THERMOFLEX
SINCE 1982

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EXPANSION JOINTS



Expansion joints are designed to relieve stress in piping and ducting systems by absorbing dimensional changes on the axial plane caused by thermal expansion and vibration.

Due to the numerous applications and specification options, we've developed this checklist of information required to proceed with your request.

APPLICATION: Identify what will flow through the expansion joint(s): *(check one)*

☐ Water ◯ Oil ◯ Gas ◯ Other *(specify):* _____

Is this for an ☐ existing or ◯ new installation? *(check one)*

Is there an overall length restriction? ☐ Yes ◯ No

If yes, specify: _____ inches or _____ mm

**Overall length restriction may limit capacity to achieve desired axial compression/expansion.*

Should the length be designed in function of the desired movement(s)? ☐ Yes ◯ No

SPECIFY SYSTEM PRESSURE:

Design pressure: _____ PSI Operating pressure: _____ PSI

SPECIFY SYSTEM TEMPERATURE:

Design temperature: _____ ºF or _____ ºC

Operating temperature: _____ ºF or _____ ºC

END CONNECTIONS:

Flange(s): ☐ ANSI B16.5 ◯ Metric ◯ Made-to-measure *(attach drawing)*
◯ Other *(specify)* _____

Material: ◯ Carbon steel ◯ 304SS ◯ 316SS
☐ Other *(specify)* _____

Pressure capacity: ☐ #150 ◯ #300 ◯ Other *(specify)* _____

Other: ◯ Fixed flange(s) ◯ Floating(s) ☐ Other *(specify)* _____

SPECIFY MOVEMENTS:

Axial expansion: _____ inches or _____ mm

Axial compression: _____ inches or _____ mm

Lateral* Offset: _____ inches or _____ mm

**If not specified it is assumed that capacity for lateral offset is a secondary derivation of the design.*

SPECIFY FLOW RATE:

Flow Rate of application: _____ FPS *(ft. per sec.)*

Depending on the flow rate (Cv), internal corrugations can generate resistance reducing the expansion joint's capacity for movement. In high flow applications, a liner may be required.

Thermoflex bellows elements are sourced from suppliers who manufacture in Canada and the U.S.

Thermoflex expansion joints are made-to-measure, assembled and welded at our facility in Canada and each unit is pressure tested prior to delivery.

Flanged Thermoflex expansion joints are supplied with steel support rods to keep flange faces parallel; these support rods are to be removed after installation.

All expansion joints must be properly anchored and guided upon installation by a third party.

DISCLAIMER: While every effort has been made to ensure the accuracy of the data herein, the data cited are subject to change without notice or liability.