

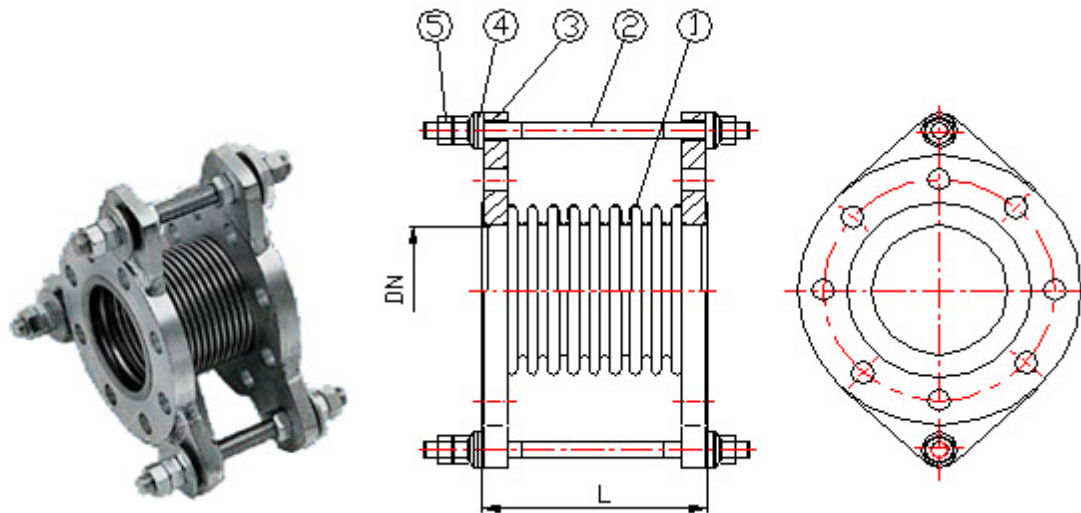


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» YBB-2001 (I . II) Series Damping Bellows



◆ Features:

1. To absorb effectively the vibration, noise, thermal expansion from pipeline system;
2. To resolve minor deviation because of piping connection and eliminate the pipeline residual stress;
3. Easy cleaning and maintenance.

◆ **Applications:** For the chemical industry, metallurgy, electricity, shipbuilding, construction and other industries.

◆ **Application temperature:** -50 °C ~ 300°C.

No.	Parts	Materials
1	Bellows	SUS304/316L/321
2	Restriction Screw	S15C/SUS304
3	Flange	SS400/SUS304/316L
4	Washer	Rubber
5	Nut	S15/SUS304

◆ YBB-2001 (I . II) Series Parameters:

(Bellows layers: I single-layer II double-layer)

