WINFLEX25

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





3

4

(5)

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.

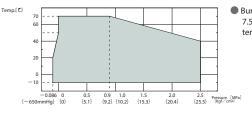
Durability

Reciprocating pressure test for 20,000 cycles or above.

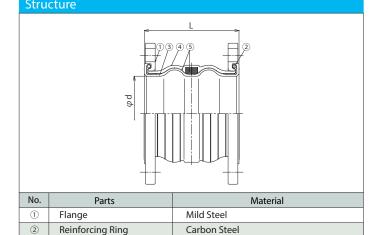
Applications

- 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



Bursting Pressure: 7.5MPa or above at normal temp.



Synthetic Rubber

Synthetic Rubber

Synthetic Fiber

Flange dimensions fit	please consult us.						
	Standard	Mild	Steel				
Material	Can be changed	0	SUS304				
	Can be changed	0	SUS316				

Please contact us for other materials.

Inner Rubber

Outer Rubber

Reinforcing Cord

Flanges in JIS20K, ANSI300, PN25 are standard.

Dimensio	Dimensions and Allowable Movements												
Nominal Dia.		Dimension [mm]		Mass	Allowable Movement [mm]			Installation Tolerances [mm]					
mm	inch	L	φd	[Kg]	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°	

· A.C.: Axial Compression, A.E.: Axial Elongation,

A.M.: Angular Movement, T.M.: Transverse Movement Axial elongation angular move







- Mass indicates only the case with PN25 flanges.
- Tolerances for installation are included in the allowable movements (Allowable movements = Tolerances for installation + Operating movements).
- •Please note that the information in the above table is for single movement only. In case of complex movements, please do adjustment by using the following formula.
 - C.A.E. (C.A.C.) = A.A.E.(A.A.C.) $\times \{1 (\frac{T.M.}{A.A.M} + \frac{A.M.}{A.T.M.})\}$ C.A.E. (C.A.C.): Correct Elongation Movement (Correct Compression Movement)
 - A.A.E. (A.A.C.): Allowable Elongation Movement (Allowable Compression Movement)
 - A.T.M.: Allowable Transverse Movement
 - A.A.M.: Allowable Angular Movement

Example: In case of 100mm joint, if 10mm transverse movement is needed, then the correct elongation should be: C.A.E = $15 \times \{1 - (\frac{10}{20} + \frac{0}{20})\} = 7.5$ mm

•There is reaction force from rubber joints due to the load of the internal pressure, so during the installation, please fix the pipe tightly to ensure the joints work efficiently. In case the pipe cannot be fixed tightly, please use the control unit for the joints.

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