

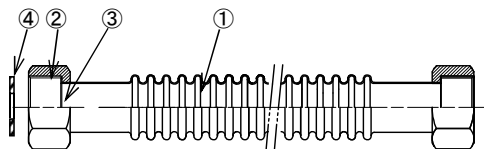
Installation Manual for the Flexible Tube

WONDER TUBE with C3771BD (C3604BD) Nut with CAC406 Nut type R with heat shrinking rubber
WONDER BRAID with C3771BD (C3604BD) Nut with CAC406 Nut
FREE TUBE with C3771BD Nut type T
COPPER TUBE Galvanized Nut with heat shrinking rubber



Installation Procedure

1. Before installation



The shape of WONDER TUBE with C3604BD Nut

Table1 Parts List

No.	Name	Material
1	Tube	Stainless steel 316 low carbon
2	Nut	Brass
3	Ring sheet	PTFE
4	Packing	Joint sheet without asbestos

- Please confirm whether the diameter is correct.
- Please confirm whether the gasket is included.
- Please confirm whether there is any damage of tube and sealing surface.

2. Installation

- ① Bent the tube in predetermined form.

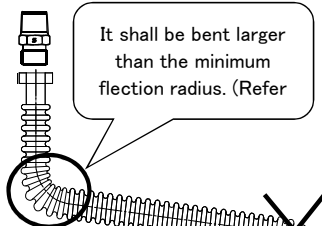


Table2 The minimum flexion radius

Diameter	The minimum flexion radius (mm)
1/2"	45
3/4"	60
1"	75
1 1/4"	96

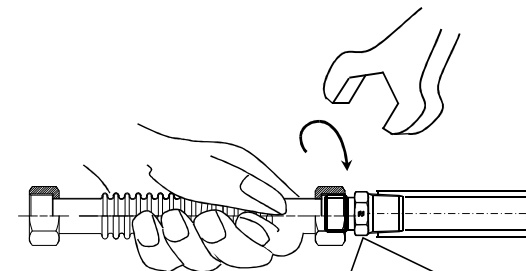
In case of Wonder Tube, do not bend the 3 of bellows from the strait pipe end.

⚠ Please avoid a partial bend, and make it in predetermined form not to add excessive power such as pulling, compression, twisting and creasing.

- ② Please confirm the gasket is fitted and set the nut in the piping side screw. The nut shall be tightened by hands.
- ③ The other side shall be attached similarly.

3. Tightening of the nuts

- ① Hold the tube by hand not to move and tighten the nut by hand. After that, use a spanner and turn it approx. 1/4~1/3 rotation not to twist the tube.



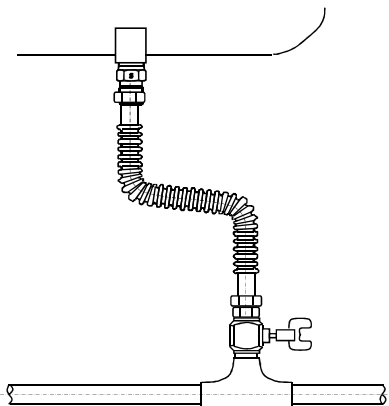
Please be careful of not to turn the nipple or valve of a connection together with the tube.

When you use a torque wrench, please tighten with the standard torque value of Table3.

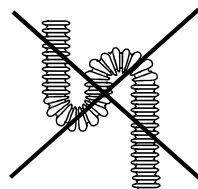
Table3 Standard Torque

Diameter	Torque	
	N·m	(kgf·cm)
1/2"	19.6	(200)
3/4"	24.5	(250)
1"	29.4	(300)
1 1/4"	34.3	(350)

Completion



Bad example of bending
(The flexible tube is too long.)



NOTES

- 1) Where the water hammer generate in the piping system, the flexible joint might be damaged. Please do appropriate impact prevention measures. Moreover, please do the fixation of piping connected both side of flexible tube properly at near the flexible tube.
- 2) Please carry out the welding work of the piping before the attachment of our product. If you have to carry out the welding work after attaching the piping, please earth the welding properly, also put a protective cover around our product so that the welding current does not flow into the piping system.
- 3) Please select the piping diameter not exceed 3m/s of flow velocity. (inside diameter base)
- 4) Please use the Zsi or ZTF series (fluoro-resin made) about the fluid that is corrosive for the stainless steel.
- 5) Please be careful of not to twist the product when the nut is tightened. It will be a cause of shortening the life time of the product.