MORE THAN

10

YEARS





Trustoflex®

VIBRATION CONTROL, SEISMIC & SHOCK ISOLATION SPECIALISTS

- Rubber Expansion Bellows
- SS Expansion Bellows
- Floating Flange Bellows
- Spring Vibration Isolators

Expansion joints (bellows) are installed in a piping system to absorb vibration and shock. They also reduce noise and compensate for misalignment.

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Trustoflex has more than ten years of experience supplying expansion joints and vibration isolation products. Our bellows absorb thermal expansion, vibration and shock in pipelines, dampen sound transmission and compensate for misalignment, protecting pumps, equipment and pipework in demanding industries.



Single Arch Rubber Expansion Bellows

Neoprene bellows with integral flanged ends. Absorbs lateral, angular and torsional movement. No gaskets required.

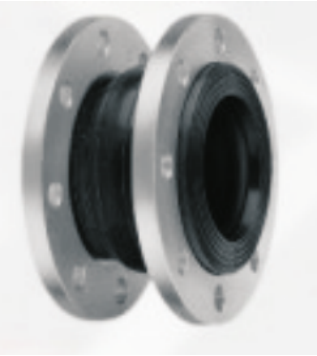
25 - 1000 mm | PN16/25



SS Expansion Bellows

Stainless steel metallic bellows for high pressure, high temperature and critical media.

25 - 1000 mm | PN16/25



Floating Flange Expansion Bellows

Prevents electrolytic corrosion with minimal face-to-face length while absorbing large movements.

HVAC, chilled / hot water



Spring Vibration Isolators

Round, turret, safe, easy, level, adjustable, hanging and open spring mounts, rubber pads and sprinkler hose pipe.

Machinery & equipment mounts

Single Arch Rubber Expansion Bellows

Neoprene rubber with integral flanged ends

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FEATURES

- Absorbs thermal expansion and vibrations in pipeline
- Absorbs lateral movements
- Absorbs angular and torsional movements
- Dampens sound transmission
- Reduces vibration
- Reduced fatigue factor
- No gaskets required for installation
- Lightweight
- Reduced heat loss



Control units: tie rods & gusset plates



APPLICATIONS

- Power generating stations
- Oil & gas
- Cooling systems
- Pumps
- Chemical plants
- HVAC
- Water treatment plants
- Sewage
- Food process
- Pulp and paper plants
- Chilled / hot water piping

SINGLE ARCH RUBBER BELLOWS - AT A GLANCE	
Design	AFI
Working pressure	PN16 / 25
Temperature	(-10) to (70) degree C
Medium	Air / Water
Size	25 mm to 1000 mm

Operating temperature up to 120 degree C is available per project specification (see Technical Specification page).

SS Expansion Bellows

SS 304 metallic expansion joint bellows

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FEATURES

- Stainless steel bellows designed to withstand high pressure, high temperatures or critical media. Choosing the correct material for your metal bellows is essential.
- Main body is a bellows (elastic element) with accessories such as end pipe, bracket, flange and conduit.
- Excellent flexibility, corrosion resistance, super high temperature resistance and high pressure resistance.
- Vibration control, seismic and shock isolation specialists.





APPLICATIONS

- Chemical plants
- Shipbuilding
- Off-shore applications
- Phosphate plants
- Power stations
- Nuclear plants
- Heating system

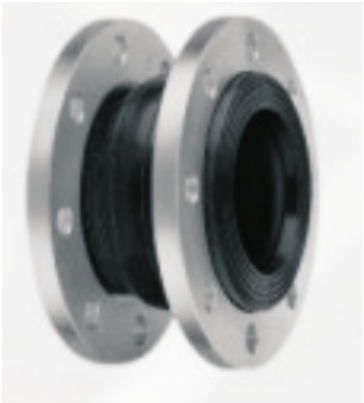
SS 304 METALLIC EXPANSION JOINT BELLOWS	
Design	AFI
Working pressure	PN16 / 25
Temperature	(-10) to (200) degree C
Medium	Air / Water / Chemical
Size	25 mm to 1000 mm
Flange	MS / SS304 / 316

Floating Flange Bellows & Isolators

Floating flange expansion bellows and spring vibration isolators

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FLOATING FLANGE EXPANSION BELLOWS



- Absorbs vibration & shock
- Prevents electrolytic corrosion
- Isolates vibrations
- Easy installation
- Minimal face-to-face dimensions while absorbing large movements
- Low spring rates due to inherent flexibility of rubber

APPLICATIONS

- Heating, ventilating and air conditioning
- Sanitary piping systems
- Piping systems for chilled or hot water
- Chemical plants
- Residential society
- Cooling systems

SPRING VIBRATION ISOLATORS





Hanging Spring Mount

Spring hanger with steel housing for suspended pipework, ducts and equipment.



