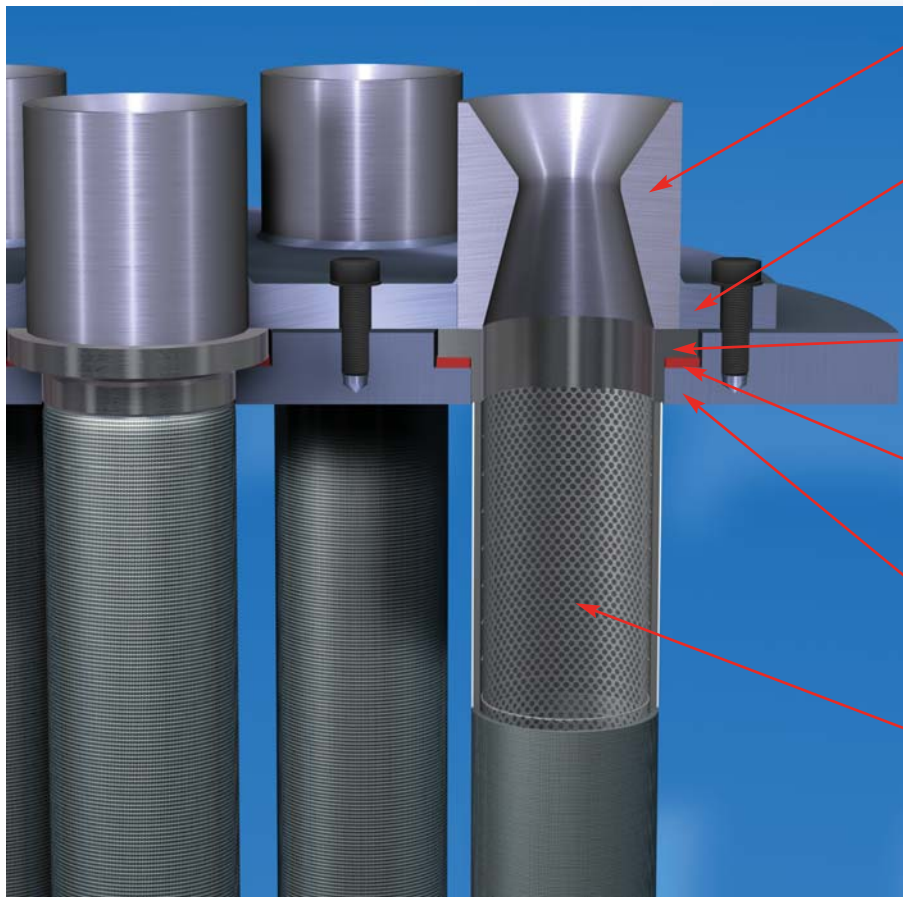




## GKN SIKA INSTALLATION ADVICE



### Installation of SIKA-FIL gas filter



Venturi nozzle for improving the back pulse

Compressing sheet with venturi to “clamp” the filter to the tube sheet

Solid flange, welded to the solid inlay filter

Gasket (grove in tube sheet for application  $> 200\text{ }^{\circ}\text{C}$ )

Tube sheet – to be connected to the vessel

SIKA-FIL filter element

## Materials and products

Material	Name	Mat.-No.	SIKA-				Fe	Cr	Ni	C	Mo	Miscellany	Max. Temperature °C		Keyword
			R... IS	AX	AS	FIL							B	Reducing	
High alloyed material	AISI 304 L	1.4306	x	x	x		Bal.	18.0-20.0	8.0-12.0	<=0.03	0.5	N<=0.1	600	500	Standard for food application
	AISI 316 L	1.4404	x	x	x		Bal.	16.0-18.0	10.0-14.0	<=0.03	2.0-3.0	N<=0.1	540	400	
	AISI 904 L	1.4539	x	x	x		Bal.	19.0-21.0	24.0-26.0	<=0.02	4.0-5.0	N<=0.15 Cu 1.2-2.0	600	500	Resistant against sulphuric acid, phosphoric and hydrochloric acid
	AISI 310	1.4841	x			x	Bal.	24.0-26.0	19.0-22.0	<=0.25	-	-	800	600	
	FeCrAl	1.4767 Mod.				x	Bal.	19.0-22.0	-	<0.10	-	Al 5.0-6.5 with rare earth elements	unfit	1000	
Nickel based alloys*	Hastelloy C 22	2.4602	x				2.0-6.0	20.0-22.5	Bal.	<0.02	12.0-14.5	W 2.0-3.5, Co 2.5	650	650	Corrosion resistant with various aggressive media. Duration application at > 400 °C possible
	Hastelloy C 276	2.4819	x	x			4.0-7.0	14.0-16.0	Bal.	<0.02	15.0-17.0	W 3.0-4.5	650	650	
	Hastelloy X	2.4665	x	x			17.0-20.0	20.5-23.0	Bal.	<0.15	8.0-10.0	Co 0.5-2.5 W 0.2-1.0	930	800	
	Inconel 600	2.4816	x	x	x		6.0-10.0	14.0-17.0	>=72.0	<0.15	-	-	700	600	Resistant against Cl-containing media
	Inconel 625	2.4856	x		x		<=5.00	20.0-23.0	>=58.0	<0.10	8.0-10.0	Nb 3.15-4.15	650	650	
	Monel 400	2.4360	x	x	x		<2.0	-	>=63.0	<0.30	-	Cu 28.0-34.0	500	500	
Bronze	CuSn 11	2.1052					-	-	-	-	-	-	300	250	Typically used for hydraulic & pneumatic
Titanium**	Ti	-	x	x			-	-	-	-	-	Ti > 99 %	500	500	Medicine, acid, electrolysis
Other	Other materials on request														

\* Nickel based AX-products only after consultation. Not all dimensions feasible. \*\*Not all raw materials are in stock.  
Typical Iron or Nickel elements e.g. Si, Mn, P, S according to the literature.



### SIKA-R.../S

- Made of sintered metal powder (a variety of alloys are used, depending on requirement)
- Filter grades from 0.5 - 200 µm
- Suitable for use up to 950 °C
- Seamless up to 1500 mm in length and up to 300 mm in diameter



### SIKA-FIL

- Stainless steel fibers
- 60 - 90 % porosity
- Filter grades from 1 - 100 µm
- Used mainly in gas filtration with high gas velocities



### SIKA-R...AX

- Axial pressed filters made of metal powder (A variety of alloys are used, depending upon requirement)
- Filter grades between 0.5 and 200 µm
- Used mainly in gas and liquid filtration



### SIKA-R...B

- Gravity sintered filters made of bronze
- Filter grades between 8 and 200 µm
- Used mainly in pneumatic - hydraulic application and polymer filtration
- Best for shapes



### SIKA...AS

- Asymmetric designed powder / powder composite, consisting of a support and a thin filter active layer of the SAME alloy
- Used in catalyst recovery and cross flow application



### SIKA- Modules

- Customer designed elements with fitting
- Used mainly for sensor protection and flow resistors
- Welding constructions