

1. Applications and Features

Purpose	Ground subsidence and earthquake countermeasures for piping (For underground piping)
Location	Pipe line for tap water, sewage water, cooling water, pump station and sewage treatment plant
Features	This rubber joint could realize big lateral movement. The elastic rubber material used for the main body absorbs vibration from rotating equipment such as pumps.

2. Structure and Parts

Figure 1 shows the structure, and Table 1 shows the part names and materials.

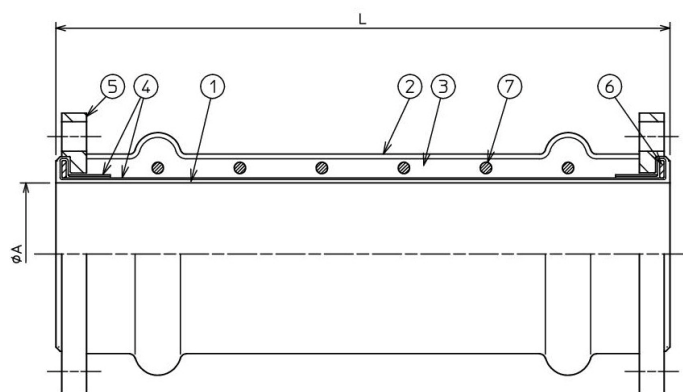


Figure 1 . Structure

Table1. Parts List

No.	Name	Material (Option)
1	Inner layer rubber	Synthetic rubber
2	Outer layer rubber	Synthetic rubber
3	Filling Rubber	Synthetic rubber
4	Reinforcement fiber	Nylon fiber
5	Flange	Carbon steel (Stainless steel)
6	Solid ring	Carbon steel
7	Reinforcement ring	Carbon steel

※Flange rating : JIS 10K (Standard) , 5K, 上水, JPI150lb

※Product size : 20A~300A

※When the flange material is SS400, the surface treatment
is hot dip galvanizing.

	Product Specification for ZRJ-MK300F ZRJ-MK400F	Document No : ZQK-331(P17)-1
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3. Dimensions and maximum working pressure

Table 2 shows dimensions and maximum working pressure.

Table2. Dimensions and maximum working pressure

• ZRJ-MK300F Unit : mm				• ZRJ-MK400F Unit : mm			
Size	φ A	L	Max. working pressure (MPa)	Size	φ A	L	Max. working pressure (MPa)
20A	20	700	1.0	20A	20	900	1.0
25A	25	700	1.0	25A	25	900	1.0
32A	32	700	1.0	32A	32	900	1.0
40A	40	700	1.0	40A	40	900	1.0
50A	50	700	1.0	50A	50	900	1.0
65A	65	800	1.0	65A	65	1050	1.0
80A	75	800	1.0	80A	75	1050	1.0
100A	100	800	1.0	100A	100	1050	1.0
125A	125	900	1.0	125A	125	1150	1.0
150A	150	900	1.0	150A	150	1150	1.0
200A	200	1000	1.0	200A	200	1300	1.0
250A	250	1000	1.0	250A	250	1300	1.0
300A	300	1100	1.0	300A	300	1400	1.0

※Maximum working pressure is at normal temperature.

4. Allowable operating movement

Table 3 shows allowable operating movement.

Table3. allowable operating movement

• ZRJ-MK300F Unit : mm				• ZRJ-MK400F Unit : mm			
Size	Allowable operating movement			Size	Allowable operating movement		
	Compression	Elongation	Lateral movement		Compression	Elongation	Lateral movement
20A	20	50	300	20A	20	60	400
25A	20	50	300	25A	20	60	400
32A	20	50	300	32A	20	60	400
40A	20	50	300	40A	20	60	400
50A	20	50	300	50A	20	60	400
65A	20	50	300	65A	20	60	400
80A	20	50	300	80A	20	60	400
100A	40	50	300	100A	40	60	400
125A	40	50	300	125A	40	60	400
150A	40	50	300	150A	40	60	400
200A	40	50	300	200A	40	60	400
250A	40	50	300	250A	40	60	400
300A	40	50	300	300A	40	60	400

※Displacements are individual maximum permissible amounts and are not guaranteed for loads acting simultaneously.

5. Applicable temperature range

-10℃~80℃

6. Mounting bolt length and bolt tightening torque (recommended value)

Table 4 shows the length of the mounting bolt.

Table 5 shows the tightening torque of the bolt.

Table 4. Mounting bolt length (JIS10K)

Size	Mounting bolt length		
	Bolt size	Length (Below Neck)	Quantity
20A	M12	50	8
25A	M16	55	8
32A	M16	55	8
40A	M16	55	8
50A	M16	65	8
65A	M16	65	8
80A	M16	65	16
100A	M16	65	16
125A	M20	75	16
150A	M20	75	16
200A	M20	75	24
250A	M22	90	24
300A	M22	90	32

Table 5. Torque of the bolt

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

※Mounting bolt length does not include the
thickness of flat washers and spring washers.

7. Inspection

Inspection items : Visual inspection, Dimensional inspection (overall length),
pressure resistance inspection

Frequency : Visual inspection and dimensional inspection are all products.

Pressure resistance inspections are sampling inspections.

8. Notes

- Insert mounting 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.
- Please refer to the "Installation Instructions" for installation procedures.