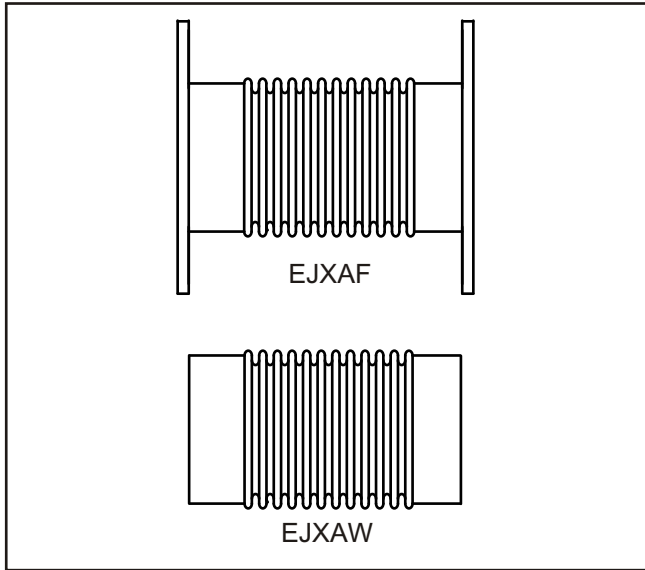


# EXHAUST / FLUE EXPANSION JOINTS

## Model EJXAF + EJXAW



### APPLICATIONS

Exhaust expansion joints are designed to accommodate extremes of thermal pipe expansion in exhaust lines, flues and chimneys.

These models have either carbon steel or stainless steel parts to suit the temperature and corrosive properties of the gas flowing through them.

They can be used accordingly for the following applications:-

- Combined Heat & Power (CHP)
- Generator Sets
- Boiler Plant Flues
- Engine Exhausts

| Nominal Size DN (mm) | Installation Length (mm)       | Axial Movement (mm) | Effective Area (cm <sup>2</sup> ) | Spring Rate AX (N/mm) | Product Code (MODEL-SIZE-OAL-MVT-ENDS) |
|----------------------|--------------------------------|---------------------|-----------------------------------|-----------------------|--|
| 200                  | LENGTH DEPENDS ON FLANGE TABLE | +/-50               | 469                               | 36                    | EJXAF-200-###-50/50-PN##               |
| 250                  |                                | +/-50               | 700                               | 44                    | EJXAF-250-###-50/50-PN##               |
| 300                  |                                | +/-50               | 958                               | 53                    | EJXAF-300-###-50/50-PN##               |
| 350                  |                                | +/-50               | 1198                              | 62                    | EJXAF-350-###-50/50-PN##               |
| 400                  |                                | +/-50               | 1530                              | 70                    | EJXAF-400-###-50/50-PN##               |
| 450                  |                                | +/-50               | 1902                              | 83                    | EJXAF-450-###-50/50-PN##               |
| 500                  |                                | +/-50               | 2315                              | 88                    | EJXAF-500-###-50/50-PN##               |
| 600                  |                                | +/-50               | 3278                              | 106                   | EJXAF-600-###-50/50-PN##               |
| 800                  |                                | +/-50               | 5333                              | TBA                   | EJXAF-800-###-50/50-PN##               |
| 200                  |                                | 320                 | +/-50                             | 469                   | 36                                     |
| 250                  | 320                            | +/-50               | 700                               | 44                    | EJXAW-250-320-50/50-WELD               |
| 300                  | 320                            | +/-50               | 958                               | 53                    | EJXAW-300-320-50/50-WELD               |
| 350                  | 320                            | +/-50               | 1198                              | 62                    | EJXAW-350-320-50/50-WELD               |
| 400                  | 320                            | +/-50               | 1530                              | 70                    | EJXAW-400-320-50/50-WELD               |
| 450                  | 320                            | +/-50               | 1902                              | 83                    | EJXAW-450-320-50/50-WELD               |
| 500                  | 320                            | +/-50               | 2315                              | 88                    | EJXAW-500-320-50/50-WELD               |
| 600                  | 320                            | +/-50               | 3278                              | 106                   | EJXAW-600-320-50/50-WELD               |
| 800                  | 330                            | +/-50               | 5333                              | TBA                   | EJXAW-800-330-50/50-WELD               |

### SPECIFICATION

EJXAF - Flanged model with stainless steel bellows, internal flow sleeve and carbon steel fixed flanges.

EJXAW - Weld end model with stainless steel bellows, internal flow sleeve and carbon steel or stainless steel weld ends.

Models with movements other than those stated above can be designed and manufactured to order.

### OPERATING PARAMETERS

Bespoke models are designed to suit extremes of working temperature. Expansion rates for exhaust temperatures of different flue materials are shown as follows:

#### Stainless Steel 18/8

|            |                      |
|------------|----------------------|
| At 200 °C. | Exp. Rate = 3.4mm/m  |
| At 300 °C. | Exp. Rate = 5.2mm/m  |
| At 400 °C. | Exp. Rate = 7.1mm/m  |
| At 500 °C. | Exp. Rate = 9.2mm/m  |
| At 600 °C. | Exp. Rate = 11.2mm/m |

#### Carbon Steel, Carbon Mo., Low Cr. Mo. (<3%Cr.)

|            |                     |
|------------|---------------------|
| At 200 °C. | Exp. Rate = 2.4mm/m |
| At 300 °C. | Exp. Rate = 3.8mm/m |
| At 400 °C. | Exp. Rate = 5.3mm/m |
| At 500 °C. | Exp. Rate = 7.0mm/m |
| At 600 °C. | Exp. Rate = 8.7mm/m |

Design Pressure = 0.5 Barg.  
Cold Test Pressure = 1.0 Barg.