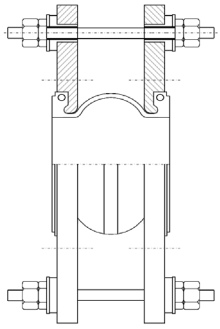
THERMOSEL®

RUBBER PUMP FLEXIBLE

STEEL WIRE REINFORCED DIN 4809 APPROVED - SINGLE SPHERE TIED FLANGED 130mm LONG | **TYPE :** WRB/16/122

DESIGN CONDITIONS

Max. operating conditions	16 bar @ 70°C
	10 bar @ 100°C
	6 bar @ 110°C
Test Pressure	24 Bar g.
Design Standard	DIN 4809



CONSTRUCTION MATERIALS

Inner	EPDM, hot water resistant
Reinforcement	Corrosion proof steel wire
Cover	EPDM, ozone proof, heat resistant
Flanges	Carbon steel, galvanised

UNIT IDENTIFICATION:

Red band, size & production date.

SPECIFICATION

Rubber Bellows type WRB/16/121 anti-vibration joint approved to DIN4809 (up to 200mm NB), with a minimum burst pressure of 30 bar after 10 years service. Red band EPDM rubber single sphere pump flexible c/w Aramid synthetic fibre reinforced and galvanised flanges drilled to BS4504 PN16. Fully adjustable tie-bars supplied with noise reducing bushes made of warmth and heat resistant EPDM.

TECHNICAL DATA

NOMINAL SIZE	MAX PRESSURE	PART NUMBER	NEUTRAL LENGTH	AXIAL COMPRESSION	AXIAL ELONGATION	LATERAL MOVEMENT	ANGULAR MOVEMENT
mm	Bar	WRB/____/16/122	mm	mm	mm	+/- mm	+/- Deg
32	16	WRB/0032/16/122	130	30	15	10	30
40	16	WRB/0040/16/122	130	30	15	10	30
50	16	WRB/0050/16/122	130	35	15	10	30
65	16	WRB/0065/16/122	130	35	15	10	25
80	16	WRB/0080/16/122	130	15	15	10	25
100	16	WRB/0100/16/122	130	15	15	10	20
125	16	WRB/0125/16/122	130	15	15	10	20
150	16	WRB/0150/16/122	130	15	15	10	15
200	16	WRB/0200/16/122	130	15	15	10	10
250	16	WRB/0250/16/122	130	15	15	10	5
300	16	WRB/0300/16/122	130	15	15	10	5

TYPICAL APPLICATIONS

Used as a safety compensator in heating installations according to DIN4809 standard with design temperature up to 110°C. For noise reduction, for compensation of lateral, angular movements and vibrations. This product is particularly ideal for the permanent stress found in heating installations where temperatures are continuous throughout the year, and where reliability and longevity are paramount.

GENERAL INFORMATION

This range of expansion joints is comprised of an EPDM single sphere moulded bellows having carbon steel galavanised 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 WRB/16/122 is not suitable, please contact *Thermosel Solutions* to discuss the alternative options.