

Select an Appropriate Cupla for the Job

Nitto Kohki has the wide range of Cuplas covering almost every application and feature you need. In order to select an appropriate Cupla for your job, you need to realize the following specifications.

Specifications to Be Checked When Selecting Cuplas

Fluid and the Temperature

Select a Cupla with body and seal materials that suit the fluid and its temperature.

There are different body and seal materials to suit different fluids. For example, we recommend steel Hi Cuplas for air, and brass or stainless steel for water. Please refer to Body Material Selection Table and Seal Material Selection Table at the end of this catalog for details about the correspondence between fluids and materials.

Fluid Pressure

Select a Cupla suitable for the actual max. fluid pressure.

Fluid pressure is also a key to Cupla selection. Each series of hydraulic Cuplas have different structures to cope with each pressure resistance ranges between 5.0 MPa (50 kgf/cm²) and 68.6 MPa (700 kgf/cm²).

Automatic Shut-off Valve

Select a Cupla with a valve structure that suits the piping application.

Valve combinations are two-way shut-off, one-way shut-off, or straight through types. Choose carefully. Unless it is a two-way shut-off type, the internal fluid will flow out from the Cupla without valve when it is disconnected.

Operating Environment

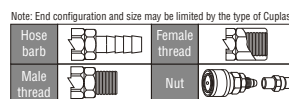
Select a Cupla with design and materials that suit each operating environment.

In choosing the type of Cupla, body material and seal material, consider the temperature range, possible dirt and dust, and/or corrosive atmosphere in the operating environment.

Size and Type of End Configurations

Finally and critically specify the size and type of end configurations.

Having checked the type and materials for the Cupla, now specify the size and type of end configurations to suit the type of piping. Choose carefully, as the size affects the fluid flow rate.



If you cannot find a suitable Cupla, please enter the above details in the "Cupla Inquiry Form" at the end of this catalog and send it to our distributor in your country or directly to Nitto Kohki by fax or post.

Symbols

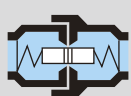
Quick reference symbols: 1) Type of valve structure, 2) Working pressure, 3) Applicable fluids, are given on each product page to help you to quickly select a suitable Cupla. Please use them as the guide to grasp each type selection.

Valve structure

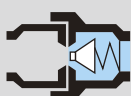
Plug Socket Valve



Two-way shut-off



Two-way shut-off (Non-Spill)



One-way shut-off



One-way shut-off



Straight through

Working pressure



1.0 MPa
(10 kgf/cm²)

Applicable fluids



Air



Water



Hydraulic oil



Steam



Oxygen,
Fuel Gas



Cooling water



Gas



Inert gas,
Vacuum, Helium



High purity
chemicals



Heated oil



Powder



Solvent based
paint