A joint reliance TOZEN

Rubber flexible joint **High pressure resistant type**

KINGFLEX 20

The single arch type rubber flexible joint pursuing the highest performance level

SK-10 eco-Products

Compliance with the specification of Ministry of Land, Infrastructure, Transport and Tourism

Feature

Optimum for high pressure lines

The highest bursting and operating pressure resistance is achieved by aramid fiber and flat reinforcing rings.

	Rupture pressure MPa (kgf/cm²)	Maximum allowable working pressure MPa (kgf/cm²)	Negative pressure MPa (mmHg)
150㎜ and below	9.8 (100) or more	2.5 (25.5)	–0.086 (–650)
200㎜ or more	7.8 (80) or more	2.0 (20.4)	–0.086 (–650)

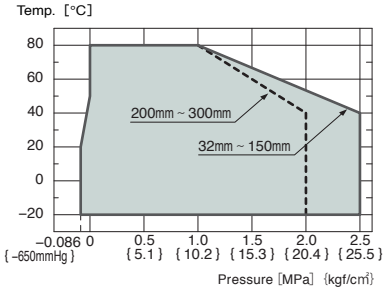
Low reaction force

Little variation in both axial and circumferential dimension when under pressure, so reaction force loading on equipment are reduced.

Quality control system by production lot numbers

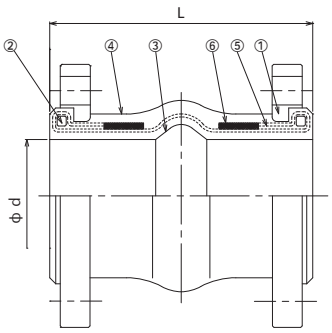
Manufactured under a thorough quality control designated for high pressure application.

Operating Conditions and Performance



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

Structure



No.	Parts	Material	No.	Parts	Material
①	Flange	SS400	④	Outer Rubber	EPDM (SK10)
②	Reinforcing Ring	SS400	⑤	Reinforcing cord	Aramid fiber
③	Inner Rubber	EPDM (SK10)	⑥	Reinforcing cord	Synthesized fiber

Flange compatible dimension	Standard		JIS20K
	Flange standard can be changed to	×	JIS5K
		×	JIS10K
		×	PN16
		×	ANSI
Material	Standard		SS400
	Flange material can be changed to	×	FCD450
		×	SUS304
		×	SUS316
		×	PVC

Dimensions and Allowable Movements

Nominal Dia.		Dimension [mm]		Mass [Kg]	Allowable Movement [mm]				Installation Tolerances [mm]			
mm	inch	L	φd		Eccentricity	Elongation	Compression	Deflection angle	Eccentricity	Elongation	Compression	Deflection angle
32	1 1/4	175	40	3.6	20	10	20	10°	8	3	6	5°
40	1 1/2	175	40	3.6	20	10	20	10°	8	3	6	5°
50	2	175	50	4.0	20	10	20	10°	8	3	6	5°
65	2 1/2	175	65	5.5	20	10	20	10°	8	3	6	5°
80	3	175	75	7.3	20	10	20	10°	8	3	6	5°
100	4	225	100	10.0	20	10	20	10°	8	3	6	5°
125	5	225	125	16.0	20	10	20	10°	8	3	6	5°
150	6	225	150	22.0	20	10	20	10°	8	3	6	5°
200	8	250	200	30.0	20	10	20	10°	8	3	6	5°
250	10	250	250	44.0	20	10	20	10°	8	3	6	5°
300	12	250	300	57.0	20	10	20	10°	8	3	6	5°

- 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”

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

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