

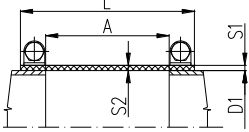
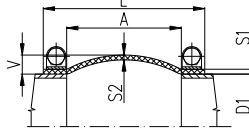
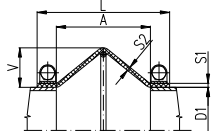
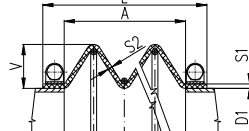
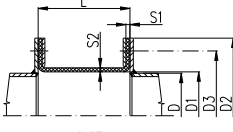
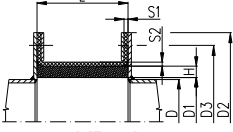
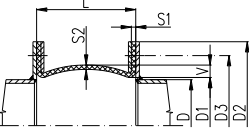
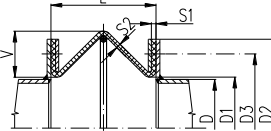
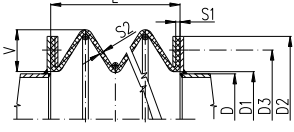
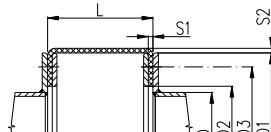
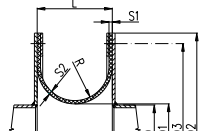
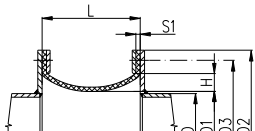
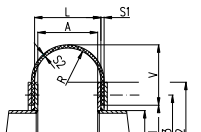
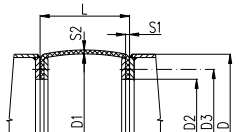
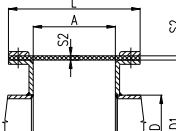
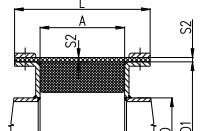
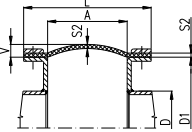
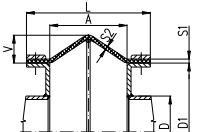
Fabric expansion joints



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Basic types :

TYPE	*	Working parameters	TYPE	*	Working parameters
 <p>KA 1-0</p>	1	400°C	 <p>KA 2-0</p>	1	400°C
	2	-10 to +25		2	-10 to +25
	3	20 / 30		3	20 / 30
	4	15 / 20		4	15 / 20
 <p>KA 3-0</p>	1	550°C	 <p>KA 4-0</p>	1	400°C
	2	-20 to +50		2	-30 to +50
	3	60		3	70
	4	25		4	40
 <p>KB 1-0</p>	1	400°C	 <p>KB 1i-0</p>	1	500°C
	2	-35 to +150		2	-25 to +100
	3	20		3	20
	4	15		4	15
 <p>KB 2-0</p>	1	400°C	 <p>KB 3-0</p>	1	550°C
	2	-100 to +150		2	-20 to +50
	3	25		3	60
	4	25		4	25
 <p>KB 4-0</p>	1	400°C	 <p>KB 5-0</p>	1	400°C
	2	-30 to +50		2	-35 to +150
	3	70		3	20
	4	40		4	15
 <p>KB 6-0</p>	1	400°C	 <p>KB 7-0</p>	1	400°C
	2	-70 to +70		2	-100 to +150
	3	60		3	25
	4	35		4	25
 <p>KB 8-0</p>	1	400°C	 <p>KB 9-0</p>	1	400°C
	2	-70 to +70		2	-10 to +25
	3	60		3	20 / 30
	4	35		4	15 / 20
 <p>KC 1-0</p>	1	400°C	 <p>KC 1i-0</p>	1	600°C
	2	-15 to +45		2	-15 to +45
	3	20 / 30		3	20
	4	15 / 20		4	15
 <p>KC 2-0</p>	1	400°C	 <p>KC 3-0</p>	1	550°C
	2	-15 to +45		2	-20 to +50
	3	20		3	60
	4	15		4	25

NOTE *-1-max. temperature, 2-working pressure in kPa , size of movement in % from length L 3-axial , 4-lateral

What are fabric expansion joints

They are flexible building elements in pipelines and canals, the connecting elements in plant and equipment where flows primarily gaseous media such as air, flue gas, as well as acidic or alkaline gases with highly aggressive, abrasive or liquid components.

