

# SnapQD Connector

The SnapQD ensures unparalleled performance in cold plate cooling with flat-face valves, push-to-connect design, high flow, no spillage, and compliance with OCP UQD standards.



**OPEN**  
COMMUNITY®



- ✓ Flat face valves
- ✓ Push-to-connect design
- ✓ High flow and no spillage
- ✓ Best force to connect
- ✓ Meets and exceeds OCP UQD requirements
- ✓ Suitable cooling liquid: DI water, Ultrapure water, Ethylene glycol, Polypropylene glycol, and PFPE

*Unrivalled InterConnects for Harsh Environments*

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## General Specification

<b>Colour Coding Options</b>	Input: Blue / Output: Red	<b>Operating Temperature</b>	-40°C ~ +120°C
<b>Mating Style</b>	Push-pull hose barb / Male Thread	<b>Shipping Temperature</b>	-40°C ~ +150°C
<b>Valve Type</b>	Flat Face	<b>Material of Plug</b>	Stainless Steel
<b>Mating Cycle</b>	5000 times	<b>Material of Seals</b>	Ethylene-Propylene (EPDM)
<b>Coolant Recommendation</b>	PG25	<b>Maximum Operating Pressure</b>	290 psi, 20bar
<b>Material of Socket</b>	Stainless Steel (only Sleeve: Aluminum alloy)	<b>Minimum Burst Pressure</b>	1160 psi, 80bar

### SQD02 Fluid Loss Requirement <0.01ml

Nominal diameter DN (mm): 3  
 Connection on Panel-Panel Distance: 43.5mm  
 Connection Force without Pressure: 38N  
 Minimum Cv: 0.57 (socket to plug), 0.59 (plug to socket)  
 Flow Rating (0.2bar pressure): 8.6L/min



### SQD04 Fluid Loss Requirement <0.012ml

Nominal diameter DN (mm): 5  
 Connection on Panel-Panel Distance: 53.0mm  
 Connection Force without Pressure: 44N  
 Minimum Cv: 1.45 (socket to plug), 1.98 (plug to socket)  
 Flow Rating (0.2bar pressure): 20L/min



### SQD06 Fluid Loss Requirement <0.015ml

Nominal diameter DN (mm): 7  
 Connection on Panel-Panel Distance: 65.2mm  
 Connection Force without Pressure: 54N  
 Minimum Cv: 2.9 (socket to plug), 2.9 (plug to socket)  
 Flow Rating (0.2bar pressure): 46.5L/min



### SQD08 Fluid Loss Requirement <0.019ml

Nominal diameter DN (mm): 10  
 Connection on Panel-Panel Distance: 72.2mm  
 Connection Force without Pressure: 70N  
 Minimum Cv: 5.01 (socket to plug), 5.15 (plug to socket)  
 Flow Rating (0.2bar pressure): 84L/min



NEW  
INNOVATION



NON-SPILL



LOW  
FLUID LOSS



UNIQUE  
APPEARANCE



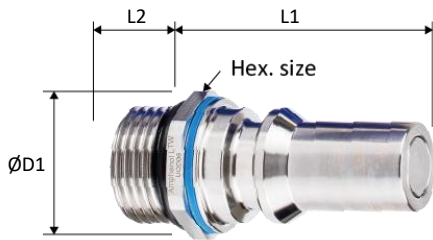
HIGH  
DURABILITY

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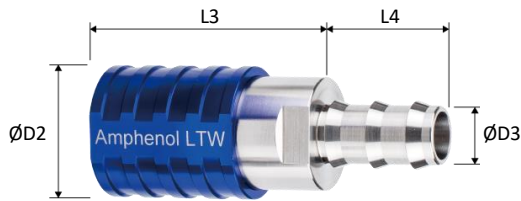
## Dimensions

### PLUG



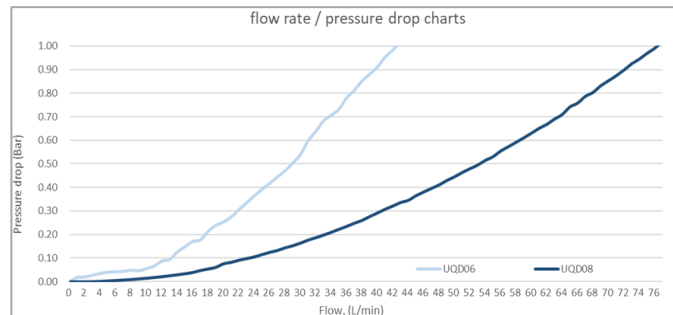
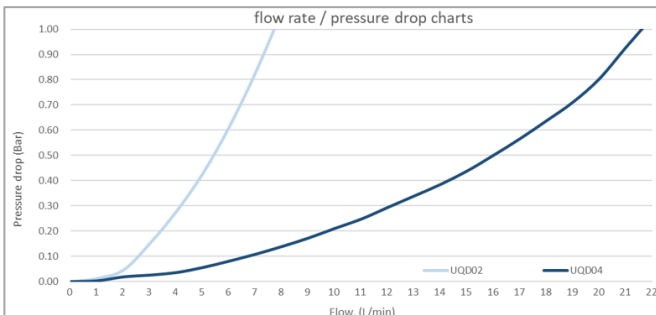
Product	Part Number	L1	L2	ØD1	Hex.	Connection Thread Size	Torque
SQD02	SQD-02PADM-PBE001 (Blue) SQD-02PADM-PRD001 (Red)	31	9.1	Ø17.0	16	7/16"-20 UNF	15 N.m
SQD04	SQD-04PAEM-PBE001 (Blue) SQD-04PAEM-PRD001 (Red)	35.4	10	Ø20.9	19	9/16"-18 UNF	25 N.m
SQD06	SQD-06PAFM-PBE001 (Blue) SQD-06PAFM-PRD001 (Red)	38.9	11.1	Ø24.0	22	3/4"-16 UNF	25 N.m
SQD08	SQD-08PAGM-PBE001 (Blue) SQD-08PAGM-PRD001 (Red)	42.9	12.7	Ø29.5	27	7/8"-14 UNF	35 N.m

