Schwegmann
Filtrations-Technik

SFT®

Detect the difference.

Tailor-made solutions for fluid filtration

About us

Industrial Filtration covers a very wide range of tasks. We at Schwegmann Filtrations-Technik GmbH offer various solutions for the solid/liquid separation and the air filtration.

In our own sewing room we manufacture our Sieve- and Filter bags – if demanded, size and shape conform to the need of our customers.

Filter housings, filter cartridges, filter cloth, pocket filters and compact filters complete our product range.
For example, our products are used in the chemical industry, in the coatings and paint industry, in the adhesives industry or in the cosmetics and detergents industry.

In most cases, our products are used to hold back disturbing residues from a fluid or air.

Our field service will gladly assist you with the selection of the suitable filter medium.

Company Schwegmann Filtrations-Technik GmbH was founded on 01.01.2002 by Sebastian Schwegmann. However, it wasn´t a start from the very beginning, because as former department of Bernd Schwegmann GmbH & Co. KG, there had already been good relations with the paint industry and German industry in general since the 1960s.

Since the spin-off we are expanding our business continuously. In November 2017, we set the next milestone in our company history with the completion of our new building in Grafschaft-Ringen.

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Do you have questions?
We will be pleased to help you!
Please contact us!

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Monofilament textile I Needle felts

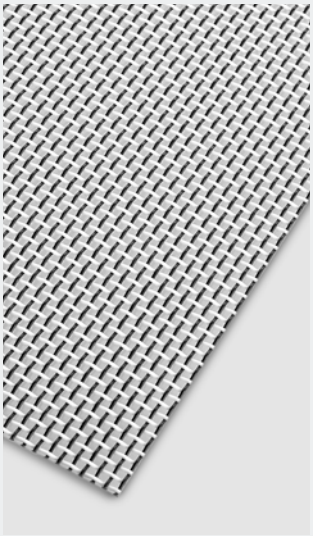
Monofilament textile

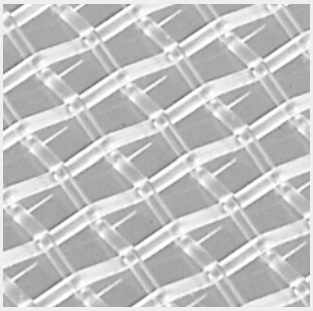
We use monofilament textiles from selected suppliers to manufacture our products. The materials are subjected to continuous inspection, which ensures that high and consistent quality are maintained at all times.

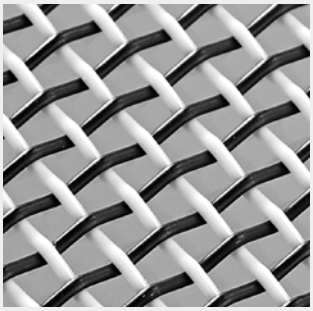
The monofilament textile comprises flat and even (monofile) fibres. The values for the monofilament textile openings are defined exactly and their measurements checked. The monofilament textile is heat-set and this provides the mesh with its stability. It can hold defined particle sizes back on the textiles surface. Sieving is basically grading defined particle sizes with an effective selectivity.

We recommend monofilament textiles made of Polyester for acids and monofilament textiles made of Polyamide for bases. We can also provide Polypropylene and many other materials upon request. We recommend our Polyamide monofilament textile with carbon fibres as an antistatic option.

Our standard roll widths that we keep in stock are between 60 and 120 cm. Other widths are available upon request. We are happy to supply you with monofilament textile pieces in all shapes and sizes, cut by laser or punching.







Code		
Filter medium	**Mesh opening**	**Width of textile**
PA	100	120

Filter medium	Code	Mesh opening in microns																								
		1	5	10	15	25	30	50	56	60	70	80	100	125	150	180	200	250	300	400	500	600	700	800	1000	1320
Polyamide monofilament	PA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Polyester monofilament	PES	•	•	•	•			•				•	•		•		•	•	•							
Polyamide Carbon	PAC											•	•		•		•	•			•					

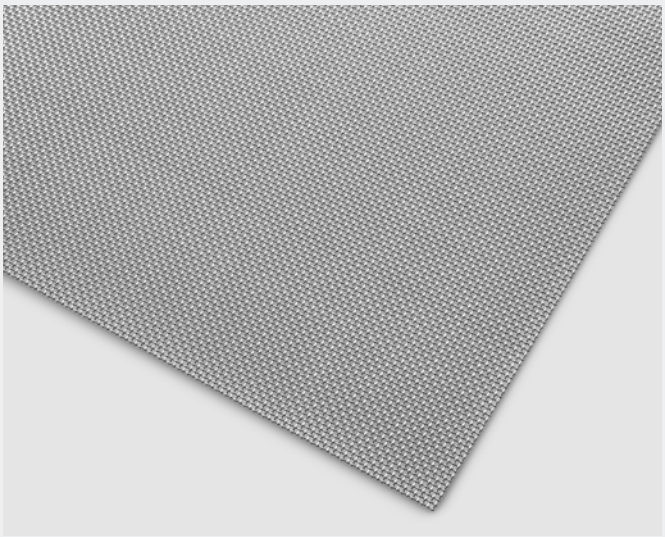
Other mesh openings and materials are available upon request.

Wire cloth

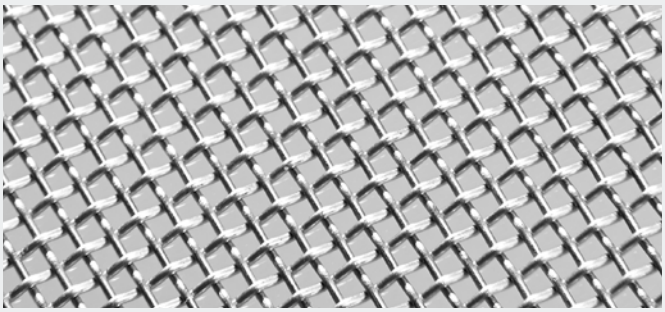
The robust wire cloth is made of stainless steel, is extremely heat-resistant and has very good mechanical stability.

Metal wire cloths have the same structure and the same functions as a plastic monofilament textile. The wires of a metal wire cloth also criss-cross at right angles and alternate continuously between above and below. The result is a cloth with square mesh openings and a fixed mesh size. Particles with a defined size can be held back on its surface.

The standard roll widths are between 100 and 150 cm. Other widths are available upon request. We are happy to supply you with wire cloth pieces in all shapes and sizes, cut by laser or punching.



Code		
Filter medium	**Mesh opening**	**Width of textile**
E	100	100



Filter medium	Code	Mesh opening in microns																	
		25	50	60	70	80	100	125	150	180	200	250	300	400	500	600	800	1000	1200
Stainless steel	E	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Cloths made of other materials with different types of weave (e. g. plain dutch weave) or mesh openings are available upon request.

Needle felts

While deformable particles can push through a monofilament textile, they are held back in three-dimensional needle felts.

Needle felts have a three-dimensional filter structure, whereby the filter properties apply both on the surface and throughout the depth. This enables deep filtration for very large accumulations of solids and higher flow rates. The needle felt is heattreated on the surface in order to virtually prevent fibres getting into the filtered material. The specified pore size is practically unmeasurable, a nominal filter fineness that is based on empirical values is specified here.

Code		
Filter medium	**Filter fineness**	**Width of textile**
PE	100	59

Filter medium	Code	Fineness in microns						
		1	5	10	25	50	100	200
Polyester needle felt	PE	•	•	•	•	•	•	•
Polypropylene needle felt	P	•	•	•	•	•	•	•

Other finenesses and materials are available upon request.

