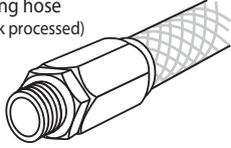


Hose fittings

Kantouch Operation Manual

TH/JH/THJ

[Application] • Blade hose
• Spring hose
(Sealing tape, sealock processed)



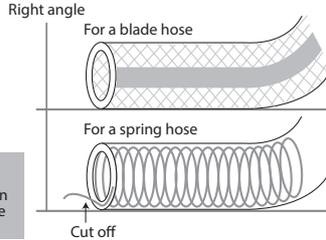
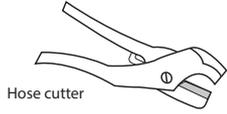
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Overview

Kantouch is a hose fitting for liquid piping. Instead of a hose band, the double lock structure and the cap nut method are used to prevent the hose from slipping out. Because the hose is fixed with a nut, anyone can connect the hose firmly and safely. Because Kantouch has a structure of separating the hose insert (insert sleeve) and the fitting body, maintenance can

Preparation and cutting of the hose to be connected

- By using a hose cutter, cut the hose at right angles to the axis direction.



CAUTION

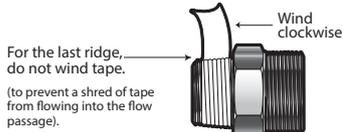
Cut off the excess spring from the base of the cross-section of the hose with a nipper or the like. Take care not to injure your finger tip.

Installing on a hose and incorporating it into the device

- (1) Perform preprocessing such as winding sealing tape around R-threads of the body in advance.

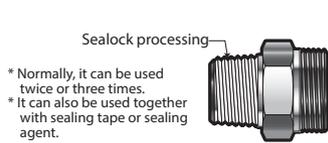
Sealing tape processing

Wind sealing tape only around R-threads.



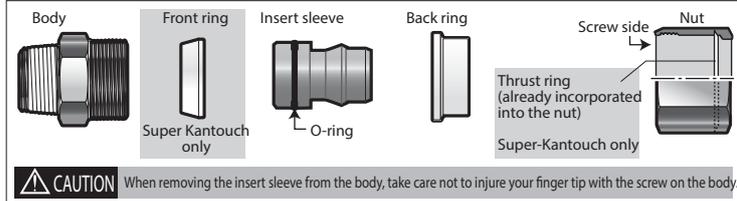
Sealock processing (fluorine resin coating)

The screw itself has a sealing function.



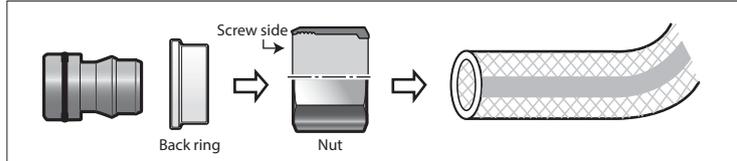
* Normally, it can be used twice or three times.
* It can also be used together with sealing tape or sealing agent.

- (2) Disassemble the assembled Kantouch hose fittings.



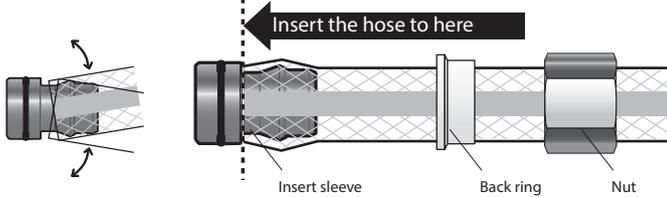
CAUTION When removing the insert sleeve from the body, take care not to injure your finger tip with the screw on the body.

- (3) Insert the nut and back ring into the hose to be used in this order.



- (4) Inert the hose into the insert sleeve.

- Separate the back ring from the end of the hose. (so that the hose can be inserted into the insert sleeve easily).
- To insert the hose into the insert sleeve, place the end face of the hose on the insert sleeve obliquely and push it into the insert sleeve while swinging it to right and left to cover the outer diameter section of the insert sleeve.

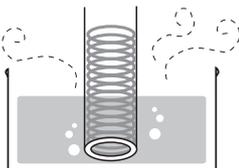


- Point** Blade hose
By applying water inside the hose, the hose slides more easily.

CAUTION It is strictly prohibited to apply grease or other types of oil.

- Point** Spring hose
By immersing the end of the hose in hot water of about 60 degrees C, the hose becomes more flexible so that it can be inserted more easily.

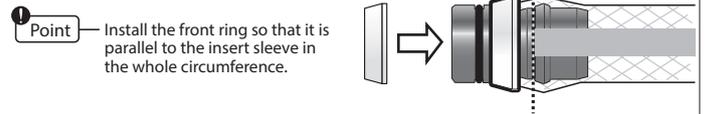
CAUTION Because the hose gets hot, take care not to burn.



For Super Kantouch

- (5) Push the front ring over the hose into which the insert sleeve is inserted.

