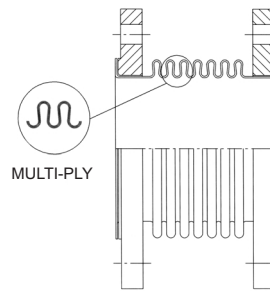


DESIGN CONDITIONS

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 (OD)mm | EFFECTIVE AREA cm ² | AXIAL SPRING RATE N/mm |
|--------------|-------------------|----------------------|----------------|----------|----------------|------------------------|--------------------------------|------------------------|
| | | | + or - mm | Total mm | | | | |
| mm | mm | SMP/___/16/001/PN16 | | | 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 multi-ply 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 absorbtion, 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 *Thermosel Solutions* to discuss the alternative options.