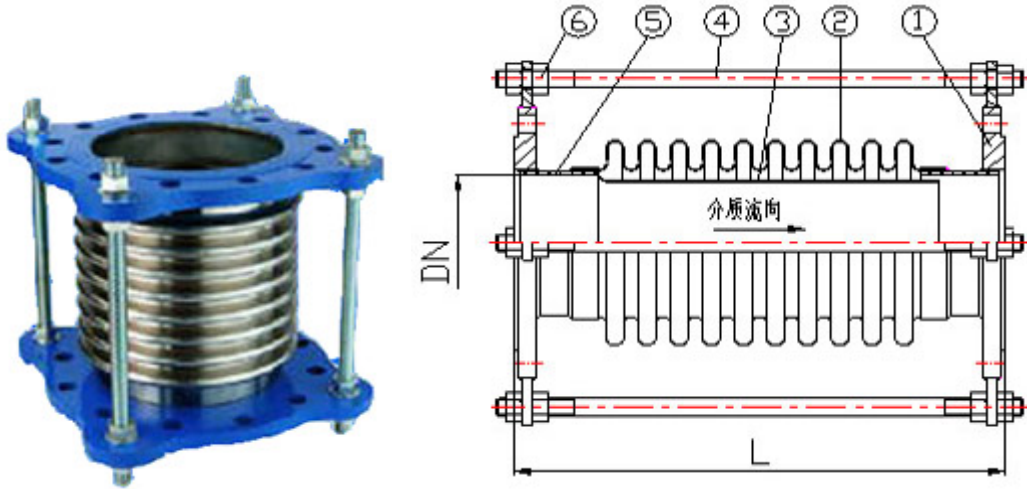
Bellows		Finish Product	Bellows Form					Displacement				Pressure	
Inner Diameter		Total Length	Length of Bellows	Diameter of Bellows	Effective Area	Horizontal Rigidity		Axial Direction		Horizontal		Working Pressure	
			I、II			I	II	I	II	I	II		
mm	inch	mm	mm	mm	cm ²	N/ mm	N/ mm	mm	mm	mm	mm	Kg/cm ²	Kg/cm ²
40	1½	150	120	65.7	26.1	82.22	82.22	14.5	14.5	9.1	8.5	10	16
50	2	150	120	81.2	39.8	70.85	97.12	15	15	8.9	10.3	10	16
65	2½	150	120	97.2	59.7	83.89	110.84	15	15	7.2	8.3	10	16
80	3	150	120	113.7	81.2	131.13	156.51	15	15	6.0	5.9	10	16
100	4	150	120	139.7	128.1	163.33	192.57	15	15	4.5	4.6	10	16
125	5	150	108	165.7	185.5	218.25	230.10	15	15	2.9	3.7	10	16
150	6	150	105	196.7	259.3	295.86	350.94	15	15	2.4	3.0	10	16
200	8	200	150	247.7	425.3	263.33	310.46	15	15	3.9	4.7	10	16
250	10	200	140	309.7	659.2	468.05	634.06	15	15	2.7	3.1	10	16
300	12	200	140	359.7	906.3	550.47	738.72	15	15	2.3	2.6	10	16
350	14	200	140	397.7	1120.4	613.77	824.38	15	15	2.0	2.3	10	16
400	16	250	180	469.1	1514.3	828.59	981.27	15	15	3.0	3.7	10	16
450	18	250	180	501.1	1743.1	887.59	1046.25	15	15	2.8	3.4	10	16
500	20	250	180	551.9	2139.3	986.57	1154.24	15	15	2.6	3.0	10	16

550	22	250	180	602.7	2576.0	1086.72	1265.96	15	15	2.2	2.7	10	16
600	24	250	180	653.5	3053.3	1186.00	1378.86	15	15	2.0	2.5	10	16

Flange standards are based on JIS, ANSI, DIN, BS, JB, and other standards.

Bellows are manufactured on the basis of the U.S. manufacturing expansion joint manufacturers association standards and can work after more than 10^3 cycle experiments.

» YBB-2002(I . II) Expansion Joints Series



◆ Features:

1. To Absorb large axial displacement between straight tube and support frame , and small horizontal displacement;
2. To resolve minor deviation because of piping connection and eliminate the pipeline residual stress;
3. Easy cleaning and maintenance.

◆ Applications: For the chemical industry, metallurgy, electricity, shipbuilding, construction and other industries.

◆ Application temperature: -50 °C~300°C.

No.	Parts	Materials
1	Flange	SUS304/316L / SS400
2	Bellows	SUS304/316L/321
3	Inner core	SUS304/316L
4	Restriction Screw	SUS304/S15C
5	Top tube	SUS304/316L/SGP
6	Nut	SUS304/S15

◆ YBB-2002(I . II) Series Parameters:

(Bellows layers: I single-layer II double-layer)

