

TC3-B type

TC3-S type

# TOYOCONNECTOR® Handling Manual

Be sure to read this manual before using the connector.

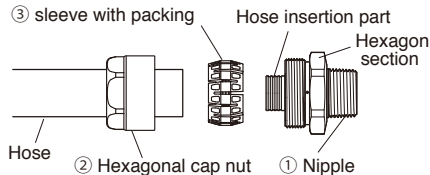
**Warning** : A potentially hazardous situation which could result in death or serious injury.

This is an explanation of the "correct use" of TOYOCONNECTOR. Similar to individually sold hoses, please be aware of the restriction on use and follow the warnings below. Failure to observe these could result in injury or property damage.

## Names of parts ( materials )

### Materials

type	parts	materials
TC3-B Type	① Nipple	Brass ( Compliant with corrected RoHS2 regulations )
	② Cap nut	Brass ( Compliant with corrected RoHS2 regulations )
	③ Sleeve with packing	Polyacetal ( Packing : NBR )
TC3-S Type	① Nipple	SCS13 ( SUS304 equivalent )
	② Cap nut	SCS13 ( SUS304 equivalent )
	③ Sleeve with packing	Polyacetal ( Packing : NBR )



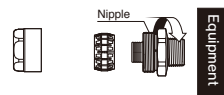
## Before fitting

- When cutting a hose, please make sure that the edge face of the hose will become square-on.
- Make sure that the hose is inserted completely into the root of the hose insertion part.
- Warning** Tighten the hexagonal cap nut completely. If the nut becomes loose, the hose may become detached and liquid may leak.
- Do not use a blade to cut the hose insertion part or sleeve with packing.
- After attaching the hose, make sure that the hose has not become detached and fluid does not leak at the connector.
- Be sure to set the packing in the sleeve and use it.
- Use an " Adjustable ( Power ) Wrench " for tightening the nuts. Do not use a " Pipe Wrench ". It may damage hexagonal cap nuts.
- Take care to avoid injury from the sharp edges of the connector.

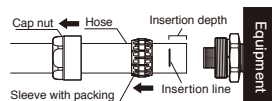
## How to fit TOYOCONNECTOR

\* The same mounting instruction applies to all hoses.

- First, attach a nipple ① to the equipment / machine.



- Pass a hexagonal cap nut ② through the hose and put the TC3 type sleeve with packing ③ on the hose. By drawing a line on the hose according to the " hose insertion depth " table below beforehand, you can insert the hose appropriately.

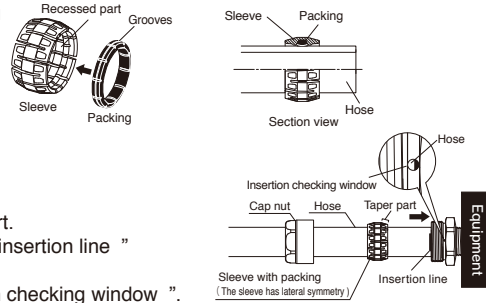


\* Fit the sleeve with the packing attached. If the packing comes off from the sleeve or becomes twisted, refit the packing with its outer circumferential grooves facing outwards to the recessed part of the sleeve as shown in figure 1.

### Appropriate hose insertion depth

TOYOCONNECTOR Code		mm
TC3-B9	TC3-S9	13
TC3-B12	TC3-S12	13
TC3-B15	TC3-S15	13
TC3-B19	TC3-S19	14
TC3-B25	TC3-S25	17

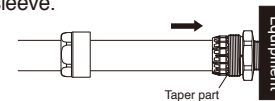
Figure 1



- Insert the hose into the nipple hose insertion part.
  - \* Make sure that the hose is inserted up to " insertion line " when viewed edge-on.
  - \* This can be checked through the " insertion checking window ".

- Push in the taper part of the sleeve.

\* Please push the sleeve so that it is not inclined.



- As shown in Fig. 2, secure the hexagonal part of the nipple ① with another " monkey ( motor ) wrench, " and tighten the hexagonal cap nut ② completely. Tightening the nipple without securing it may cause the nipple to turn at the same time and break the thread for the piping.

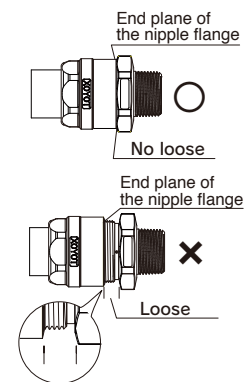


\* **Warning** Tighten the hexagonal cap nut completely until it touches the flange of the nipple to prevent the hose from becoming detached and the fluid from leaking.

## Notes for use



- This product is a hose connector dedicated for TOYOX hoses. TOYOX is not liable for any damages caused by using TOYOCONNECTOR with any other hose including those produced by TOYOX as well as those by other manufactures as full performance may not be achieved or maintained.
  - \* Hose compatibility depends on the connector. Confirm through the catalog or the homepage.
- Use TOYOCONNECTOR within the operating temperature and pressure ranges of the applicable hose.
- Do not use a hose that is extremely bent near a connector. The bend radius of a hose should be larger than its minimum bend radius.
- Do not use the hose where there is vibration or shock. It may cause the connector to break or the hose to become detached.
- Not suitable for sanitary piping, as there is a bump in the screw section.
  - \* There is a danger of food hygiene problems occurring.
- Perform periodic inspections to make sure that the hose does not become detached and the fluid does not leak at the connection during use period of the hose.
- Do not allow anything other than the inner surface of the couplings or hose to come in contact with fluids, because the fluids may permeate the hose reinforcement layer or remain inside the couplings, and bacteria may propagate (attach to the parts) or the hose may deteriorate. Also, dust, hose fragments (reinforcement material) and ink adhering to the outer surface may be mixed in.



## Notes for Connector Reuse and Hose Replacement



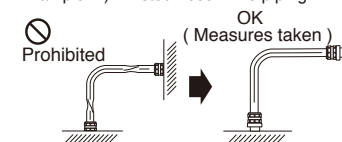
- When reusing this product, make sure that each of its components is not damaged prior to use. Be sure to replace the sleeve with packing.
- Please make sure to use a brand-new hose.
- Before replacing a hose, always make sure to remove the fluid and dirt on the connector surface. Fluid and dirt remaining on connector may possibly cause fluid leakage and hose loosening.

## Warning

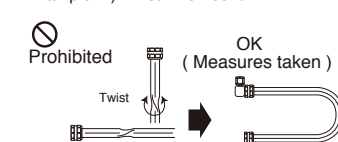


- The material of fluid path (interior) of this product uses brass for TC3-B and SCS 13 (SUS 304 equivalent) for TC3-S. Phenomena such as corrosion or fluid leaks may occur depending on the type of fluid. Before use, be sure to check data ( refer to data on chemical resistance in the catalog or on the homepage ) Please also make similar checks for fluid contact with the outer surface of connector.
- Do not use hoses when they are twisted. Partially twisted hoses are also a danger as they may cause internal structural damage leading to a " Burst ". Follow the examples below to take preventative measures.

Example 1 ) Twisted hose while piping



Example 2 ) Twist when bent



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