Resistance

When using our products, pay attention to the different resistance properties of the different materials.

	Polyamide	Polyester	Polypropylene	Stainless steel
Alkalis	A/B	A/B	A	A
Acids	B/C	A/B	A	A
Alcohols	A	A	A	A
Ester	A	A	A	A
Aliphatic HC	A	A	A	A
Aromatic HC	A	B	C	A
Chlorinated HC	A	A	B	A
Oxidising agents	B/C	B/C	A	A/B/C
Oils, greases	B/C	A	A	A

Temperature

Dry	110°C	150°C	100°C	400°C
Wet	100°C	120°C	90°C	400°C

Key

resistant = A	partially resistant = B	not resistant = C

The specifications are approximate values that depend on the concentration of the suspension and the duration of the filtering procedure.
We are happy to provide further information on the individual chemicals.

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Filter bags

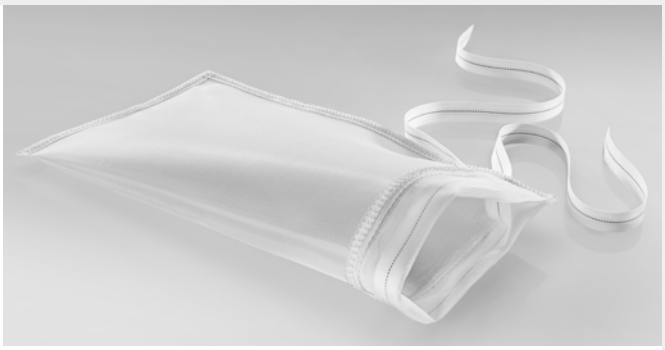
Filter bags

Filter bags for the open filtration are used for smaller batches, if the use of mechanical filters would be uneconomical.

Filter bags from monofilament textile

The filter bags are made from monofilament textile are perfect for screening solid particles. The filter bags can be fixed below any outlet quickly, easily and without tools. The band seal in the bag opening is suitable for this. Other fastening options as cords and cable ties are available upon request.

When changing the product, the filter bags are simply replaced quickly. Thanks to the wide range of various mesh openings, the filter bags can be used flexibly in many different applications. Depending on the use, they can also be washed and therefore used multiple times.



Filter bags from needle felt

In comparison to the monofilament filter bags, the needle felt filter bags are for filtering formable particles. The filter bags can only be used once, as particles are trapped in the felt and the felt can therefore no longer be used.

Filter bags with declaration of conformity

We supply filter bags with a declaration of conformity for use in the food and feeding stuff industries. The filter bags are manufactured and packed in accordance with the regulations in EU Regulations 1935/2004 and 10/2011.

Double layer filter bags

If one layer of monofilament textile is insufficient, a supporting screen is required or if both solid and formable particles have to be screened, the double layer filter bags are the perfect choice.

Antistatic filter bags

Antistatic filter bags are used when screening materials that are electrostatically charged. Electrically conductive fibres that are integrated into the monofilament safeguard reliably against the discharge effect. The meshes no longer become blocked and the danger of electrical discharge (spark formation) reduces. The benefit when compared to metal screens is the versatile processing options provided by the Polyamide fibres.

Filter bags with round bottom I U-form I V-form

The standard screening bag is sewn with a flat bottom. We can provide a round bottom as an alternative for a larger filter surface. We can manufacture this cylindrical shape as of a diameter of 5 cm. Upon request, we can also manufacture the filter bag's bottom as a U-form or a V-form.

Sizes (flat dimensions)				
	G0	G1	G2	GS
W	10	15	15	Custom-made product according to your size specifications
L	45	45	25	

Code		
Filter medium	Mesh opening	Size
PA	250	G1

Filter medium	Code	Filter fineness / mesh opening in microns																									
		1	5	10	15	25	30	50	56	60	70	80	100	125	150	180	200	250	300	400	500	600	700	800	1000	1320
Polyamide monofilament	PA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Polyester monofilament	PES	•	•	•	•			•				•	•		•		•	•	•							
Polyamide carbon	PAC											•	•		•		•	•			•					
Polyester needle felt	PE	•	•	•		•		•					•				•									
Polypropylene needle felt	P	•	•	•		•		•					•				•									

Other mesh openings and materials are available upon request.

Ring filter bags

Ring filter bags with metal ring

**Ring filter bags are used for filtration with closed bag filter housings.
Our ring filter bags can be used in all commercially available bag filters.**

A galvanised steel ring is sewn into the bag neck as standard. This enables the ring filter bag to be inserted easily into the bag filter housing and ensures that it remains secure. All R1/ R2 size ring filter bags are provided with two integrated straps for easy removal. Modifications such as stainless steel rings or just one removal strap are also available.

Standard sizes				
	R1	**R2**	**R10**	**R20**
Ø	18	18	10,5	10,5
L	43	81	23	38

Special sizes			
	R1S	**R10S**	**RS**
Ø	18	10,5	Custom-made product according to your size specifications
L	special length		

Code			
Filter medium	**Mesh opening**	**Size**	**Collar**
PA	100	R1	M

Filter medium	Code	Filter fineness / mesh opening in microns																							
		1	5	10	15	25	30	50	56	70	80	100	125	150	180	200	250	300	400	500	600	800	1000	1320
Polyamide monofilament	PA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Polyamide needle felt	NY		•	•		•		•				•												
Polyester monofilament	PES	•	•	•	•			•			•	•		•		•	•	•	•		•	•		
Polyester needle felt	PE	•	•	•		•		•		•		•		•		•								
Polypropylene monofilament	PS											•		•		•	•	•	•	•	•	•		
Polypropylene needle felt	P	•	•	•		•		•		•		•				•								

Other mesh openings and materials, as well as rings made of special materials, are available upon request.

Ring filter bags with plastic collar

Ring filter bags with a plastic collar fits perfectly in all commercially available bag filter housings.

In the filter housing, the plastic collar adjusts itself flexibly to the filter housing and therefore works as a reliable, chemically resistant seal. Furthermore, the two needle felt types have welded joints so that a bypass is prevented at these vulnerable points. The bags are made from silicone-free materials and supplied with two integrated straps for easy removal.

Dimensions in cm					
	R1	**R2**	**R5**	**R10**	**R20**
∅	18	18	15.2	10.5	10.5
L	43	81	50.8	23	38

Code			
Filter medium	**Fineness**	**Size**	**Collar**
P	100	R1	K

Filter medium	Code	Filter fineness / mesh opening in microns																				
		0.5	1	3	5	10	25	50	75	80	100	125	150	200	250	300	400	500	600	800	1000	1200
Polyester needle felt	PE	•	•	•	•	•	•	•	•		•		•	•								
Polypropylene needle felt	P	•	•	•	•	•	•	•	•		•			•								
Polyamide monofilament (sewn)	PA		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Other mesh openings and materials are available upon request.

Multi-layer ring filter bags

**For the most applications we have the perfect designed filter bag.
These include extended life materials, multi-layer and pleated surfaces.**

Dimensions in cm				
	R1	**R2**	**R10**	**R20**
∅	18	18	10.5	10.5
L	43	81	23	38

Code				
Filter medium	**Series**	**Fineness**	**Size**	**Collar**
P	4	1	2	K

We offer 8 different types of mulit-layer ring filter bags, which we design individually for you.

