

Twin-Sphere Rubber Joint with Floating Flanges

TWINFLEX25

Excellent performance for noise and vibration absorption in high-pressure resistance



Feature

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.

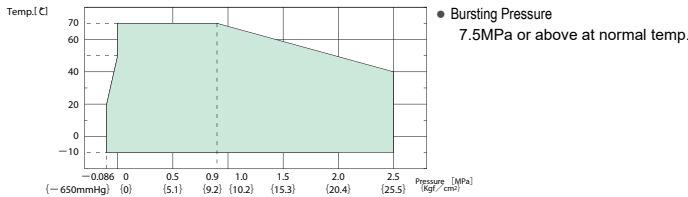
Durability

Reciprocating pressure test for 20,000 cycles or above.

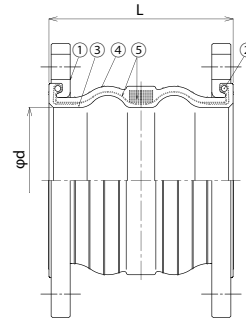
Applications

- 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 Performance



Structure



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

Material	Flange dimensions fit please consult us.	
	Standard	Mild Steel
Can be changed	○	SUS304
	○	SUS316

- Please contact us for other materials.
- Flanges in JIS20K, ANSI300, PN25 are standard.

Dimensions and Allowable Movements

Nominal Dia.		Dimension [mm]		Mass [Kg]	Allowable Movement [mm]				Installation Tolerances [mm]			
mm	inch	L	φd		T.M.	A.E.	A.C.	A.M.	T.M.	A.E.	A.C.	A.M.
32	1 1/4	175	40	3.7	20	10	20	20°	8	3	3	7.5°
40	1 1/2	175	40	4.4	20	10	20	20°	8	3	3	7.5°
50	2	175	50	5.5	20	10	20	20°	8	3	3	7.5°
65	2 1/2	175	65	7.3	20	10	20	20°	8	3	3	7.5°
80	3	175	75	8.9	20	10	20	20°	8	3	3	7.5°
100	4	225	100	12	20	15	20	20°	8	3	3	7.5°
125	5	225	125	16	20	15	20	20°	8	3	3	7.5°
150	6	225	150	20	20	15	20	20°	8	3	3	7.5°
200	8	250	200	28	25	15	20	20°	10	3	3	7.5°
250	10	250	250	39	25	15	20	20°	10	3	3	7.5°
300	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

Nominal Dia.	Pressure					N (kgf)
	mm	0.5 {5.1}	1.0 {10.2}	1.5 {15.3}	2.0 {20.4}	
32/40	25 { 3}	51 { 5}	76 { 8}	102 { 10}	127 { 13}	
50	355 { 36}	710 { 72}	1065 { 109}	1420 { 145}	1775 { 181}	
65	755 { 79}	1549 { 158}	2324 { 237}	3099 { 316}	3874 { 395}	
80	1204 { 123}	2409 { 246}	3613 { 368}	4817 { 491}	6021 { 614}	
100	1393 { 142}	2785 { 284}	4178 { 426}	5570 { 568}	6963 { 710}	
125	1614 { 165}	3228 { 329}	4843 { 494}	6457 { 658}	8071 { 823}	
150	422 { 43}	843 { 86}	1265 { 129}	1687 { 172}	2108 { 215}	
200	2654 { 271}	5307 { 541}	7961 { 812}	10615 { 1082}	13268 { 1353}	
250	11466 { 1169}	22932 { 2338}	34398 { 3508}	45864 { 4677}	57330 { 5846}	
300	19447 { 1983}	38893 { 3966}	58340 { 5949}	77786 { 7932}	97233 { 9915}	

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