

TOPFLEX Series TS / TT



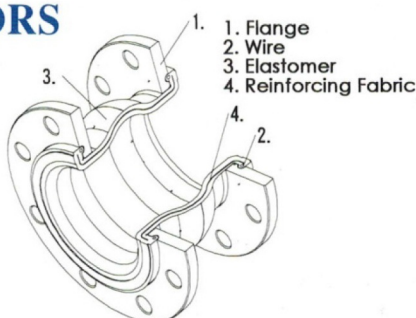
TOPFLEX SERIES TS and SERIES TT are designed for tough demanding industrial applications, as found in: Air Conditioning-Heating and Ventilating Systems, Chemical-Petrochemical and Industrial Process Piping Systems, Power Generating Systems, Marine Service, Pulp& Paper Systems, Water-Wastewater Sewage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

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

TOPFLEX Series TS

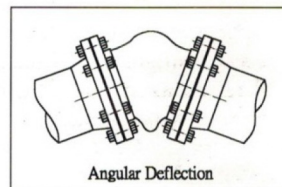
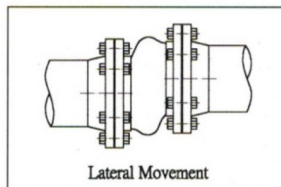
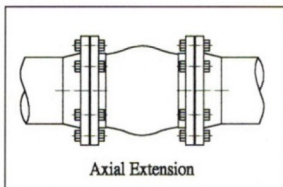
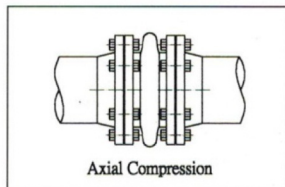
SINGLE-SPHERE CONNECTORS (WITH FLANGES)

ITEM	PART	MATERIAL
1	Flanges	SS41 (changeable)
2	Wire	Carbon Steel Wires Strand
3	Elastomer	Special Synthetic Rubber
4	Reinforcing Fabric	Synthetic Fiber



Single-Sphere

Allowable Movements



JAPANESE

Item No.	Size I.D.	L	F ϕ	Compression	Extension	Lateral	Angular
TS-101	1 inch (25 mm)	95mm	60mm	8mm	4mm	8mm	15°
TS-101Q	1-1/4 inch (32 mm)	95	68	8	4	8	15°
TS-101H	1-1/2 inch (40 mm)	95	68	8	4	8	15°
TS-102	2 inch (50 mm)	105	86	8	5	8	15°
TS-102H	2-1/2 inch (65 mm)	115	105	12	6	10	15°
TS-103	3 inch (80 mm)	130	115	12	6	10	15°
TS-104	4 inch (100 mm)	135	150	18	10	12	15°
TS-105	5 inch (125 mm)	170	179	18	10	12	15°
TS-106	6 inch (150 mm)	180	210	18	10	12	15°
TS-108	8 inch (200 mm)	205	260	25	14	22	15°
TS-110	10 inch (250 mm)	240	320	25	14	22	15°
TS-112	12 inch (300 mm)	260	367	25	14	22	15°
TS-114	14 inch (350 mm)	265	408	25	16	22	15°
TS-116	16 inch (400 mm)	265	472	25	16	22	15°
TS-118	18 inch (450 mm)	265	522	25	16	22	15°
TS-120	20 inch (500 mm)	265	570	25	16	22	15°
TS-124	24 inch (600 mm)	254	689	25	16	19	15°

