

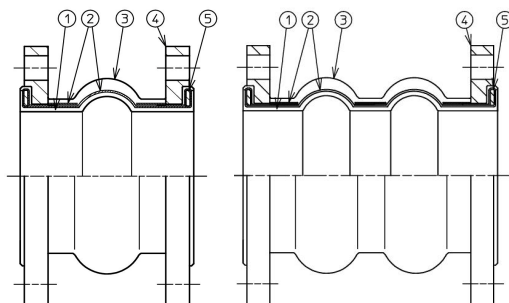
Installation Manual for the Rubber Expansion Joint

ZRJ-E1 · ZRJ-E2



Installation Procedure

1. Before installation



The shape of ZRJ-E1

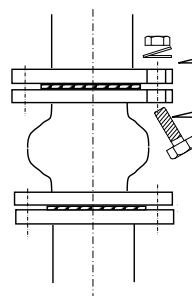
The shape of ZRJ-E2

Table1 Parts List

No.	Name	Material
1	Inner Layer Rubber	Synthetic rubber
2	Reinforcement fiber	Nylon cord
3	Outer Layer Rubber	Synthetic rubber
4	Flange	Carbon steel
5	Solid Ring	Carbon steel

- Please confirm whether the diameter is correct.
- Please confirm whether there is any damage of sealing surface.
- Please confirm whether there is any damage of inside and outside of rubber.

2. Installation



Please use a spring washer.

Please insert the set bolt from this side.

Table 2 Length of bolt

Size	Bolt size×Length
20A	M12×50mm
25A~40 A	M16×55mm
50A~100 A	M16×65mm
125A	M20×70mm
150A~200 A	M20×75mm
250A~300 A	M22×80mm

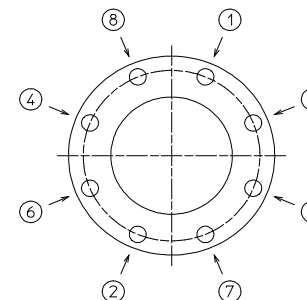
- ① Before installation, please wipe off the dust of the piping side flange and a rubber body seal side with a rag etc., check that there are no foreign substances, and set the product between the piping flanges.

- ② Please insert the set bolt toward the piping side from the product side. Moreover, in order to prevent the loosening of the nut, please use a spring washer.

※ Depending on the product specifications (negative pressure, buried) or diameter size, bolts may not be inserted from inside the product. In such cases, insert the bolts from the piping side. In this case, be careful that the tip of the bolt does not interfere with the product.

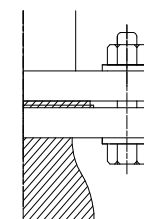
3. Tightening of the bolts

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 refer to the tightening torque values in Table 3.



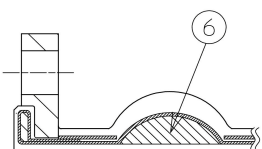
⚠ Please confirm whether the flange face is parallel before tightening.

Table3 Tightening torque

Size	Torque
20A	25N · m
25A~100 A	30N · m
125A~150 A	40N · m
200A~300 A	45N · m

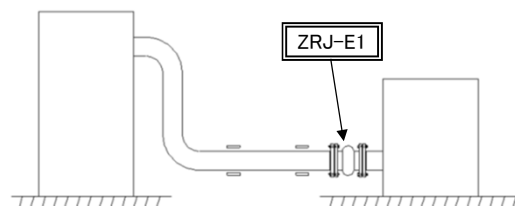
Special note

40A and below are flat on the inside surface.



⑥ Plugging rubber (synthetic rubber)

Completion



NOTES

- Insert set bolt from product side and tighten bolts evenly in diagonal line order.
- The service life of rubber fittings may be reduced depending on the conditions of use. For details, please refer to the precautions in the catalog.
- When used in outdoor piping, take measures such as hanging a cover to prevent deterioration of the rubber due to ultraviolet rays.
- For oils, fats, organic solvents, acids, alkalis, etc., use ZTF-5000 (made of fluoroplastic).
- 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.
- If the piping is not sufficiently fixed, the piping system may resonate and not absorb expansion, contraction, or displacement, so please make sure that the piping is sufficiently fixed.
- Cannot be used for hot water supply piping. If there is a possibility that the temperature may exceed the operating temperature range, use SUS expansion joints or ZTF-5000.