

1. Applications and Features

Purpose	Absorbing pump vibration
Location	Pump inlet / outlet
Features	<p>The two-layer construction of SUS304 outer layer and SUS316L inner layer provides excellent corrosion resistance, vibration absorption, and pressure resistance. The bellows is not welded into the joint for superior durability.</p> <p>Fluid contacting part is stainless steel, so it can be used for hot water piping where rubber fittings cannot be used.</p>

2. Structure and Parts

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

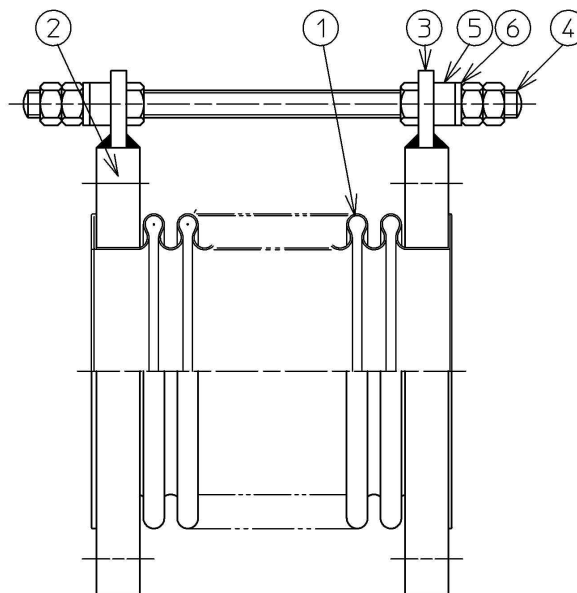


Figure 1 . Structure

Table1. Parts List

No.	Name	Material (Option)
1	Bellows	Inner layer: Stainless steel 316L Outer layer: Stainless steel 304
2	Flange	Carbon steel (Stainless steel 304)
3	Holder	Carbon steel (Stainless steel 304)
4	Tie rod bolt	Carbon steel (Stainless steel 304)
5	Shock absorber	Inorganic fiber
6	Washer	Carbon steel (Stainless steel 304)

※Flange rating : JIS 10K, 20K

3. Dimensions and design pressure

Table 2 shows dimensions and design pressure.

Table2. Dimensions and design pressure

Unit : mm

Size	Bellows			Max. working pressure (MPa)	Length	Tie rod bolt
	ID	OD	t			
32A	42.0	56.6	0.3×2	1.0	150	M12-2
40A	47.5	62.7	0.4/0.3	1.0	150	M12-2
50A	59.5	73.5	0.25×2	1.0	150	M12-2
65A	65.0	89	0.25×2	1.0	150	M12-2
80A	88.0	104.2	0.3×2	1.0	150	M12-3
100A	113.0	129.2	0.3×2	1.0	150	M12-3
125A	138.0	158.6	0.4×2	1.0	150	M12-3
150A	163.5	184.1	0.4×2	1.0	150	M16-3
200A	214.7	242.7	0.5×2	1.0	200	M16-4
250A	265.8	293.8	0.5×2	1.0	200	M20-4
300A	316.9	344.9	0.5×2	1.0	200	M24-4

※The maximum working pressure is at normal temperature.

4. Applicable temperature range

Normal temperature~150℃

5. Mounting bolt length

Table 3 shows the mounting bolt length.

Table 3. Mounting bolt length

Size	Mounting bolt length		
	Bolt size	Length (Below Neck)	Quantity
32A	M16	60	8
40A	M16	60	8
50A	M16	60	8
65A	M16	65	8
80A	M16	65	16
100A	M16	65	16
125A	M20	75	16
150A	M20	75	16
200A	M20	80	24
250A	M22	85	24
300A	M22	85	32

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

6 . Inspection

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

Frequency : ALL

7 . Notes

- This product is designed to absorb pump vibration and is not intended to absorb expansion, contraction, or displacement of piping.
- This product cannot be used for pool circulating water pumps.
Please use our ZTF-5000 or ZRJ-BT.
- When the flow velocity exceeds 3 m/s, the use of an inner cylinder is recommended to prevent noise generated by the fluid.
- Please refer to the "Installation Instructions" for installation procedures.