



EMFLEX[®]

Screwed Axial Expansion Joints

N. Minikin & Sons Limited

Spa House, Hookstone Park, Harrogate, North Yorkshire, HG2 7DB

Email: enquiries@minikins.co.uk Web: www.minikins.co.uk

Tel: 01423 889845 Fax: 01423 880724



Screwed Axial Expansion Joints

EMFLEX axial expansion joints with screwed ends are used to absorb thermal expansion in straight pipelines. They are installed in the pipeline and anchors are required to withstand the forces set up in the pipeline due mainly to the internal pressure in the bellows. Correct alignment of the pipeline is essential with this type of expansion joint and proper pipe alignment guides are recommended. Only one axial expansion joint should be installed between each pair of anchors.



TYPE BAT

For use on steel pipelines and is suitable for steam and hot water for heating. This unit has stainless steel bellows, inner sleeve and carbon steel ends with male BSP taper thread.

TYPE BATN

For use on copper pipelines and is suitable for condensate and domestic hot water. This unit has stainless steel bellows, inner sleeve and stainless steel ends with male BSP taper thread.

Normal Size Mm	Axial Compression Mm	Installed Overall Length Mm	Force to Compress Newtons / mm	Effective Area Cm ²
15	25	182	15	4
20	25	182	15	6
25	25	185	13	10
32	25	200	31	16
40	25	215	31	21
50	25	247	24	35
15	50	334	8	4
20	50	343	8	6
25	50	335	6	10
32	50	340	15	16
40	50	340	16	21
50	50	328	17	35

Other sizes and movements are available.

External protective sleeves are available, suffix E, e.g. BATE and BATNE.

Working Pressure: 16 bar (1600 kPa).
Test Pressure: 1.5 x Working Pressure.
Temperature: 185°C maximum.

Design Consideration:
 For details of pipe anchors and alignment guides see our design book. Axial expansion joints can be supplied at a compressed length for use as contraction joints on chilled water services.

Material Specifications:

Bellows and internal sleeves are stainless steel.
 For steel service the tube ends are carbon steel with male BSP taper thread.
 For copper service the tube ends are stainless steel with male BSP taper thread.

Notice

All axial expansion joints are pre-stressed at the factory and are supplied at the installation length.

