Fabric Expansion Joints

Manufactures & Suppliers

Future Thermal Pty Ltd

Textile Insulation & Heat Sealing Products

24 Nicole Way
Dandenong South. 3175
Melbourne. Australia.

Tel: +613 9792 2227
Fax: +613 9792 2232

Email: sales@futurethermal.com.au

URL: http://www.futurethermal.com.au

Manufactures & Suppliers
Future Thermal Pty Ltd
Textile Insulation & Heat Sealing Products
24 Nicole Way. Dandenong South Victoria Australia 3175
Tel: (03) 9792 2227 Fax: (03) 9792 2232

FABRIC EXPANSION JOINTS

High pressure and small movement requirements are well suited with convoluted METALIC bellows.

But what about the low pressure with excessive movement, Axial, Lateral & Angular

Future Thermal will design and manufacture a FABRIC expansion joint to suit most mediums however big the misalignments are.

Future Thermals 21st century industrial fabric range gives us the edge over many competitor, when coupled with our quality manufacturing and designs.

Our design staff has over 28 years experience backed up by our highly proficient manufacturing team.

Future Thermal has what it takes in customer service, we not only design and manufacture we can also supply the associated steelwork and arrange for installation if required.

Our **24/7 Emergency breakdown service** is also part of the package.

Mike: Mobile 0411593396

Geoff: Mobile 0411593397

Ben: Mobile 0413878477

Manufactures & Suppliers
Future Thermal Pty Ltd
Textile Insulation & Heat Sealing Products

24 Nicole Way. Dandenong South Victoria Australia 3175

Tel: (03) 9792 2227 Fax: (03) 9792 2232

Questionnaire for Fabric Expansion Joints

Name of company _____
Address _____
Contact person/Department _____
Telephone: _____
Telefax: _____
E - mail: _____

Nominal inside diameter in mm _____ **Minimum operating pressure (Pa)** _____
Operating temperature (°C) _____ **Maximum operating pressure (Pa)** _____
Maximum temperature (°C) _____ **Test pressure (Pa)** _____
Ambient temperature (°C) _____ **Possible of pressure variations** yes ☐ / no ☐
Fitting length L required (mm) _____ Number / year (month / day / time) _____
Location of expansion joint outside ☐ inside ☐ **Medium velocity (m/s)** _____
Number of expansion joints _____

Medium

air clean	yes ☐ no ☐	specification of admixture	_____
acids content flue gas	no ☐ yes ☐	specification of composition	_____
contents of dust / fly ashes	no ☐ yes ☐	specification of composition	_____
value below dew point	no ☐ yes ☐	during operation ☐	only at weaning ☐
other, specification of compostion	_____		

Flow direction of medium vertical ↑ ☐ / ↓ ☐ or horizontal ↔ ☐ or obliquely ↑ ☐ / ↓ ☐

What movements need you compensate ?

Oscillations / Vibrations ☐	Frequency / Amplitude	_____
Thermal dilatations or assembling inaccuracy ☐	Axial extension (+) / compression (-) (mm)	_____
	Lateral (mm)	_____
	Angular (angle °)	_____

Possible of lateral pre-stressing no ☐ / yes ☐ (mm) _____
Need you insulate expansion joint ? no ☐ / yes ☐ why ? _____

Protective sleeve no ☐ yes ☐
Steel components on fastening of expansion joint no ☐ yes ☐

Documentation _____

Further requirements _____

Specification dimension of expansion joint

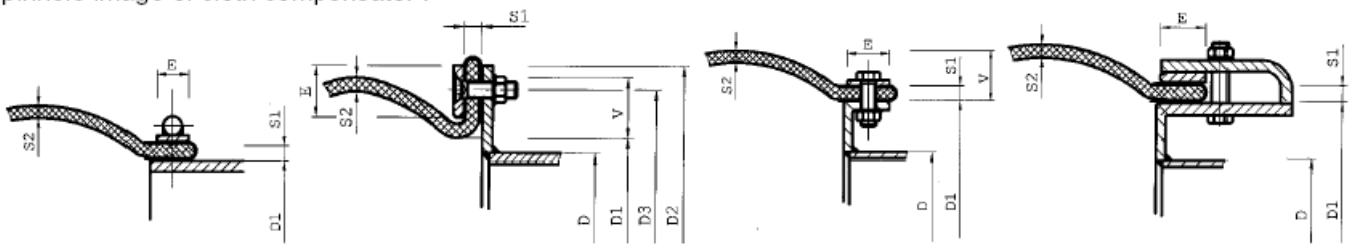
Dimension outside diameter of piping	**D** (mm)	_____
Dimension inside diameter of piping	**DN** (mm)	_____
Dimension inside diameter of expansion joint	**D1** (mm)	_____
Dimension outside diameter of expansion joint	**D2** (mm)	_____
Dimension punching of flanges expansion joint	**D3** (mm) / / number x diameter of holes	_____
Dimension inside diameter of flanges expansion joint	**D** (mm)	_____

