

Maintenance of Cuplas

Cuplas should be inspected periodically to ensure safe operation and to prevent them from a performance drop or malfunction. If there is a malfunction in the Cupla or wear and tear, please replace it with a new one. If you have any concerns, contact Nitto Kohki or the distributor from whom you purchased your Cupla.

O-ring Replacement Procedure

The internal O-ring is a consumable item. If the O-ring in the socket has failure such as wear and tear or deterioration, take the following steps to replace it with a new one. Always use genuine Nitto O-rings.

Accessories for O-ring maintenance

Grease for O-ring

- GRE-M1 (Mineral oil) for NBR and FKM
- GRE-SI (Hydrocarbon oil) for NBR and FKM
- GRE-HC1 (Silicon oil) for NBR, FKM, and EPDM



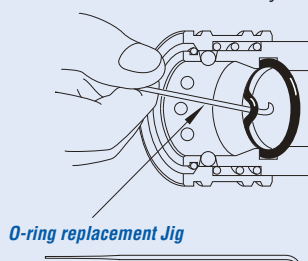
O-ring replacement Jig

● PMJ-1 (Small)

● PMJ-2 (Large)

How to Remove the O-ring

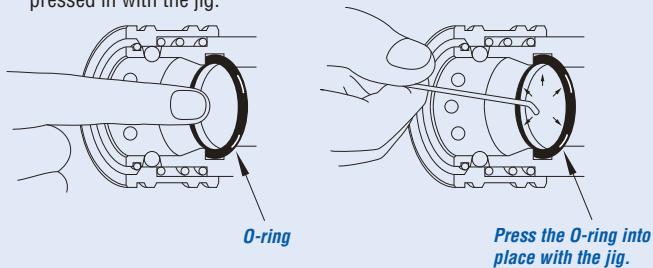
- 1 Use an optional O-ring replacement Jig to remove the O-ring. Be careful not to damage the groove of O-ring with the jig. Used O-rings with wear and tear or deterioration can be removed easily with the jig.



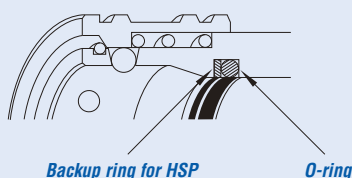
- 2 After removing the O-ring, wipe the groove clean with a cloth.

How to Install a New O-ring

- 1 After making sure that no dust or foreign matter exists in the groove of O-ring, push in part of the O-ring and the remaining part can be easily pressed in with the jig.



- 2 A HSP Cupla has a backup ring. Insert an O-ring in the place shown in the figure. If Cupla connection/disconnection is hard and not smooth after the O-ring has been replaced, apply a little grease to the O-ring.



Caution for Storing Cuplas

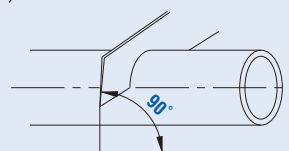
- Store Cuplas in a place where no dust or foreign matter gets in. If fluid flows while the dust or foreign matter is present inside Cuplas, the dust or foreign matter may go into the equipment connected to the Cupla and may cause malfunction.
- Store Cuplas indoors away from water or moisture.
- Store Cuplas in a shaded, dry and well-ventilated place.
- Do not to drop Cuplas. It will deform or damage Cuplas.
- If Cuplas are stored or not being used for a long period of time, check their appearance, function and performance before use.

Semicon Cupla SCF Type (See page 124)

How to install a tube to the socket

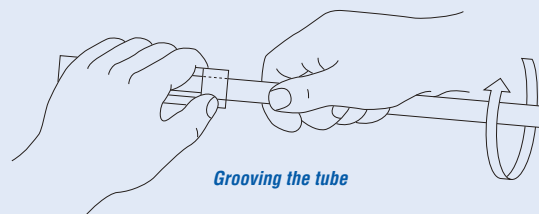
1 Cut the tube

Cut the tube (PFA) as shown below with a box-cutter or a knife.



2 Groove the tube

Insert the tube completely into the special jig (see the below figure.) and keep the jig's cutter blade pressed down while the tube is rotated about one and a half turns. It will give you a complete groove on the tube which is good for a ferrule mount. Special jigs to suit different tube sizes are available as indicated below.



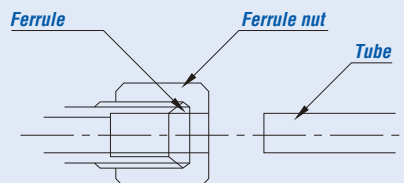
Special jigs

Socket type	Tube size	Jig Model No.
SCF-2SL-N08	ø8 x ø6	T-8
SCF-3SL-N10	ø10 x ø8	T-10

Please contact us for purchasing the jigs.

3 Inserting the tube

Insert the grooved tube firmly into the Cupla. In this procedure, be careful not to take out the ferrule nut.



Note Ferrule position (taper facing towards Cupla)

4 Tightening the nut

After lightly tightening the ferrule nut with your fingers, turn it another one and a half turns with a spanner. Be careful not to overtighten.