Rubber flexible joint Spherical type

OZENFLEX

Spherical shape is most popular type of rubber flexible joint for vibration isolation



A joint reliance **TOZEN**

Feature

Low reaction force

Superb vibration absorption effect with reduce load and stress on equipment and piping.

Unique spherical shaped form Slim arch shape avoids the contact of rubber body with bolt head.

Excellent pressure resistance

Spherical type rubber flexible joint has outstanding performance in pressure resistance.

Available for slurry

Smooth interior surface (buried rubber type) is available upon request for sewage or fluid with particles tend to precipitate or accumulated.

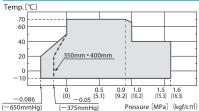
Face-to-face dimension is standardized

Face-to-face dimension is identical for 32A-200A. It is convenient for design when compared with others different face-to-face dimension by size.

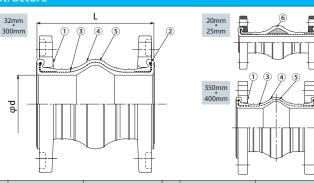
Applications

- This product is mainly used in pipe systems for industrial and commercial buildings
- The product is applicable to water, such as cold water, warm water, cooling water, sea water, etc.
- This product can not be used in swimming pool water oil and hot water.

Operating Conditions and Performance



Use after confirmation that the maximum operation pressure and maximum service temperature are within the operation range.



No.	Parts	Parts Material		Parts	Material		
1	Flange	FCD450	4	Outer Rubber	EPDM (SK10)		
2	Reinforcing Ring	SWRH	5	Reinforcing cord	Synthesized fiber		
3	Inner Rubber	EPDM (SK10)	6	Infill material	Special polymer rubber		

• 20mm and 25mm are rubber embed types with a flat inner face shown in the left Fig. Joints larger than 32mm are able to be supplied with rubber embed type except for 350mm and 400mm.

	Standard	JIS10K		
Flange	Flange standard can be changed to (depending on service conditions	0	JIS5K	20mm-25mm-300mm-400mm can't be manufactured
compatible		0	PN16	
dimension		0	JIS20K	
		0	ANSI	20mm-32mm can't be manufactured
	Standard		FCD450	300mm-400mm is SS400 (Change to FCD is not allowed)
	Flange material can be changed to	0	SS400	
Material		0	SUS304	
		0	SUS316	
		0	PVC	5K flange and 350mm-400mm is not possible to manufacture

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Bore diameter	Maximum allowable working pressure	Maximum operating temperature				
20mm~100mm	0.5MPa {5.1kgf/cm ² } and below					
125mm~150mm	0.25MPa{2.6kgf/cm ² } and below	55 and below				

0.2MPa {2.0kgf/cm²} and below 200mm~300mm

Nominal Dia. Dimension [mm]		Mass	Allowable Movement [mm]			Installation Tolerances [mm]						
mm	inch	L	φd	[Kg]	Eccentricity	Elongation	Compression	Deflection angle	Eccentricity	Elongation	Compression	Deflection angle
20	3/4	140	25	1.1	10	5	10	15°	4	3	6	7.5°
25	1	140	25	1.6	10	5	10	15°	4	3	6	7.5°
32	1 1/4	150	40	2.0	20	10	20	15°	8	3	6	7.5°
40	1 1/2	150	40	2.1	20	10	20	15°	8	3	6	7.5°
50	2	150	50	2.7	20	10	20	15°	8	3	6	7.5°
65	2 1/2	150	65	3.7	20	10	20	15°	8	3	6	7.5°
80	3	150	75	3.8	20	10	20	15°	8	3	6	7.5°
100	4	150	100	4.6	20	15	20	15°	8	3	6	7.5°
125	5	150	125	6.6	20	15	20	15°	8	3	6	7.5°
150	6	150	150	9.1	20	8	15	15°	8	3	6	7.5°
200	8	150	200	12.0	20	8	15	15°	10	3	6	7.5°
250	10	200	250	20.0	25	15	20	15°	10	3	6	7.5°
300	12	200	300	22.0	25	15	20	15°	10	3	6	7.5°
350	14	200	350	30.0	25	15	20	15°	10	3	6	7.5°
400	16	200	400	42.0	25	15	20	15°	10	3	6	7.5°

Mass is the data when material is FCD450, and flange is JIS10K flange.(350mm-400mm is SS400 JIS10K flange)
Use a joint within the allowable displacement range.
The allowable fixing dimension is included in the allowable displacement amount (allowable displacement amount = fixing time displacement + operation displacement)
Each displacement in the chart are data of a single displacement, so for multiple displacements, correction is necessary. For correction method, refer to "Attention for handling or "TOZEN HP"

Precaution for fixing of pump suction side

•When water is pumped up from a water tank which is placed on a level lower than the pump, and for pipelines in which there is always negative pressure developed, trouble can occur. For the above situation, it is recommended to use Tough-Boy or LS connectors (for suction).

Note: This brochure may be revised without prior notice. We apologize in advance for any inconvenience this may cause.

Agent

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