# GATES® UNIVERSAL QUICK DISCONNECT (UQD)

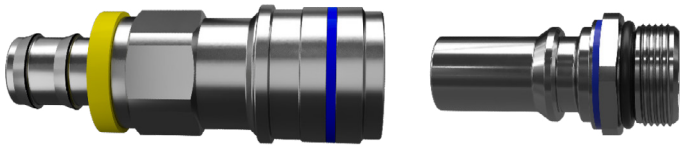
This isn't just another quick-connect coupling. This is an OCP-compliant, purpose-built solution for high performance data centers. As rack densities surge and liquid cooling becomes the new standard, Gates UQD couplings deliver the uncompromising performance your critical infrastructure requires. With maximum flow, reliable sealing, and compatibility with the Gates Data Master™ hose line, ensure the right configuration every time.

## BETTER COOLING, BETTER BUSINESS

- Maximum coolant flow for peak thermal performance
- Leak-proof reliability that protects your equipment—and your bottom line
- Dry-break disconnection convenience to keep your data center running 24/7
- OCP-aligned compatibility for seamless integration

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Material** | 316 Stainless Steel |
| **Sealing Material** | EPDM |
| **Maximum Working Pressure** | 290 psi (20 bar) |
| **Minimum Burst Pressure** | 1,160 psi (80 bar) |
| **Operating Temperature Range** | -40°F to 248°F (-40°C to 120°C) |
| **Shipping/Storage Temperature Range** | -40°F to 302°F (-40°C to 150°C) |



### DRY-BREAK DISCONNECTION, ZERO DOWNTIME

Why shut down an entire rack for maintenance when you don't have to? Gates UQD couplings disconnect under pressure, allowing you to change out servers, perform upgrades, or troubleshoot without missing a beat.

### SMALLER, SMARTER, STRONGER

Data centers are packed tighter than ever, and every millimeter counts. Gates UQD couplings are compact yet powerful, designed to fit high-density racks without sacrificing flow or durability.

## GATES IS A MEMBER OF THE OPEN COMPUTE PROJECT

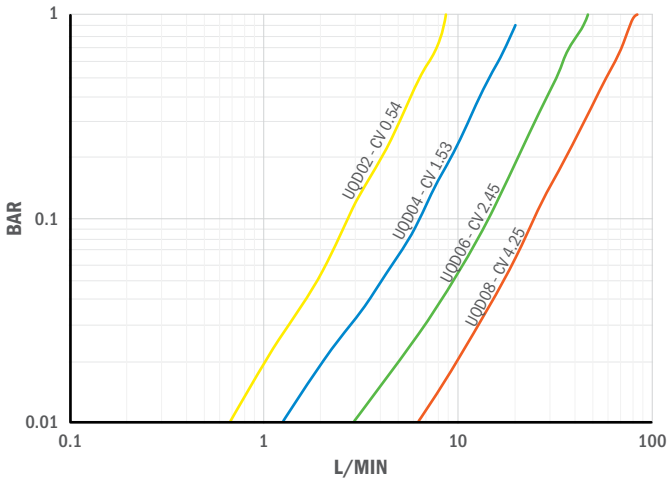
In the data center space, the importance of compatibility cannot be overstated. That's why our data center product lines, like UQD couplings, are engineered to align with Open Compute Project specifications. Together, we are making efforts towards building the best data center solutions for our customers.

OPEN COMMUNITY®

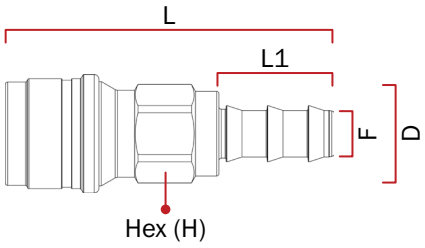
## GATES UQD FLOW RATE DETAILS

Whether you need barbed fittings for flexible tubing or threaded terminations for rigid systems, Gates offers the right connection to ease the flow of coolant and consistency to your data center. And with four sizes (UQD02 to UQD08), scaling your cooling infrastructure has never been easier.

