

FABRIC COMPENSATORS

9.0 Elastomer, rubber and metal compensators

Elastomer compensators for FGD and FGP plants (see also 3.3.6)

These compensators are used wherever an increased incidence of chemical attack is anticipated. Depending on the elastomer quality, they can be used at up to 200 °C.

They are available for round and square-shaped conduit with or without pre-formed bulge at the edges and upon request with a vulcanised outlet nozzle with or without flange connection.

We produce elastomer compensators using a patented manufacturing technique with and without a pre-formed bulge at the edge area.



Edge without pre-formed bulge

Rubber compensators

With pressure-proof cord inserts for all sectors of industry to compensate expansions and to reduce noise and vibration transmission - also in a braced version.



kempchen - rubber compensator

Metal compensators

For high pressure and temperature loads, also in special steels and all weldable metals; with or without flanges, movement restrainers are supplied on request.

Chimney seals

Lining-joint seals made of fluor rubber terpolymer with wire mesh reinforcement made of high-alloy stainless steel are used to seal the expansion joint in chimney lining.

The sealing strip is attached to the lining by means of wall anchors and clamping strips made of high-alloy stainless steel. The clamping strips and wall anchors can also be coated with fluor rubber. Due to its special construction and the materials selected this seal can be subjected to a sustained temperature load of up to 200 °C.

Realon cords made of PTFE with a silicate-fibre core for permanent temperatures up to 260 °C and short-term peak loads up to 305 °C are used in chimneys to additionally safeguard the lining-joint seal.

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Technical questionnaire for fabric compensators

An

KLINGER Kempchen GmbH

Im Waldteich 21

D-46147 Oberhausen

Please complete this questionnaire, answering as thoroughly as possible so that we may provide you with a professional quotation.

Company Name _____

Street Address _____

Location _____

Authorized Officer _____

Telephone _____ Fax _____

Dated _____ Order No. _____

Medium

- Flue gas Exhaust
 Air Other, please specify: _____

Dust content: _____ mg/m³

Grain size : _____ mm

Dew point : _____ °C

Medium and ambient temperature

Operating : _____ °C
 Interruption : _____ °C
 Design : _____ °C
 Ambient : _____ °C (Standard value 50 °C)

Interruption for a duration of _____ days or _____ hours or _____ minutes

Is radiation being obstructed? no
 yes, specify source and nature: _____

accumulated over Life-span 1 year
 Radiation from other plant components:
 no yes, specify source and nature: _____

Medium pressure

Operating pressure _____ mbar
 Low vacuum _____ mbar
 Design _____ mbar
 Interruption _____ mbar
 Alternating pressure load no yes, frequency ____ Hz
 Pressure impact load no yes

Interruption for a duration of _____ days or _____ hours or _____ minutes
 accumulated over Life-span 1 year
 Required seal impermeability: _____

Movement absorption

Axial extension : _____ mm
 Axial compression : _____ mm
 Lateral movement : _____ mm
 Change of load: no yes, specify: _____ mm

Angular rotation: _____ °
 Vibration: no
 yes, frequency ____ Hz, Amplitude: _____ mm
 Change of load: ____ times per
 year oder month or day or hour

Other conditions for use

Pipe lay on: horizontal vertical
 Flow direction: upwards downwards

