

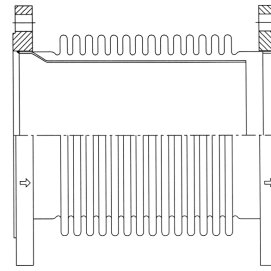
SINGLE AXIAL FLANGED

TYPE :

SAF/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
 Inner Sleeve 321 Stainless Steel

UNIT IDENTIFICATION:

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

SPECIFICATION

Thermosel type SAF/16/002 unrestrained axial movement expansion joint. High grade stainless steel membrane / inner flow sleeve with fixed carbon steel flanges drilled to BS4504-PN16. Designed to EJMA (Expansion Joint Manufacturing Association).

TECHNICAL DATA

| NOMINAL SIZE | PIPE DIAMETER O.D. | PART NUMBER | MOVEMENT | | OVERALL LENGTH | EFFECTIVE AREA | AXIAL SPRING RATE |
|--------------|--------------------|----------------------|-----------|----------|----------------|-----------------|-------------------|
| | | | + or - mm | Total mm | | | |
| mm | mm | SAF/___/16/002/PN16 | | | mm | cm ² | N/mm |
| 40* | 48.3 | SAF/0040/16/002/PN16 | 25 | 50 | 208 | 37 | 67 |
| 50* | 60.3 | SAF/0050/16/002/PN16 | 25 | 50 | 208 | 37 | 67 |
| 65 | 76.1 | SAF/0065/16/002/PN16 | 25 | 50 | 208 | 56 | 88 |
| 80 | 88.9 | SAF/0080/16/002/PN16 | 25 | 50 | 208 | 75 | 198 |
| 100 | 114.3 | SAF/0100/16/002/PN16 | 25 | 50 | 208 | 118 | 257 |
| 125 | 139.7 | SAF/0125/16/002/PN16 | 38 | 76 | 314 | 187 | 206 |
| 150 | 168.3 | SAF/0150/16/002/PN16 | 38 | 76 | 314 | 261 | 248 |
| 200 | 219.1 | SAF/0200/16/002/PN16 | 50 | 100 | 352 | 441 | 249 |
| 250 | 273 | SAF/0250/16/002/PN16 | 50 | 100 | 352 | 665 | 313 |
| 300 | 323.9 | SAF/0300/16/002/PN16 | 50 | 100 | 352 | 918 | 373 |
| 350 | 357 | SAF/0350/16/002/PN16 | 45 | 90 | 325 | 1200 | 840 |
| 400 | 406 | SAF/0400/16/002/PN16 | 45 | 90 | 325 | 1530 | 940 |
| 450 | 457 | SAF/0450/16/002/PN16 | 45 | 90 | 325 | 1929 | 840 |
| 500 | 508 | SAF/0500/16/002/PN16 | 45 | 90 | 343 | 2342 | 940 |
| 550 | 559 | SAF/0550/16/002/PN16 | 45 | 90 | 310 | 2895 | 690 |
| 600 | 610 | SAF/0600/16/002/PN16 | 45 | 90 | 310 | 3394 | 740 |

* Not fitted with internal flow sleeves.

Note - Spring Rate Tolerance +/- 25%

TYPICAL APPLICATIONS

These are designed to absorb axial movement resulting from thermal expansion / contraction in ferrous pipework. Suitable for LTHW, MTHW and steam applications.

INSTALLATION

Please refer to the recommendations contained in our literature on the installation of expansion joints. This expansion joint will extend in length when under pressure, unless adequately restrained by anchors and guides. Ideally the joint should be located adjacent to an anchor with the first guide not more than four pipe diameters from the expansion joint. The next guide should be positioned 14 pipe diameters from the first, with subsequent guides positioned as necessary to ensure that the pipeline is free from sag or pressure deflection.

The SAF/16/002 is supplied at its free length and will usually require cold drawing on installation.

ALTERNATIVES

Where an SAF/16/002 is not suitable please contact *Pickup Bellows Ltd* to discuss the alternative options.