Ck056

Disassemble and wash type Quick Connect Couplings



HYGIENIC CUPLA

Easy Wash Type

HACCP supporting product







SEW SERIES

Smart Connect and Disconnect

SERIES

1 NITTO KOHKI CO., LT

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Easy disassembly and cleanability help in hygienic management of HACCP.

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.

Disassembling

Cleaning





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SEW SERIES

Quick

Just connect the plug to the socket and twist the "Safety Lock" for connection. Connection by one person is possible.



Cleaning

No tools are required. All parts can be disassembled quickly. Small number of parts makes cleaning easy.



Corrosion resistant

Stainless steel (JIS SUS316L equivalent) for the liquid contact parts, buffing (#400) to prevent propagation of various bacteria (electro-plating available on request). Less deterioration due to excellent corrosion-proof material.

Versatile

There are two types of end configurations. Ferrule shape (ISO 2852 standard) and welding shape (JIS G 3447 standard).



Effortless operation unique to Cuplas

Clean manufacturing environment and efficient production

Disassemble and wash type Duick Connect Couplings Hygienic CUPLA Easy Wash Type

Safety standards

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). Also conforms to standard No. 21 CFR 177.2600 of the US Food and Drug Administration (FDA).



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Construction

No tools are required. Since the O-ring is attached beforehand, it will not drop off during connection like conventional fittings.



Safety - Safety Lock function -

By rotating the cam handle, the "Safety Lock" is activated, and the O-ring sticks tightly to prevent fluid leakage. Reliable design with no protruding of O-ring into piping.



Accessories - Dust Cap -

Dust cap for both plug and socket (made of polyethylene). Prevents contamination of foreign matter into piping during separation.



"Hygienic CUPLA" was born to solve the various troubles of ferrule joints at food manufacturing factories, [It takes time to disassemble and clean] [It takes time and effort to assemble piping] [Clamps work loose and leak] [Packing can easily dislodge and become contaminated] [Overtightening the clamp cuts the packing]. Nitto Kohki's "Quick Connect Couplings", which is active in a wide variety of industries, will further expand its field of activity.

SEW SERIES

Disassemble and wash type Quick Connect Couplings Hygienic CUPLA Easy Wash Type

Workability Effortless operability and safety



Easy connection

You can connect by just inserting the plug to the socket and twisting the "Safety Lock". Efficient piping is realized with ease and without any special skill.



Safety Lock function

As a safety measure, the "Safety Lock" feature ensures that there can be no unintentional disconnection of the Cupla. By turning the cam handle, you can maintain the connected state of the socket and plug.



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Speedy disconnection

Disconnection of plug and socket can be done with ease. Can be disconnected by unlocking the "Safety Lock" and turning the cam handle. No special skills required.

Easy to wash

Easy disassembly and easy cleaning



Maintenance

No tools are required to disassemble/assemble Hygienic CUPLA. Small number of parts that are easy to handle, aiding efficient maintenance.



Easy washing of the whole unit

After disassembly, small number of components requires minimum effort when cleaning. No small parts to lose.



Stringent safety standards are met

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). Also conforms to standard No. 21 CFR 177.2600 of the US Food and Drug Administration (FDA). The Dust Cap conforms to No. 3-D-2-(1) and 3-D-2-(2)-4 Apparatus and Containers/Packages. It has passed both material and elution tests specified in the standards for Food and Food additives. (Notice No.201 of revised March 31, 2006 by the Ministry of Health and Welfare of Japan).

