

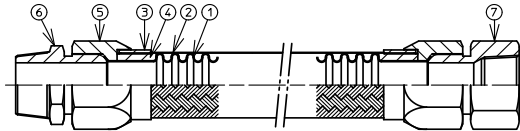
# Installation Manual for Flexible Joint (Metal Sealing Type)

Z-13000 Z-13000NW (Non-welding Type)



Installation Procedure

## 1. Before Installation



dwg 1 assembly drawing

Table1 Part List

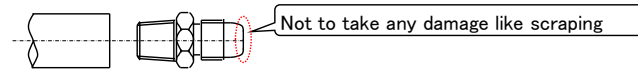
No.	Name	Material
1	Bellows	Stainless Steel 304
2	Braid	Stainless Steel 304
3	Fixing ring	Stainless Steel 304
4	Sleeve	Stainless Steel 304
5	Nut	Stainless Steel 304
6	Male adaptor	Stainless Steel 304
7	Female adaptor	Stainless Steel 304

Adaptor type is based on customer's request.

- Check whether both adaptor type and size are fitted against to pipe end.
- Confirm not to exist any defect or farm on adaptor face and nut inside face.

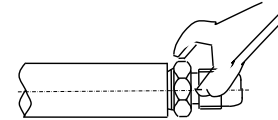
## 2. Installtion Check Point 1

- ① Get adaptor out of product, and wrap teflon sealing tape on its screw part.  
(Warning) Pay much attention not to take any damage on metal sealing area.



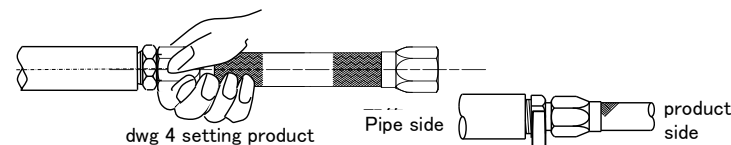
dwg 2 adaptor

- ② Set adaptor in pipe socke, and tighten sufficiently it by spanner.



dwg 3 fixing adaptor to pipe socket

- ③ Preliminary tightening : Set product into adptor and tighten nut under manual power.



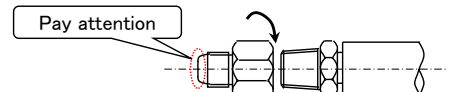
dwg 4 setting product

- ④ Final Tightening :  
With holdinging adaptor by spanner as shown in drawing, and tighten nut by spanner sufficiently.

dwg 5 final tightening

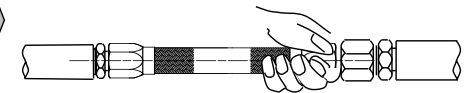
## 3. Installation Check Point 2

- ⑤ For opposite side, do as same as ① and ②.



dwg 6 setting opposite adaptor

- ⑥ When set prduct end at adaptor, pay attention not to contact on adaptor top face as drawing 5.



dwg 7 setting product

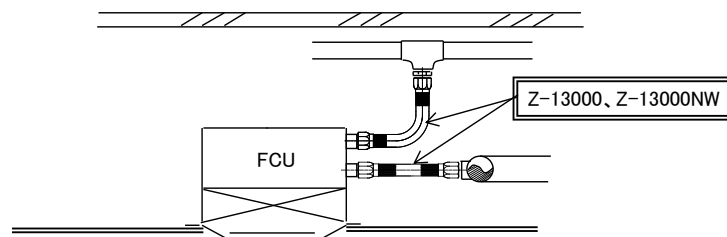
- ⑦ At first tighten nut by only hand power, and make final tightening nut by spanner.

In case of tightening by torque apanner, please refer the recommended torque vluue in each size.

Recommended Torque Value

Size	Torque Value
10A	60 N·m
15A	70 N·m
20A	90 N·m
25A	115 N·m

## Installation Sample



## NOTES

- 1) Where the water hammer generate in the piping system, the flexible joint might be damaged.  
Take appropriate impact prevention measures.
- 2) Carry out the welding work of the piping before installing the flexible joint. If you have to carry out the welding work after installing the flexible joint, take ground the welding electricity, also put a protective cover around the flexible joint so that the welding current does not flow into the piping system.
- 3) Please select the pipie size not to exceed 3m/s of flow velocity. (inside diameter base)
- 4) In case of corrosive fluid for stainless steel, ZTF series products (fluoro-resin bellows) are recommended
- 5) Twisting product may cause serious damage in operation.  
So, when make final tightening nut, pay much attention not to twist the flexible joint.