

1. Applications and Features

Purpose	Gap adjustment of plumbing, Absorbing lateral movement, Absorbing pump vibration
Location	Vacuum pipeline
Features	Thin-walled bellows for superior flexibility. • Flange type : ZC-1000 • Ferrule type : ZC-2000

2. Structure and Parts

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

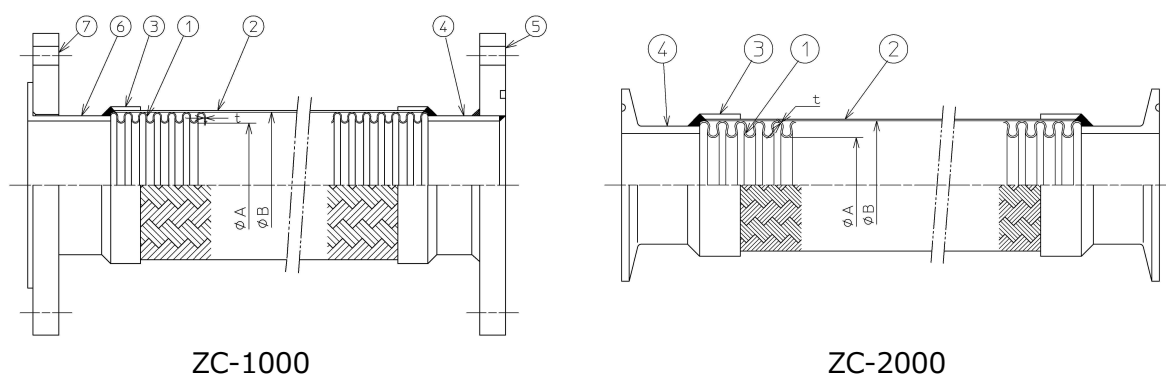


Figure 1. Structure

Table1. Parts List

• ZC-1000

No.	Name	Material
1	Bellows	Stainless steel 304
2	Braide	Stainless steel 304
3	Braide cover	Stainless steel 304
4	Pipe	Stainless steel 304
5	Flange(V F)	Stainless steel 304
6	Lap joint	Stainless steel 304
7	Flange(V G)	Stainless steel 304

• ZC-2000

No.	Name	Material
1	Bellows	Stainless steel 304
2	Braide	Stainless steel 304
3	Braide cover	Stainless steel 304
4	Ferrule	Stainless steel 304

3. Dimensions and design pressure

Table 2 shows dimensions and design pressure.

Table2. Dimensions and design pressure

• ZC-1000

Unit : mm

Size	Bellows			Design Pressure (MPa)
	ϕA	ϕB	t	
10A	10.0	13.5	0.15	FV~0.98
20A	21.5	29	0.20	FV~0.98
25A	26.5	36	0.20	FV~0.98
40A	41.5	54.0	0.25	FV~0.78
50A	50.5	65.0	0.25	FV~0.69
65A	66.0	86.0	0.30	FV~0.69
80A	78.0	100.5	0.30	FV~0.69
100A	103.0	126.0	0.30	FV~0.39
125A	129.0	148.0	0.40	FV~0.39
150A	153.0	181.0	0.40	FV~0.39

• ZC-2000

Unit : mm

Size	Bellows			Design Pressure (MPa)
	ϕA	ϕB	t	
1.0S	21.5	29	0.20	FV~0.98
1.25S	26.5	36	0.20	FV~0.98
1.5S	26.5	36	0.20	FV~0.98
2.0S	41.5	54.0	0.25	FV~0.78
2.5S	50.5	65.0	0.25	FV~0.69
3.0S	66.0	86.0	0.30	FV~0.69
3.5S	78.0	100.5	0.30	FV~0.69
4.0S	78.0	100.5	0.30	FV~0.39

4. Minimum Bending Radius

Table 3 shows the minimum Bending radius

Table 3. minimum Bending radius

Unit : mm

Size	ZC-1000
10A	35
20A	50
25A	70
40A	100
50A	120
65A	170
80A	200
100A	240
125A	300
150A	500

Size	ZC-2000
1.0S	50
1.25S	70
1.5S	70
2.0S	100
2.5S	120
3.0S	170
3.5S	200
4.0S	200

5. Inspection

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

Frequency : ALL

6. Notes

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