

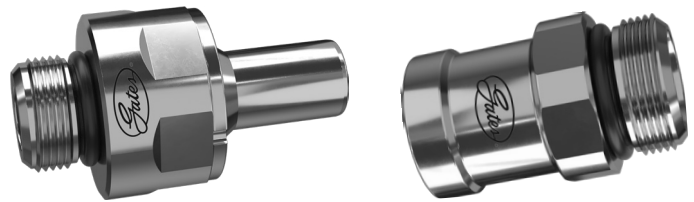
# GATES® UQD BLIND MATE (UQDB) COUPLINGS

## FOR DATA CENTERS

In high-performance data centers, coupling connections are of the utmost importance. The efficiency and accuracy of coolant transfer connections can mean the difference between a 24/7 operation and the costly effects of maintenance downtime and component repair. Gates Blind Mate couplings are made for the intensity and reliability your data center operation requires with the added ease of automatic connection and disconnection.

### TECHNICAL SPECIFICATIONS

<b>Material</b>	316L Stainless Steel
<b>Sealing material</b>	EPDM
<b>Maximum working pressure</b>	290 psi (20 bar)
<b>Minimum burst pressure</b>	1,160 psi (80 bar)
<b>Operating temperature range</b>	-40°F to 248°F (-40°C to 120°C)
<b>Shipping/Storage temperature range</b>	-40°F to 302°F (-40°C to 150°C)



**BETTER COOLING, BETTER BUSINESS**

- Maximum coolant flow for peak thermal performance
- Leak-proof reliability that protects your equipment—and your bottom line
- Blind connection and disconnection for ease of use
- OCP-aligned compatibility for seamless integration



#### BLIND CONNECTION/DISCONNECTION

When connections are critical to the success of your operation, enjoy the ease of use that comes with Gates Blind Mate Couplings, with no hoses to disconnect or reconnect and self-centering with +/- 1mm of tolerance to allow for slight misalignment.



#### LEAK-PROOF TECHNOLOGY

When dealing with critical, expensive equipment like server trays, ensure that your coupling choice has the leak-free performance you need. With Gates Blind Mate couplings, the connection is automatically closed off upon separation and reopens when the tray is reconnected to the manifold. It's that easy.

## 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 UQDB 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.



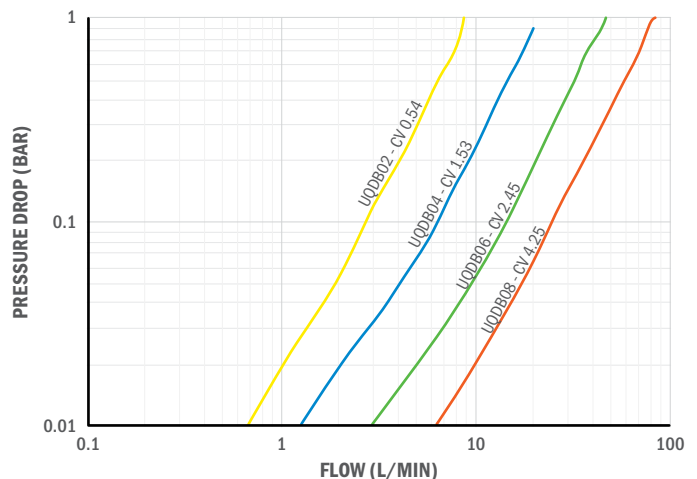
**OPEN**  
COMMUNITY®

## GATES BLIND MATE FLOW RATE DETAILS

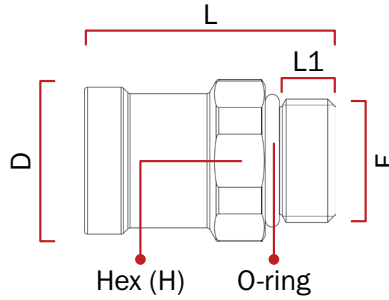
With a similar design to Gates UQD, expect the same high performance flow rates regardless of which component you choose for your cooling system. Gates UQDBs have one of the highest flow co-efficients in the market.

FLOW RATE	UQDB02	UQDB04	UQDB06	UQDB08
Nominal Diameter DN (mm)	03	05	07	10
Minimum CV	0.54	1.53	2.45	4.25
Force to Connect (N) at 0 psi	TBD	TBD	TBD	TBD
Force to Connect (N) at 100 psi	TBD	TBD	TBD	TBD

\*Flow from plug to socket using water.

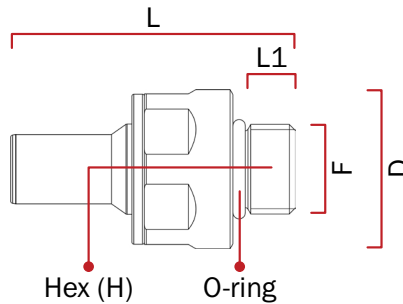


## GATES BLIND MATE SOCKETS



PRODUCT CONFIGURATION	DESCRIPTION	THREAD TYPE (F)	DIMENSIONS (MM)			
			D	L1	L	H
UQDB02 - Socket	UQDB02-S-ORB1	9/16-18UNF	21.4	10.0	33.6	20.0
UQDB04 - Socket	UQDB04-S-ORB1	3/4-16UNF	25.4	11.1	39.6	24.0
UQDB06 - Socket	UQDB06-S-ORB1	7/8-14UNF	28.4	12.7	44.5	27.0
UQDB08 - Socket	UQDB08-S-ORB1	1 1/16-12UNF	40.0	15.1	54.6	36.0

## GATES BLIND MATE PLUGS



PRODUCT CONFIGURATION	DESCRIPTION	THREAD TYPE (F)	DIMENSIONS (MM)			
			D	L1	L	H
UQDB02 - Plug - Male ORB	UQDB02-P-ORB1	7/16-20UNF	17.0	9.1	40.1	16.0
UQDB04 - Plug - Male ORB	UQDB04-P-ORB1	9/16-18UNF	20.9	10.0	45.0	19.0
UQDB06 - Plug - Male ORB	UQDB06-P-ORB1	3/4-16UNF	24.0	11.1	56.2	22.0
UQDB08 - Plug - Male ORB	UQDB08-P-ORB1	7/8-14UNF	29.5	12.7	60.6	27.0

