

**TWIN SPHERE EPDM - UNTIED FLANGED**

**TYPE :**

**TRB/16/124**

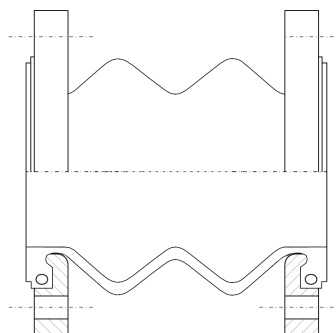
**DESIGN CONDITIONS**

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



**UNIT IDENTIFICATION:**

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

**SPECIFICATION**

*Thermosel* type TRB/16/124 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 flanges drilled to BS4504 PN16. Other drillings available on request.

**TECHNICAL DATA**

NOMINAL SIZE	PART NUMBER	NEUTRAL LENGTH	AXIAL COMPRESSION	AXIAL ELONGATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
mm	TRB/___/16/124	mm	mm	mm	+/- mm	+/- Deg
32	TRB/0032/16/124	175	25	15	20	30
40	TRB/0040/16/124	175	25	15	20	30
50	TRB/0050/16/124	175	25	15	20	30
65	TRB/0065/16/124	175	25	15	20	30
80	TRB/0080/16/124	175	25	15	20	30
100	TRB/0100/16/124	225	30	20	25	30
125	TRB/0125/16/124	225	30	20	25	30
150	TRB/0150/16/124	225	30	20	25	30
200	TRB/0200/16/124	225	40	25	30	30
250	TRB/0250/16/124	225	40	25	30	30
300	TRB/0300/16/124	225	40	25	30	30

**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 will extend in length when under pressure unless adequately anchored. 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/16/124 is not suitable, please contact *Thermosel Solutions* to discuss the alternative options.