Types and applications

Typ 1: Absolute filter bags
Food and drinks, pharmaceuticals, chemicals, inks, paints, water treatment, microelectronics

Type 2: Melt blown filter bags
Beer, wine, spirits, part cleaning, varnish, hydraulic oils, lubricants, vinegar

Type 3: High performance filter bag with dirt holding capacity
Oil adsorption, removing active carbon, varnishes and paints in the automotive industry, oils, slurry

Type 4: Extended life filter bags
Water treatment, chemicals, paints, varnish, metalworking, glues, petrochemicals

Type 5: Food-safe filter bags
Food, drinks, pharmaceuticals

Type 6: High flow filter bags
Paints, varnish, inks, dispersions, resins, water and wastewater treatment, solvents, lubricants, cleaners,
drinking water, beer, wine, cooking oils

Type 7: Economy extended life filter bags
Water treatment, chemicals, paints, varnish, electroplating, glues

Type 8: Pleated filter bags
Water treatment, chemicals, paints & varnish in the automotive and metalworking industries, petrochemicals

Adapters for open filtration systems

Adapters are used in conjunction with ring filter bags to form a gravity-operated, open filter system with minimal investment costs.

Adapters can be supplied in Stainless steel (CrNiMo) and Polypropylene with a G 1½" female thread.
The maximum infeed pressure is 1.5 bar.

Suitable ring filter bags			
	R1	**R2**	**R1S**
∅	18	18	18
L	43	81	special length

Code		
Type	**Size**	**Material**
A	1-2	S

Technical data	
Type	A
Material	Stainless steel (S); Polypropylene (P)
Bag size	1 / 2 (see ring filter bags)
Maximum operating data	1.5 bar

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Special filter designs

Sieve inserts I Filter inserts

Sieve inserts for open filtration made of monofilament textile.

Screen inserts are preferred where screening bags cannot provide sufficient screening surface area and where using vibrating screens or bag filters appears to be uneconomical. The eyes that are stamped into the side seam provide versatile fastening options, e.g. to hang onto a frame that has pins.

Filter inserts for open filtration provide a large filter surface area and a high solid collection capability.

Filter inserts for use in lattice boxes are used wherever wastewater etc. is to be treated visually and where a treatment plant appears uneconomical. They are mainly made of needle felt and have integrated eyes in the top seam for better fastening.

Dimensions in cm		
	G3	G3S
W	51	Custom-made product according to your size specifications
L	57	

Dimensions in cm		
	G4	G4S
W	80	Custom-made product according to your size specifications
L	120	
H	90	

Filter medium	Code	Mesh opening in microns																									
		1	5	10	15	25	30	50	56	60	70	80	100	125	150	180	200	250	300	400	500	600	700	800	1000	1320
Polyamide monofilament	PA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Polyester monofilament	PES	•	•	•	•			•				•	•		•		•	•	•							
Polyester needle felt	PE	•	•	•		•		•					•				•									
Polypropylene needle felt	P	•	•	•		•		•					•				•									

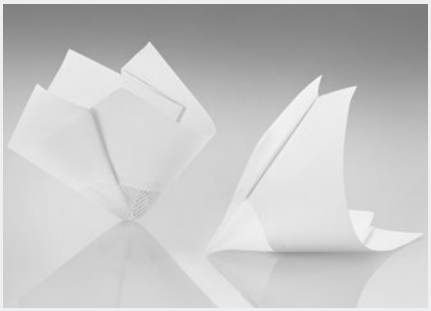
Other mesh openings and materials are available upon request.

Code		
Filter medium	Mesh opening	Size
PA	300	G3
PE	200	G4

Former filters

Paper former filters, folding filters and funnels from monofilament textile are perfect for open filtration of small batches in laboratories or technical centres.

Paper former filters are made of solid paper and have a monofilament textile insert on the bottom. They are mainly used to screen varnishes, paints, glues, etc. The former filters are ideal for screening small quantities such as those that occur in laboratories. We can also provide holders and dispensers as accessories.



Folding filters are also made of solid paper, in which precision and standard textile is used. In contrast to paper former filters, folding filters can be produced with various mesh openings.

Funnels made of monofilament textile have a defined mesh opening and provide the user with a larger screening surface area than the paper former filters due to the range of various sizes. They can be supplied with or without a band.

Filter type	Code	Mesh opening in microns																										
		1	5	10	15	25	30	50	56	60	70	80	100	125	150	180	190	200	250	260	300	400	500	600	700	800	1000	1320
Paper former filters	TS													•	•		•			•							•	
Folding filters	FS		•	•	•	•	•	•		•	•	•	•	•	•	•		•	•		•	•	•	•	•	•	•	
Polyamide monofilament	PA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•		•	•	•	•	•	•	•	•
Polyester monofilament	PES	•	•	•	•			•				•	•		•			•	•		•							
Polyester needle felt	PE	•	•	•		•		•					•					•										
Polypropylene needle felt	P	•	•	•		•		•					•					•										

Other mesh openings and materials are available upon request.

Dimensions in cm		
	G5	G5S
∅	15	Custom-made product according to your size specifications
L	13	

Code		
Filter medium	Mesh opening	Size
TS	125	
FS	50	
PA	10	G5

Screen cylinder

We manufacture various designs of screen hoses, screen nozzles and screen cylinders for all known centrifugal sifting machines.

Screen hoses, screen nozzles and screen cylinders are made of monofilament textile, Polyamide, Polyester or conductive cloth with carbon fibres. The mesh opening start at 1 µm and go up to 5000 µm. A masked longitudinal seam (e.g. silicone seal), sewn in cords and labels with the mesh openings and the running direction are also possible upon request.

Dimensions in cm							
∅	11	18.5	18.5	18.5	18.5	31	31
L	21	29	38.5	48.5	58	24.4	37.5

Code		
Filter medium	**Mesh opening**	**Size**
PA	200	GS

Filter medium	Code	Mesh opening in microns																								
		1	5	10	15	25	30	50	56	60	70	80	100	125	150	180	200	250	300	400	500	600	700	800	1000	1320
Polyamide monofilament	PA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Polyester monofilament	PES	•	•	•	•			•				•	•		•		•	•	•							
Polyamide carbon	PAC											•	•		•		•	•			•					

Other mesh openings and materials are available upon request.

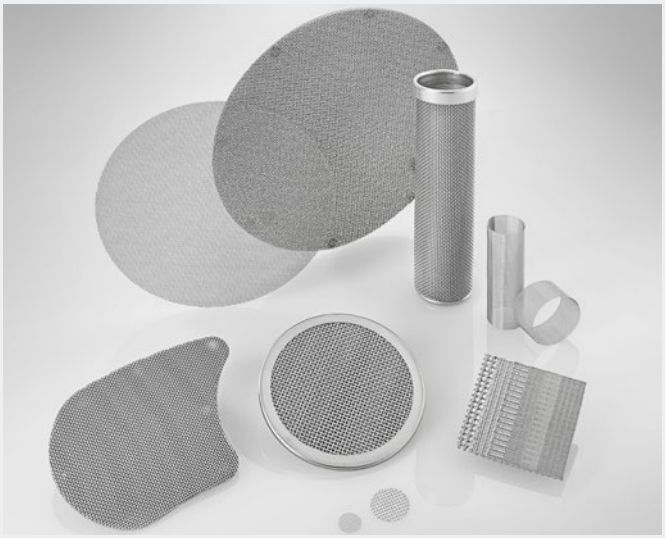
Special design from wire cloth

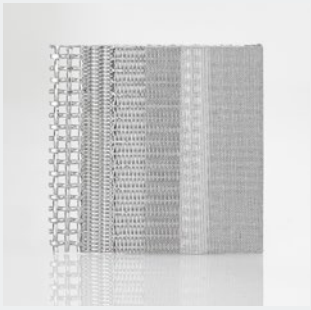
We design, construct and produce moulded parts made of metal wire cloth from simple cuts to complex components for prototypes up to mass production.