Open Spring Mount

Open spring isolator on a base plate for machinery, pumps and fans.

Technical Specification

Neoprene rubber expansion joints - single arch, integral flanged ends, MS/SS class E / 150#

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Sl	Description	Specification
1	**Size**	25 mm to 1000 mm
2	**Operating temperature**	(-10) to (120) degree C
3	**Operating pressure**	10 / 16 / 20 / 25 kg/cm2 (max)
4	**System fluid**	Air / Water / Chemical
5	**Type**	Single arch expansion bellow
6	**Back-up / retainer ring**	Segmented, 4 quarters per ring, standard thickness, MOC: MS
7	**Design & testing pressure**	Tested to 25 kg/cm2
8	**Material of construction**	Neoprene rubber reinforced with rayon cords and MS rings

DESIGN & SUPPLY NOTES

1. The basic design shall be a single arch rubber expansion bellow.
2. For each bellows the back-up / retainer ring is supplied in segments to facilitate assembly at site.
3. Shore hardness of the rubber bellows: 65 +/- 5 degree Shore A.
4. Bellows are reinforced with canvas and steel wire, with integral flange ends.
5. Test and warranty certificate supplied along with the supply.
6. Dimensional tolerance within +/- 5 mm for ID and OD.
7. Each set of bellows comprises the rubber bellow and back-up rings.
8. Diagrams show end connections and critical dimensions diagrammatically only; not to scale.
9. Pre-dispatch inspection by our production team: dimensional checks and testing as per specification.

Dimensional Data

Single arch rubber expansion joints - all dimensions in mm

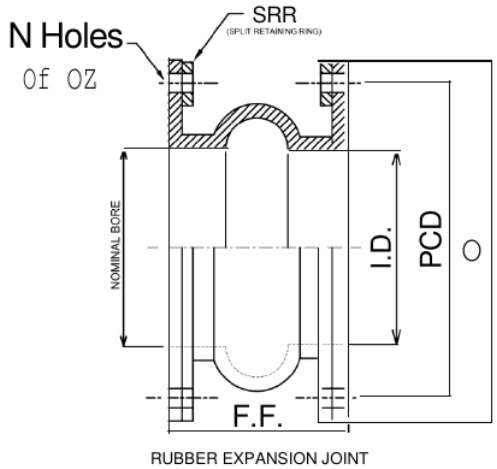
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JOINT						BS 10 TABLE D			ANSI 125/150# LBS			OPERATING	
Size (inch)	Size (mm)	F.F.	O.D.	Flange thk	Style	Hole Dia	No. of Holes	BCD	Hole Dia	No. of Holes	BCD	Press. kg/cm2	Vac. in Hg
1	25	150	114	14	RF101	15	4	83	15	4	79	10	26
1.5	40	150	126	14	RF101	15	4	98	18	4	98	10	26
2	50	150	152	14	RF101	18	4	114	18	4	121	10	26
2.5	65	150	178	14	RF101	18	4	127	18	4	148	10	26
3	80	150	190	14	RF101	18	4	146	18	4	152	10	26
4	100	150	226	14	RF101	18	4	178	18	8	191	10	26
5	125	150	254	14	RF101	18	8	210	22	8	216	10	26
6	150	150	281	14	RF101	18	8	235	22	8	241	10	26
8	200	150	342	19	RF101	18	8	292	22	8	298	10	26
10	250	200	406	19	RF101	18	8	356	25.4	12	362	10	26
12	300	200	482	19	RF101	18	12	406	25.4	12	432	10	26
16	400	300	533	22	RF101	24	12	520	28	16	540	7.5	26
18	450	300	640	22	RF101	24	12	584	32	16	578	7.5	26
24	600	300	840	25	RF101	27	12	756	35	20	749	7.5	26

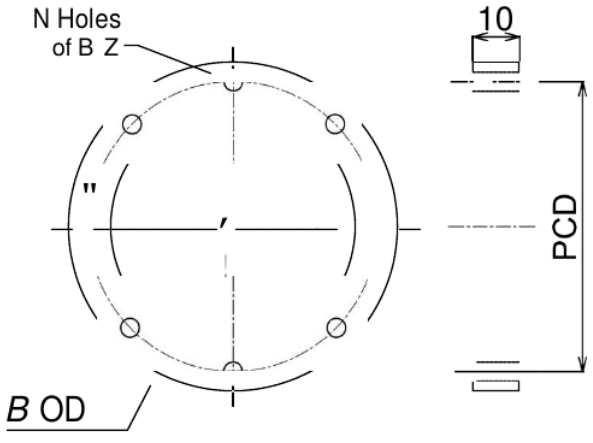
Rubber expansion joint tolerance as per FSA standard. Drawing dimensional tolerance +/- 2 mm. All dimensions in mm.

