

TIED MULTI-PLY PUMPFLEX UNIT

TYPE :

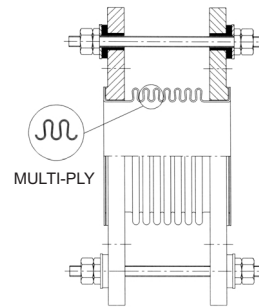
SMT/16/001

DESIGN CONDITIONS

Max. working pressure	16 Bar g.
Temperature Range	-20 to 120°C
Test Pressure	24 Bar g.
Design Code	EJMA

CONSTRUCTION MATERIALS

Bellows	321 Stainless Steel
Tie Bars	Carbon steel, zinc plated
Flanges	Carbon steel, zinc plated
Top Hat Washers	Rubber



UNIT IDENTIFICATION:

Manufacturer, Size, Country of Origin, Date Stamp, Type No.

SPECIFICATION

Thermosel type SMT/16/001 anti-vibration type expansion joint. High grade stainless steel thick wall multi-ply bellows with swivel oval carbon steel plated flanges drilled to BS4504-PN16. Carbon steel zinc plated adjustable tie bars seated on noise absorbing rubber top hat washers. Constructed to have all stainless steel internal surfaces. Designed to EJMA (Expansion Joint Manufacturing Association).

TECHNICAL DATA

NOMINAL SIZE	PIPE DIAMETER O.D	PART NUMBER	LATERAL MOVEMENT		OVERALL LENGTH	FACING DIAMETER (OD)mm	EFFECTIVE AREA cm ²	LATERAL SPRING RATE N/mm
			+ or - mm	Total mm				
mm	mm	SMT/____/16/001/PN16			mm			
50	60.3	SMT/0050/16/001/PN16	10	20	130	80	40	94
65	76.1	SMT/0065/16/001/PN16	10	20	130	104	60	155
80	88.9	SMT/0080/16/001/PN16	10	20	130	118	78	266
100	114.3	SMT/0100/16/001/PN16	10	20	130	142	122	472
125	139.7	SMT/0125/16/001/PN16	6	12	130	172	186	1786
150	168.3	SMT/0150/16/001/PN16	6	12	150	198	256	1635
200	219	SMT/0200/16/001/PN16	5	10	150	254	436	5571
250	273	SMT/0250/16/001/PN16	5	10	170	308	658	8422
300	324	SMT/0300/16/001/PN16	3	6	170	361	916	14636

Note - Spring Rate Tolerance +/- 25%

TYPICAL APPLICATIONS

Thick wall super multi-ply bellows are designed to absorb vibrations & small axial movements resulting from reciprocating plant such as pumps, generators, compressors etc. Suitable for use with potable or domestic water applications and critical pump applications exceeding 90°C

GENERAL INFORMATION

This type of expansion joint is comprised of stainless steel multi-ply convolutions having carbon steel zinc plated flanges which are free to rotate around the axis of the bellows. This feature facilitates installation and the construction ensures that all inner surfaces that contact the flow media, are stainless steel. *Thermosel* multi-ply pumpflex joints have many applications including vibration absorption, noise reduction, installation misalignment and pipe movement.

Recommendations contained in our literature on correct installation of expansion joints should be followed. This type of expansion joint is restrained by means of tie bars and therefore only require minimal guiding by intermediate anchors and guides.

ALTERNATIVES

Where an SMT/16/001 is not suitable please contact *Thermosel Solutions* to discuss the alternative options.