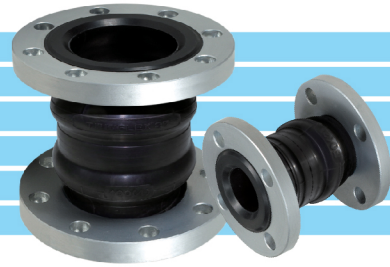


TWINFLEX-25

TWIN-SPHERE RUBBER JOINT with floating flanges



FEATURES

Reliability

Unparalleled reliability is guaranteed by the distinctive TOZEN design with more than 40 years experience in rubber flexible joints.

Quality

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

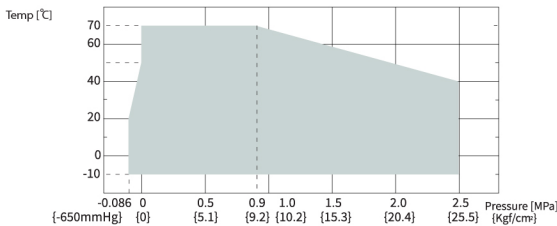
Durability

Reciprocating pressure test for 20,000 cycles or above.

APPLICATION

- This product is designed for the application of piping systems in commercial buildings and industrial factories and plants.
- Applicable fluids are exclusively water including cold water, warm water, cooled water, sea water, etc.
- This product is not designed for chlorine water, pool water, oil, or boiled water.

OPERATING CONDITIONS AND PERFORM



Operating Condition

- **Max. Working Pressure** : 2.5 Mpa
- **Working Temperature** : -10 to 70 °C.
* For high temp. application, please consult us. *
- **Bursting Pressure** : 3 time or more of W/P at normal temp.

STRUCTURE

No.	Parts	Materials
1	Flange	Mild Steel
2	Reinforcing Ring	Carbon Steel (SWRH)
3	Shell Rubber	Synthetic Rubber
4	Reinforcing Cord	Synthetic Fiber

- Flange with mild steel in JIS20K, ANSI300, PN25 are standard.
- For other materials can be changed to SUS304, SUS316
- Standard material is EPDM

DIMENSIONS AND ALLOWABLE MOVEMENTS

Nominal Dia	Dimension (mm)		Mass Kgs	Allowable Movement (mm)				Installation Tolerances (mm)			
	L	Ød		TM	AE	AC	AM	TM	AE	AC	AM
32mm (1 1/4")	175	40	3.7	20	10	20	20°	8	3	3	7.5°
40mm (1 1/2")	175	40	4.4	20	10	20	20°	8	3	3	7.5°
50mm (2")	175	50	5.5	20	10	20	20°	8	3	3	7.5°
65mm (2 1/2")	175	65	7.3	20	10	20	20°	8	3	3	7.5°
80mm (3")	175	75	8.9	20	10	20	20°	8	3	3	7.5°
100mm (4")	225	100	12	20	15	20	20°	8	3	3	7.5°
125mm (5")	225	125	16	20	15	20	20°	8	3	3	7.5°
150mm (6")	225	150	20	20	15	20	20°	8	3	3	7.5°
200mm (8")	250	200	28	25	15	20	20°	10	3	3	7.5°
250mm (10")	250	250	39	25	15	20	20°	10	3	3	7.5°
300mm (12")	250	300	51	25	15	20	20°	10	3	3	7.5°

- The working pressure is over 1.6MPa, please install a control unit.
- In addition, even in case of less 1.6MPa, due to the reaction force from trial operation and during operation,
- if it is difficult to support the reaction force (please refer to the table.), please also install a control unit.

REACTION FORCE

N { kgf }

Nominal Dia	Pressure MPa{kgf/cm ² }				
	0.5 {5.1}	1.0 {10.2}	1.5 {15.3}	2.0 {20.4}	2.5 {25.5}
32/40 mm (1 1/4")	25 {3}	51 {5}	76 {8}	102 {10}	127 {13}
50 mm (2")	355 {36}	710 {72}	1065 {109}	1420 {145}	1775 {181}
65 mm (2 1/2")	755 {79}	1549 {158}	2324 {237}	3099 {316}	3874 {395}
80 mm (3")	1204 {123}	2409 {246}	3613 {368}	4817 {491}	6021 {614}
100 mm (4")	1393 {142}	2785 {284}	4178 {426}	5570 {568}	6963 {710}
125 mm (5")	1614 {165}	3228 {329}	4843 {494}	6457 {658}	8071 {823}
150 mm (6")	422 {43}	843 {86}	1265 {129}	1687 {172}	2108 {215}
200 mm (8")	2654 {271}	5307 {541}	7961 {812}	10615 {1082}	13268 {1353}
250 mm (10")	11466 {1169}	22932 {2338}	34398 {3508}	45864 {4677}	57330 {5846}
300 mm (12")	19447 {1983}	38893 {3966}	58340 {5949}	77764 {7932}	97233 {9915}