

Flonex α

PTFE EXPANSION JOINT



Flonex α

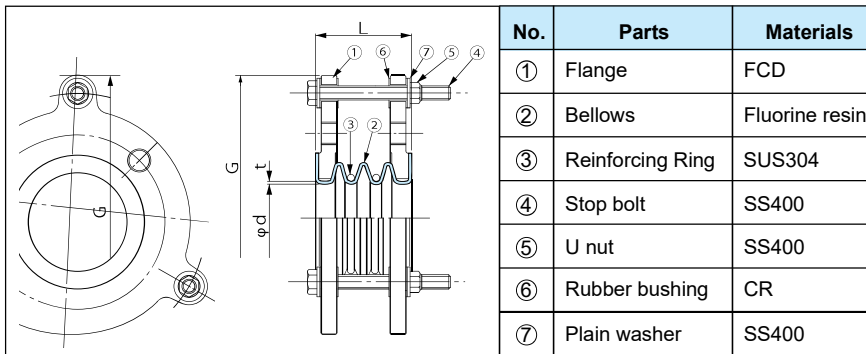
3-arch design Fluoropolymer bellows are excellent in durability



● FEATURES

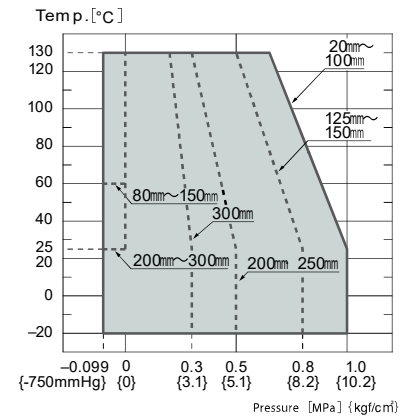
- **Clean = Pure** : Virgin fluoropolymer material is free of any impurities or soluble substance such as stabilizers, antioxidants or carbon. It is considered as one of the most hygienic material.
- **Compact Design**: A short face to face dimension enable compact design of the pipe.
- **Bellows** : Unique forming method enable an even & uniform thickness & shape of the bellows.
- **Negative pressure** : Depending on operating temperature, it is able to be used up to minus 0.099MPa, (minus 750mmHg)

● STRUCTURE



Flange on JIS 5K, JIS 20K, ANSI & PN16 are available.
The flange material can be changed to SUS, please consult us.
We also have Flonex α GY with 3 and 5 bellows type that is superior to the corrosion- resistance.

● Operating Conditions and Performance



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

● DIMENSION AND ALLOWABLE MOVEMENT

Nominal Dia.		Dimension [mm]				Mass [Kg]	Allowable Movement [mm]				Installation Tolerances [mm]			
mm	inch	L	ϕd	t	G		Eccentricity	Elongation	Compression	Deflection angle	Eccentricity	Elongation	Compression	Deflection angle
20	3/4	44	25	1.5	141.2	1.3	6	13	13	14°	3	3	3	5°
25	1	44	25	1.5	166.2	1.6	6	13	13	14°	3	3	3	5°
32	1 1/4	49	32	1.5	176.2	1.8	6	13	13	14°	3	3	3	5°
40	1 1/2	51	38	1.5	181.2	2.0	6	13	13	14°	3	3	3	5°
50	2	68	49	2.0	202.6	3.1	10	19	19	14°	4	3	3	5°
65	2 1/2	77	63	2.0	229.0	4.1	10	19	19	14°	4	3	3	5°
80	3	85	73	2.0	242.2	4.2	13	25	25	14°	5	5	5	5°
100	4	85	97	2.5	257.6	5.9	13	25	25	14°	5	5	5	5°
125	5	100	119	2.5	319.9	11	13	25	25	14°	5	5	5	5°
150	6	100	145	2.5	349.9	13	14	29	29	14°	6	6	6	5°
200	8	133	196	2.5	393.6	19	14	29	29	14°	6	6	6	5°
250	10	170	244	3.0	469.8	25	14	29	29	14°	6	6	6	5°
300	12	190	292	3.0	528.0	30	14	29	29	14°	6	6	6	5°

Noted:

- Mass is the data when material is FCD, and flange is JIS10K flange.
- Use a joint within the range of allowable displacement.
- Fixing allowable dimension is included in allowable displacement (allowable displacement = fixing time displacement + operation displacement).
- Each displacement in chart are data of single displacement, so for multiple displacement, correction is necessary. For correction method, refer to "Attention for handling or "TOZEN HP
- Referring to "fixing bolt dimension table", and use fixing bolt. Nut is not necessary (when companion flange is JIS10K, material is SS400, and when plain washer and gasket are not used.)



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