Area of use

Fabric expansion joints have proven in equipments with gaseous media at temperatures up to +1200 ° C, at pressures to 0.1 Mpa (1 bar pressure), for large axial movements and very often concurrently emerging lateral and / or angular movements.

Main criteria, necessary for design of suitable expansion joint

- **place of installation** : in building / outside, how is available mounting place
- **medium** : is crucial for material composition for soft expansion joints, data about possible occurrence of condensate, eventually action of chemical substances
- **proportion of solid particles in the medium**: significantly affects the composition of expansion joint as well as its structure, being the most important are properties of solids - quantity - grain - the direction of flow
- **temperature** : also affects material composition
- **pressure** : exact data about pressure (pressure, vacuum, pressure impacts, tested pressure) allows to use correct construction
- **movements** : setting the type (axial, lateral, angular) of movement, its size and frequency affects construction and building dimensions.
- **Flow velocity of medium**: affects material composition and execution of metal parts.

Name of material	Long-time thermal resistance max. °C	Chemical resistance		Description
		acids	alkalinity	
Protection materials				
Metal mesh 1.4828	+ 1 000	1	1	Used as a protection of insulating layers against abrasive medium and along with as a bearing layer.
Metal mesh 1.4301	+ 500	2	1	
Metal mesh 1.4401	+ 300	2	1	
Insulating materials				
Ceramic fibres	+1250	1	1	Used as a thermal-insulating material of expansion joints.
Isofilz	+ 1000	1	1	
Mineral wool	+ 600	2	2	
Non-coated fabrics				
Thermogewebe braun	+ 1000	2	2	Used as a bearing layers, resistant again thermal and mechanical stress.
Glasgewebe HT	+ 700	2	2	
Glasgewebe	+ 550	2	2	
Coated fabrics				
Alufix	+ 500	2	2	Used as a bearing and also sealing layers or protection outside layers of expansion joint.
Thermoflon	+ 260	1	1	
Vitex	+ 200	1	2	
Silitex	+ 200	3	2	
Alutextem	+ 180	2	2	
Hypalon	+ 80	2	2	
Sealing folies				
Stainless steel foil	+ 800	1	1	Used mainly as a sealing layers.
Aluminium foil	+ 500	2	2	
PTFE foil	+ 260	1	1	
foil Peton	+ 260	1	1	
Silicone foil	+ 250	3*	3*	
Viton foil	+ 200	1	2	



Data sheet for specification of fabric expansion joints



Customer: _____ Date: _____

Telephone: _____

Fax: _____

Medium :

Clear air :	YES <input type="checkbox"/>	NO <input type="checkbox"/>	Exhaust gases consist acids :	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Damp air :	YES <input type="checkbox"/>	NO <input type="checkbox"/>	damp :	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Mixture of dust :	YES <input type="checkbox"/>	NO <input type="checkbox"/>	Analyse of medium :	_____	
Granularity :	thick <input type="checkbox"/> Ø approx. mm	soft <input type="checkbox"/>			

Pressure :

Working : _____ Pa
 Minimum : _____ Pa
 Maximum : _____ Pa
 Pressure impacts : YES NO

Temperature :

Working : _____ °C
 Minimum : _____ °C
 Maximum : _____ °C
 Ambient temperature: _____ °C

Movements :

Thermal dilatations: _____
 Vibrations : _____ Amplitude : _____ mm Frequency of movements: _____ Hz
 Other: _____

Size of movements :

Axial compression : _____ mm
 Axial extension : _____ mm
 Lateral (by side) : _____ mm
 angular : _____ °

Number of cycles: _____

Position of pipeline:

vertically horizontally sidelong under angle _____ °
 up down

Direction of flow:

Maximum distance between two fixed pionts: _____ m

Method of fixation / type of exp. joint:

Dimension : D : _____ mm D 1 : _____ mm
 D2 : _____ mm BL : _____ mm

Inner sleeve:

Part of canal : YES NO
 Required from you: YES NO

Canal flanges required from you:

NO YES

Back-up bars required from you:

material : _____ dimensions / attach sketch

Version of expans. joints:

Closed Opened
 With holes Without holes

Quantity : _____ pc

Required documentation : _____

Special requirements : _____



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