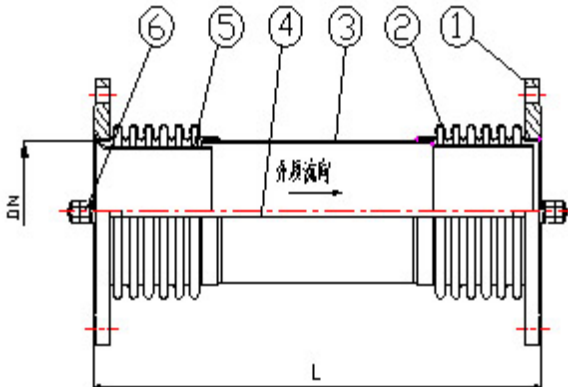
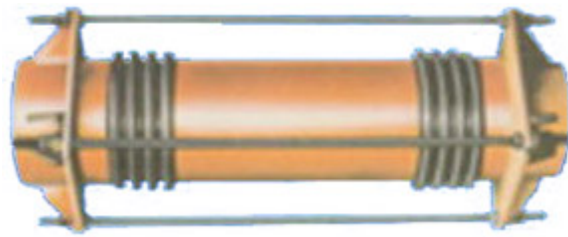
Bellows		Finish Product	Bellows Form				Displacement				Pressure		
Inner Diameter		Total Length	Length of Bellows	Diameter of Bellows	Effective Area	Horizontal Rigidity		Tension		Compression		Working Pressure	
			I、II			I	II	I	II	I	II		
mm	inch	mm	mm	mm	cm ²	N/ mm	N/ mm	mm	mm	mm	mm	Kg/cm ²	Kg/cm ²
40	1½	300	136	65.7	26.1	75.52	82.22	+5	+5	-30	-30	10	16
50	2	300	120	81.2	39.8	7.085	97.12	+5	+10	-30	-30	10	16
65	2½	300	120	97.2	59.7	83.89	110.84	+5	+10	-30	-30	10	16
80	3	300	132	113.7	81.2	119.17	140.92	+5	+10	-30	-30	10	16
100	4	300	132	139.7	128.1	148.76	173036	+5	+10	-30	-30	10	16
125	5	300	132	165.7	185.5	178.76	207.07	+5	+10	-30	-30	10	16
150	6	350	180	196.7	259.3	172.58	204.72	+10	+10	-40	-45	10	16
200	8	350	198	247.7	425.3	202.57	258.72	+10	+10	-40	-45	10	16
250	10	350	200	309.7	659.2	327.71	493.14	+10	+10	-40	-45	10	16
300	12	350	200	359.7	906.3	385.34	574.57	+10	+10	-40	-45	10	16
350	14	400	200	397.7	1120.4	429.63	524.59	+10	+10	-40	-55	10	16
400	16	400	210	469.1	1514.3	710.40	841.13	+10	+10	-40	-55	10	16
450	18	400	210	501.1	1743.1	760.77	896.80	+10	+10	-40	-55	10	16
500	20	400	210	551.9	2139.3	845.64	989.41	+10	+10	-40	-55	10	16
550	22	400	210	602.7	2576.0	931.3	1085.15	+10	+10	-40	-55	10	16
600	24	400	210	653.5	3053.3	1016.55	1181.88	+10	+10	-40	-55	10	16

Flange standards are based on JIS, ANSI, DIN, BS, JB, and other standards.

Bellows are manufactured on the basis of the U.S. manufacturing expansion joint manufacturers association standards and can work after more than 10^9 cycle experiments.

Production size: $\varnothing 40\text{mm}-\varnothing 7000\text{mm}$

» **YBB-2003(I . II) Horizontal Expansion Joints Series**



◆ **Features:**

1. To absorb large radial displacement and small axial displacement;
2. To reduce the mounting bracket and improve economic performance;
3. Easy cleaning and maintenance.

◆ **Applications:** For the chemical industry, metallurgy, electricity, shipbuilding, construction and other industries.

◆ **Application temperature:** $-50\text{ }^{\circ}\text{C}\sim 300\text{ }^{\circ}\text{C}$.

No.	Parts	Materials
1	Flange	SS400/SUS304/316L
2	Bellows	SUS304/316L/321
3	Intervalve	SGP/SUS304/316L
4	Restriction Screw	S15C/SUS304
5	Inner core	SUS304/316L
6	Nut	S15/SUS304

◆ **YBB-2003(I . II) Series Parameters :** (Bellows layers: I single-layer II double-layer)

