

## 1. Applications and Features

Purpose	Absorbing pump vibration
Location	Chemical plant, Food and Beverage, Pharmaceutical plant, Pure water and hot water line, Circulation pool water
Features	Anti-vibration joint with corrosion-resistant fluororesin bellows.

## 2. Structure and Parts

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

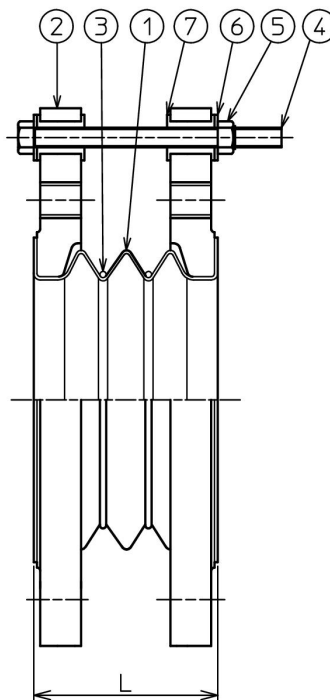


Figure 1 . Structure

Table1. Parts List

No.	Name	Material (Option)
1	Bellows	PTFE
2	Flange	Malleable cast 450 (Stainless steel 304)
3	Control ring	Stainless steel 304
4	Stopper bolt	Carbon steel
5	U nuts	Carbon steel
6	Washer	Carbon steel
7	Grommet	CR

※Flange rating : JIS 10K equivalent

※Product size : 20A~300A

### 3. Dimensions and maximum working pressure, allowable operating movement

Table 2 shows dimensions and maximum working pressure, allowable operating movement

Table2. Dimensions and maximum working pressure, allowable operating movement

Size	L (mm)	Max. working pressure (MPa)	Allowable operating movement			Weight (kg)
			Compression (mm)	Elongation (mm)	Angular deflection (°)	
20A	45	0.98	10	10	6	1.3
25A	45	0.98	10	10	6	1.5
32A	50	0.98	10	10	6	1.8
40A	50	0.98	13	13	6	1.9
50A	70	0.98	19	19	10	3.1
65A	75	0.98	19	19	10	4.1
80A	85	0.98	19	19	10	4.2
100A	85	0.98	19	19	13	5.9
125A	100	0.78	30	20	3	10.5
150A	100	0.78	30	20	3	12.4
200A	110	0.49	30	20	3	18.3
250A	120	0.49	35	15	3	24.7
300A	120	0.25	35	15	3	29.6

※Maximum working pressure is at normal temperature.

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

### 4. Applicable temperature range

-20℃~130℃

### 5. Maximum working pressure at each temperature

Figure 2 shows maximum working pressure at each temperature.

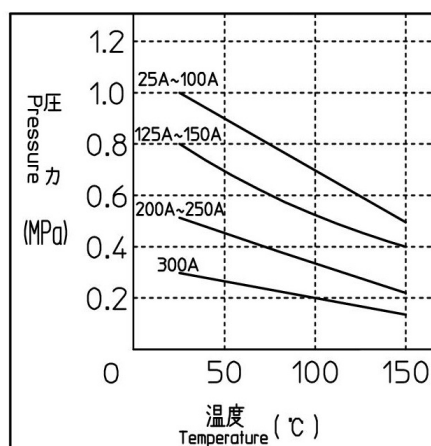


Figure 2. Maximum working pressure at each temperature

**6. Mounting bolt length**

Table 3 shows mounting bolt length.

Table 3. Mounting bolt length

Size	Mounting bolt length		
	Bolt size	Length (Below Neck)	Quantity
20A	M12	30	8
25A	M16	30	8
32A	M16	35	8
40A	M16	35	8
50A	M16	35	8
65A	M16	40	8
80A	M16	40	16
100A	M16	45	16
125A	M20	50	16
150A	M20	50	16
200A	M20	55	24
250A	M22	60	24
300A	M22	60	32

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

※Use all-thread type bolts.

※Standard flanges have tapped bolt holes, so nuts are not required.

**7. Option**

Negative pressure specification	The thickness of the bellows section is increased to improve pressure resistance and negative pressure resistance. (Applicable bore size: 20A to 150A) ※200A and above will be handled by V-ring.
5 arch specification	The bellows can absorb a larger amount of displacement by making the bellows 5 arch.

**8. Inspection**

Inspection items : Visual inspection, Dimensional inspection (overall length),  
Leakage inspection

Frequency : Visual and leakage inspection are all products.

Dimensional inspections are sampling inspections.

**9. Notes**

- This product is not designed for absorb the axial movement but vibrations.
- Please refer to the "Installation Instructions" for installation procedures.