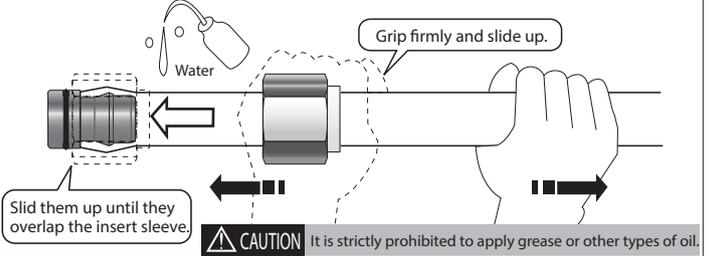
- When installing the front ring over the hose, push it as much as possible until it reaches the front of the protrusion of the insert sleeve.



CAUTION Install the front ring with the larger diameter side facing toward the insert sleeve.

- (6) Engage the nut and the back ring and slide them toward the insert sleeve by gripping them as a whole.

- If they do not slide smoothly, apply water on the hose on the front side of the back ring.



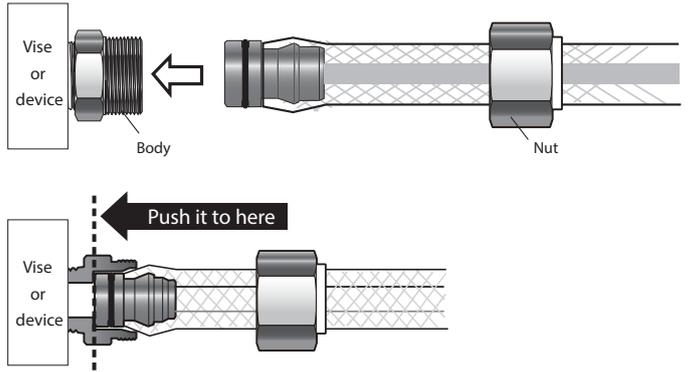
CAUTION It is strictly prohibited to apply grease or other types of oil.

- (7) Screw the body into the device main body or fix it to the vise, and insert the hose into it.

- Insert the insert sleeve until its end face hits the inside of the body. Perform this operation with the nut separated from the end face of the hose.

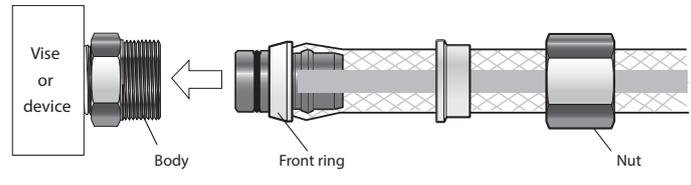
- Point** By applying a small amount of water around the O-ring, the hose can be inserted more easily.

CAUTION It is strictly prohibited to apply grease or other types of oil. Take care not to damage the O-ring during work. Doing so cause water leakage.



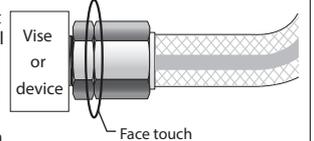
For Super Kantouch

- Insert the hose as much as possible until the front ring touches the body.



- (8) Fasten the nut to the body and installation is completed.

- Fasten the nut to the body manually. After the nut does not move, fasten the nut until the hexagonal end face of the body touches the end face of the nut (face touch) by using a spanner.
- If the hose co-rotates, follow the procedure in "Countermeasures against twisting of the hose" in Caution on Handling Kantouch.



* If you have any question about maintenance, contact us.
We are not liable for any failure due to dismantling or disassembly of the product.

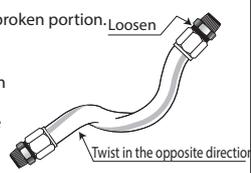
Caution on handling of Kantouch

- Hoses are significantly affected by ambient and liquid temperatures. Use a hose suited for the temperature and liquid.
- When connecting a hose, a load should not be applied to the Kantouch hose fitting directly and the weight of the hose should not be supported only by the hose fitting. Do bend the hose below its minimum bend radius during use. Doing so may lower its performance, shorten its product lifetime, and cause leakage or other trouble.
- When attaching a hose to the Kantouch hose fitting, pay attention to the following.
 - Because a hose contracts due to internal pressure, allow for a margin when installing it.
 - When installing a hose, avoid bending the Kantouch section too much. Doing so may cause early
- When installing a hose, take care not to apply an impact on the hose and not to place it under a heavy object. For a place that is in contact with hard objects such as metal and concrete and a place that is rubbed by other objects due to vibration and bending, protect the hose with cushioning material, protecting material, or springs.
- If the Kantouch hose fitting is used for a device that is subject to vibration or impact, perform maintenance and replace the hose periodically without using it at the upper limit of the maximum operating pressure.

