



SINGLE-SPHERE CONNECTORS

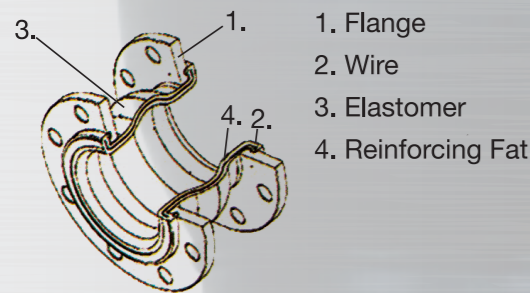
Model : Series TS

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 System, Water - Wastewater Sewage and Pollution Control Systems. Installed next to mechanical equipment or between the anchor point of piping system, specify the **TOPFLEX SERIES TS** and **SERIES TT** 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

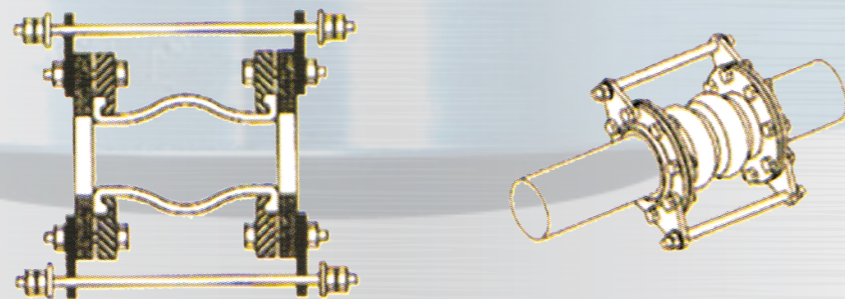
Material Specification

Item	Part	Material
1	Flanges	SS41 (changeable)
2	Wire	Carbon Steel Wires Strand
3	Elastomer	Special Synthetic Rubber
4	Reinforcing Fabric	Synthetic Fiber



1. Flange
2. Wire
3. Elastomer
4. Reinforcing Fat

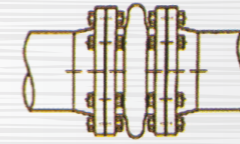
With Control Rods



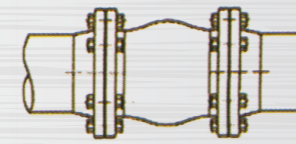
Control rods must be installed when pressure (test surge, operating, starting a pump, etc.) exceeds the rating below.

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

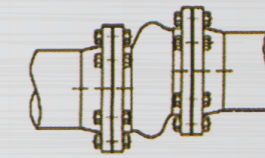
Allowable Movements



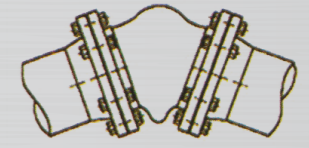
Axial Compression



Axial Extension



Lateral Movement



Angular Deflection

Item No.	Size I.D.	F ϕ	L	Compression	Extension	Lateral	Angular
TS-01	1 inch (25mm)	60mm	6"	1/2"	3/8"	1/2"	15°
TS-01Q	1-1/4 inch (32mm)	68mm	6"	1/2"	3/8"	1/2"	15°
TS-01H	1-1/2 inch (40mm)	68mm	6"	1/2"	3/8"	1/2"	15°
TS-02	2 inch (50mm)	86mm	6"	1/2"	3/8"	1/2"	15°
TS-02H	2 1/2 inch (65mm)	105mm	6"	1/2"	3/8"	1/2"	15°
TS-03	3 inch (80mm)	115mm	6"	1/2"	3/8"	1/2"	15°
TS-04	4 inch (100mm)	150mm	6"	5/8"	3/8"	1/2"	15°
TS-05	5 inch (125mm)	179mm	6"	5/8"	3/8"	1/2"	15°
TS-06	6 inch (150mm)	210mm	6"	5/8"	3/8"	1/2"	15°
TS-08	8 inch (200mm)	260mm	6"	5/8"	3/8"	1/2"	15°
TS-10	10 inch (250mm)	320mm	8"	5/8"	1/2"	3/4"	15°
TS-12	12 inch (300mm)	367mm	8"	3/4"	1/2"	3/4"	15°
TS-14	14 inch (350mm)	408mm	8"	1"	1/2"	3/4"	15°
TS-16	16 inch (400mm)	472mm	8"	1"	1/2"	3/4"	15°
TS-18	18 inch (450mm)	522mm	8"	1"	1/2"	3/4"	15°
TS-20	20 inch (500mm)	570mm	8"	1"	1/2"	3/4"	15°
TS-24	24 inch (600mm)	689mm	10"	1"	1/2"	3/4"	15°

Operating Conditions

Size I.D.	1" ~ 12" 25mm ~ 300mm		14" ~ 24" 350mm ~ 600mm	
	PSIG	kPa	PSIG	kPa
Working Pressure	228	1,569	114	785
Burst Pressure	854	5,884	342	2,353
Vacuum Rating	650mm/Hg			
Temperature	~20°C ~ 100°C / -4°F ~ 212°F			

