

For Food

Hygienic Cupla

Easy Wash Type

Disassemble and wash type / For food manufacturing piping

Working pressure 1.0 1.0 MPa (10 kgf/cm ²)	Valve structure Straight through	Applicable fluids Food, Drinking water	Water	Powder	Air
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Solves the troubles of ferrule joints by the effortless operation unique to Cuplas. Easy disassembly and cleanability help in hygienic management of HACCP.

- It can be connected by just inserting the plug to the socket and twisting the "Safety lock".
- The "Safety lock" feature ensures that there can be no unintentional disconnection of the coupling.
- O-rings that conforms to the Food sanitation Act of Japan is adopted.
- An operator friendly design. Seal parts will not drop off during connection like conventional fittings.
- Stainless steel (JIS SUS316L equivalent) for the liquid contact parts, and finished with buffing (#400).

Smart Connect and Disconnect



Ferrule type
(ISO 2852 standard)

Welding type
(JIS G 3447 standard)



Specifications				
Body material	Stainless steel [SCS16 (JIS SUS316L equivalent)] *1			
Surface finish of the liquid-contact part	Buff finish #400			
Size of end configurations	Welding type *2		Ferrule type *3	
	1.5 S / 2.0 S			
Pressure unit	MPa	kgf/cm ²	bar	PSI
Working pressure	1.0	10	10	145
Seal material *4 Working temperature range	Seal material	Mark	Working temperature range	Remarks
	Silicone rubber	SI	0°C to +110°C	Standard material
	Fluoro rubber	FKM (X-100)	0°C to +180°C	Available on request
	Ethylene-propylene rubber	EPDM (EPT)	0°C to +150°C	Available on request
O-ring size	1.5 S: P38, 2.0 S: P50 (Dimensions, tolerance: refer to JIS B 2401, Hardness: A70±5)			

*1: All metal parts are equivalent to SUS304 except those exposed to liquid contact.
 *2: The dimensions of the weld zone conform to JIS G 3447 stainless steel sanitary pipe.
 *3: Please use ferrule couplings conforming to IDf / ISO 2852.
 *4: The seal material conforms to article No.3-D-3-(1) Rubber utensils (except nursing utensils) or Containers / Packages. It has passed both material and elution tests specified in the Food sanitation Act and the standards for Food and Food additives (Notice No.370 of 1959 issued by the Ministry of Health and Welfare of Japan). Conforms to standard No.21CFR 177.2600 of the US Food and Drug Administration (FDA).

Flow Direction

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

Interchangeability

Same size sockets and plugs are interchangeable regardless of their end configurations.

Suitability for Vacuum		Vacuum pressure: 53 kPa A
Socket only	Plug only	When connected
—	—	Operational

Vacuum performance may vary depending upon working environment and usage conditions.

Seal part (cross section)

Because of the structure of this product, dead space is generated when using.

Enlarged view of seal part

Plug / Socket Connected state

When installing the Cupla on the pipe

Connection and disconnection of socket and plug is enabled by sliding either the socket or plug to the central axis of pipe. When connecting the couplers to the pipe, ensure that there is at least minimum moving distance (L) in the axial direction.

Amount of sliding (L)
More than 40 mm

HACCP: Hazard Analysis and Critical Control Point
 HACCP is the management system in which food safety is addressed to the process from production, procurement and handling of raw materials to distribution and consumption of finished products through the analysis and control of biological, chemical and physical hazards.