Safety Guide

The following precautions must be taken when using Cuplas. Please contact Nitto Kohki or the outlet/supplier where you purchased the product from with regard to repair procedures or clarification on the specification or applications of the products.

Precautions relating to the use of all Cuplas

• Be sure to read the "Instruction Sheet" that comes with the products, and "Caution" on the package before use.

Cuplas for air piping (Pages 17~60)

⚠ Caution

- Do not use for the purpose of other than quick connective coupling between fluid pipelines.
- Do not put fluids other than the specified by the maker through Cuplas.
- Do not connect with other brands' quick connective couplings.
- Do not use Cuplas continuously under any pressure exceeding the rated working pressure.
- Do not use at temperatures outside the rated working temperature range. Otherwise you may damage the seal material inside and cause leakage.
- Do not apply any artificial impact, bend, or tension other than necessary in connection and disconnection. This may cause leakage or damage.
- Do not use in a place where metal debris or sands may be around. This may cause malfunction or leakage.
- Careless paint on Cuplas may cause malfunction or leakage.
- Never disassemble Cuplas without enough repair know-how.

Cautions on Handling Hose (Pages 48)

⚠ Caution

- Make sure there is no twisted or bent part on hoses before use.
- Do not give any scratch on hoses with stones or concrete around, or deformation for a long time. They may cause critical damage on hoses.
- Do not leave the hose with extreme kink at the connection to Cupla. This may cause leakage or damage.
- Hoses cannot be used for hoisting up and down any goods with load on Cuplas.
- Do not place hoses near fire as this may lead to softening or deformation of hoses.
- Keep hoses in a shaded, dry and well-ventilated place.
- Do not bend a polyurethane hose at less than the minimum-bending radius of 30mm.

Cupla for oxygen / fuel gas (Pages 61~64)

⚠ Warning

- Fluid must be supplied from socket to plug.
- Apply liquid/tape sealant on male taper threads to ensure no leak.
- Do not tighten screws in excess of the rated maximum tightening torque, otherwise it may cause damage.
- Do not put fluids other than the specified by the maker through Cuplas.
- Do not connect with other brands' quick connective couplings.
- Do not use Cuplas continuously under any pressure exceeding the rated working pressure.
- Do not use at temperatures outside the rated working temperature range. Otherwise you may damage the seal material inside and cause leakage.
- Do not apply any artificial impact, bend, or tension other than necessary in connection and disconnection. This may cause leakage or damage.
- Do not use in a place where metal debris or sands may be around. This may cause malfunction or leakage.
- Careless paint on Cuplas may cause malfunction or leakage.
- Do not use in a place where gas is likely to remain around.
- Do not connect/disconnect Cuplas near a flame.
- Replace any Cupla with a new one after a backfire has occurred on it.
- Oil must not be present when connecting to a hose. Otherwise it may cause spontaneous combustion.
- Cut off and throw away the hose at least 3cm from the end before it is reused.

⚠ Caution

- Do not use for the purpose of other than quick connect coupling between fluid pipelines.
- Hose barb of Cuplas must be inserted right to the root and secured tight with a hose clamp.
- Store indoors away from water or moisture.
- Do not use a hose with cracks, which may cause leakage or disconnection.
- Always check for leakage on Cuplas before use. Never use one with leaks, and replace it with a new one.
- Make sure the valve on the torch to which the Cupla is connected is closed before connection.

Cupla for Inert Gas (Pages 65~68)

⚠ Warning

- Do not use Cuplas continuously under any pressure exceeding the rated working pressure. It might damage the seal material and result in a leak.
- Do not use at temperatures outside the rated working temperature range. Otherwise you may damage the seal material inside and cause leakage.
- Do not apply any artificial impact, bend, or tension other than necessary in connection and disconnection. This may cause leakage or damage.
- Do not connect/disconnect with fluid under dynamic pressure or static residual pressure. (excluding connection of HSP-PV type)
- Do not disassemble.

