

SINGLE SPHERE EPDM - UNTIED FLANGED VARIOUS LENGTHS

TYPE :

TRB/16/131

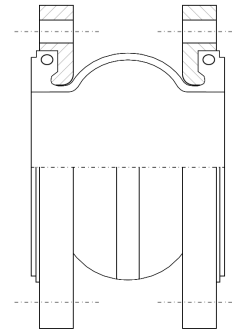
### DESIGN CONDITIONS

Max. working pressure*	16 Bar.g
Burst Pressure*	>50 Bar.g
Vacuum Rating*	700mm 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/16/131 single 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 BS10 Table E. Other drillings available on request.

### TECHNICAL DATA

NOMINAL SIZE	PART NUMBER	NEUTRAL LENGTH	AXIAL COMPRESSION	AXIAL ELONGATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
mm	TRB/___/16/131	mm	mm	mm	+/- mm	+/- Deg
32	TRB/0032/16/131	93	8	4	8	15
40	TRB/0040/16/131	93	8	4	8	15
50	TRB/0050/16/131	99	8	4	8	15
65	TRB/0065/16/131	108	12	6	10	15
80	TRB/0080/16/131	116	12	6	10	15
100	TRB/0100/16/131	129	12	10	12	15
125	TRB/0125/16/131	142	16	10	12	15
150	TRB/0150/16/131	156	16	10	12	15
200	TRB/0200/16/131	177	20	14	18	15
250	TRB/0250/16/131	206	20	14	18	15
300	TRB/0300/16/131	217	20	14	18	15

### 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 small 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 single 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/16/131 is not suitable, please contact *Thermosel Solutions* to discuss the alternative options.