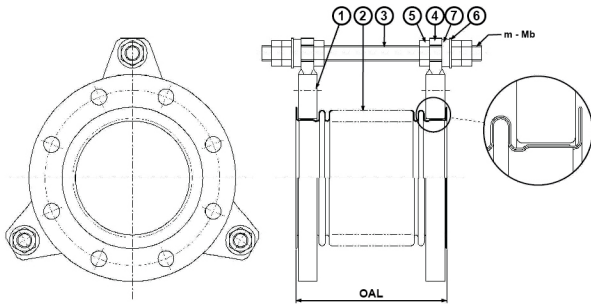# TOZEN

# SVT 1100

## ANTI-VIBRATION STAINLESS STEEL FLEXIBLE CONNECTOR



## FEATURES

- The fluid connecting surface is a single piece of stainless steel.
- Double ply bellows structure enhance the vibration absorption capacity in short length while containing the system pressure.
- Convolution and sealing surface are integrally formed without hot welding process that eliminates the heat affect zone(HAZ)
- SVT connector is used in connection with water pumps, chillers, air handling unit and other vibration sources to alleviate the vibration transmission to the piping system.
- Standard control units restraint the elongation of the joint and high capacity rubber bush reduce the vibration transmission.

## STRUCTURE



| No. | Parts | Materials |
|---|---|---|
| 1 | Flange | SS400 (ZINC PLATED) |
| 2 | Stainless Steel Bellows | SUS316L |
| 3 | Tied rod | SS400 (ZINC PLATED) |
| 4 | Thick Holder | SS400 (ZINC PLATED) |
| 5 | Nut | SS400 (ZINC PLATED) |
| 6 | Washer | SS400 (ZINC PLATED) |
| 7 | Rubber bush | Urethane Rubber |

## APPLICATIONS

SVT anti-vibration flexible connectors are used in all piping system in commercial and general industries.

| Size | Qty | W/P 10BARS | W/P 16BARS |
|---|---|---|---|
| 50 | 2 | M12 | M12 |
| 65 | 2 | M12 | M12 |
| 80 | 2 | M12 | M12 |
| 100 | 3 | M12 | M16 |
| 125 | 3 | M12 | M16 |
| 150 | 3 | M12 | M16 |
| 200 | 4 | M16 | M20 |
| 250 | 4 | M16 | M20 |
| 300 | 4 | M20 | M30 |

## DESIGN WORKING PRESSURE: 10 BARS

| Size | OAL | Movement (mm) | | Spring Rate (N/mm) | | Eff. Cross Section Area(cm2) |
|------|-----|-------|---------|-------|---------|---------|
| | | Axial | Lateral | Axial | Lateral | |
| 50 | 150 | 11 | 5.5 | 76.0 | 37.8 | 36.1 |
| 65 | 150 | 11 | 5 | 77.2 | 57.9 | 51.4 |
| 80 | 150 | 10.5 | 5 | 70.7 | 84.9 | 77.6 |
| 100 | 150 | 9.5 | 5 | 66.0 | 136.9 | 119.2 |
| 125 | 150 | 9.5 | 4.5 | 68.6 | 206.3 | 183.5 |
| 150 | 150 | 9 | 4 | 66.3 | 295.6 | 256.3 |
| 200 | 200 | 12 | 6 | 100.3 | 340.4 | 430.3 |
| 250 | 200 | 12 | 5.5 | 94.5 | 511.7 | 658.3 |
| 300 | 200 | 10 | 4 | 157.3 | 1161.1 | 897.3 |

## DESIGN WORKING PRESSURE: 16 BARS

| Size | OAL | Movement (mm) | | Spring Rate (N/mm) | | Eff. Cross Section Area(cm2) |
|------|-----|-------|---------|-------|---------|---------|
| | | Axial | Lateral | Axial | Lateral | |
| 50 | 150 | 10 | 3 | 102.7 | 67.6 | 35.5 |
| 65 | 150 | 10 | 3 | 104.0 | 104.0 | 50.8 |
| 80 | 150 | 10 | 3 | 107.5 | 142.1 | 76.0 |
| 100 | 150 | 11.5 | 3 | 101.7 | 247.6 | 123.5 |
| 125 | 150 | 10 | 3 | 110.4 | 385.4 | 188.7 |
| 150 | 150 | 8 | 3 | 117.1 | 604.3 | 261.9 |
| 200 | 200 | 11.5 | 4 | 140.4 | 665.5 | 441.7 |
| 250 | 200 | 8 | 3 | 256.6 | 1567.3 | 652.6 |
| 300 | 200 | 7 | 2.5 | 275.6 | 2796.0 | 914.6 |