AMERICAN

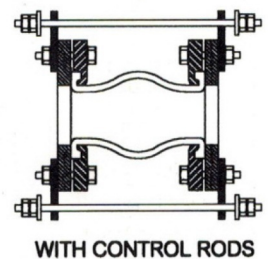
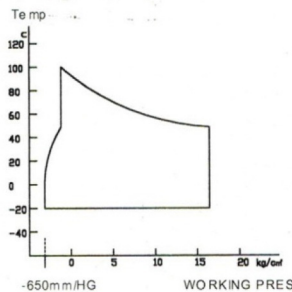
Item No.	Size I.D.	L	F ϕ	Compression	Extension	Lateral	Angular
TS-201	1 inch (25 mm)	6"	60mm	1/2"	3/8"	1/2"	15°
TS-201Q	1-1/4 inch (32 mm)	6"	68	1/2"	3/8"	1/2"	15°
TS-201H	1-1/2 inch (40 mm)	6"	68	1/2"	3/8"	1/2"	15°
TS-202	2 inch (50 mm)	6"	86	1/2"	3/8"	1/2"	15°
TS-202H	2-1/2 inch (65 mm)	6"	105	1/2"	3/8"	1/2"	15°
TS-203	3 inch (80 mm)	6"	115	1/2"	3/8"	1/2"	15°
TS-204	4 inch (100 mm)	6"	150	5/8"	3/8"	1/2"	15°
TS-205	5 inch (125 mm)	6"	179	5/8"	3/8"	1/2"	15°
TS-206	6 inch (150 mm)	6"	210	5/8"	3/8"	1/2"	15°
TS-208	8 inch (200 mm)	6"	260	5/8"	3/8"	1/2"	15°
TS-210	10 inch (250 mm)	8"	320	5/8"	1/2"	3/4"	15°
TS-212	12 inch (300 mm)	8"	367	3/4"	1/2"	3/4"	15°
TS-214	14 inch (350 mm)	8"	408	1"	1/2"	3/4"	15°
TS-216	16 inch (400 mm)	8"	472	1"	1/2"	3/4"	15°
TS-218	18 inch (450 mm)	8"	522	1"	1/2"	3/4"	15°
TS-220	20 inch (500 mm)	8"	570	1"	1/2"	3/4"	15°
TS-224	24 inch (600 mm)	10"	689	1"	1/2"	3/4"	15°

GERMAN

Item No.	Size I.D.	L	F ϕ	Compression	Extension	Lateral	Angular
TS-301	1 inch (25 mm)	130mm	60mm	12mm	9mm	12mm	15°
TS-301Q	1-1/4 inch (32 mm)	130	68	12	9	12	15°
TS-301H	1-1/2 inch (40 mm)	130	68	12	9	12	15°
TS-302	2 inch (50 mm)	130	86	12	9	12	15°
TS-302H	2-1/2 inch (65 mm)	130	105	12	9	12	15°
TS-303	3 inch (80 mm)	130	115	12	9	12	15°
TS-304	4 inch (100 mm)	130	150	14	9	14	15°
TS-305	5 inch (125 mm)	130	179	14	9	14	15°
TS-306	6 inch (150 mm)	130	210	14	9	14	15°
TS-308	8 inch (200 mm)	130	260	14	9	14	15°
TS-310	10 inch (250 mm)	130	320	14	9	14	15°
TS-312	12 inch (300 mm)	130	367	16	9	16	15°

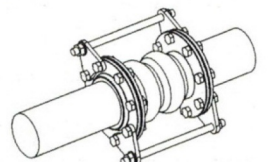
OPERATING CONDITIONS

Size I.D.	1" ~ 12" 25 mm ~ 300 mm		14" ~ 24" 350 mm ~ 600 mm	
	PSIG	kPa	PSIG	kPa
Working Pressure	300	2,065	150	1,034
Burst Pressure	854	5,884	342	2,353
Vacuum Rating	650 mm/Hg			
Temperature	-20°C ~ 100°C / -4°F ~ 212°F			



Control rods must be installed when pressure (test surge, operating, starting a pump, etc.) exceeds the rating below.

Size I.D.	1" ~ 4" 25 mm ~ 100mm	5" ~ 10" 125 mm ~ 250 mm	12" ~ 14" 300 mm ~ 350 mm	16" ~ 24" 400 mm ~ 600 mm
PSIG	150	135	90	45
kPa	1,035	931	621	310



REFERENCE

1. Elastomer Materials - Neoprene, Butyl, Nitrile, EPDM, Hypalon, SBR, Natural rubber for your specifications.
2. Flange drilling - JIS, DIN, ANSI, BS and other standard drilling for your specifications.
3. Applicable fluids - water, warm water, seawater, weak acids, alkalis, etc.
4. 1 PSIG = 14.25 kg/cm²