



Technical Information

Expansion joint questionnaire

RAL-GZ 719

TI-004

Rev. 2

Page 1 of 4

--

Company: _____

Street: _____

Place: _____

Person in charge: _____

Department: _____

Telephone: _____

Telefax: _____

E-Mail: _____

Order No.: _____ Date: _____

Project: _____ Project No.: _____

Item No.: _____ Quantity: _____

1. Medium

flue gas air waste gas other: _____

composition according to enclosed analysis

dry moist

dust no yes: _____ content: _____ mg/m³

solid particles no yes: _____ content: _____ mg/m³

grain size _____

flow rate: _____ m³/h Flow velocity: _____ m/s

Direction of flow: horizontal vertically up vertically down
 diagonally up diagonally down

temperature falling below dewpoint level no yes Dew point: _____ °C

condensate strongly acid slightly acid neutral slightly basic strongly basic

2. Temperatures

Temperature of medium: _____ °C Design temperature: _____ °C Excursion temperature _____ °C

Duration of individual excursions days: _____ hours: _____ minutes: _____

Duration of excursions per year days: _____ hours: _____ minutes: _____

Ambient temperature: _____ °C standard value: 50 °C with a free convection

Radiation impeded no yes, by: _____

Passive radiation by components no yes, by: _____

external insulation no yes! Has to be confirmed by manufacturer

Edited by the Quality Committee of the Quality Association for Fabric Expansion Joints



Technical Information

Expansion joint questionnaire

RAL-GZ 719

TI-004

Rev. 2

Page 2 of 4

3. Pressure

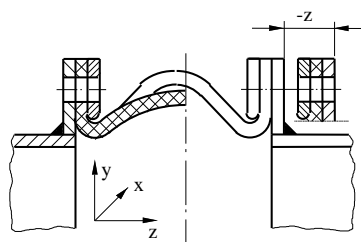
Operating pressure: _____ mbar Neg. op. pressure: _____ mbar Design pressure: _____ mbar
 Transient pressure no yes, from: _____ mbar to: _____ mbar Frequency: _____
 Surge load no yes, from: _____ mbar to: _____ mbar Frequency: _____
 Excursion pressure: _____ mbar Neg. exc. pressure: _____ mbar duration of excursion: _____ h
 Excursion frequency: _____ per: _____ at a temperature of _____ °C

4. Specified tightness

without flue gas tight acc. to TI-002 nekal tight acc. to TI-003

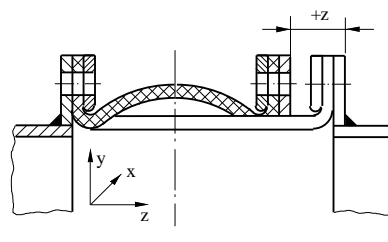
5. Movements

Axial compression



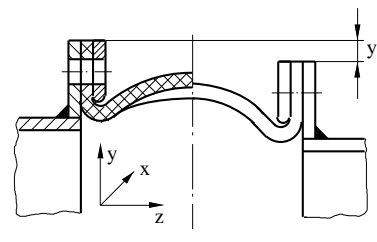
- z: _____ mm

Axial elongation



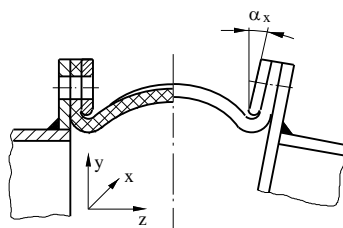
+ z: _____ mm

Lateral movement



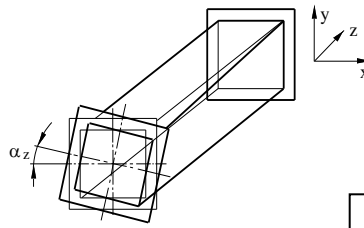
x: _____ mm; y: _____ mm

Angular movement



α_x : _____ ° α_y : _____ °

Torsion



α_z : _____ °

Vibration

no yes

frequency: _____ s⁻¹

amplitude: _____ mm

Offset of the connecting flanges must be specified in detail.