Bellows		Finish Product	Bellows Form						Displacement		Pressure	
Inner Diameter		Total Length	Length of Bellows	Diameter of Bellows	Horizontal Rigidity		The largest radial force		Axial Direction	Radial	Working Pressure	
			I、II		I	II	I	II	I II			
mm	inch	mm	mm	mm	N/ mm		kg		mm	mm	Kg/cm ²	Kg/cm ²
40	1½	350	56	65.7	2.16	2.16	11.0	11.0	5	50	10	16
50	2	350	60	81.2	2.65	4.02	13.5	20.5	5	50	10	16
65	2½	400	60	97.2	3.43	4.41	17.5	22.5	5	50	10	16
80	3	400	84	113.7	6.08	7.06	31.0	36.0	5	50	10	16
100	4	500	84	139.7	6.57	7.74	33.5	39.5	5	50	10	16
125	5	600	84	165.7	7.25	8.53	37.0	43.5	5	50	10	16
150	6	600	105	196.7	11.86	17.44	60.5	89.0	5	50	10	16
200	8	700	105	247.7	16.56	25.19	84.5	128.5	5	50	10	16
250	10	700	140	309.7	36.65	55.08	187.0	281.0	5	50	10	16
300	12	1100	140	359.7	46.69	72.32	253.5	369.0	5	50	10	16
350	14	1200	140	397.7	48.90	72.81	249.5	371.5	5	50	10	16
400	16	1200	180	469.1	101.04	118.48	515.5	604.5	5	50	10	16
450	18	1300	180	501.1	124.66	145.73	636.0	743.5	5	50	10	16
500	20	1300	180	551.9	126.81	197.67	647.0	1008.5	5	50	10	16
550	22	1400	180	602.7	130.24	194.28	664.5	994.0	5	50	10	16
600	24	1400	180	653.5	168.56	251.76	860.0	1284.5	5	50	10	16

Flange standards are based on JIS, ANSI, DIN, BS, JB, and other standards.

Bellows are manufactured on the basis of the U.S. manufacturing expansion joint manufacturers association standards and can work after more than 10^9 cycle experiments.

Production size: $\varnothing 40\text{mm}-\varnothing 5000\text{mm}$

» **YBB-2003 Horizontal Expansion Joints Series**

1. The models working below $150\text{ }^{\circ}\text{C}$;
2. In the high-temperature applications, the hinged or compass-joints are selected. Please contact our company about the specific details.

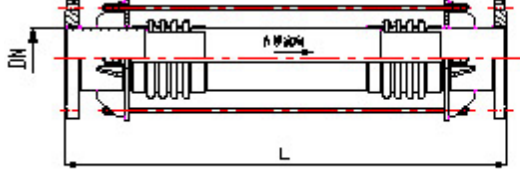


Fig 1

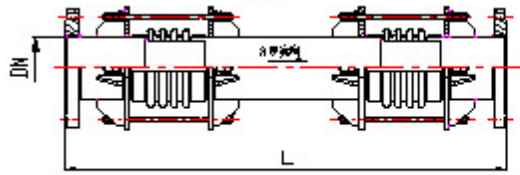


Fig 2

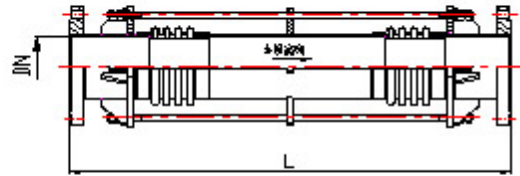


Fig 3

♦ The relation between full length and horizontal displacement:

Inner Diameter of the pipebody		The largest horizontal displacement								Work pressure
mm	inch	50	100	150	200	250	300	350	400	
		Full-length								
40	1½	350	600	800	1000	1400	1700	1900	2100	16
50	2	350	600	800	1000	1400	1700	1900	2100	16
65	2½	400	600	800	1000	1400	1700	1900	2100	16
80	3	400	600	800	1000	1400	1700	1900	2100	16
100	4	500	700	1000	1200	1700	2000	2200	2500	16
125	5	600	800	1200	1800	2000	2400	2700	3000	16
150	6	600	900	1600	2000	2200	2600	3000	3400	16
200	8	700	1500	2000	2500	2900	3400	3800	4300	16
250	10	700	1500	2000	2500	2900	3400	3800	4300	16
300	12	1100	1600	2000	2500	3000	3400	3900	4300	16
350	14	1200	1700	2200	2700	3200	3800	4300	4800	16
400	16	1200	1700	2200	2700	3200	3800	4300	4800	16
450	18	1300	1700	2200	2700	3200	3800	4300	4800	16
500	20	1300	1800	2200	2700	3200	3800	4300	4800	16
550	22	1400	1900	2400	2900	3400	3900	4400	4900	16
600	24	1400	2000	2500	3100	3600	4200	4700	5300	16