

## Solutions for Enhancing Efficiency in Secondary Battery Manufacturing Processes Quick Connect Couplings CUPLA Series

Enhance efficiency and stability in secondary battery manufacturing with CUPLA.



C25en









## **Meeting the Needs of**

Please contact us regarding the matters listed on the right.

#### Material Preparation Process (Battery Material Manufacturing Process)



### Electrode Manufacturing Process (Battery Manufacturing Process)



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# **Secondary Battery Manufacturing with CUPLA**

About material restrictions: Non-use of metallic materials such as copper and zinc

About low dew point compatibility (grease, etc.)

About plating restrictions: Non-use of electroplated nickel and zinc plating

About slurry flow applications



See pages 3 to 6 for CUPLA products information.



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- Both socket and plug have built-in automatic shut-off valves that prevent fluid from outflowing when disconnected.
  Easily connected simply by pushing the plug into the socket. Flanged socket body makes it easy to operate the sleeve even when wearing gloves.
- All components are cleaned, assembled, and then inspected and packaged in a clean room.
- The concave design at the plug tip prevents liquid from dripping onto containers during disconnection and makes wiping easier. It also protects the seal surface from damage in case of accidental drops or impacts.
- To prevent incorrect connection, a keyed-type sleeve is available as a made-to-order item. Ten key angle positions are available. The appearance of the keyed-type body slightly differs from that of the standard type.
- Plug comes with a cap made of high density polyethylene (HDPE).



Polytetrafluoroethylene 1/4", 3/8", 1/2", 3/4" 0.2 MPa, 2 kgf/cm<sup>2</sup>, 2 bar, 29 PSI

+5°C to +50°C

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▲ Safety Guide

For low

pressure

Read without fail and observe the "Instruction sheet" that comes with the product and the following pages in the Quick Connect Couplings General Catalog; [Precautions Relating to the Use of ALL CUPLA]. Working pressure: The normal allowable fluid pressure under continuous use. Exceeding the working pressure may cause damage and leakage Working temperature range: The operable temperature range depends on the operating conditions



Working temperature range

Bodv material Size (Thread)

Body material

Size (Thread)

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Working pressure

Working temperature range

Working pressure

Working temperature range

Quick connect couplings for piping in pneumatic control devices / Compact and lightweight type

### MICRO CUPLA

#### Compact, lightweight CUPLA with only 9.5 mm outer diameter. Push-to-connect operation.

- Even though the valve is built into the socket, the sleeve outer diameter is confined to 9.5 mm.
- Compact design for piping in narrow spaces.
- Available in various end configurations to satisfy a wide range of
- pneumatic applications. Note: Fluid will flow out from the plug side when disconnected.
- Take necessary precautions if the fluid is water.

Plug
Stainless steel
 1/8", M5, Tube ID ø4

1.0 MPa, 10 kgf/cm<sup>2</sup>, 10 bar, 145 PSI

-20°C to +80°C, etc.

0°C to +50°C

\*Specifications on the right apply only to CUPLA. Maximum working pressure and working temperature range may vary depending on tube materials you use with and the working temperature.

Quick connect couplings for use on air lines and scientific equipment / Compact and lightweight type

#### For low SMALL CUPLA pressure

#### Lightweight and compact push-to-connect operation. Responding to requirements of modular combinations.

- Compact socket with built-in valve and 14 mm OD sleeve. Suits applications calling for compact and modular components.
- Easily connected simply by pushing the plug into the socket.
- A wide line-up of end configurations (female and male threads, hose barbs,
- manifolds) enables suitability with a wide range of piping applications such as pneumatic, scientific and medical equipment.
- Note: Fluid will flow out from the plug side when disconnected. Take necessary precautions if the fluid is water.

\*Specifications on the right apply only to CUPLA. Maximum working pressure and working temperature range may vary depending on the hose materials used and the working temperature.

Quick connect couplings for air lines / General-purpose type



#### From factory air lines to pneumatic tool connections, available in various body materials, sizes, and end configurations. Excellent durability.

- An excellent general-purpose coupling for connecting factory air supplies to pneumatic tools.
- Steel couplings are suitable for air, while brass or stainless steel is suitable for water.
- Note that fluid will flow out from the plug when disconnected.
- Available in various body materials, sizes, and end configurations, making it applicable to a wide range of applications.

\*Specifications on the right apply only to CUPLA. Maximum working pressure and working temperature range may vary depending on the hose materials used and the working temperature



Stainless steel (Made-to-order)
1/8", 1/4", Hose OD ø6
1.0 MPa, 10 kgf/cm <sup>2</sup> , 10 bar, 145 PSI
-20°C to +80°C



Stainless steel 1/4" to 1", 1/4" to 1 hose, etc. Working pressure 1.5 MPa, 15 kgf/cm<sup>2</sup>, 15 bar, 218 PSI -20°C to +80°C, etc. Working temperature range

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Size (Thread)

Working pressure

- The sealing material in the wetted parts is a chemical-resistant
- perfluoroelastomer (FFKM).

Please contact us for assistance.

1/8", 1/4", 3/8", 1/2", 3/4", 1" (reference)

Low pressure



For more information on CUPLA, please refer to the general CUPLA catalog. Please contact us for details on LARGE ZEROSPILL CUPLA, HCF CUPLA, and ROTARY JOINT.

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