

## 1. Applications and Features

|          |                                                                                                                                       |
|----------|---------------------------------------------------------------------------------------------------------------------------------------|
| Purpose  | Absorbing pump vibration                                                                                                              |
| Location | Chemicals, Food & beverage, Pure water, Hot water, Hot tap water, Circulation pool water                                              |
| Features | Vibration absorbing joint with rubber outer surface for pressure resistance and fluoroplastic inner surface for corrosion resistance. |

## 2. Structure and Parts

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

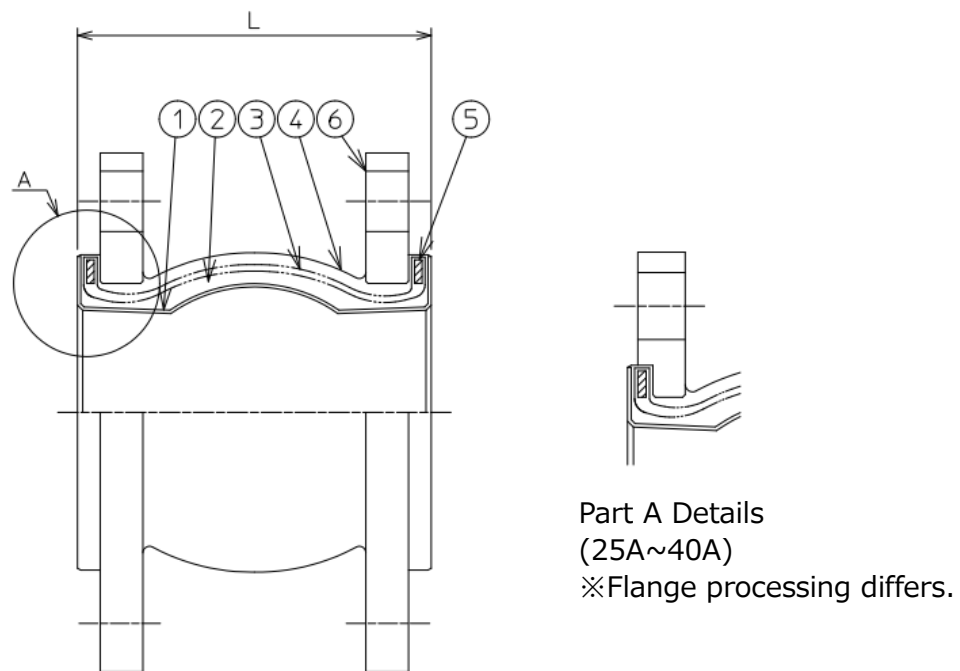


Figure 1. Structure

Table1. Parts List

| No. | Name                | Material (Option)                 |
|-----|---------------------|-----------------------------------|
| 1   | Liner               | PTFE                              |
| 2   | Inner layer rubber  | Synthetic rubber                  |
| 3   | Reinforcement fiber | Nylon cord                        |
| 4   | Outer layer rubber  | Synthetic rubber                  |
| 5   | Solid ring          | Carbon steel                      |
| 6   | Flange              | Carbon steel<br>(Stainless steel) |

※Flange rating : JIS 10K

※Product size : 20A~200A

※When the flange material is SS400, the surface treatment is hot dip galvanizing.

**3. Dimensions and maximum working pressure**

Table 2 shows dimensions and maximum working pressure.

Table2. Dimensions and maximum working pressure

| Size | L<br>(mm) | Max. working<br>pressure (MPa) |
|------|-----------|--------------------------------|
| 20A  | 90        | 1.5                            |
| 25A  | 90        | 1.5                            |
| 32A  | 90        | 1.5                            |
| 40A  | 97        | 1.5                            |
| 50A  | 112       | 1.5                            |
| 65A  | 120       | 1.5                            |
| 80A  | 142       | 1.5                            |
| 100A | 159       | 1.5                            |
| 125A | 189       | 1.5                            |
| 150A | 209       | 1.5                            |
| 200A | 209       | 1.5                            |

※Maximum working pressure is at normal temperature.

**4. Allowable operating movement**

Table 3 shows allowable operating movement.

Table3. allowable operating movement

| Size | Allowable operating movement |                    |                             |                              | Weight<br>(kg) |
|------|------------------------------|--------------------|-----------------------------|------------------------------|----------------|
|      | Compression<br>(mm)          | Elongation<br>(mm) | Lateral<br>movement<br>(mm) | Angular<br>deflection<br>(°) |                |
| 20A  | 8                            | 4                  | 5                           | 15                           | 1.4            |
| 25A  | 8                            | 4                  | 5                           | 15                           | 2.1            |
| 32A  | 8                            | 4                  | 5                           | 15                           | 3.0            |
| 40A  | 8                            | 4                  | 5                           | 15                           | 3.1            |
| 50A  | 10                           | 5                  | 5                           | 15                           | 3.9            |
| 65A  | 12                           | 6                  | 10                          | 15                           | 5.4            |
| 80A  | 14                           | 6                  | 10                          | 15                           | 5.5            |
| 100A | 18                           | 10                 | 10                          | 15                           | 6.9            |
| 125A | 20                           | 10                 | 15                          | 15                           | 11.0           |
| 150A | 20                           | 12                 | 15                          | 15                           | 14.0           |
| 200A | 20                           | 12                 | 10                          | 15                           | 17.7           |

※Displacements are individual maximum permissible amounts and are not guaranteed for loads acting simultaneously.

## 5. Applicable temperature range

-20℃~100℃

## 6. Mounting bolt length and bolt tightening torque (recommended value)

Table 4 shows the length of the mounting bolt.

Table 5 shows the tightening torque of the bolt.

Table 4. Mounting bolt length (JIS10K)

| Size | Mounting bolt length |                        |          |
|------|----------------------|------------------------|----------|
|      | Bolt size            | Length<br>(Below Neck) | Quantity |
| 20A  | M12                  | 50                     | 8        |
| 25A  | M16                  | 55                     | 8        |
| 32A  | M16                  | 55                     | 8        |
| 40A  | M16                  | 55                     | 8        |
| 50A  | M16                  | 65                     | 8        |
| 65A  | M16                  | 70                     | 8        |
| 80A  | M16                  | 70                     | 16       |
| 100A | M16                  | 70                     | 16       |
| 125A | M20                  | 80                     | 16       |
| 150A | M20                  | 85                     | 16       |
| 200A | M20                  | 85                     | 24       |

Table 5. Torque of the bolt

| Size      | Torque<br>(N·m) |
|-----------|-----------------|
| 20A~100A  | 30              |
| 125A~200A | 40              |

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

## 7. Inspection

Inspection items : Visual inspection, Dimensional inspection (overall length),  
pressure resistance inspection

Frequency : Visual inspection are all products.

Dimensional and pressure resistance inspections are sampling inspections.

## 8. Notes

- Insert mounting bolt from product side and tighten bolts evenly in diagonal line order.
- Please refer to the "Installation Instructions" for installation procedures.