

TC2-B type

TC2-S type

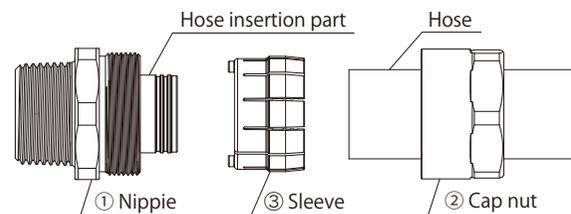
# TOYOCONNECTOR® LIGHT Handling Manual

**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
TC2-B Type	① Nipple	Brass ( Compliant with corrected RoHS2 regulations )
	② Cap nut	Brass ( Compliant with corrected RoHS2 regulations )
	③ Sleeve	Polyacetal
TC2-S Type	① Nipple	SUS304
	② Cap nut	SUS303
	③ Sleeve	Polyacetal

## Before fitting

- The threads of the cap nut (TC2-S19, 25) are coated with a lubricant (extreme pressure grease) that is NSF H1-registered (permissible in locations where accidental contact with food is possible).
- Cut a hose so the end of the hose will be perpendicular.
- Please secure enough length of the hose so as to avoid bending stress on the hose near the connector.
- Warning** When inserting hoses, never put grease on the hose insertion part. It would be a cause of hose being pulled out.
- Do not cut the hose insertion part or sleeve in place with a knife or the like.
- Make sure that the hose is inserted completely into the root of the hose insertion part.
- Use an adjustable wrench or an open-ended wrench to tighten the cap nut.  
Do not use a " Pipe Wrench ". It may damage hexagonal cap nuts.
- Do not drop or subject the product to impacts to prevent scratches.  
If the product is deformed in any way, stop use immediately to prevent fluid leakage.
- Take care to avoid injury from the sharp edges of the connector.
- After attaching the hose, make sure that the hose has not become detached and fluid does not leak at the connector.

## 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.
- Hoses usable under negative pressures may not be applicable depending on applications and conditions ( temperature, movement, etc. ).
- Not suitable for sanitary piping, as there is a bump in the screw section.
- Warning** Do not assemble or disassemble the connector while fluid is in the hose because the hose may become loose and the liquid will leak.
- 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.
- Warning** Never use TC2-B, TC2-S for the below applications.  
Connector damage, hose rupture, and hose detachment may occur.
  - For piping such as electromagnetic valve piping, which would put impact pressure on the piping.
  - Where vibration or impact will be applied to the connector.
  - Where constant tensile stress may be applied to the hoses
  - In a way that may cause static buildup ( There is a danger of electrical shocks. )
- 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 and hose fragments (reinforcement material) to the outer surface may be mixed in.



## Notes for Connector Reuse and Hose Replacement

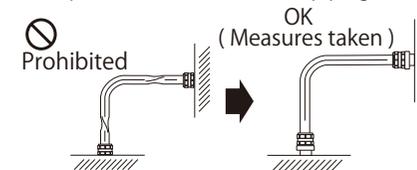
- When re-using TOYOCONNECTOR, please confirm that each part is intact before use. Please make sure to replace the sleeve.
- When reusing a TOYOCONNECTOR, please be sure to use a new hose.
- Before replacing a hose, always make sure to remove the fluid and dirt on the connector surface. Fluid and dirt remaining on connector may possibly cause fluid leakage and hose loosening.
- Once the hose has been used, disconnecting it from the nipple may be difficult. Be mindful of your surroundings when disconnecting the hose as using excessive force may cause you to lose your balance.
- Do not damage the hose insertion area if using a knife or the like when replacing the hose. Any damage may result in fluid leakage.
- If the hose and coupling need to be removed for assembly testing or trial operations, the hose and sleeves can be reused up to three times so long as they are used at room temperature for no more than 24 hours at a time.



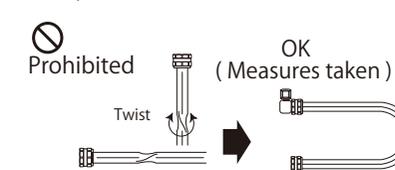
## Warning

- The material of fluid path (interior) of this product uses brass for TC2-B and SUS304 for TC2-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



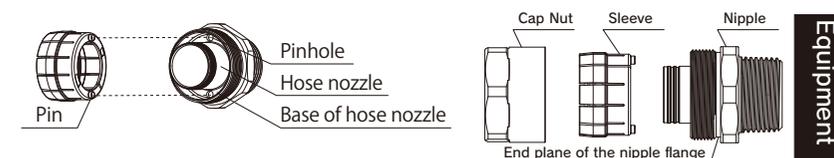
Example 2 ) Twist when bent



## How to fit TOYOCONNECTOR

※ The same mounting instruction applies to all hoses.

- After attaching the nipple to the equipment, install the sleeve pin by aligning it with the pin hole on the nipple.

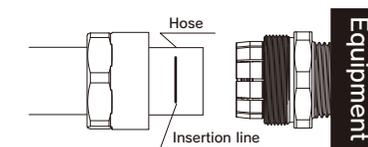


- Insert the hose into the cap nut.

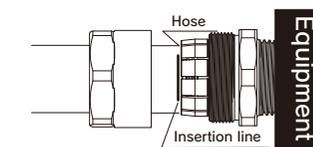
To ensure the hose is inserted properly, mark the hose in advance with a line at the appropriate insertion amount according to the table on the right.

Appropriate hose insertion depth

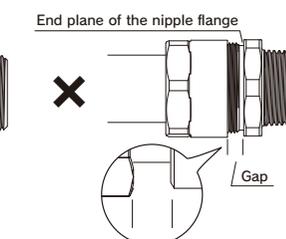
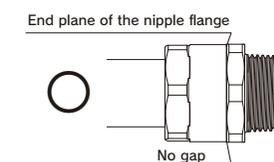
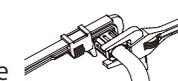
TOYOCONNECTOR Code	mm
TC2-B9 TC2-S9	13
TC2-B12 TC2-S12	17
TC2-B15 TC2-S15	17
TC2-B19 TC2-S19	19
TC2-B25 TC2-S25	21



- Insert the hose to the base of the hose nozzle on the nipple. Verify that the hose has been inserted up to the insertion line when viewed from the side.



- Use tools to secure the hexagonal part of the nipple as shown in the figure on the right, and ensure there is no gap when the cap nut is tightened.



**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.

**Warning** Tightening the nipple without securing it may cause the nipple to turn at the same time and break the thread for the piping.

Connect to the Future  
**TOYOX**

**TOYOX CO., LTD.**  
<https://www.toyox.co.jp>