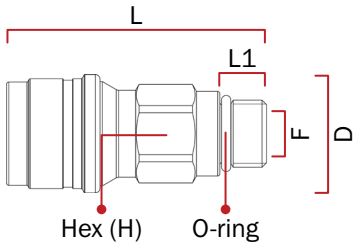
| FLOW RATE | UQD02 | UQD04 | UQD06 | UQD08 |
|---|---|---|---|---|
| Nominal Diameter DN (mm) | 03 | 05 | 07 | 10 |
| Minimum CV | 0.54 | 1.53 | 2.45 | 4.25 |
| Force to Connect (0 psi) | 34.5 | 44.4 | 54.6 | 70.1 |
| Force to Connect (100 psi) | 64.5 | 110.4 | 170 | 251 |



# UQD SOCKETS



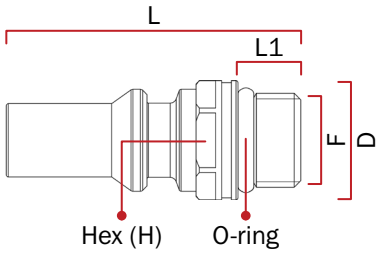

SOCKET W/BARB




SOCKET - MALE ORB

| PRODUCT CONFIGURATION | DESCRIPTION | PRODUCT NUMBER | THREAD TYPE (F) | DIMENSIONS (MM) | | | |
|---|---|---|---|---|---|---|---|
| | | | | D | L1 | L | H |
| UQD02 - Socket w/Barb | UQD02-S-PB1-R | 7245-0000 | 1/4" Barb | 20 | 21.5 | 54.8 | 16 |
| | UQD02-S-PB1-B | 7245-0001 | | | | | |
| UQD04 - Socket w/Barb | UQD04-S-PB1-R | 7245-0002 | 3/8" Barb | 25.2 | 24.5 | 70.1 | 19 |
| | UQD04-S-PB1-B | 7245-0003 | | | | | |
| UQD06 - Socket w/Barb | UQD06-S-PB1-R | 7245-0004 | 1/2" Barb | 28.4 | 27 | 79 | 24 |
| | UQD06-S-PB1-B | 7245-0005 | | | | | |
| UQD08 - Socket w/Barb | UQD08-S-PB1-R | 7245-0006 | 5/8" Barb | 32 | 27 | 87.2 | 27 |
| | UQD08-S-PB1-B | 7245-0007 | | | | | |
| UQD02 - Socket - Male ORB | UQD02-S-ORB1-R | 7245-0008 | 7/16-20UNF | 20 | 9.1 | 42.4 | 16 |
| | UQD02-S-ORB1-B | 7245-0009 | | | | | |
| UQD04 - Socket - Male ORB | UQD04-S-ORB1-R | 7245-0010 | 9/16-18UNF | 25.2 | 10 | 56 | 19 |
| | UQD04-S-ORB1-B | 7245-0011 | | | | | |
| UQD06 - Socket - Male ORB | UQD06-S-ORB1-R | 7245-0012 | 3/4-16UNF | 28.4 | 11 | 61.9 | 24 |
| | UQD06-S-ORB1-B | 7245-0013 | | | | | |
| UQD08 - Socket - Male ORB | UQD08-S-ORB1-R | 7245-0014 | 7/8-14UNF | 32 | 12.7 | 72.7 | 27 |
| | UQD08-S-ORB1-B | 7245-0015 | | | | | |

# UQD PLUGS




| PRODUCT CONFIGURATION | DESCRIPTION | PRODUCT NUMBER | THREAD TYPE (F) | DIMENSIONS (MM) | | | |
|---|---|---|---|---|---|---|---|
| | | | | D | L1 | L | H |
| UQD02 - Plug – Male ORB | UQD02-P-ORB1-R | 7245-0016 | 7/16-20UNF | 17.0 | 9.1 | 40.1 | 16 |
| | UQD02-P-ORB1-B | 7245-0017 | | | | | |
| UQD04 - Plug – Male ORB | UQD04-P-ORB1-R | 7245-0018 | 9/16-18UNF | 20.9 | 10.0 | 45.0 | 19 |
| | UQD04-P-ORB1-B | 7245-0019 | | | | | |
| UQD06 – Plug – Male ORB | UQD06-P-ORB1-R | 7245-0020 | 3/4-16UNF | 24.0 | 11.1 | 56.2 | 22 |
| | UQD06-P-ORB1-B | 7245-0021 | | | | | |
| UQD08 - Plug – Male ORB | UQD08-P-ORB1-R | 7245-0022 | 7/8-14UNF | 29.5 | 12.7 | 60.6 | 27 |
| | UQD08-P-ORB1-B | 7245-0023 | | | | | |