### SOCKET



Product	Part Number	L3	L4	ØD2	ØD3	Connection Thread Size
SQD-02	SQD-02SBBN-PBE001 (Blue) SQD-02SBBN-PRD001 (Red)	33	21.5	Ø20.0	Ø8.8	1/4" hose
SQD-04	SQD-04SBCN-PBE001 (Blue) SQD-04SBCN-PRD001 (Red)	45.6	24.5	Ø26.0	Ø12.0	3/8" hose
SQD-06	SQD-06SBDN-PBE001 (Blue) SQD-06SBDN-PRD001 (Red)	52	27	Ø30.0	Ø15.2	1/2" hose
SQD-08	SQD-08SBEN-PBE001 (Blue) SQD-08SBEN-PRD001 (Red)	60	37	Ø35.0	Ø18.6	5/8" hose

## Water Flow



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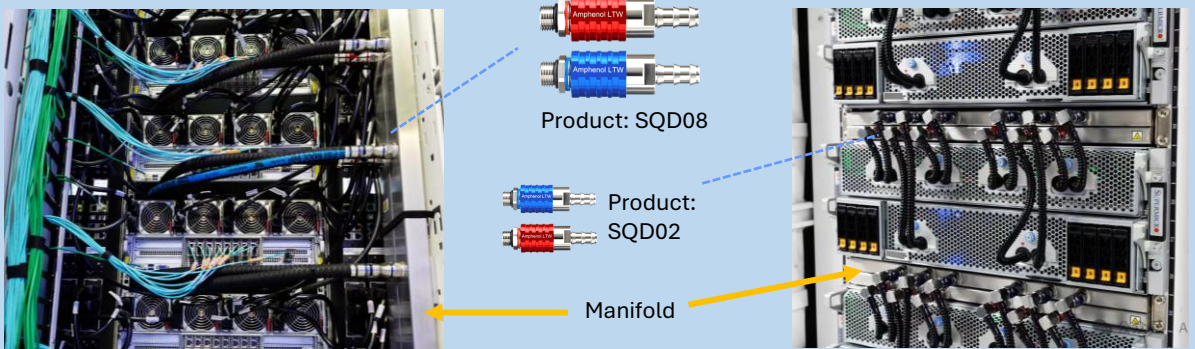
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## Applications

### ■ 1U Server Liquid Cooling Cabinet



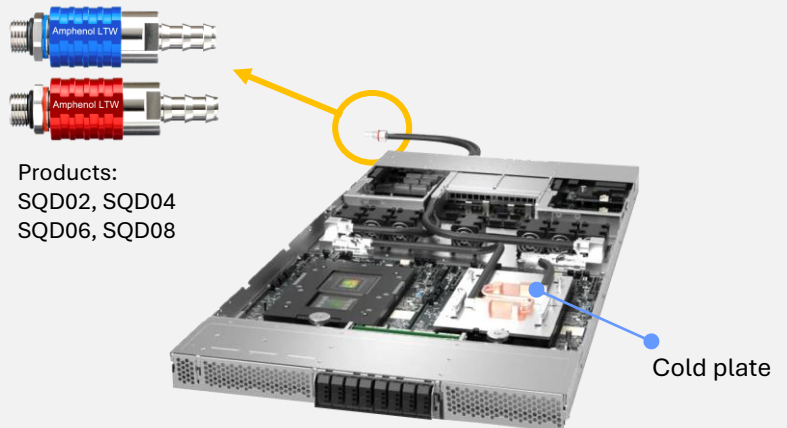
### ■ 4U Server Liquid Cooling Cabinet



### ■ Manifold



### ■ 1U Rack



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## FAQs



### **In addition to IT applications, are there any other applications for SnapQD products?**

The main application of SnapQD is in IT facilities and devices, with some usage in other applications such as semiconductors and medical fields.



### **SnapQD is used on server racks. How do you select the correct size?**

Based on thermal technical requirements, the PUE (Power Usage Effectiveness) value is calculated to determine the appropriate SnapQD size for the device. ALTW provides options based on flow rate requirements. Generally, SQD02/04 types are used more frequently than SQD06/08, and all are available for server racks.



### **Has Amphenol provided a SnapQD specification data sheet, along with a completed testing scope and test report per OCP requirements?**

Yes, call or email to your contact for more details.



### **Is Amphenol SnapQD the same as OCP UQD? And is it OCP UQD compliant?**

ALTW follows OCP requirements, including performance and dimensions.



### **Does it mate with other brands as well, not just Staubli and CEJN, etc.?**

Yes! Please contact us for more details.

## **KNOW EXACTLY WHAT YOU'RE LOOKING FOR?**

Great, let's get down to business.

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