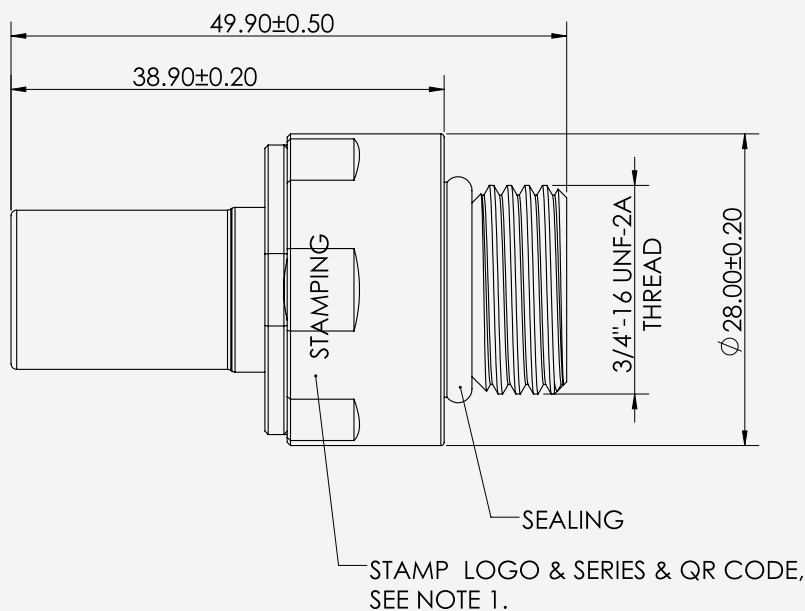
UQDBS-04TMU03-N000

Note:

