

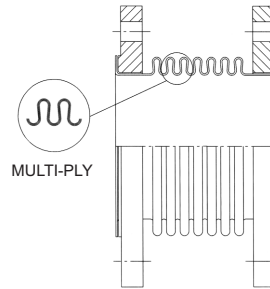
MULTI-PLY PUMPFLEX UNIT

TYPE :

SMP/16/002

DESIGN CONDITIONS

Max. working pressure 16 Bar g.
 Temperature Range -20 to 400°C
 Test Pressure 24 Bar g.
 Design Code EJMA



CONSTRUCTION MATERIALS

Bellows 321 Stainless Steel
 Flanges Carbon Steel, Zinc Plated

UNIT IDENTIFICATION:

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

SPECIFICATION

Thermosel type SMP/16/001 anti-vibration type expansion joint. High grade stainless steel thick wall multi-ply bellows with swivel carbon steel plated flanges drilled to BS4504-PN16. 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	AXIAL MOVEMENT		OVERALL LENGTH	FACING DIAMETER	EFFECTIVE AREA	AXIAL SPRING RATE
			+ or - mm	Total mm				
mm	mm	SMP/____/16/001/PN16			mm	(OD)mm	cm ²	N/mm
50	60.3	SMP/0050/16/001/PN16	15	30	130	80	40	52
65	76.1	SMP/0065/16/001/PN16	15	30	130	104	60	58
80	88.9	SMP/0080/16/001/PN16	15	30	130	118	78	76
100	114.3	SMP/0100/16/001/PN16	15	30	130	142	122	78
125	139.7	SMP/0125/16/001/PN16	8	16	130	172	186	191
150	168.3	SMP/0150/16/001/PN16	8	16	150	198	256	182
200	219	SMP/0200/16/001/PN16	8	16	150	254	436	285
250	273	SMP/0250/16/001/PN16	6	12	170	308	658	418
300	324	SMP/0300/16/001/PN16	6	12	170	361	916	396

Note - Spring Rate Tolerance +/- 25%

TYPICAL APPLICATIONS

Thick wall super multi-ply bellows are designed for the majority of applications, but are most effective for absorbing vibrations and 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 range of expansion joints is comprised of stainless steel multiply convolutions having carbon steel zinc plated flanges which are free to rotate around the axis of the bellows. This feature facilitates easy 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 and pipe movement.

Recommendations contained in our literature on correct installation of expansion joints should be followed. These expansion joints will extend in length under pressure conditions unless adequately restrained by anchors and guides.

ALTERNATIVES

Where an SMP/16/001 is not suitable please contact *Pickup Bellows Ltd* to discuss the alternative options.

UNRESTRAINED