Rubber Joints with Fixed Flanges

Style TISA — **Single Arch**

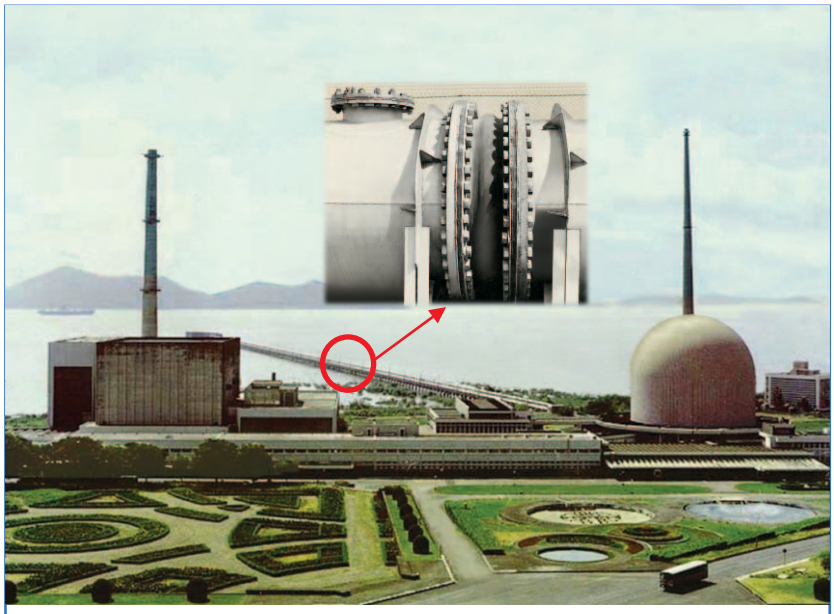
TUBULAR

DESIGN

Tubular Rubber Joints are SPOOL TYPE Expansion Joints constructed with high strength nylon cord fabric and elastomer reinforced with metal rings / wires. The full faced flanges are integral with the body and utilize split steel retaining rings drilled to required standards. The sealing surface of the rubber flanges provide a fluid and gas tight sealing making gaskets redundant

ADVANTAGES

- Low deformation under pressure
- Greater recovery from movement
- Higher safety factor
- Resistant to fatigue
- Negligible loss of head
- Abrasion, Water, Heat, Chemical, Weather resistant
- Prevents electrolytic corrosion
- Economical - No Gaskets - ease of installation
- Compact - requires very little space



56 Nos.1200 mm RE Joint installed at Bhabha Research Centre in 1980

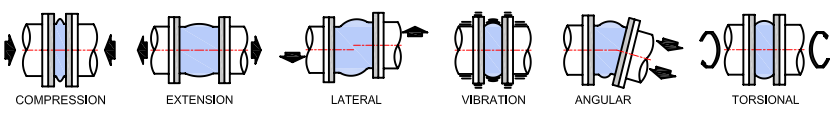
APPLICATIONS

For use in Plumbing, HVAC & Air systems in:

- Residential Houses
- Commercial Buildings
- Industrial Plants
- Sewage Treatment Plants
- Chemical Plants
- Power Plants
- Marine Systems

For BIG RELIEF from STRESSES AT PIPE FLANGES

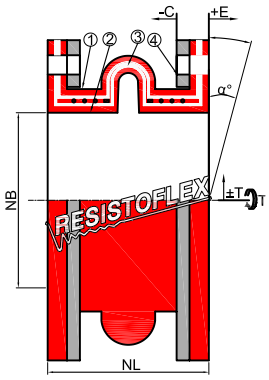
Innumerable Installations since 1965



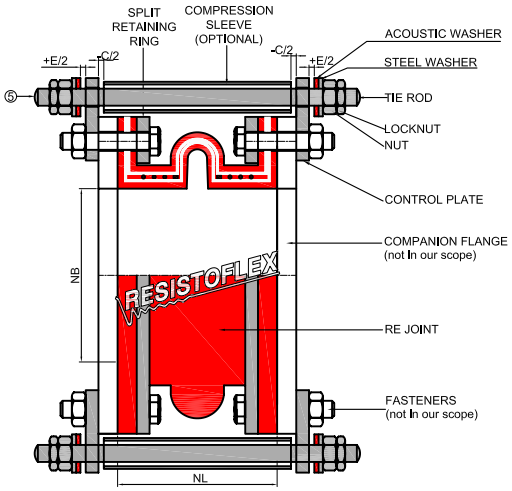
RESISTOFLEX
SINCE 1947
Rubber Expansion Joints