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

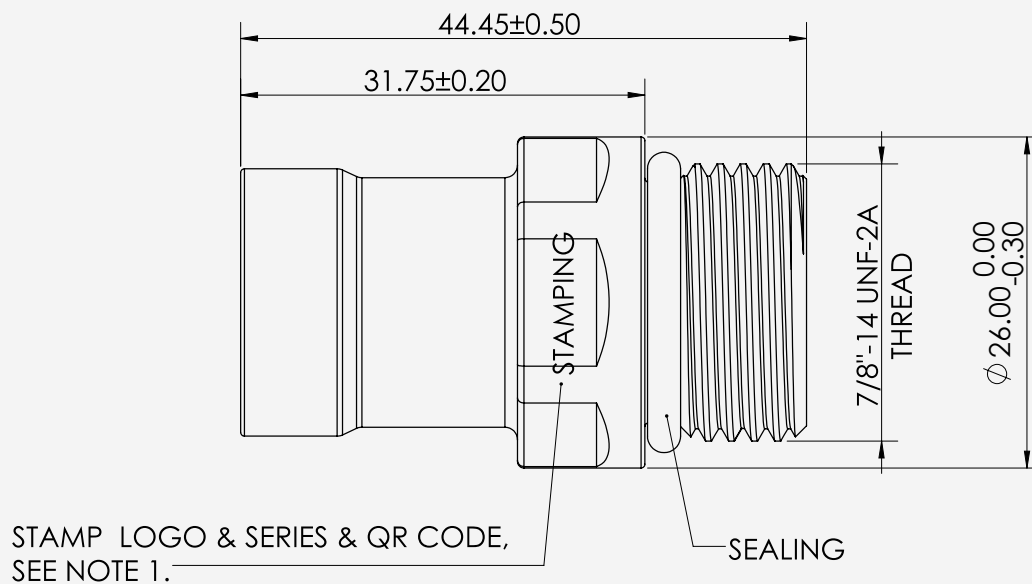
UQDB Dimensions

UQDB06 PLUG



UQDBP-06TMU03-N000

UQDB06 SOCKET



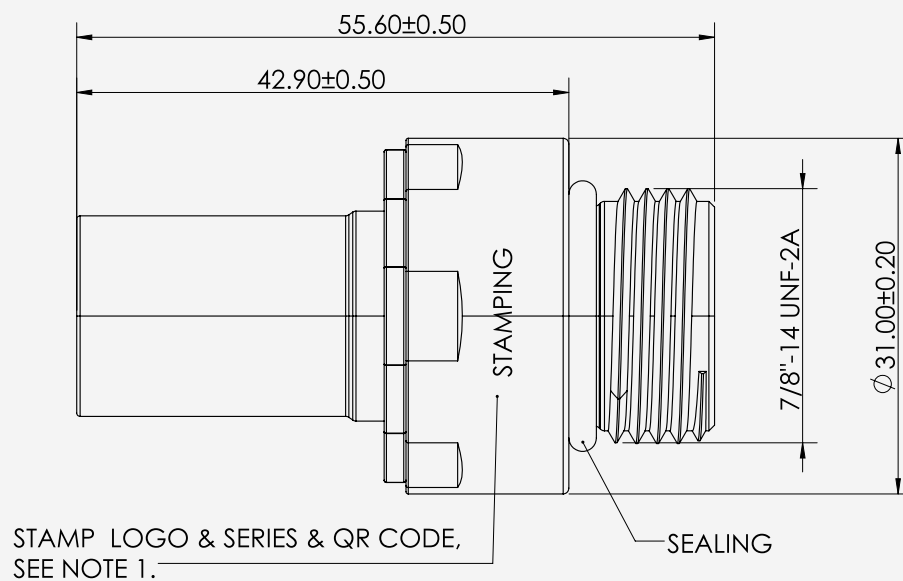
UQDBS-06TMU04-N000

Note:

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

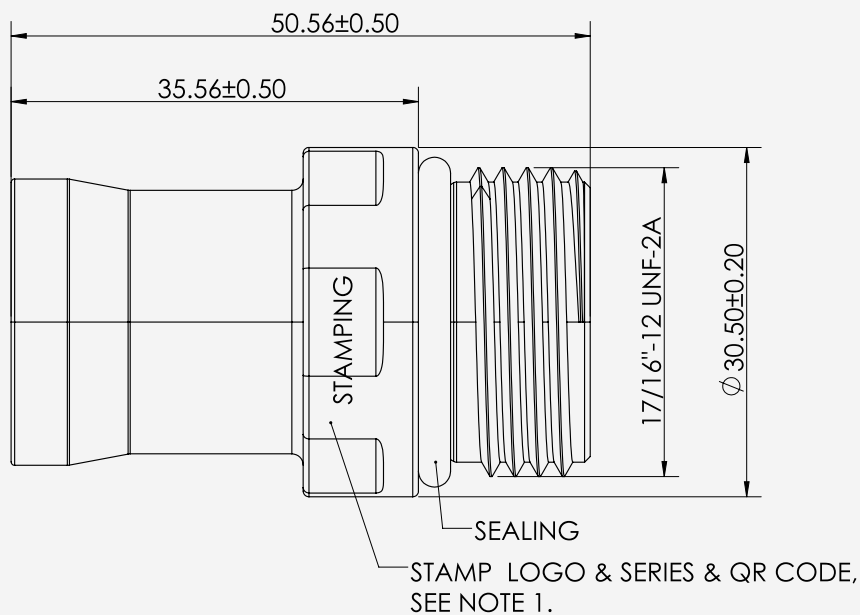
UQDB Dimensions

UQDB08 PLUG



UQDBP-08TMU04-N000

UQDB08 SOCKET

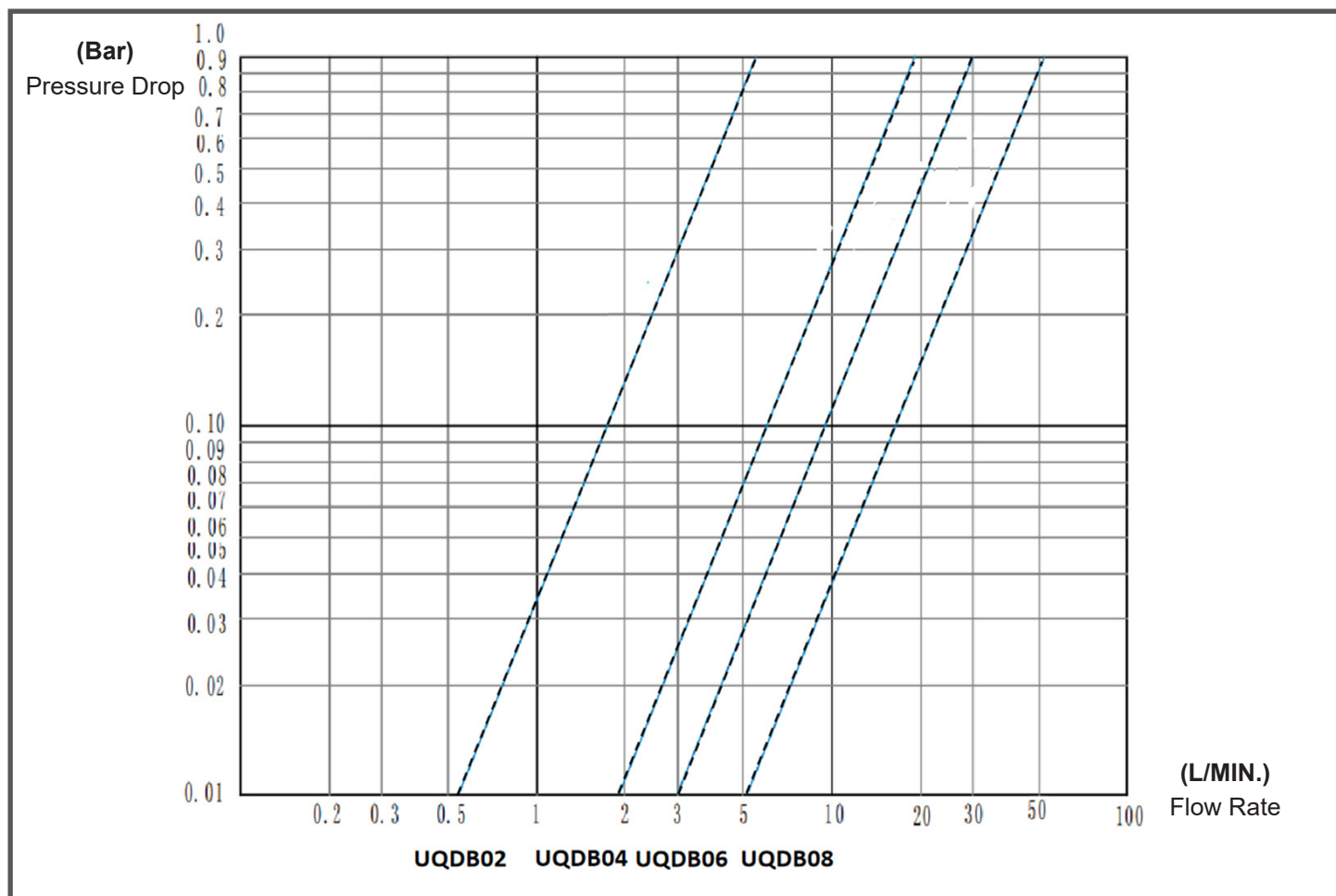


UQDBS-08TMU05-N000

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

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

UQD Standard Product PN (Cont.)

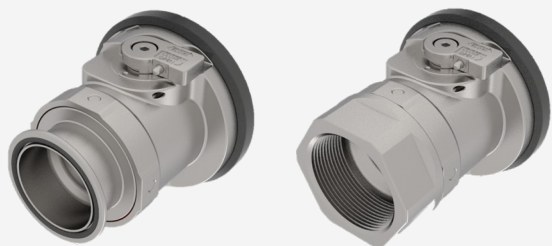
CATALOG P/N BLUE COLOR	SIZE	TYPE	END-CONNECTION	CATALOG P/N RED COLOR
UQDP-04TMU02-L000	UQD04	PLUG	male thread, ORB UNF 9/16"-18	UQDP-04TMU02-R000
UQDP-04TMB02-L000	UQD04	PLUG	male thread, BSP 1/4"	UQDP-04TMB02-R000
UQDP-04TMB03-L000	UQD04	PLUG	male thread, BSP 3/8"	UQDP-04TMB03-R000
UQDP-04HSH02-L000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

UQD Standard Product PN (Cont.)

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

CATALOG P/N BLUE COLOR	SIZE	TYPE	END-CONNECTION	CATALOG P/N 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 LATCH	hose barb straight, 5/8" hose	UQDLS-08HSH04-R000
UQDLS-08TMU04-L000	UQD08	SOCKET LATCH	male thread, ORB UNF 7/8"-14	UQDLS-08TMU04-R000

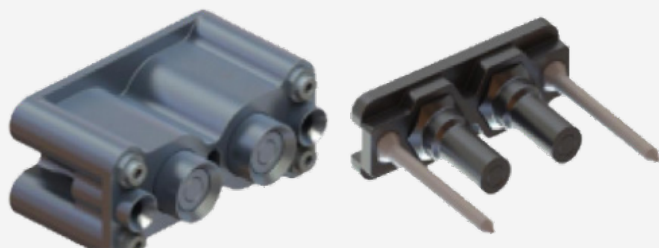
Additional QD Product Information



Ball Valve Series



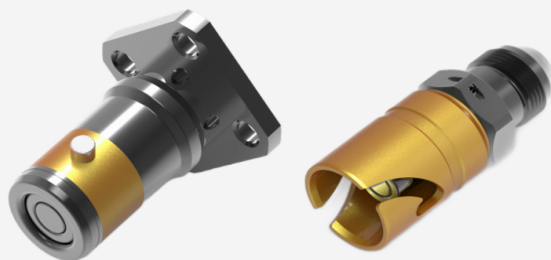
BMQC Series



Dual Blind Mate with Guide PIN



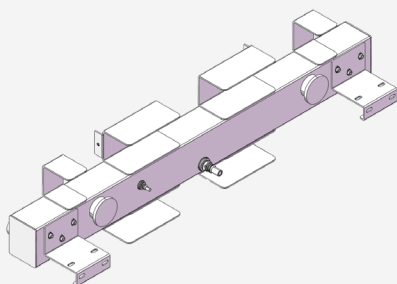
SBM Series



BTC Series



DBM Series



Manifold Series



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