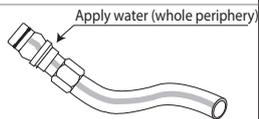
⚠ Before using a hose, make certain that there is no twisted or broken portion. Loosen

[Countermeasures against twisting of the hose]

Method 1 If there is no problem even if the hose is twisted, fasten the hose with a spanner in this state. After the nut touches the hexagonal section of the body, loosen the nut, correct the twisting of the hose, twist it in the opposite direction, and tighten the nut again.



Method 2 With the nut separated from the back ring, apply a small amount of water on the tapered portion of the back ring and tighten the nut.



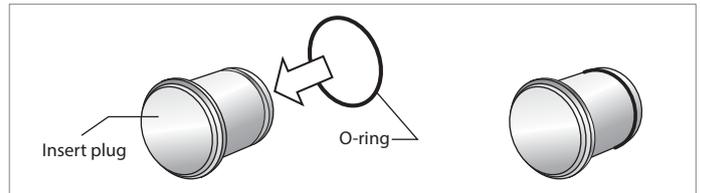
If the twisting phenomenon occurs, correct it in the following work method.

- After the operation of Steps 1 to 7 in this manual is completed, loosen the nuts (of the fittings on both sides).
- Installation on the device.
 - For one side, install the Kantouch hose fitting as described in this manual.
 - For the installation of the other side, tighten the Kantouch hose fitting while allowing for a margin of the twisted portion and twist it in the direction opposite to the tightening direction (once or twice).
 - Fix the hose firmly and tighten the nut.

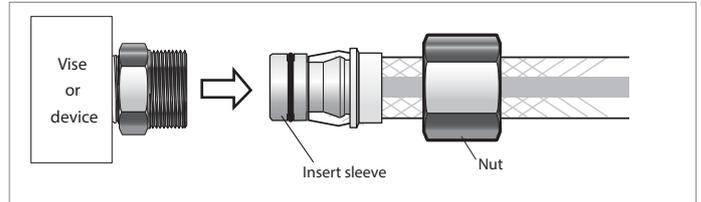
* In either case, firmly stop the rotation by hands so that the hose is not twisted.

[Option] Procedure for installing an insert plug

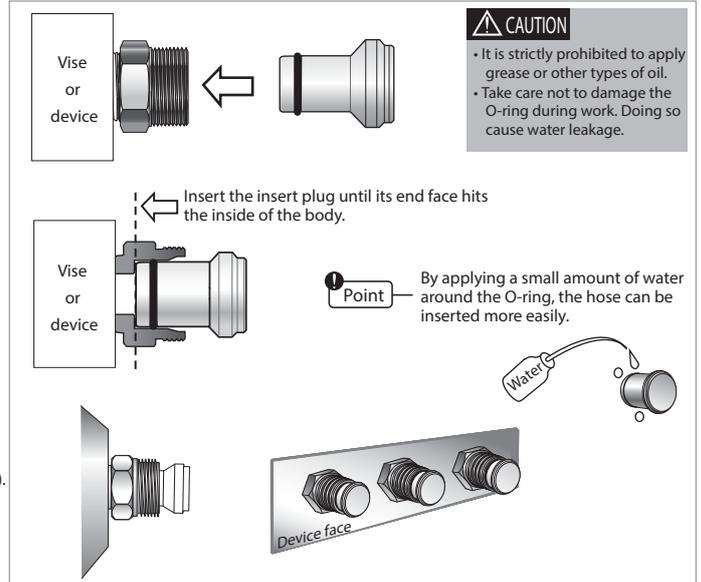
- Install an O-ring on the groove.



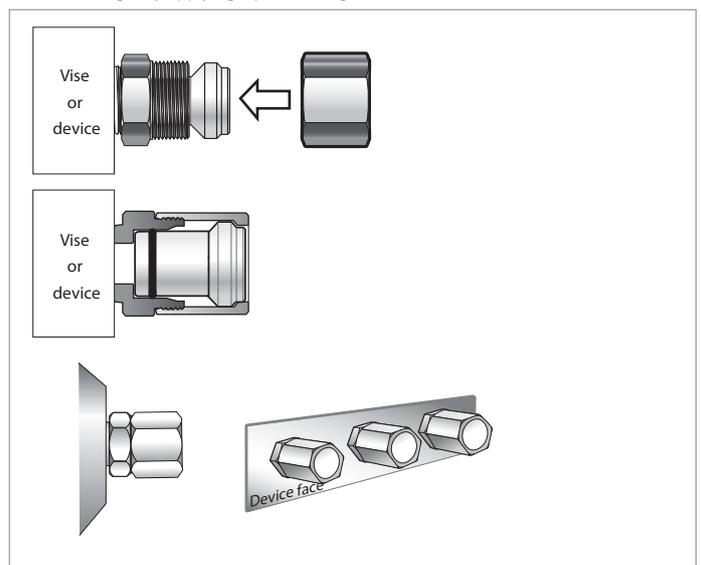
- When the Kantouch hose fitting is already installed, loosen the nut and remove the hose piping together with the insert sleeve.



- Insert the insert plug into the body of the Kantouch hose fitting.



- When using it by applying a pressure, tighten the nut.



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