⚠ Caution

- Apply liquid/tape sealant on male taper threads to ensure no leak.
- Do not apply any artificial impact, bend, or tension other than necessary in connection and disconnection. This may cause leakage or damage.
- Do not put fluids other than the specified by the maker through Cuplas.
- Do not use for the purpose of other than quick connect coupling between fluid pipelines.
- Do not connect with other brands' quick connect couplings.
- Do not use in a place where metal debris or sands may be around. This may cause malfunction or leakage.
- Careless paint on Cuplas may cause malfunction or leakage.
- A shut-off valve must be installed between pressure source and the Cupla.
- Do not use as a swivel joint.
- Direct hookup to a vibration or impact device may result in reduced lifetime.

Cuplas for gases or liquids (Pages 69~72, 75~80)

⚠ Warning

- Do not put fluids other than the specified by the maker through Cuplas.
- Do not use Cuplas continuously under any pressure exceeding the rated working pressure.
- Do not use at temperatures outside the rated working temperature range. Otherwise you may damage the seal material inside and cause leakage.
- Do not pressurize the socket or plug with fluid while disconnected.
- Do not disassemble.

⚠ Caution

- Apply liquid/tape sealant on male taper threads to ensure no leak.
- Do not tighten up the screw on Cupla exceeding the rated maximum tightening torque, which may cause damage.
- Do not use for the purpose of other than quick connect coupling between fluid pipelines.
- Do not connect with other brands' quick connect couplings. (except Lever Lock Cupla)
- Do not apply any artificial impact, bend, or tension other than necessary in connection and disconnection. This may cause leakage or damage.
- Do not use in a place where metal debris or sands may be around. This may cause malfunction or leakage.
- Careless paint on Cuplas may cause malfunction or leakage.
- A shut-off valve must be installed between pressure source and the Cupla.
- Do not use as a swivel joint.
- Direct hookup to a vibration or impact device may result in reduced lifetime.
- Fluid must be cleaned through filters before reaching the Cuplas.
- O-rings in Cuplas must remain lubricated at all times.
- Don't strike the revealed end of an automatic shut-off valve with a hammer or the like. It may cause leakage or malfunction. Consult us for alternative way of releasing the residual pressure inside.
- Refer to the pages of Seal Material Selection Table and Body Material Selection Table at the end of this catalog to consult suitable seal and body materials for the fluid you use.

HCF Cupla Series (Pages 73~74)

⚠ Danger

- Do not pressurize the socket or plug with fluid while disconnected. This may cause damage on seal material or possible valve blow out.
- Do not touch Cuplas with bare hands when heated to high temperature.
- Do not connect/disconnect Cuplas with fluid of high temperature in line. This may cause heated fluid splash. Wear appropriate clothes and protective gear while in connection or disconnection operation.

⚠ Warning

- Do not use Cuplas continuously under any pressure exceeding the rated working pressure.
- Do not use at temperatures outside the rated working temperature range. Otherwise you may damage the seal material inside and cause leakage.
- Do not disassemble.
- Do not put fluids other than the specified by the maker through Cuplas.
- Do not connect/disconnect with fluid under dynamic pressure or static residual pressure in line. This may cause heated fluid splash.

⚠ Caution

- Apply liquid/tape sealant on male tapered pipe threads to ensure no leak.
- Do not tighten up the screw on Cupla exceeding the rated maximum tightening torque, which may cause damage.
- Do not apply any artificial impact, bend, or tension other than necessary in connection and disconnection. This may cause leakage or damage.
- Avoid scratching or hitting the projected ring-shaped seal surface of the plug. Otherwise such may cause leakage.
- Do not use in a place where metal debris or sands may be around. This may cause malfunction or leakage.
- Do not connect Cuplas with dirt or dust still sticking to the seal material. This may cause malfunction or leakage. When dirt or dust is found to be sticking to the seal material, clean the seal material so as not to damage.
- Do not use for the purpose of other than quick connect coupling between fluid pipelines.
- Do not use as a swivel joint.
- Fluid must be cleaned through filters before reaching the Cuplas.
- A shut-off valve must be installed between pressure source and the Cupla.
- Direct hookup to a vibration or impact device may result with reduced lifetime.
- Do not strike the revealed end of an automatic shut-off valve with a hammer or similar. This may cause leakage or malfunction.
- Do not connect with other brands' quick connective couplings.
- Design and keep the fluid flow speed through Cuplas below 8 m/s.
- Check up Cuplas periodically. If any disorder is shown, stop using the Cuplas until properly repaired or replaced with new ones.