Manufactures & Suppliers
Future Thermal Pty Ltd
Textile Insulation & Heat Sealing Products

24 Nicole Way. Dandenong South Victoria Australia 3175 Tel: (03) 9792 2227 Fax: (03) 9792 2232

Questionnaire for Fabric Expansion Joints

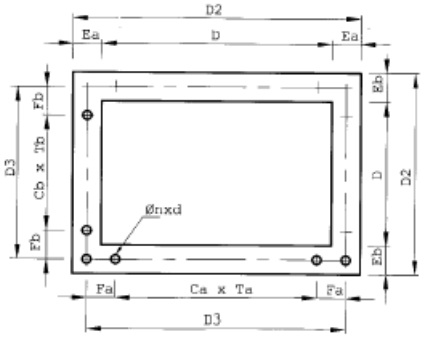
Requested fixing method:
In case the cloth compensator is determined for an existing plant, please indicate detailed measurements and pinhole image of cloth compensator !



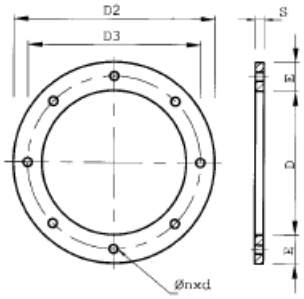
Typ A **Typ B** **Typ C** **Typ C-s**

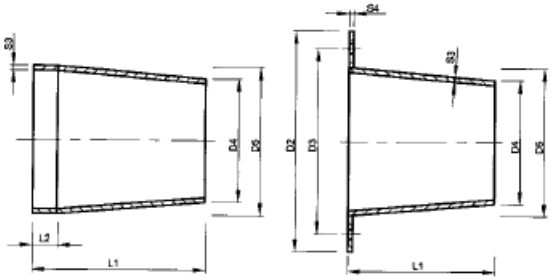
Measurement specification of requested steelworks :

Designation.	Dimension in mm	Designation.	Dimension in mm	Designation.	Dimension in mm
D		**Ca**		**E**	
D2		**Cb**		**n**	
D3		**Ta**		**Ød**	
D4		**Tb**		**M**	
D5		**Fa**		**S3**	
R2		**Fb**		**S4**	
L1		**L2**		**N**	

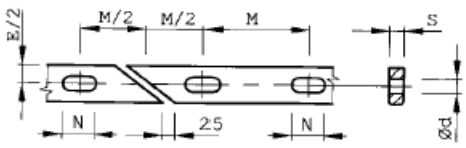


Thrust flanges

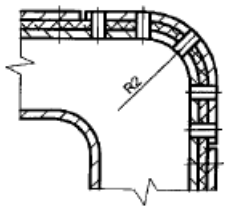




Protective sleeve



Detail of punching of clamping flange for circular compensators



Detail of curved angle - compensators type C (C-s)





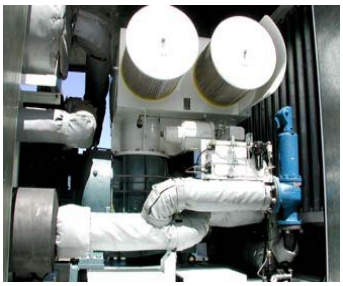
Manufactures & Suppliers
Future Thermal Pty Ltd
Textile Insulation & Heat Sealing Products
24 Nicole Way. Dandenong South Victoria Australia 3175
Tel: (03) 9792 2227 Fax: (03) 9792 2232

General product information

Future Thermal is one of Australia's leading suppliers and manufacturers of thermal fabrics and fabrications. Our experience, knowledge and facility to design and fabricate gives us the edge over many competitor.