The moulded parts are made of metal wire and are suitable for screening solid, liquid or gaseous substances. Furthermore, there are numerous different applications such as in a microphone or a loudspeaker.

The wire cloths that are used are normally made of stainless steel and are available in various mesh openings and weave constructions. Our range includes a wide selection of different shapes: lined or multi-layer blanks, various punching and moulded parts, screen hoses, screen cylinders and much more.

Please send us a sample or a drawing together with your inquiry.





Code		
Filter medium	**Mesh opening**	**Size**
E	25	GS

Filter medium	Code	Mesh opening in microns																	
		25	50	60	70	80	100	125	150	180	200	250	300	400	500	600	800	1000	1200
Stainless steel	E	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Other mesh openings and materials are available upon request.

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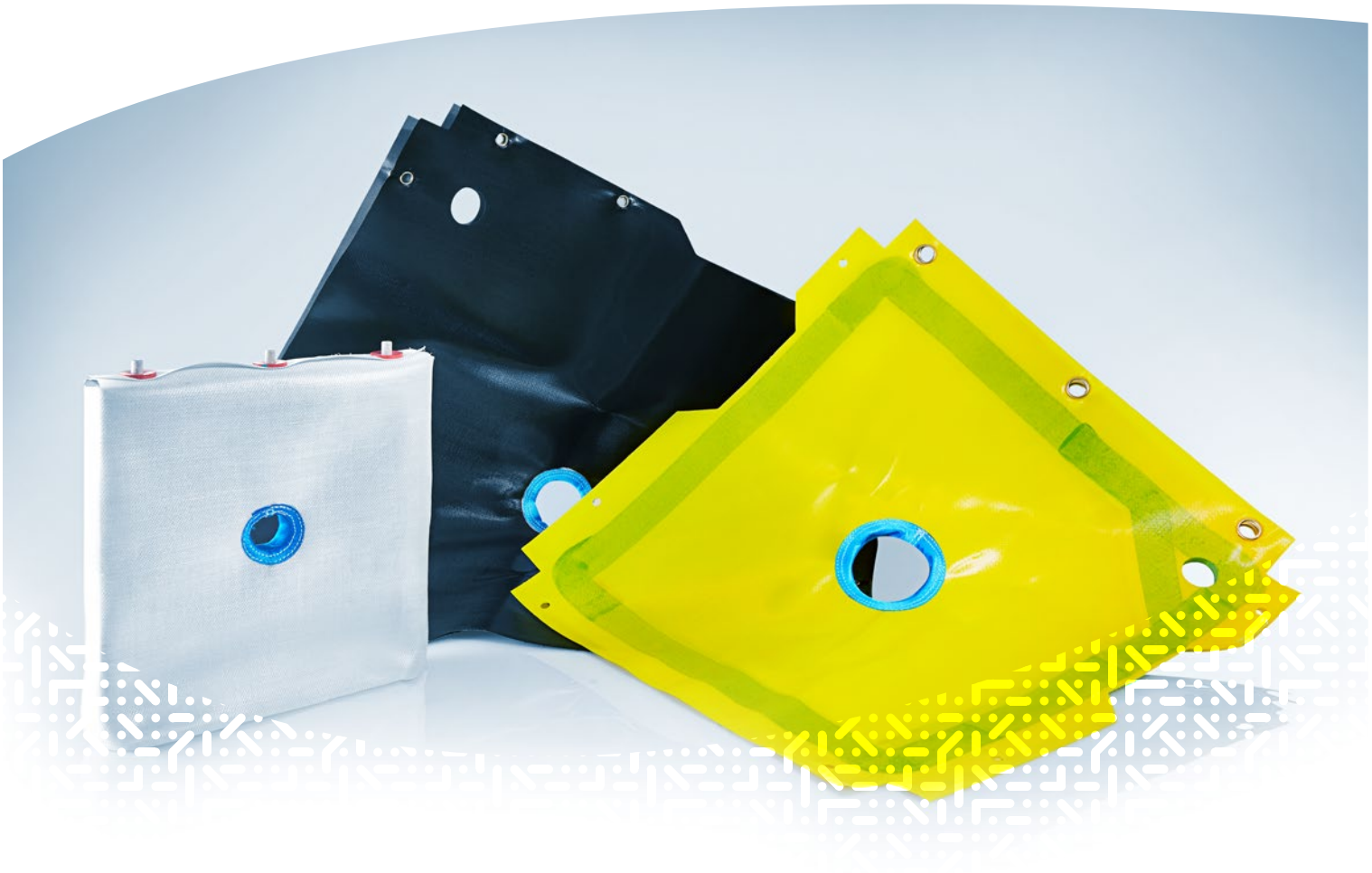


Filter cloth

Filter cloth

Filter cloths are used to separate solids and liquids in filter presses.

Our filter cloths can be manufactured in the following designs:

- Double neck filter cloth
- Overhang filter cloth
- With edge seal
- Drip-tight design for CGR filter plates

Filter cloth

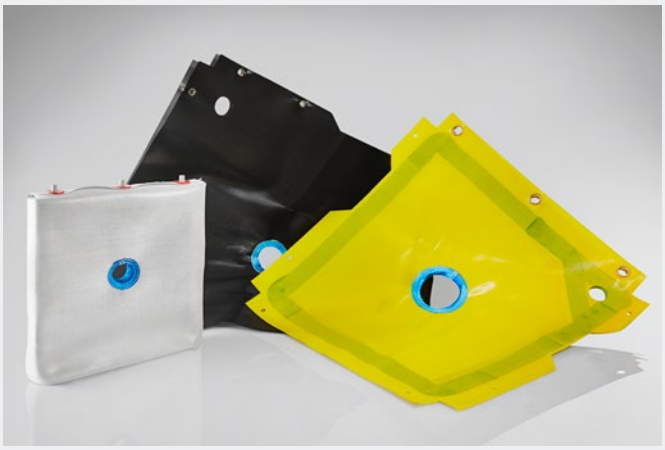
The filter cloth quality, predominantly made of Polypropylene or Polyamide, is designed in accordance with the air permeability (L/dm²/min), the web type (mono-filament, multi-filament, mixed yarn) and cloth treatment (e.g. calendered surface). We will design a suitable filter cloth for optimum filtration according to the application.

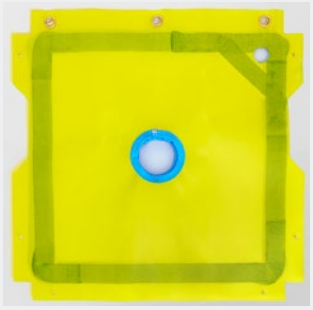
Formats

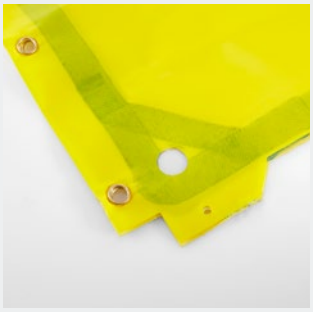
We supply all common formats from 250 x 250 mm to 2000 x 2000 mm.

Benefits of our filter cloths

- Optimum filtration
- Good filter cake removal
- Long service life
- Cleanliness
- Cost effectiveness







Sample cloth

We provide you our suitable sample cloth for trials.
In order to receive this, please send us one of your current filter cloths or fill in our form with all required dimensions.

Code			
Format	**Filter medium**	**Air permeability**	**Design**
630	P	8	D

Schwegmann
Filtrations-Technik

Filter cartridges

Filter system Clean-Pack FK-CP

This filter system is perfectly suited for fast and clean filtration.

If you do not want to clean your filter housing between product changes, if you want to protect the user and the working environment from toxicity, if hygiene and cleanliness are very important, then the clean-pack filter system is the right choice.