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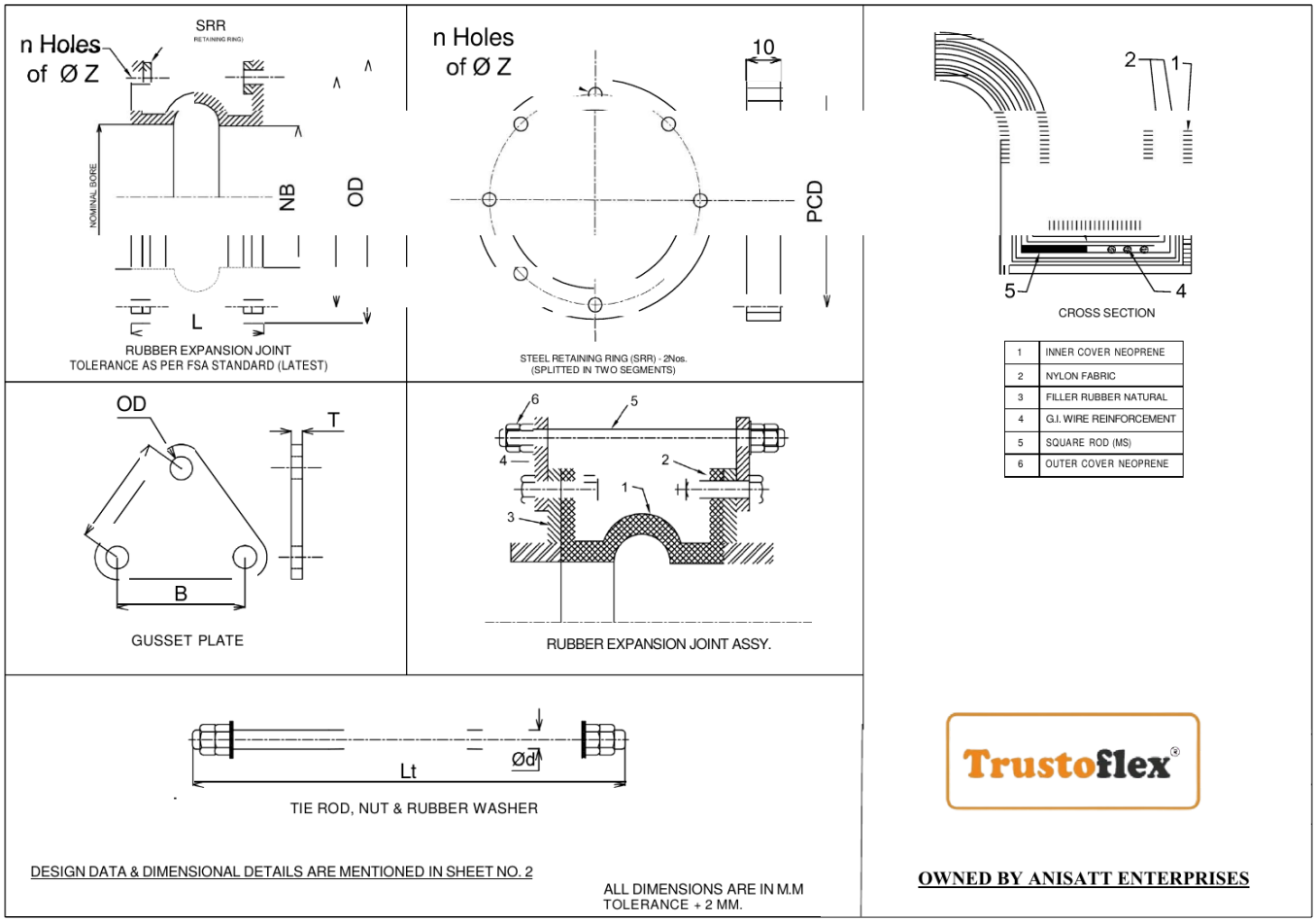
SINGLE ARCH RUBBER EXPANSION JOINTS



RUBBER EXPANSION JOINT
TOLERANCE AS PER FSA STANDARD



SPLIT RETAINING RING (SRR) - 2Nos.
(SPLIT IN TWO SEGMENTS)



MATERIALS OF CONSTRUCTION

No.	Part	Material
1	Inner cover	Neoprene
2	Fabric reinforcement	Nylon fabric
3	Filler rubber	Natural rubber
4	Wire reinforcement	G.I. wire
5	Control rod	Square rod (MS)
6	Outer cover	Neoprene

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