6. Design

Type of connection tubular connection flange connection
 Delivery open endless
 Baffle/sleeve no yes welded bolted
 Insulation between expansion joint and baffle/sleeve yes no
 Tubular connection

Edited by the Quality Committee of the Quality Association for Fabric Expansion Joints



Technical Information

Expansion joint questionnaire

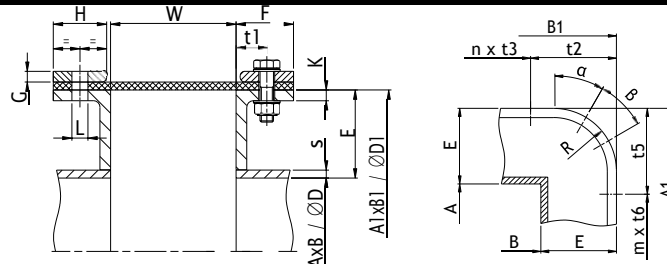
RAL-GZ 719

TI-004

Rev. 2

Page 3 of 4

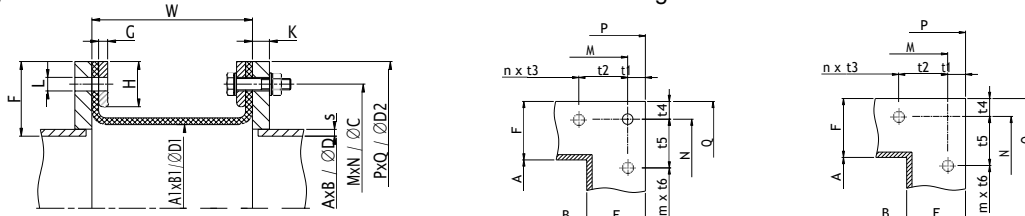
Tubular connection



Flange connection

with hole in the edge

without hole in the edge



Rectangular

Round

AxB	inner duct dimension	A	.....	mm	D	inner duct diameter	D	.....	mm
		B	.....	mm					
A1xB1	inner dimension of the expansion joint	A1	.....	mm	D1	inner diameter of the expansion joint	D1	.....	mm
		B1	.....	mm					
E	set back	E	.....	mm	E	set back	E	.....	mm
F	flange height/width	F	.....	mm	F	flange height/width	F	.....	mm
G	counter flange thickness	G	.....	mm	G	counter flange thickness	G	.....	mm
H	counter flange width	H	.....	mm	H	counter flange width	H	.....	mm
K	flange thickness	K	.....	mm	K	flange thickness	K	.....	mm
L	bolt hole diameter	L	.....	mm	L	bolt hole diameter	L	.....	mm
MxN	hole line distance	M	.....	mm	C	bolt pitch	C	.....	mm
		N	.....	mm	N	number of holes	N	.....	mm
PxQ	outer dimension	P	.....	mm	D2	outer diameter	D2	.....	mm
		Q	.....	mm					
R	radius	R	.....	mm					
S	duct wall thickness	S	.....	mm	S	duct wall thickness	S	.....	mm
W	flange distance	W	.....	mm	W	flange distance	W	.....	mm
t1	distance (round / rect.)	t1	.....	mm	t4	distance (only rect.)	t4	.....	mm
t2	distance (only rect.)	t2	.....	mm	t5	distance (only rect.)	t5	.....	mm
t3	distance (only rect.)	t3	.....	mm	t6	distance (only rect.)	t6	.....	mm
m	number of holes	m	.....		n	number of holes	n	.....
α	angle	α	.....	°	β	angle	β	.....	°

Edited by the Quality Committee of the Quality Association for Fabric Expansion Joints



Technical Information

Expansion joint questionnaire

RAL-GZ 719

TI-004

Rev. 2

Page 4 of 4

7. Scope of supply

- Expansion joint
- Internal insulation
- Counter flanges/tension strips
- Duct flanges
- Bolting
- Baffle/sleeve
- Baffle/sleeve gasket

- supplied in parts
- supplied pre-assembled

- On site measurement
- Mounting
- Supervision

8. Other details

9. Sketch/Drawing

Sketch/drawing enclosed yes no

Drawing No.: _____

Remark: State full and precise details for your safety

Place

Date

Signature

**Edited by the Quality Committee of the Quality
Association for Fabric Expansion Joints**