Single Arch Tubular REJoints with Fixed Flanges

TISA



REJ for anchored / guided pipelines



REJ with Control Units for all other lines

CAUTION :
After installation Control Units require setting at site for E/2 and C/2

CONSTRUCTION

S.No.	COMPONENT	MATERIAL
1	Cover	Synthetic Rubber
2	Tube	Natural Rubber
3	Carcass	Nylon Cord & Steel Wire
4	Retaining Rings	Mild Steel
5	Control Unit	Mild Steel
Conveying Medium	Standard	Water, Sea Water, Acid, Alkali, Compressed Air etc.
	Optional	Oils, Hydraulic Oil, Hot Water

DESIGN CONDITIONS

TYPE		PN 2.5	PN 10	PN 16*	PN 25*
Maxm. Working Pressure	Kgf/cm²	2.5	10	16	25
Design / Test Pressure	Kgf/cm²	3.8	15	24	38
Vacuum	mm Hg	250	400	650	750
Flange Drillings	Standard	IS 6392	BS 10 D	BS 10 E	IS 6392
	Optional	ASME B16.5/BS 4504/ISO 7005/EN 1092			
Temperature	°C	-10° to +70°C (Optional -20° to +110°C)			

* Control Units Recommended

1 bar = 0.1 Mpa = 1 Kg/cm² = 14.5 psi

TECHNICAL CHARACTERISTICS

CODE	DIMENSIONS		MAXIMUM ALLOWABLE MOVEMENTS (Not Simultaneous)				
	NOMINAL BORE	NEUTRAL LENGTH	AXIAL COMPRESSION	AXIAL ELONGATION	TRANSVERSE DEFLECTION	TORSIONAL ANGLE	ANGULAR ANGLE
	NB (mm)	NL (mm)	- C (mm)	+ E (mm)	+ T (mm)	±ϑ (Deg.)	(Deg.)
REJ-TISA-0020	20	125/150	11	6	12	3	14.5°
REJ-TISA-0025	25	125/150	11	6	12	3	14.5°
REJ-TISA-0032	32	150	11	6	12	3	14.5°
REJ-TISA-0040	40	150	11	6	12	3	14.5°
REJ-TISA-0050	50	150	11	6	12	3	14.5°
REJ-TISA-0065	65	150	11	6	12	3	10°
REJ-TISA-0080	80	150	11	6	12	3	10°
REJ-TISA-0100	100	150	11	6	12	3	7.5°
REJ-TISA-0125	125	150	11	6	12	3	5°
REJ-TISA-0150	150	150	11	6	12	3	5°
REJ-TISA-0200	200	150	17	9	12	3	5°
REJ-TISA-0250	250	200	17	9	12	3	4°
REJ-TISA-0300	300	200	17	9	12	3	3°
REJ-TISA-0350	350	200	17	9	12	2	2.5°
REJ-TISA-0400	400	200	17	9	12	2	2.5°
REJ-TISA-0450	450	200	17	9	12	1	2.5°
REJ-TISA-0500	500	200	20	11	12	1	2.5°
REJ-TISA-0550	550	250	20	11	12	1	2°
REJ-TISA-0600	600	250	20	11	12	1	2°

Consult Resistoflex for special sizes, end connections, handling medium, operating Conditions

E-mail : sales@resistoflex.in **www.resistoflex.in** **Mob.: 98182 00361 - 364**

REJ 430 TISA NOV13