

## Twin-Sphere Rubber Joint with Floating Flanges

# TWINFLEX

Excellent performance for vibration absorption, displacement absorption and high-pressure resistance.



### Feature

#### Achievements

Having been used in more than 20 countries for over 30 years, TOZEN brand products proudly demonstrate their popularity.

#### Reliability

Unparalleled durability is guaranteed by the distinctive and strict design standards of TOZEN.

#### Quality

Manufactured in TOZEN's own factory under thorough control with ISO9001 quality management system.

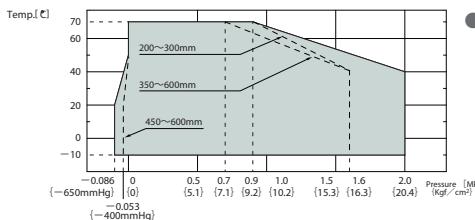
#### Durability

Reciprocating pressure test for 20,000 cycles or above.

### Applications

- This product is mainly applicable for piping systems in commercial and industrial buildings and plants.
- Applicable fluids are exclusively water including cold water, warm water, cooled water, sea water, etc.
- This product can not be used for pool water, oil, or boiled water.

### Operating Conditions and Performance



- Bursting Pressure:
  - 32~150mm: 5.0MPa or above at normal temp.
  - 200~300mm: 3.5MPa or above at normal temp.
  - 350~600mm: 4.8MPa or above at normal temp.

### Structure

Mild Steel	
No.	Parts
①	Flange
②	Reinforcing Ring
③	Inner Rubber
④	Outer Rubber
⑤	Reinforcing Cord
Material	
①	Ductile Iron / Mild Steel
②	Carbon Steel
③	Synthetic Rubber
④	Synthetic Rubber
⑤	Synthetic Fiber

Flange compatible dimension	Standard	JIS10K / ANSI150 / PN16
	Other	Please consult us.
Material	Standard	Mild Steel / Ductile Iron (For 350mm~600mm and ANSI150 32mm is mild steel only)
	Can be changed	<input checked="" type="radio"/> SUS304 <input checked="" type="radio"/> SUS316

### Dimensions and Allowable Movements

Nominal Dia.	Dimension [mm]	Mass [Kg]	Allowable Movement [mm]				Installation Tolerances [mm]			
			T.M.	A.E.	A.C.	A.M.	T.M.	A.E.	A.C.	A.M.
mm	inch	L	φd							
32	1 1/4	175	35	3.3	20	10	20	20°	8	3
40	1 1/2	175	35	3.9	20	10	20	20°	8	3
50	2	175	45	5.0	20	10	20	20°	8	3
65	2 1/2	175	60	6.1	20	10	20	20°	8	3
80	3	175	70	7.4	20	10	20	20°	8	3
100	4	225	95	8.6	25	15	30	20°	10	3
125	5	225	120	11	25	15	30	20°	10	3
150	6	225	145	14	25	15	30	20°	10	3
200	8	325	195	22	30	20	40	20°	12	3
250	10	325	245	32	30	20	40	20°	12	3
300	12	325	290	42	30	20	40	20°	12	3
350	14	250	340	56	15	15	20	15°	6	3
400	16	250	390	66	15	15	20	15°	6	3
450	18	275	440	67	15	15	20	15°	6	3
500	20	275	490	83	15	15	20	15°	6	3
600	24	300	590	123	15	15	20	15°	6	3

- Mass indicates only the case with PN16 (Mild Steel) flanges.
- Please use within allowable displacement range.
- The installation allowance is included in the allowable displacement.  
(allowable displacement = installation displacement + operation displacement)
- As shown in chart are data of non-concurrent displacement, please make correction for concurrent displacements.

For correction method, refer to "Attention for handling or "TOZEN HP" (<http://www.tozen.com>)

**Note:** The content of this catalog is subject to change without prior notice.

**Agent**

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