

New

COMPACT ZEROSPILL CUPLA

For coolant piping of electronic equipment for supercomputers, Suitable data centers and other non-spill environments. Also suitable for power electronics.



Space saving

Ck063

Air,

Water

fluid

High flow

Low spillage and low air inclusion

- Compact size saves space.
- Outer diameters of 16 mm (1/8") and 18.5 mm (1/4")
- High flow rate for efficient cooling.
- Easy operation, push-to-connect function.
- Valve structure reduces air inclusion on connection and liquid spillage when disconnecting.

Specifications								
Madal	CZL-1SM	CZL-1PM	CZL-2SM	CZL-2PM				
Model	Socket	Plug	Socket	Plug				
Body material	Stainless Steel (SUS304) Nickel plated on Socket body							
Size (Thread)	1/	8"	1/4"					
Working pressure *1	1.0 MPa, 10 kgf/cm ² , 10 bar, 145 PSI							
0 1 1 1	Seal material	Mark	Working temperature range	Remarks				
Working temperature range *2	Ethylene-propylene rubber	EPDM	-10°C to +100°C	Standard material				

Maximum Tightening	Nm {kgf•cm}	
Size (Thread)	1/8"	1/4"
Torque	9 {92}	14 {143}

Flow Direction

Fluid flow can be bi-directional when socket and plug are connected.



Interchangeability

Socket and plug of different sizes cannot be connected.

Minimum Cross-Sectional Area (mm ²						
Model	CZL-1SM×CZL-1PM	CZL-2SM×CZL-2PM				
Min. cross-sectional area	14.9	30.2				

Suitability for Vacuum

Please contact us if vacuum is required for your application.

Admixture of Air on Connection May vary. Depends on the application. (mL)								
Model	CZL-1SM×CZL-1PM	CZL-2SM×CZL-2PM						
Volume of air inclusion	0.02	0.04						

Volume of Spillage per Disconnection May vary. Depends on the application. (mL)									
Model	CZL-1SM×CZL-1PM	CZL-2SM×CZL-2PM							
Volume of spillage	0.015	0.023							

*1: The normal allowable fluid pressure under continuous use.

Exceeding the working pressure may cause damage and leakage. *2: The minimum and maximum working temperature range of the seal material used in the product.

Continuous use at the minimum or maximum temperature is not recommended. Please contact us for consultation.





Compact

Piping in tight space is possible. For compact piping.

High flow Small but high flow rate.

For efficient cooling.





Models and Dimensions													WAF	: WAF stands for w	vidth across flats.		
Plug	Plug PM type (Male thread)									Socket SM type (Male thread)							
Model	Application (Thread)	Mass		Dimensions (mm)				Model	Application	Mass	Dimensions (mm)						
woder		(g)	L	C	øD	H (WAF)	Т		Woder	(Thread)	(g)	L	øD	H (WAF)	Т		
CZL-1PM	Rc 1/8	11	34	20	12	Hex.11	R 1/8		CZL-1SM	Rc 1/8	38	(53)	16	Hex.13	R 1/8		
CZL-2PM	Rc 1/4	19	39.5	21.5	15.5	Hex.14	R 1/4		CZL-2SM	Rc 1/4	49	(55.5)	18.5	Hex.16	R 1/4		

🕂 Safety Guide

Read and follow the "Instruction sheet" that comes with the product and the following page in the Quick Connect Couplings General Catalog; [Precautions Related to the Use of All CUPLA] page.

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