The most common reason for using the clean packs is the elimination of the annoying cleaning effort and the associated time saving. Depending on the throughput quantity, we have the clean packs with 1, 3 or 7 filter candles in lengths 5", 10" and 20". We are also happy to offer alternative candle materials as well as suitable filter housings.

Application areas

Colour kitchens in the automotive industry, parts painting and coating systems, inks and colour production, coating production, solvent production, chemical production, filling lines.

Technical data	
Length	5" I 10" I 20" I 30"
Number of cartridges	1 I 3 I 7 pieces
Filter fineness (Micron)	0,5 I 1 I 5 I 10 I 20 I 30 I 50 I 75 I 100 I 150 I 200
Temperature	70°C
Maximum differential pressure	2,5 bar
Material top plate	Polypropylene
Material cartridge and core	Polypropylene
Protective bag	HDPE (reinforced polyethylene)

Code				
Type	**Number of cartridges**	**Length**	**Fineness**	**Cartriges type**
FK-CP	7	10	1	FK-GX

Pleated filter cartridges FKP

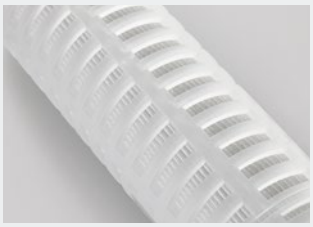
These cartridges have a pleated surface that enables a long service life if filtration performance is high.

Applications

Food, drinks, aqueous solutions, chemicals, drinking water, pharmaceuticals, cosmetics, process water, reverse osmosis pre-filtration, printing inks, wine pre-filtration, magnetic tape dispersions, ventilation filters, oil, gas, inks.

Features (depending on the series)

- Materials: Polypropylene, Borosilicate microfibres
- Absolute filter cartridge with a filter efficiency of 99.98%
- Nominal filter cartridge with a filter efficiency of 90%
- FDA-, USP-compliant
- Sterilisation / in-line sterilisation / autoclavable



End configuration	
DOE double open end	(0)
SOE 226-O-rings + bayonet / end cap	(1)
SOE 222-O-rings / fin	(2)
SOE 226-O-rings + bayonet / fin	(3)
SOE 222-O-rings / Polypropylene end cap	(4)
DOE internal O-rings	(5)
SOE internal O-ring	(6)

222-O-ring

Fin

226-O-ring with bayonet

Polypropylene end cap

Technical data	
Length	9 ¾" I 10" I 20" I 30" I 40"
Diameter	OD: 69 mm / ID: 25.4 mm or 27.9 mm
Filter fineness (micron)	from 0.2 to 100 µm (absolute or nominal)
Maximum differential pressure	5.2 bar at 20°C
Maximum operating temperature	80°C

Code					
Cartridge type	**Series**	**Length**	**Fineness**	**Configuration**	**Seal**
FKP	1	10	10	3	S

Absolute filter cartridges FKT-A

The FKT-A filter cartridge consist of 100% pure Polypropylene without binding agents and have a Polypropylene supporting core.

Applications

Water for dialysis, cooking oil, food, drinks, pharmaceuticals, galvanic baths, semiconductor production, chemistry, petrochemistry, varnishes, inks and generally as a pre-filter to protect submicron absolute filters.

As absolute filters, the filter cartridge have a separation degree of >99.98%. They meet FDA requirements and are free of silicone.

End configuration	
DOE (standard) Polypropylene flat seals	(0)
SOE 222-O-rings / fin	(2)
SOE 226-O-rings + bayonet / fin	(3)
SOE 222-O-rings / Polypropylene end cap	(4)

Code			
Cartridge type	**Length**	**Fineness**	**Configuration**
FKT-A	20	10	3

Adapters

Polypropylene flat seal

222-O-ring

Fin

226-O-ring with bayonet

Polypropylene end cap

Technical data	
Length	5" I 9 ¾" I 10" I 20" I 30" I 40"
Diameter	OD: 64 mm / ID: 27 mm
Filter fineness (micron, absolute)	0.5 I 1 I 3 I 5 I 10 I 20 I 30 I 50 I 70 I 90 I 120
Throughput of a 10" cartridge (m^3/h), (water)	1.9 I 1.0 I 1.1 I 1.4 I 1.6 I 2.3 I 2.6 I 3.0 I 3.0 I 3.0 I 3.0
Maximum differential pressure	4.0 bar at 25°C
Maximum operating temperature	80°C

Meltblown filter cartridges FK-GX

The FK-GX deep filter cartridges are made of pure Polypropylene microfibres that are thermally joined in the melt-blown procedure.

Applications

Water treatment, high-purity water pre-filter, cooking oils, fine chemicals, resins, reverse osmosis, DI water, seawater de-salination, wine (pre-filtration), drinks, film processing, fixing baths, solvents, cosmetics, galvanic baths.

The cartridges are completely free of binding agents and comply with the FDA requirements.

Technical data	
Length	5" I 9 ¾" I 10" I 19 ½" I 20" I 29 ¼" I 30" I 39" I 40"
Diameter	OD: 64 mm / ID: 28 mm
Filter fineness (micron, normal)	1 I 3 I 5 I 10 I 20 I 30 I 50 I 75
Throughput (l/min per 10")	7 I 9 I 15 I 18 I 20 I 22 I 25 I 25 (water)
Maximum differential pressure	2.5 bar at 30°C
Maximum operating temperature	80°C

Code

Cartridge type	Length	Fineness
FK-GX	10	20

Wound string filter cartridges FKW

A thread is wound around a supporting core in the wound filter cartridges. The thread and the supporting core are available in various materials.

Applications

Water treatment, seawater desalination, condensate treatment, process water, photochemicals, film processing, cooking oils, solvents, galvanic baths, greases, acids, bases, chemical processes.

Technical data	
Length	5" I 9 ¾" I 10" I 19 ½" I 20" I 29 ¼" I 30" I 39" I 40"
Diameter	OD: 62 mm I ID: 28 mm
Filter fineness (micron, normal)	0.5 I 1 I 3 I 5 I 10 I 25 I 50 I 75 I 100 I 150 I 200
Winding material	P = Polypropylene I W = Polypropylene, washed
	H = Glass fibres I B = Cotton
	PE = Polyester I N = Polyamide
Supporting core material	P = Polypropylene I S = Stainless steel
Maximum differential pressure	2.5 bar at 30°C
Initial differential pressure	0.1 bar
Maximum operating temperature	80°C for Polypropylene I 135°C for Polyamide
	150°C for Polyester I 150°C for Cotton
	400°C for Glass fibres I 400°C for Stainless steel

Code				
Cartridge type	**Length**	**Wounding material**	**Core**	**Fineness**
FKW	10	P	P	25

Acrylic fibres filter cartridges FKC-A

The FKC deep filter cartridges are made of long Acrylic fibres that are fixed with Phenolic resin.

Applications

Varnish, paints, printing inks, glues, resins, emulsions, petroleum wax, process water, organic solvents, coatings, animal and plant oils, inks, weak acids and bases (pH 5-9).
Not recommended for oxidising substances and applications in the food industry.