Our product range:

- Industrial Textiles & Insulation
- Generator Set & Exhaust Covers/Wraps
- Valve & Process Covers
- Fabric Expansion Joints
- Glass Fibre & Ceramic Fibre Braids, Ropes etc
- Welding Blankets & Curtains
- Tadpole Tape/Furnace/Oven Door Seals
- Wood Heater Door Seals
- Acoustic Materials
- Pump & Valve Packings
- Gaskets & Sheet Gasketing Material



Removable Cover in production

Fabric Expansion Joints. (FEJ)

Future Thermals fabrication facility has the technical capability to design and manufacture fabric expansion joints and duct joining strip suitable for temperatures up to 550ºC.
Each fabric expansion joint is custom engineered to the design requirements.
Selection of material is based on individual specifications.
Light in weight requiring lighter duct supports when compared to metallic joints.
Future Thermal fabrication facility also can assist in the supply of the associated steel work required when installing fabric expansion joints.

FEJ manufacturing and assembly workshop

FEJ kit complete with associated steel work

Manufactures & Suppliers
Future Thermal Pty Ltd
Textile Insulation & Heat Sealing Products
24 Nicole Way. Dandenong South Victoria Australia 3175
Tel: (03) 9792 2227 Fax: (03) 9792 2232

Heat Conservation & Personnel Protection

Valve & process Covers.

All covers are designed so as they are easily removed and replaced when access is required to the valve. Fixing can be Industrial Hook & Loop or Stainless steel pins and lock wire, this would depend on temperature and environment.

Control Valve Thermal Cover

Exhaust Thermal Covers.

Future Thermal can design, manufacture and install a removable/reusable thermal exhaust cover(s) to suit most exhaust and turbo applications.
We have a team of technical consultants that can assist you in choosing the right materials for you application and if no drawings available can measure onsite.

Cowl Silencer Thermal Cover

Glass & Ceramic Fibre Products.

In our range we have braids, ropes, tapes, boards & blanket.
<u>Applications include:</u>
Combustion oven door/cover seals, caulking of furnace brickwork, duct flange joints, etc

Glass fibre rated to 550°C (1022°F)
Ceramic Fibre rated to 1200°C (2192°F)

Door Seals

We manufacture both standard and non-standard seals. Standard being Tadpole (“P” Section) and Folded (boiler door). Some of the latest non standard include Channel with Stainless Steel mesh encapsulation and silicone coated EPDM with glass fibre encapsulated memory seal.

Tadpole

Channel

Manufactures & Suppliers

Future Thermal Pty Ltd

Textile Insulation & Heat Sealing Products

24 Nicole Way. Dandenong South Victoria Australia 3175 Tel: (03) 9792 2227 Fax: (03) 9792 2232

Industrial Textiles & Insulation

Our range of industrial textiles covers both plain and coated. Not only does this help with our capability in our design for the Thermal Covers etc it gives us an edge over our competitors, that we can supply to our clientele the base materials should they have their own manufacturing facility.

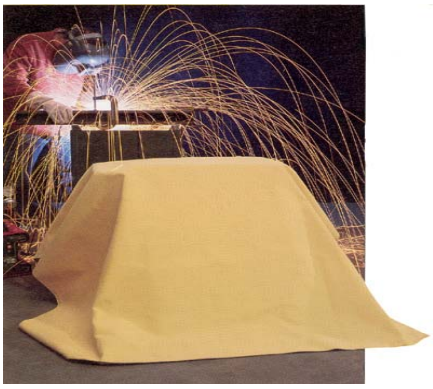
Packings & Gaskets

Future Thermal supplies packing and gaskets to a cross section of industries, including the boiler and pump industries. We have a diverse range available to accommodate most applications.

Fibre & Metallic Gasketing

FUTURE THERMAL Pty Ltd
24 Nicole Way
Dandenong South. 3175
Melbourne.
Australia.

Tel: +613 9792 2227
Fax: +613 9792 2232
Email: sales@futurethermal.com.au
URL: http://www.futurethermal.com.au/



Welding blankets & screens

Product Flexible Chute

Fire Tape

Racing Fuel Thermal Drum Cover