

Installation Manual for the Flexible Joint (Flange Connection)

Z-3000



Installation Procedure

1. Before installation

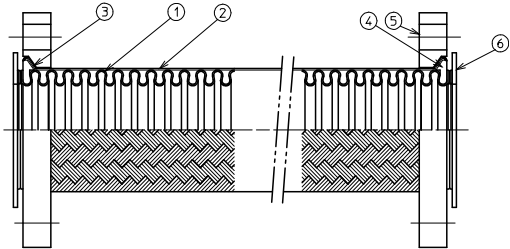


Table1 Parts List

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
6	Gasket	Joint sheet without asbestos

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

2. Installation

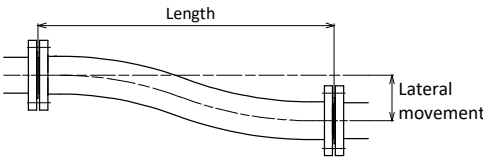
- ① Please Install between the piping flanges not to move the gasket from the sealing surface and not to damage the sealing surface.



Please use our genuine gaskets when you connect it.

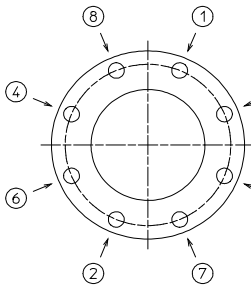
- ② Insert the set bolt toward the piping side from the product side.

- ③ Confirm whether the lateral movement of piping is within the allowable range.



3. Tightening of the bolts

The order of bolt tightening.



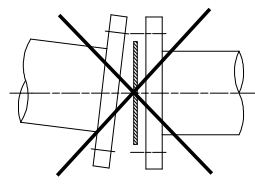
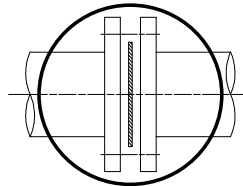
- ① Please tighten the bolts diagonally and equally.

- 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.



The sealing surface of this product forms by 2 layers of compressed bellows. Note that too much tightening and/or uneven tightening of bolts might cause leakage.

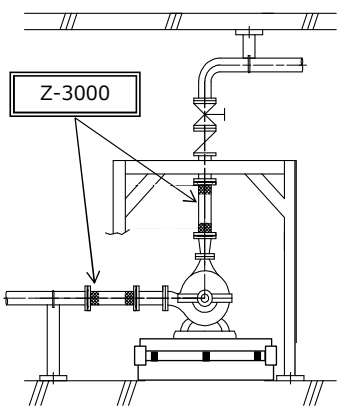
Mounting bolt length

Size	Bolt length
20A	M12×55mm
25A	M16×60mm
32A~50A	M16×65mm
65A~100A	M16×70mm
125A	M20×75mm
150A~200A	M20×80mm
250A~300A	M22×85mm

Tightening Torque(recommended)

Size	Torque(N · m)
20A ~40A	50 ~ 80
50A ~100A	80 ~ 100
125A ~150A	140 ~ 180
200A ~300A	160 ~ 200

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.
- Due to the special dimensions of the gasket sealing surface, there is a risk of leakage with gaskets of commercially available dimensions. Be sure to use the attached genuine gasket.
- Insert mounting bolt from product side and tighten bolts evenly in diagonal line order.
- Non asbestos joint gasket that normally attached on sealing face is not applied for steam line. Please use our steam gaskets for steam line. (Spiral wound gasket)