Technical data	
Length	9 ¾" I 10" I 19 ½" I 20" I 29 ¼" I 30" I 39" I 40"
Diameter	OD: 65 mm I ID: 28 mm
Filter fineness (micron, normal)	2 I 5 I 10 I 25 I 50 I 75 I 125 I 150
Pressure resistance	10 bar at 21°C
	8.6 bar at 38°C
	6.2 bar at 65°C
	4.5 bar at 82°C
	1.7 bar at 121°C
Maximum differential pressure	3.5 bar
Maximum operating temperature	121°C
Rec. throughput (max.)	19 l/min per 9 ¾" cartridge length

Code		
Cartridge type	**Length**	**Fineness**
FKC-A	9	25

Active carbon filter cartridges FK-AK

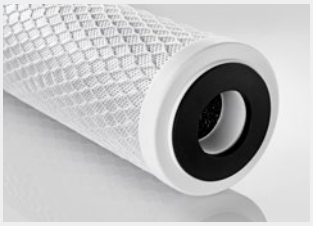
Active carbon filter cartridges are used when the purely mechanical filter effect is no longer sufficient for the loosened substances as they are only of a molecular size.

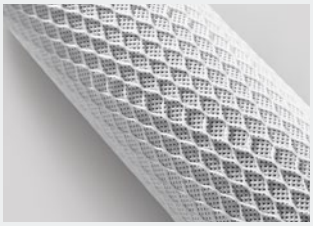
Applications

Water, drinking water, spirits, aqueous and organic solutions (to rectify colour impurities and odour and flavour neutralisation), dechlorination, galvanic baths (removal or organic impurities from nickel and copper baths)

You can differentiate between active carbon types according to their raw material sources (hard coal or coconut) and its delivery forms (pellets, blocks, granules or powder). The active carbon impressively adsorbs many loosened substances from fluids, such as oil, grease, pesticides, colourants and other organic bonds that can otherwise not be filtered mechanically.

Excessive chlorine or disinfected ozone react to active carbon and are rendered harmless. Odorous substances can be bound completely and can no longer dissipate. Bitter substances are adsorbed completely and cannot contaminate any food. In the galvanic area, active carbon can be used effectively against disruptive organic bonds.





Note: We always recommend rinsing active carbon filters until the fluid is visibly clean at the start.

The service life can be improved significantly by upstream filter candles with mechanical filter effects.

Technical data	
Length	9 ¾" I 10" I 19 ½ I 20" I 29 ¼" I 30" I 39" I 40"
Diameter	OD: 64.5 mm I ID: 27 mm
Material	Active carbon (hard coal, coconut)
Supporting bodies and supporting cores	Polypropylene
Casing	Polyethylene, sintered
Seals:	EPDM (flat seals for DOE)
Filter fineness (micron, normal)	approx. 10 µm
Maximum operating temperature	70°C for water
Rec. throughput (max.)	300 l/h per 10" cartridge length

Code

Cartridge type	Length	Fineness
FK-AK	9	10

Wire cloth filter cartridges FK-MK

These filter cartridges made of metal wire are used when plastic filter cartridges cannot be used due to high temperatures or certain chemicals.

The metal wire filter cartridges are completely plasma-welded, free of oil and thermally degreased. The end caps and the longitudinal seams are free of glues.

PTFE flat seals are inserted in the grooves of the filter cartridges that open on both sides (DOE) as standard. Threads or adapters that are customary in the industry can be manufactured according to the housing type.

You can choose between filter finenesses of from 1 µm to 1000 µm; bear in mind that the filter surface area decreases as the filter fineness increases. There is the option of using a pleated variant to increase the filter surface area.

Applications

Hot fluids, solvents, viscous fluids, oxidants (e.g. potassium permanganate, hydrogen peroxide, nitric acid, etc.), hot steam

Technical data	
Length	4 ¾" I 9 ¾" I 19 ½" I 29 ¼" I 39" I 40"
Diameter	OD: 64 mm I ID: 27 mm
Mesh openings (micron)	1 µm – 1000 µm
Material	Stainless steel, 1.4301
Sealing material	PTFE
Cloth surface area	approx. 500 cm^2 (pleated: 1,500 cm^2)
Maximum operating temperature	up to 200°C for water
Recommended filter change	2 bar differential pressure

Code		
Cartridge type	**Length**	**Fineness**
FK-MK	40	100

Air filters

Filter pads I Filters for spray paint systems

Polyester filter pads are used as pre-filters and main filters for all ventilation and air conditioning systems. Filters for spray paint systems are used to separate dry dusts and paint mists.

Filter pads

All synthetic filter pads consist of a progressively built up Polyester filter medium. The individual fibres are affixed by thermobonding or needling. Chemical bonding agents are not used. Filter pads (G2-G4) can be reused. Fine dust filter pads (M5) are intended for one-time use. Regeneration is not intended. Nine pad types with various filter classes, thicknesses and flow rates are available. The filter pads are available on the roll or in pieces.

Filters for spray paint systems

Glass fibre filter pads consist of a glass fibre web and are free of silicone and substances that damage paint. The Dust-Stop filter pads are equipped with an antibacterial dust binding agent to separate dry dusts. Paint-Stop filter pads are used especially to protect against paint deposits in ventilation ducts, as well as on motors and fans. All glass fibre filter pads are approved for the automotive industry.

Panel filters I Z-Line filters

Panel filters are the alternative to filter pads. They can be manufactured simply or pleated as Z-Line filter cells for increased dust storage capacity.

Panel filters

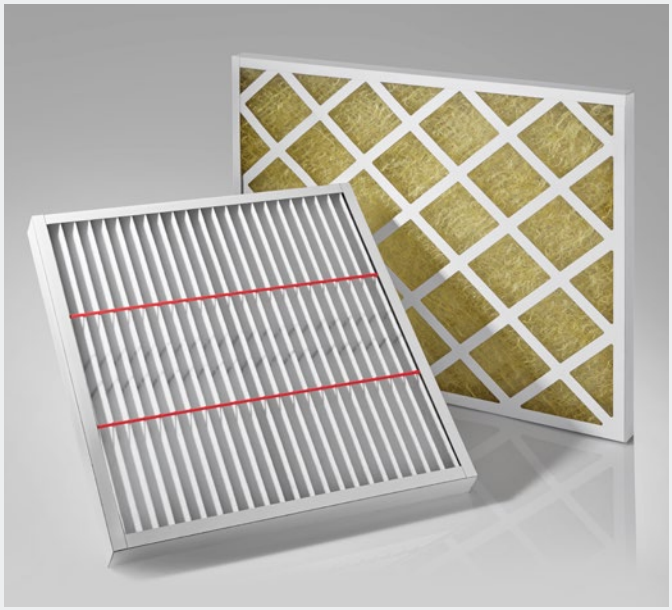
Panel filters can be equipped with glass fibre or synthetic media. A wide range of frame materials such as moisture-resistant cardboard, galvanised metal or plastic are available for them.

Z-line filters

Z-line filters are different due to the filter medium being folded in a Z shape. This provides these elements with a service life that is 2.5 times as long.

Applications

Pre-filtration for air conditioning and ventilation devices or systems that must remove coarse dusts highly efficiently.



Pocket filters

For filtration in all types of ventilation and air conditioning systems and devices.

The individual pockets are welded conically and are connected so that they are leak-tight using the single frame structure. Frames made of galvanised steel or plastic are used as standard. The frame depth is 25 mm (optional: 20 mm). We can also provide an optional PP flat seal. If the filter media are multi-layer Polypropylene melt-blown synthetic filter media or glass fibre filter media, the individual seams are sealed using hot-melt adhesive to prevent dust penetration.

Applications

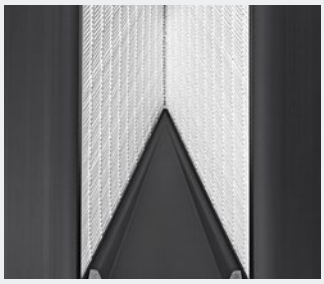
Air conditioning systems, offices, warehouses, hospitals, computer centres, telephone exchanges, factories for the optical, fine mechanical, electronic, pharmaceutical and chemical industries. Furthermore, they are used as pre-filters for filters for suspended particles and as pre-filters in varnish and paint spraying plants.

