

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.

TECHNICAL SPECIFICATIONS

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



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

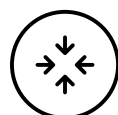


OCP-aligned compatibility for seamless integration



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.

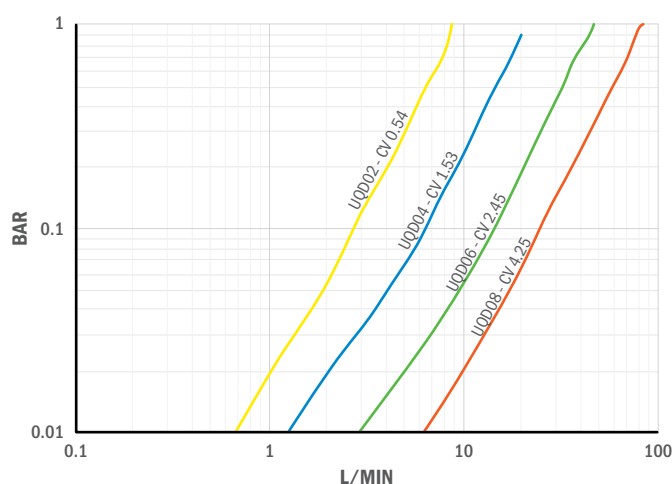


OPEN
COMMUNITY®

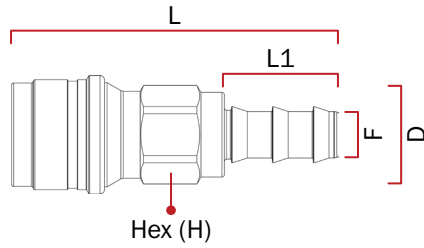
GATES UQD FLOW RATE DETAILS

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.

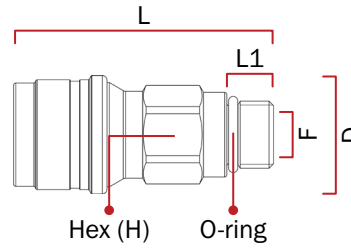
FLOW RATE	UQD02	UQD04	UQD06	UQD08
Nominal Diameter DN (mm)	03	05	07	10
Minimum CV	0.54	1.53	2.45	4.25
Force to Connect (0 psi)	34.5	44.4	54.6	70.1
Force to Connect (100 psi)	64.5	110.4	170	251



UQD SOCKETS



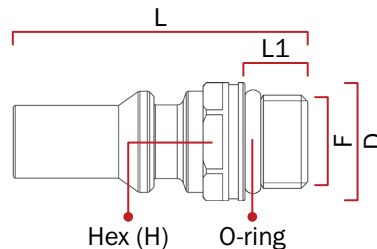
SOCKET W/BARB



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					

