

Quick connect couplings for use on equipment for temperature control

HOT WATER CUPLA HW Type



Suited for hot water applications such as plastic moldings.





Designed for safety

2.0

2.0 MPa {20 kgf/cm²} This product is designed for use with water from -20°C to +180°C. When used with other

fluids, check the suitability of the seal and body material.

Safety

Safety lock function as a standard specification.

Prevents accidental disconnection caused by vibration or impact.

Separation prevention mechanism (Safety lock)



Nickel plated on the liquid contact parts.

Nickel plated to improve corrosion resistance.



Employs sealing material with excellent heat resistance.

Socket has double O-ring for improved seal. Working temperature range is -20°C to +180°C.



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▲ Caution

*Hot water continuous flow test by a mold temperation controller

Valve: For continuous use of 3000 hours at 160°C / 1000 hours at 180°C

O-ring: For continuous use of 2000 hours at 160°C / 700 hours at 180°C

- Although we have confirmed that there is no leakage, it is our experimental value and not a guaranteed value. Please consider above hours just as a guide. The durability of the seal differs depending on the customers usage conditions. (Number of connection / disconnection, fluid additives, etc.)
- Air will be admixed at the time of connection. Please purge the air by the equipment side when using with hot water.
- If additives are mixed in water or the piping is filled with steam, the lifetime of the seal will be decreased.

When using in such an environment, conduct performance evaluation test by actual product.

Specifications				
Body material	Brass (Nickel plated)			
Size (Thread)	Plug : R 1/4, R 3/8, R 1/2 / Socket : Rc 1/4, Rc 3/8, Rc 1/2			
Pressure unit	MPa kgf/cm ² bar PS			
Working pressure *1	2.0	20	20	290
Seal material	Seal material	Mark	Working temperature range	Remarks
Working temperature range *2	Fluoro rubber	FKM	-20°C to +180°C	Standard materia

*1: The normal allowable fluid pressure under continuous use. Continuously exceeding the working pressure may cause leakage or damage.

*2: The available temperature range differs depending on usage conditions.

Max. Tightening Torque			Nm {kgf•cm}
Size (Thread)	1/4"	3/8"	1/2"
Torque	9 {92}	12 {122}	30 {306}

On installation or removal always use correct size spanner/wrench on the hexagon section of socket/plug boo

Flow Direction



Interchangeability

Different sizes of sockets and plugs cannot be connected.

SP CUPLA Type A and HW Type CUPLA of the same size can be connected regardless of end configurations.

However, SP CUPLA Type A has different seal material characteristics, so the product specification and durability will differ. Conduct performance evaluation test under your actual operating environment and conditions within range of the working conditions of the product.

Models and Dimensions



Min. Cross-Sectional Area (mm ²)			
Model	HW-2S-F × HW-2P-M	HW-3S-F × HW-3P-M	HW-4S-F × HW-4P-M
Min. Cross-sectional area	26	51	73

Suitability for Vacuum	1.3 × 10 ⁻¹ Pa {1 × 10 ⁻³ mmHg}		
Socket only	Plug only	When connected	
_	—	Operational	

Admixture of Air on Connection May vary depending upon the usage conditions. (mL)				
Model	HW-2S-F × HW-2P-M	HW-3S-F × HW-3P-M	HW-4S-F × HW-4P-M	
Volume of air	1.2	2.7	3.9	

Volume of Spillage per Disconnection May vary depending upon the usage conditions. (mL)				
Model	HW-2S-F × HW-2P-M	HW-3S-F × HW-3P-M	HW-4S-F × HW-4P-M	
Volume of spillage	0.8	2.1	3.2	

Flow Rate – Pressure Loss Characteristics

[Test conditions] • Fluid : Water • Temperature: $23^{\circ}C \pm 5^{\circ}C$



WAF : WAF stands for width acro



1 Precautions for use

Prior to use, be sure to read the "Precautions Relating to the Use of All CUPLA" on the CUPLA general catalog and the "Instruction Sheet" that comes with the product and use them correctly and safely.

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