

TOPFLEX

SUPER-FLEX RUBBER EXPANSION JOINT

(With Floating Flanges) For Vacuum and Underground Services



TOPFLEX Series STS and STT are designed for tough demanding industrial applications. As found in : Air Conditioning-Heating and Ventilating Systems, Chemical-Petrochemical and Industrial Process Piping Systems, Power Generating Systems, Marine Service, Pulp&Paper Systems, Water-Wastewater Sewage and Pollution Control Systems. Installed next to mechanical equipment or between the anchor points of piping system, specify the **TOPFLEX SERIES STS and STT** to:

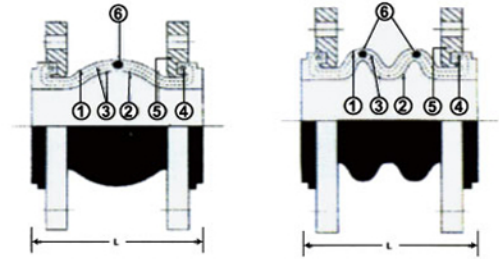
- (1) Absorb Pipe/Movement/Stress.
- (2) Decrease Systems Noise.
- (3) Isolate Vibration.
- (4) Compensate alignment/offset.
- (5) Eliminate Electrolysis.
- (6) Protect Against Start up/Surge Forces.

BILL OF MATERIALS

ITEM NO.	DESCRIPTION	MATERIAL
1	Outer Cover	Synthetic Rubber (EPDM)
2	Inner Tube	Synthetic Rubber (EPDM)
3	Reinforcing Fabric	Synthetic Fiber
4	Wire	Carbon Steel wire
5	Flange	Mild Steel
6	Reinforcing Ring	Carbon Steel

TECHNICAL CONDITION

Model	STS		STT	
Size I.D.	1" - 12"	14 - 24"	1.1/2" - 12"	14 - 24"
Working pressure	300 PSI	150 PSI	300 PSI	150 PSI
Burst pressure	854 PSI	342 PSI	854 PSI	342 PSI
Vacuum Rating	750 mm/Hg			
Temperature	-20°C to 100°C			



The arch reinforcing ring is incorporated for the buried or vacuum services.

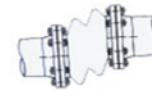


Axial Compression



Axial Extension

Allowable Movements



Lateral Movement



Angular Deflection

Table of Main Parameters of Normal Core Diameter, Length, Displacement Value

Normal core diameter		Single-Sphere					Twin-Sphere				
(mm)	(in.)	Length	Compression	Extension	Lateral	Angular	Length	Compression	Extension	Lateral	Angular
25	(1)	95	8	4	8	15°	-	-	-	-	-
32	(1.1/4)	95	8	4	8	15°	-	-	-	-	-
40	(1.1/2)	95	8	4	8	15°	175	50	30	45	35°
50	(2)	105	8	5	8	15°	175	50	30	45	35°
65	(2.1/2)	115	12	6	10	15°	175	50	30	45	35°
80	(3)	130	12	6	10	15°	175	50	30	45	35°
100	(4)	135	18	10	12	15°	225	50	35	40	35°
125	(5)	170	18	10	12	15°	225	50	35	40	35°
150	(6)	180	18	10	12	15°	225	50	35	40	35°
200	(8)	205	25	14	22	15°	325	60	35	35	30°
250	(10)	240	25	14	22	15°	325	60	35	35	30°
300	(12)	260	25	14	22	15°	325	60	35	35	30°
350	(14)	265	25	16	22	15°	350	50	40	30	20°
400	(16)	265	25	16	22	15°	350	50	40	30	20°
450	(18)	265	25	16	22	15°	350	50	40	30	20°
500	(20)	265	25	16	22	15°	350	50	40	30	20°
600	(24)	254	19	13	19	15°	350	50	40	30	20°

NOTE :

- Standard material is EPDM. The products are not applicable to oil. Other kinds of rubber material are optional.
- Standard rated working pressure are 20 bars (up to 300 mm.) to 10 bars (for larger size than 300 mm.)
- Applicable fluids : Air, Compressed air, water, sea water, hot water, weak acid, alkalis, etc.
- Flange drilling : JIS, DIN, ANSI, BS and other standard drilling for your specification.