

TWIN SPHERE EPDM - TIED FLANGED

TYPE :

TRB/16/125

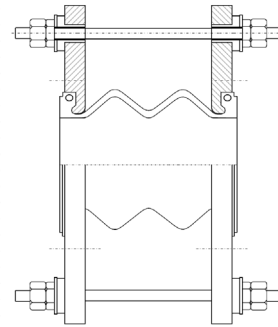
DESIGN CONDITIONS

Max. working pressure*	16 Bar.g
Burst Pressure*	>50 Bar.g
Vacuum Rating*	650mm HG
Temperature Range	-10 to 90°C
Test Pressure*	24 Bar.g.
Design Life	10 Years

*at ambient temperature

CONSTRUCTION MATERIALS

Bellows (outer)	EPDM, hot water resistant
Bellows (inner)	EPDM, ozone proof, warmth resistant
Reinforcement	High tensile synthetic fabric
Flanges	Carbon steel, zinc plated
Tie bars	High tensile carbon steel, zinc plated
Top Hat Washers	EPDM rubber, warmth resistant



UNIT IDENTIFICATION:

Manufacturer, Size, Elastomer, Date Stamp, Type No.

SPECIFICATION

Thermosel type TRB/16/125 twin sphere EPDM rubber bellows. EPDM rubber membrane with high tensile synthetic reinforcement and steel wire reinforced faces. Unit supplied with zinc plated carbon steel oval flanges drilled to BS4504 PN16 and fitted with adjustable tie-bar assembly, seated on noise absorbing rubber top hat washers. Other drillings available on request.

TECHNICAL DATA

NOMINAL SIZE	PART NUMBER	NEUTRAL LENGTH	AXIAL COMPRESSION	AXIAL ELONGATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
mm	TRB/____/16/125	mm	mm	mm	+/- mm	+/- Deg
32	TRB/0032/16/125	175	20	30	25	2
40	TRB/0040/16/125	175	20	30	25	2
50	TRB/0050/16/125	175	20	30	25	2
65	TRB/0065/16/125	175	20	30	25	2
80	TRB/0080/16/125	175	20	30	25	2
100	TRB/0100/16/125	225	25	30	30	2
125	TRB/0125/16/125	225	25	30	30	2
150	TRB/0150/16/125	225	25	30	30	2
200	TRB/0200/16/125	325	30	30	40	2
250	TRB/0250/16/125	325	30	30	40	2
300	TRB/0300/16/125	325	30	30	40	2

TYPICAL APPLICATIONS

Thermosel rubber bellows are used to absorb vibration and attenuate noise caused by reciprocation plant such as pumps, chillers and air handling units. They are also used to compensate for larger amounts of axial, lateral and angular pipework movements. Suitable for use of chilled water and heating systems.

GENERAL INFORMATION

This range of expansion joints is comprised of an EPDM twin sphere moulded bellows having carbon steel galvanised flanges which are free to rotate around the bellows axis. This feature facilitates installation and the construction ensures that all inner surfaces that contact the flow media, are EPDM rubber. **Not suitable** for drinking water, cooling water with oil containing additives, oily compressed air or permanent effect of steam.

Recommendations contained in our literature on correct installation of rubber expansion joints should be followed. These rubber bellows are restrained by means of tie-bars and therefore only require minimal guiding by intermediate anchors / guides. When operating at elevated temperatures the maximum operating pressure should be derated; refer to pressure / temperature chart. Vacuum rating is based on the unit being installed at its neutral length; the unit should not be extended on installation.

ALTERNATIVES

Where a TRB/16/125 is not suitable, please contact *Thermosel Solutions* to discuss the alternative options.