Code				
Pocket filters	**Width x height x depth**	**Filter class**	**Number of pockets**	**Frame**
TF	592 x 592 x 600	F7	6	M

Compact filters

Powerful fine dust compact filters for all types of ventilation and air conditioning systems.

Thanks to the mini-pleat design, very narrow pleat gaps and therefore a very large filter surface area can be created and implemented. The filters can also be used in pocket filters and installed both horizontally and vertically; they are corrosion-free and moisture-resistant at up to 100% relative air humidity. All compact filters in this range can be fully incinerated. You can obtain all common filter classes between M6 and H13 from us.



Applications

Main filter stage in air conditioning, ventilation and turbine systems, fine dust filtration in all types of ventilation and air conditioning systems, e.g. in offices, hospitals, computer centres or airport, intake or exhaust filters for the photographic, electrical, pharmaceutical and food industries, microfiltering in process technology, pre-filter for clean room systems and filters for suspended particles.

Code		
Compact filters	**Width x height x depth**	**Filter class**
CF	592 x 592 x 292	F9

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Bag filters

Bag filters EL

The light stainless steel design with a side intake principle.

The special design feature is the light stainless steel design with side intake principle, which prevents the suspension running on or overflowing when the housing cover is open. The V-clamp enables the cover to be opened and closed easily. It is installed so that it is self-supporting, using a base frame or wall attachment clips. The low-priced EL variant can only be delivered in the standard version.

Function

Bag filters comprise three components: the filter housing, the pressure absorption basket and the filter bag. Filtration is carried out from inside to outside. The fluid to be filtered (suspension) enters the filter via the inlet, flows through the filter bag that is reinforced by the pressure absorption basket and exits through the floor outlet. A displacer can be used to reduce the residual contamination quantity. The solids that are in the bag can be disposed of easily, as the bag retains only a small amount of residual fluid thanks to its low tare volume.

Advantages and uses

Bag filter systems are user-friendly, versatile, cost-saving, robust and constructed to a high quality. The inner housing is made easier to clean thanks to the smooth design that eliminates dead space. No special tools are required to open the bag filters. This makes cleaning and changing the filter bag easier. We also offer a wide range of ring filter bags and accessories.

Technical data		
Type	EL	
Bag size	1 I 2 I 10 I 20	(see ring filter bags)
Maximum operating data (bar)	6 I 6 I 9 I 9	
Maximum throughput (m^3/h)	20 I 40 I 6 I 12	
Material	Stainless steel 1.4571	
Connections	Size 1 and 2:	2" threads – DN50 (M)
	Size 10:	1" threads – DN25 (M) or 1½" thread – DN40 (M)
	Size 20:	1½" threads – DN40 (M)

Code						
Device type	**Number of bags**	**Size**	**Material**	**Pressure**	**Connection**	**Connection type**
EL	1	1	S	6	DN50	M

Bag filters FL

The light stainless steel design with a wide range of applications.

The special design feature is the low-priced, light stainless steel design that also meets the requirements of demanding applications. The swing eye-bold closure enables perfect accessibility and ease of use. The FL bag filter can be supplied with threads and flange conntections.

Function

Bag filters comprise three components: the filter housing, the pressure absorption basket and the filter bag. Filtration is carried out from inside to outside. The fluid to be filtered (suspension) enters the filter via the inlet, flows through the filter bag that is reinforced by the pressure absorption basket and exits through the floor outlet. A displacer can be used to reduce the residual contamination quantity. The solids that are in the bag can be disposed of easily, as the bag retains only a small amount of residual fluid thanks to its low tare volume.

Advantages and uses

Bag filter systems are user-friendly, versatile, cost-saving, robust and constructed to a high quality. The inner housing is made easier to clean thanks to the smooth design that eliminates dead space. No special tools are required to open the bag filters. This makes cleaning and changing the filter bag easier. We also offer a wide range of ring filter bags and accessories.

Technical data	
Type	FL
Bag size	1 I 2 (see ring filter bags)
Maximum operating data (bar)	10 I 10
Maximum throughput (m^3/h)	20 I 40
Material	Stainless steel 1.4408, 1.4571
Connections	2" threads – DN50 (M) or DN50 flange (F)

Code						
Device type	**Number of bags**	**Size**	**Material**	**Pressure**	**Connection**	**Connection type**
FL	1	1	S	10	DN50	M

Bag filters SL

The solid high-pressure design with a side intake principle.

The difference between this and the EL and FL variants is the high-pressure design. Various options can be manufactured for this device, such as a milk pipe or tri-clamp connections. The housings can be completely electropolished and smoothed to enable use in the food and pharmaceutical industries.

Function

Bag filters comprise three components: the filter housing, the pressure absorption basket and the filter bag. Filtration is carried out from inside to outside. The fluid to be filtered (suspension) enters the filter via the inlet, flows through the filter bag that is reinforced by the pressure absorption basket and exits through the floor outlet. A displacer can be used to reduce the residual contamination quantity. The solids that are in the bag can be disposed of easily, as the bag retains only a small amount of residual fluid thanks to its low tare volume.

Advantages and uses

Bag filter systems are user-friendly, versatile, cost-saving, robust and constructed to a high quality. The inner housing is made easier to clean thanks to the smooth design that eliminates dead space. No special tools are required to open the bag filters. This makes cleaning and changing the filter bag easier. We also offer a wide range of ring filter bags and accessories.

Technical data		
Type	SL	
Bag size	1 I 2 I 10 I 20	(see ring filter bags)
Maximum operating data (bar)	10 I 10 I 16 I 16	
Maximum throughput (m^3/h)	20 I 40 I 6 I 12	
Material	Stainless steel 1.4408, 1.4571	
Connections	Size 1 and 2:	DN50 or DN80 flange (F)
	Size 10 and 20:	1½" threads – DN40 (M)

Code

Device type	Number of bags	Size	Material	Pressure	Connection	Connection type
SL	1	1	S	10	DN50	F

Bag filters TL

The high-quality design with lid inlet principle for optimised product flow.

The TL bag filter is a high-quality design with a lid inlet principle. This guarantees optimised product flow through the lid into the filter housing. The TL version also offers a swing eye-bold closure. Installation is carried out using the height-adjustable base frame that is supplied with the order.

Function

Bag filters comprise three components: the filter housing, the pressure absorption basket and the filter bag. Filtration is carried out from inside to outside. The fluid to be filtered (suspension) enters the filter via the inlet, flows through the filter bag that is reinforced by the pressure absorption basket and exits through the floor outlet. A displacer can be used to reduce the residual contamination quantity. The solids that are in the bag can be disposed of easily, as the bag retains only a small amount of residual fluid thanks to its low tare volume.

Advantages and uses

Bag filter systems are user-friendly, versatile, cost-saving, robust and constructed to a high quality. The inner housing is made easier to clean thanks to the smooth design that eliminates dead space. No special tools are required to open the bag filters. This makes cleaning and changing the filter bag easier. We also offer a wide range of ring filter bags and accessories.

Technical data	
Type	TL
Bag size	1 I 2 (see ring filter bags)
Maximum operating data (bar)	10 I 10
Maximum throughput (m^3/h)	20 I 40
Material	Stainless steel 1.4408, 1.4571
Connections	DN50 flange (F)

Code						
Device type	**Number of bags**	**Size**	**Material**	**Pressure**	**Connection**	**Connection type**
TL	1	1	S	10	DN50	F

Bag filters PL

The special design features is the one-piece base body made of glass fibre reinforced Polypropylene or PVDF for high corrosion resistance.

