1． Applications and Features

Purpose	Absorption of expansion and contraction
Location	Low pressure piping such as exhaust gas piping
Features	Construction incorporates bellows without welding. The flexible bellows absorbs expansion and contraction even with short product length. It also has excellent durability against vibration from engines and other sources.

2． Structure and Parts

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

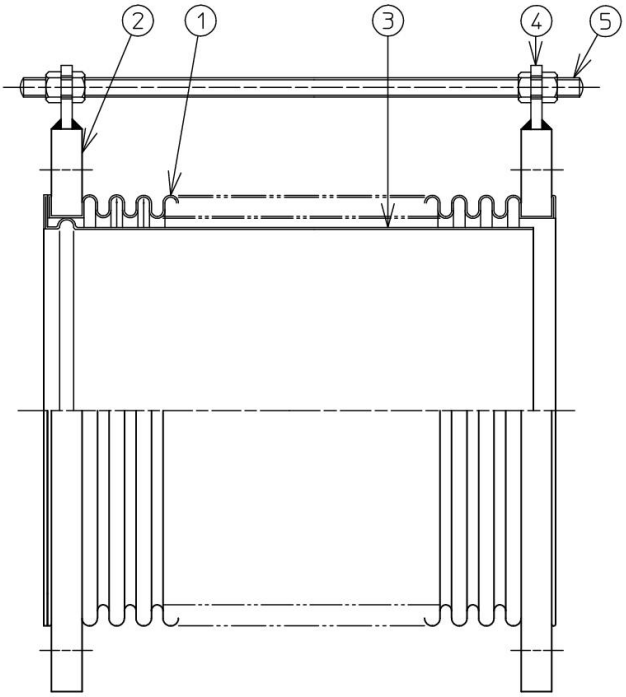

Figure 1． Structure

Table1. Parts List

No.	Name	Material
1	Bellows	Stainless steel 304
2	Flange	Carbon steel
3	Inner sleeve	Stainless steel 304
4	Holder	Carbon steel
5	Set bolt	Carbon steel

※Flange rating : JIS 5K, 10K, JPI

※Product size ：50A～1500A

※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	7.4	8.5	0.35	±5	6	90
				±10	12	140
				±15	18	195
65A	9.6	9.5	0.4	±5	4	80
				±10	8	115
				±15	12	155
80A	10.6	10.5	0.4	±5	4	80
				±10	7	115
				±15	10	145
100A	10.6	10.5	0.4	±5	4	85
				±10	6	105
				±15	8	130
125A	11	12	0.5	±10	7	130
				±15	11	175
				±20	14	210
150A	13	15	0.5	±10	5	125
				±15	8	170
				±20	10	200
200A	13	15	0.5	±10	5	125
				±15	8	170
				±20	10	200
				±25	12	230
250A	16	18	0.5	±10	4	130
				±15	5	145
				±20	7	180
				±25	9	220
300A	18	20	0.5	±15	4	135
				±20	6	175
				±25	7	195
				±30	8	215

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

4． Applicable temperature range

Pressure : 0～0.1MPa（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.
- Please refer to the “Installation Instructions” for installation procedures.