

## 1. Applications and Features

Purpose	Absorption of expansion and contraction
Location	High-pressure piping such as steam piping
Features	Expansion joint with increased pressure resistance by attaching a control ring to the grooves of the bellows.

## 2. Structure and Parts

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

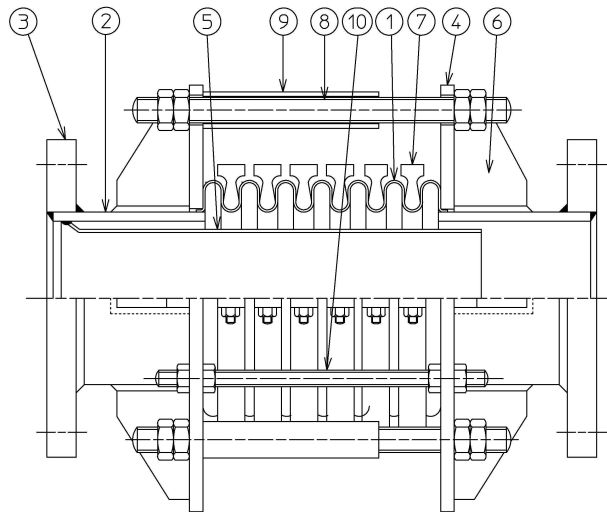


Figure 1 . Structure

Table1. Parts List

No.	Name	Material
1	Bellows	Stainless steel 304
2	Pipe	Carbon steel
3	Flange	Carbon steel
4	Guide ring	Carbon steel
5	Inner sleeve	Stainless steel 304
6	Reinforcing rib	Carbon steel
7	Control ring	Grey cast iron
8	Tie rod bolt	Carbon steel
9	Stopper	Carbon steel
10	Set bolt	Carbon steel

※Flange rating : JIS 10K, 20K, 5K, JPI

※Product size : 50A~600A

※Double type is also available.

※Other materials are also available on request.

### 3. Dimensions and allowable expansion/contraction

Table 2 shows dimensions and allowable expansion/contraction

Table2. Dimensions and allowable expansion/contraction Unit : mm

Size	Height	Pitch	Thickness	Axial movement	No. of convolution	Length
50A	15	17	0.6	±5	3	315
				±10	5	345
				±15	7	380
65A	15	17	0.6	±5	3	315
				±10	5	345
				±15	7	380
80A	15	17	0.8	±5	4	330
				±10	7	380
				±15	10	430
				±20	13	485
100A	20	20	1.0	±5	3	360
				±10	5	400
				±15	7	440
				±20	10	500
125A	30	30	1.2	±10	3	390
				±15	4	420
				±20	5	450
				±25	7	510
150A	30	30	1.2	±10	3	390
				±15	4	420
				±20	5	450
				±25	7	510
200A	30	30	1.2	±10	3	390
				±15	4	420
				±20	5	450
				±25	7	510
250A	40	40	1.5	±10	3	470
				±15	3	470
				±20	4	510
				±25	5	550
300A	40	40	1.5	±10	3	470
				±15	3	470
				±20	4	510
				±25	5	550

※Allowable expansion and contraction is based on a pressure of 0.1 MPa at normal temperature.

**4. Applicable temperature range**

Pressure : 0~1.0MPa (Normal temperature)

Temperature : 0~300℃ (Standard material)

**5. Inspection**Inspection items : Visual inspection, Dimensional inspection (Overall length),  
Leak inspection (airtight or penetrant testing)

Frequency : ALL

**6. Notes**

- Set expansion joint according to the direction of the seal which indicates fluid direction in case of the product with inner sleeve.
- Take away the set bolt after installation.
- Never take away tie rod bolt.
- Please refer to the "Installation Instructions" for installation procedures.