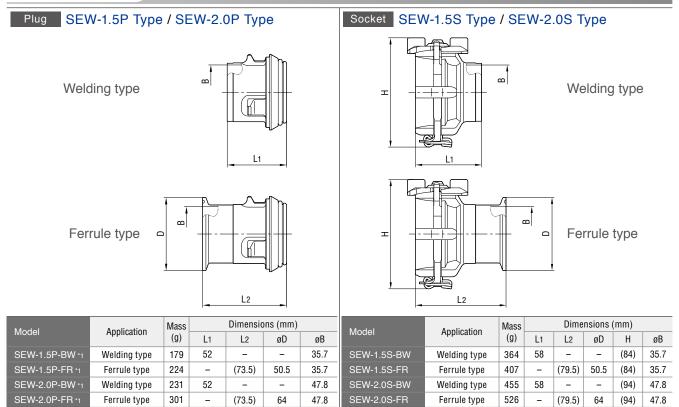


Specifications

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					
Max. working pressure *4	1.0 MPa, 10 kgf/cm ² , 10 bar, 145 PSI					
Proof pressure *5	1.5 MPa, 15 kgf/cm ² , 15 bar, 218 PSI					
Seal material Working temperature range	Seal material 16		Mark	Working temperature range •7		Remarks
	Silicone rubber		SI	0°C to +110°C		Standard material
	Fluoro rubber	FKM 0°C t		0°C to +180	°C	Available on request
	Ethylene propylene rubber		EPDM	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 \pm 5)					
Suitability for vacuum *8	Socket only		Plug only		When connected	
(Vacuum pressure: 53 kPa A)	_		_		Operational	

Note 1: All metal parts are equivalent to SUS304 except those exposed to liquid contact. / Note 2: The dimensions of the weld zone conform to JIS G 3447 stainless steel sanitary pipe. / Note 3: Please use ferrule couplings conforming to IDF / ISO 2852. / Note 4: The normal allowable fluid pressure under continuous use. May cause leakage or damage if repeatedly used exceeding this pressure. / Note 5: The maximum pressure, up to which the performance of the cupla will not be affected - even if the max working pressure is temporarily exceeded. / Note 6: 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) . / Note 7: Working temperature range that the Cupla can be used differs depending on the operating conditions. / Note 8: Vacuum performance may vary depending upon working environment and usage conditions.

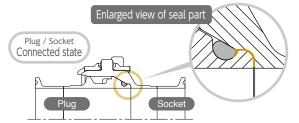
Models and Dimensions



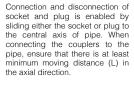
Note 1: A type without seal material is also available. In such case, the model name ends with "-NP". (ex: SEW-2.0P-BW -NP)

Seal part (cross section)

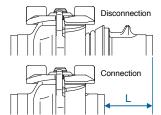
Because of the structure of this product, dead space is generated when using.



When installing the Cupla on the pipe



Amount of sliding (L) More than 40 mm



A Precautions to be taken when using Cuplas

- Any residual fluid remaining in the passage will spill out on disconnection. Drain any residual fluid before disconnection to avoid burns or injury to the skin when dangerous fluid such as chemical agent or high temperature fluid is used. There is a dead space in the Cupla. Be careful that this may lead to the spread of bacteria.
- The Cupia can be easily disassembled for cleaning. The Cupia should be evaluated before use to determine the suitability with regard
 to sanitation and safety. Especially when using O-rings of other brands than Nitto Kohki, be sure to evaluate the O-ring at your end.
- Do not use the Cupla continuously under any pressure exceeding the rated working pressure. This may cause leakage or damage.
 Use only within range of its rated temperature. May cause damage or deterioration to the sealing and leak if used otherwise. Also, do not use continuously at the lowest or highest working temperature. • The durability of the Cupla differs depending on the operating environment and conditions (pressure and temperature etc.). If
- necessary, conduct performance evaluation test under your actual operating environment and conditions. 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 in the axial direction. The outer diameter and thickness of the pipe to be welded to the Cupla must conform to JIS G 3447.
- · Malfunction caused by welding (directly or otherwise) is not included in the warranty.
- When powder is applied to the Cupla, static electricity may be generated. Please take countermeasure against this if required.
- When the Cupla remains connected for long periods of time, it may become difficult to disassemble.
 In this case, do not forcefully turn the socket and plug to disconnect as this may damage the seal material and cause leakage The O-ring and Lock plate ASSY are consumable items.
 See the following list as a replacement guide for the Lock plate ASSY.
- Replacement guide

Lock plate ASSY



- When the Lock plate ASSY is deformed, replace it with a new one regardless of connection/disconnection times
- The durability of the O-ring differs depending on the operating environment and conditions (pressure and temperature etc.) Be sure to read the "Instruction Sheet" that comes with the product before use
- Lock plate ASSY

IPLA Quick Connect Couplings

The logo for CUPLA is registered trademark or a trademark of Nitto Kohki Co., Ltd. in Japan, the United States and/or certain other countries

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Easy Wash Type

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