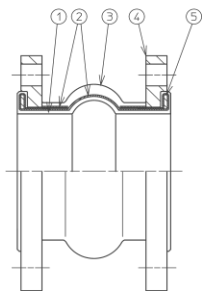


1. Product



The shape of ZRJ-E1

Table1 Parts List

No.	Parts Name	Material
1	Inner Layer Rubber	Synthetic rubber
2	Reinforcement fiber	Synthetic fiber
3	Outer Layer Rubber	Synthetic rubber
4	Flange	Carbon steel, Stainless Steel 304
5	Solid Ring	Carbon steel

- Please confirm the diameter is correct.
- Please confirm there is no damage of sealing surface.
- Please confirm there is no damage of both inside and outside of rubber.

2. Installation

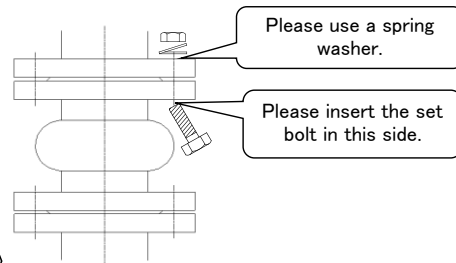


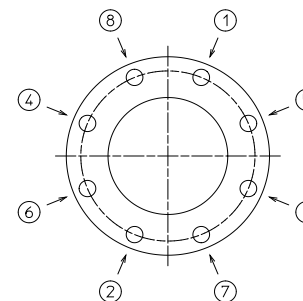
Table2 Length of bolt

Diameter	Bolt Diameter x Length
20A	M12x50mm
25A~40A	M16x55mm
50A~100A	M16x65mm
125A~200A	M20x75mm
250A~300A	M22x90mm

- 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.

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 paste lubrication on it.

Please refer to the value of Table 3 for the tightening torque that becomes the standard of tightening.

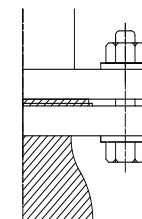
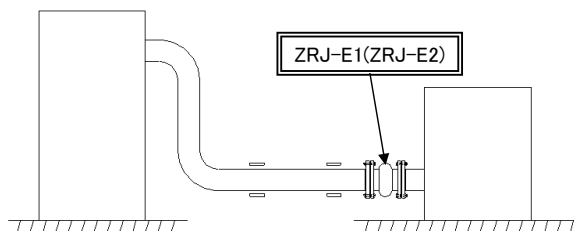


Table3 Tightening torque

Diameter	Tightening torque
20A	25N·m
25A~40A	30N·m
50A~100A	30N·m
125A~200A	40N·m
250A~300A	45N·m

Please confirm whether the flange face is parallel before tightening.

Completion



NOTES

- 1) Please fix piping firmly like the left drawing in order to work function of expansion joint sufficiently.
- 2) Welding pipe line should be carried out before installation of the product.
If not, please make sure to ground to prevent from turning electric current into product and also to put a protective cover around the product.
- 3) If you use the product for corrosive fluid against to EPDM rubber like oil, fats, solvent, acid and alkali, ZTF-5000 (made of fluoro-resin) shall be recommended.
- 4) Please make sure to use within the temperature range from -10°C to +80°C.
If you have temperature risk out of this range, stainless steel expansion shall be recommended.