

1. Applications and Features

Purpose	Gap adjustment of plumbing, Absorbing pump vibration, Earthquake countermeasures
Location	Pump inlet / outlet, Inlet of water receiving tank
Features	Special bellows are used to disperse stress accumulation. Furthermore, the non-welded construction of the bellows provides excellent durability in areas subject to vibration and impact pressure. Fluid contacting part is stainless steel, loose flange type.

2. Structure and Parts

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

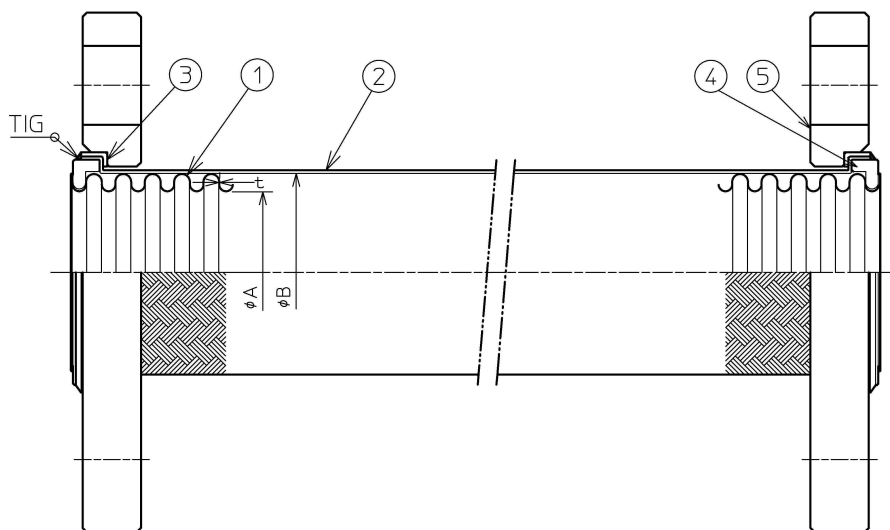


Figure 1 . Structure

Table1. Parts List

No.	Name	Material (Option)
1	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 (Stainless steel 304)

※Flange rating : JIS 10K , 5K

※Product length : 200mm~1000mm

3. Dimensions and maximum working pressure

Table 2 shows dimensions and maximum working pressure.

Table2. Dimensions and maximum working pressure Unit : mm

Size	Bellows			Max. working pressure (MPa)
	ϕA	ϕB	t	
15A	23.7	31.0	0.2	1.0
20A	31.0	39.9	0.2	1.0
25A	38.0	47.6	0.25	1.0
32A	44.0	53.3	0.3	1.0
40A	55.4	65.8	0.3	1.0
50A	66.3	79.8	0.35	1.0

※Maximum working pressure is at normal temperature.

4. Minimum bend radius and total length required for each displacement

Table 3 shows the minimum bend radius and the total length required for each displacement.

Table 3. minimum bend radius and total length required for each displacement

Unit : mm

Size	Min. bend radius	Displacement					
		50	100	150	200	250	300
15A	65	300	400	500	550	650	700
20A	80	300	450	500	600	650	700
25A	100	350	500	600	650	750	800
32A	120	400	550	700	750	850	950
40A	140	450	600	700	800	900	1000
50A	220	450	650	750	850	950	—

<Design condition> Pressure : Maximum working pressure

Temperature : Normal temperature

Number of times repeated : More than 3,000 times

5. Applicable temperature range

-20℃~300℃

6. Mounting bolt length

Table 4 shows the mounting bolt length.

Table4. Mounting bolt length (JIS10KF)

SIZE	Mounting bolt length		
	SIZE	Length (Below Neck)	Quantity
15A	M12	50	8
20A	M12	55	8
25A	M16	55	8
32A	M16	60	8
40A	M16	60	8
50A	M16	60	8

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

※Gasket thickness is calculated at 3 mm.

7. Inspection

Inspection items: Visual inspection, Dimensional inspection (Overall length),
Leak inspection

Frequency : ALL

8. NOTES

- Please use general commercially available gaskets for joint sheet type gaskets.
(Thickness: 3.0 mm)
- PTFE wrapped gaskets cannot be used.
- Please use expanded graphite-based joint sheets for steam piping.
(Thickness: 3.0 mm)
Please contact us if you wish to use spiral wound gasket.
- Please refer to the "Installation Instructions" for installation procedures.