

1. Product

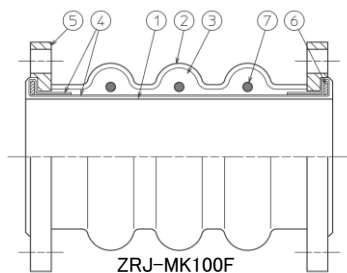


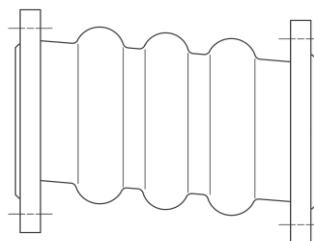
Table1 Parts List

No.	Parts name	material
1	Inner Layer Rubber	Synthetic rubber
2	Outer Layer Rubber	Synthetic rubber
3	Plugged rubber	rubber
4	Reinforcement fiber	Nylon fiber
5	Flange ※1	Carbon steel Stainless steel 304
6	Solid ring	Carbon steel
7	Reinforcement ring	Carbon steel

※1. Hot dip galvanizing and Epoxy resin painting is applied for carbon steel flange.

- 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



100mm···ZRJ-MK100F(3 Sphere)  
200mm···ZRJ-MK200F(4 Sphere)

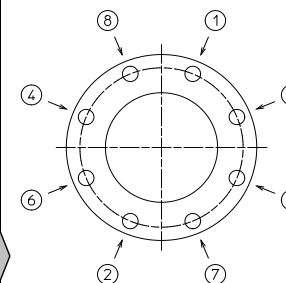
- ① Before installation, please wipe off the dust of the piping side flange and a rubber body seal side with a rag etc., check that there are no foreign substances, and set the product between the piping flanges.
- ② Please insert the set bolt toward the piping side from the product side. Moreover, in order to prevent the loosening of the nut, please use a spring washer.

Table 2 Set bolt length

Size	Bolt x length
20A	M12x60mm
25A~50A	M16x65mm
65A~100A	M16x70mm
125A~200A	M20x75mm
250A~300A	M22x90mm

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.

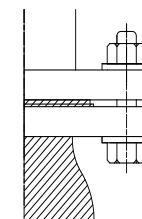
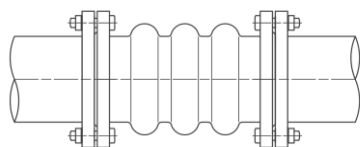


Table3 Tightening torque

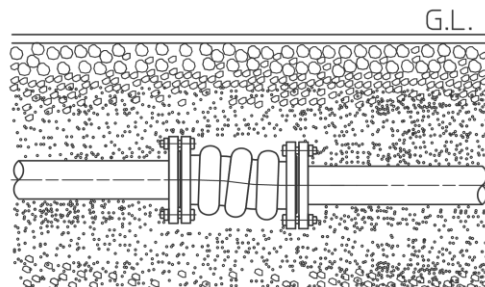
Size	Tightening torque
20A	25N·m
25A~40A	30N·m
50A~100A	30N·m
125A~200A	40N·m
250A~300A	45N·m

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

Completion



underground application



NOTES

- 1) 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.

Case of underground application

- 1) When making earthwork on flexible joint, please use sand mixing soil not including rock and wood chip.
- 2) The flexible joint shall be completely covered with soil. The soil around the flexible joint shall be solidly pressed. This earthwork shall be made each 30cm height. Please refer the left drawing.
- 3) When making earthwork, pay attention not to damage the flexible joint.