



Technical Information

Terms and definitions for fabric expansion joints

RAL-GZ 719

TI-014

Rev. 6

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Active length	The part of the flexible element which allows movement.
Ambient temperature	The temperature affecting the exterior of the fabric expansion joint
Angular deviation	see angular movement
Angular movement	The movement which occurs when one flange of the expansion joint is moved to an out-of-parallel position with the other flange, such movement being measured in degrees.
Axial compression	The reduction of the flange distance of an expansion joint in reference to the flange distance at installation.
Axial extension	The increase of the flange distance of an expansion joint in reference to the flange distance at installation.
Belt type expansion joint	An expansion joint with a flat belt clamping area
Bolt hole pattern	Allocation of holes for fastening the fabric expansion joint
Design pressure	Pressure that the expansion joint is allowed to reach permanently. Not equal to the incident pressure.
Design temperature	Temperature that the compensator is allowed to reach permanently. Not equal to the incident temperature or media temperature.
Dew point	The temperature at which parts of the gas condense to form a liquid. Particularly important for acids; acid dew point varies with gas composition and is a higher temperature than the moisture dew point.
Expansion Joint	Flexible sealing element to absorb multidimensional movements

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Fabric Expansion Joint	Generic term for expansion joints consisting of elastomers, thermoplastics and/or fabrics, see also RAL Quality and Test Specifications, paragraph 1.1.2.
Flange	Connects the expansion joint to the duct system.
Flange connection	Way of expansion joint connection to the duct system.
Flange Distance	Distance between the duct flanges, on which the expansion joint is fixed (see TI-004, 6. Dimension „W“).
Flange type expansion joint	An expansion joint with angled flanges (u-type)
Flexible length	That part of the expansion joint which is not clamped
Flow direction	The direction of the flow through the system
Flue-gas tightness	Grade of tightness according to the Technical Information TI-002.
Incident pressure	Temporarily limited pressure above the design pressure. Incidents can shorten the operating life.
Incident temperature	Temporarily limited temperature above the design temperature. Incidents can shorten the operating life.
Inside Insulation	Insulation installed inside the duct
Internal flow sleeve	Device for protection against abrasion and to optimization of flow
Lateral movement	The relative displacement of the two ends of the expansion joint perpendicular to its longitudinal axis
Media temperature	Temperature of the media in the system

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Movement

Axial, lateral, angular and torsional displacements which the expansion joint is required to compensate in reference to the installed situation (see TI-004, 5.)

Nekal tightness

Grade of tightness according to the Technical Information TI-003.

Operating pressure

The pressure to which the expansion joint is exposed during normal operating conditions

Operating temperature

The temperature to which the expansion joint is exposed during normal operating conditions

Outside insulation

Insulation placed on the outside of the duct or expansion joint

Refractory

Acid or heat resistant ceramic insulation inside the duct system

Pre-insulation

Insulation or insulation pillow in front of the expansion joint

Torsion

The twisting of one end of an expansion joint with respect to the other end about its longitudinal axis

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