

# Installation Manual for the Flexible Joint (Flange Connection)

Z-2000NW

 **ZENSHIN**

## Installation Procedure

### 1. Before installation

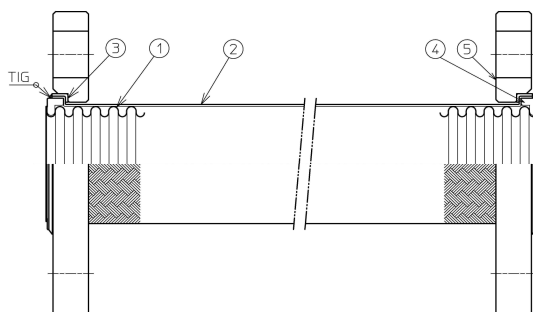


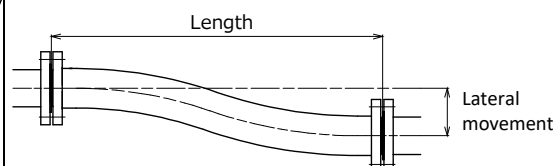
Table1 Parts List

No.	Name	Material
1	Bellows	Stainless steel 304
2	Braid	Stainless steel 304
3	Ring cover	Stainless steel 304
4	Split ring	Forged steel
5	Loose flange	Carbon steel

- Please confirm whether the diameter is correct.
- Please confirm whether there is any damage of sealing surface.

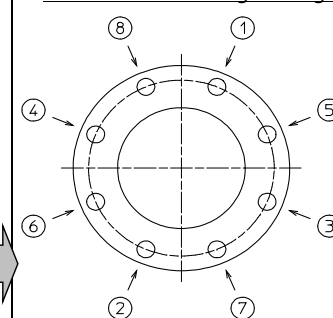
### 2. Installation

- ① Please Install the gasket so that it does not shift from the sealing surface. Also, be careful not to damage the sealing surface during installation.
- ② Please insert the set bolt toward the piping side from the product side.
- ③ Please confirm whether the lateral movement of piping is within the allowable range.



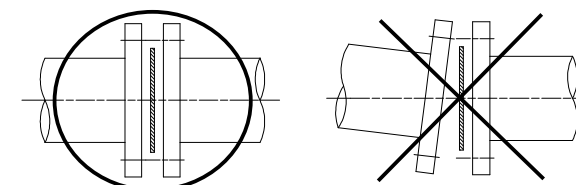
### 3. Tightening of the bolts

The order of bolt tightening.



- ① Please tighten the bolts diagonally and equally.
- ② Please tighten the opposite side of flange with same way.
- ③ When you use the bolt and nut made of stainless steel, please apply lubrication.

⚠ Please confirm whether the flange face is parallel before tightening.



⚠ Please note that over-tightening or one-sided tightening of bolts may cause leakage.

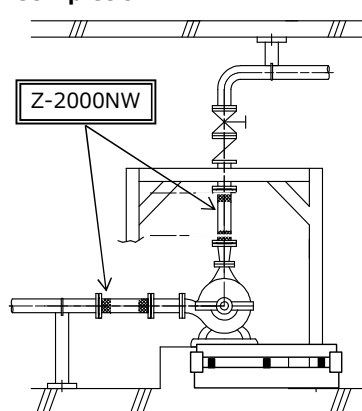
### Mounting bolt length

Size	Bolt Length
15A	M12×50mm
20A	M12×55mm
25A	M16×55mm
32A	M16×60mm
40A	M16×60mm
50A	M16×60mm

### Tightening Torque(recommended)

Size	Torque(N · m)
15A ~20A	30 ~ 40
25A ~40A	50 ~ 60
50A	70 ~ 75

### Completion



### NOTES

- Where the water hammer generate in the piping system, the flexible joint might be damaged. Please do appropriate impact prevention measures.
- Please 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.
- Please select the pipe size not to exceed 3m/s of flow velocity. (inside diameter base)
- In case of corrosive fluid for stainless steel, ZTF series products (fluoro-resin bellows) are recommended.
- Please note that over-tightening or one-sided tightening of bolts may cause leakage.
- Please use general commercially available gaskets for joint sheet type gaskets. (Thickness: 3.0 mm)
- PTFE wrapped gaskets cannot be used.
- Please use expanded graphite-based joint sheets for steam piping. (Thickness: 3.0 mm) Please contact us if you wish to use spiral wound gasket.