Plastic bag filter housings are free of metal parts that are at risk of corrosion. The glass fibre reinforced propylene or PVDF housings are used when filtering very aggressive fluids.

Function

Bag filters comprise three components: the filter housing, the pressure absorption basket and the filter bag. Filtration is carried out from inside to outside. The fluid to be filtered (suspension) enters the filter via the inlet, flows through the filter bag that is reinforced by the pressure absorption basket and exits through the floor outlet. A displacer can be used to reduce the residual contamination quantity. The solids that are in the bag can be disposed of easily, as the bag retains only a small amount of residual fluid thanks to its low tare volume.

Advantages and uses

The integrated clamping flange enables reliable floor attachment. The bag filter is opened manually. No special tools are required. There are two floor connections on opposite sides and they can also be used as drains or product outlets. The product outlet can therefore be placed on the same side as the product inlet or on the opposite side of the bag filter. This makes installation significantly easier. The connections are provided as threads or a flanges. The inner housing is made easier to clean thanks to the base body's one-piece design.

Technical data	
Type	PL
Bag size	1 I 2 (see ring filter bags)
Maximum operating data (bar)	10 I 10 (7 bar for the PVDF housing)
Maximum throughput (m^3/h)	12 I 24
Material	Polypropylene (PVDF also possible for size 2)
Connections	2" threads – DN50 (M) I DN50 flange (F)

Code

Device type	Number of bags	Size	Material	Pressure	Connection	Connection type
PL	1	1	P	10	DN50	F

Technical data[1] sheet – Bag filters

Bag filter type	EL		FL		SL		TL		PL	
Size	1	2	1	2	1	2	1	2	1	2
	10	20	-	-	10	20	-	-	-	-
Material	Stainless steel		Stainless steel		Stainless steel*		Stainless steel*		Polypropylene	
Maximum operating data (bar|°C)	6|120	6|120	9|120	9|120	10|160	10|160	10|160	10|160	10|21	10|21
	9|120	9|120	-	-	16|160	16|160	-	-	-	-
Lid type	Loose lid		Flap lid		Flap lid		Flap lid		Loose lid	
	Loose lid		-		Flap lid		-		-	
Lid lock	V clamp		4 flap lug screws		4 flap lug screws		4 flap lug screws		Screw lock	
	V clamp		-		4 flap lug screws		-		-	
Filter connections (Inlet|Outlet)	2" BSP threads		2" BSP threads		DN50 / DN80 flange		DN50 flange		2" flange	
	1 ½" or 1" BSP threads		Alternative DN50 flange		1 ½" BSP threads		-		alternativ DN50 flange	
Maximum throughput (m^3/h)**	20	40	20	40	20	40	20	40	12	23
	6	12	-	-	6	12	-	-	-	-
Filter bag size	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2
	R10	R20	-	-	R10	R20	-	-	-	-
Filter surface area (m^2)	0,25	0,50	0,25	0,50	0,25	0,50	0,25	0,50	0,185	0,38
	0,09	0,16	-	-	0,09	0,16	-	-	-	-
Number of gaskets***	1	1	1	1	2	2	2	2	2	2
	1	1	-	-	1	1	-	-	-	-
Housing capacity (litres)	15,5	27	15,5	27	18	32	13	27,5	25	36
	3	4,5	-	-	3	4,5	-	-	-	-
Housing weight (kg)	7,5	11	21,5	27	38	46	36	42	23	31
	3,5	4,5	-	-	12	13	-	-	-	-
Venting valve (")	¼	¼	¼	¼	¼	¼	¼	¼	¼	¼
	¼	¼	-	-	¼	¼	-	-	-	-

* Stainless CrNiMo steel with a minimum quality of 1.4401 or 1.4408 - stainless steel precision casting
** Maximum theoretical throughput (viscosity similar to water), depending on the filter bag
*** Standard seal = NBR O-ring, the standard seal for the PL bag filter type is made of FPM

[1]non-binding specifications

Spare parts

To improve your processes in the production we offer useful accessoires.

Leg assembly

We can supply a leg assembly as an accessory for the EL, FL and SL bag filter types if wall installation is impossible. The leg assembly is supplied as standard with the TL housing.

Fastening clamp

The fastening clamp is available for the EL, FL and SL bag filter types and is used for wall fastening.

Bag fixing ring

The bag fixing ring ensures that the filter bag sits correctly in the housing and prevents it floating due to back-ups. This also prevents the filter bag breaking.

Magnetic separator

Magnetic separators are a combination of bag retainers with bar magnets. This relieves the filter bags of magnetic particles significantly and therefore increases their service life. The magnetic separators are available in sizes 1 and 2, and can be provided with 1 or 2 bar magnets each.

Evacuation balloon

A evacuation balloon can be used to reduce the residual contamination quantity in the bag filter to a minimum and therefore to make changing the bag easier. The stainless steel displacers are pressure-resistant up to 16 bar and available in sizes 1 and 2.

Mesh strainers

The mesh strainers are available in four different sizes to fit the housings. They are made completely of stainless steel and available with mesh openings of 25, 50, 100, 150, 250, 400 and 800 µm.

Pressure gauge

Indicates the pressure present in the bag filter in bar. Many housings can also be supplied with differential pressure gauges upon request.

Venting valve

Used to vent the bag filter before opening. Automatic Venting valves can also be supplied upon request.

Accessoires

We offer a wide range of spare parts for our bag filter housings.

Gaskets

Gaskets are wear parts and must be replaced regularly. Available materials: NBR, EPDM, FPM, FEP, coated FPM and silicone.

Restrainer basket

Robust, electropolished restrainer baskets made out of perforated sheet metal enable filter bags to be used up to a differential pressure of 3.5 bar.

Lifting device

The lifting device enables the pressure absorption basket to be removed safely and easily when changing the filter bag. It is supplied as standard but is also available as a spare part for all bag filter types.

Bag hold-down rings

The bag hold-down rings ensures that the ring filter bag sits well in the housing. It is supplied as standard but is also available as a spare part for all EL, FL and SL housings.

Lock screw

This lock screw is used if neither a pressure gauge nor a venting valve are connected.

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Cartridge filters

Cartridge filters T-Series

Cartridge filters in the T range are made of high quality stainless steel and can be supplied for 1, 3, 6, 11, 19, 37 and 73 filter cartridge in lengths of 9 ¾" to 40".

The individual cartridge filters in the T range consist of a head and a sump, and are opened and closed using a tri clamp ring. The housing's sump is mechanically polished to ensure better cleaning. The inlet and outlet (1" threads) are arranged opposite each other in the housing head. The housings have a drain in the base (BSP 3I8"). The seal is provided by an NBR O-ring seal. The sealing rings can also be supplied in FPM and EPDM as an accessory. There are four different versions of the housing for the DOE and SOE filter cartridge types.

Multi cartridge filters in the T range can be supplied as stainless steel versions (1.4571; 1.4408) or made of special materials such as HASTELLOY for 3 to 73 standard filter cartridges. Depending on the housing type, the filters are supplied with flat or domed lids, with flap lug screws or segment bracket screws, with a loose lid or a lifting and pivoting lid (hand wheel or hydraulic), with a side inlet and with a central base outlet.

The container seal is provided by an NBR seal in the lid area. The sealing rings can also be supplied in different materials such as FPM and EPDM as an accessory. The filters have a drain valve in the container lid and a drain above the perforated base plate.

Technical data*								
T-	1-10	1-20	1-30	1-40	3-10	3-20	3-30	3-40
Maximum throughput (m^3/h)	2.4	4.8	4.8	4.8	4.5	9	13.5	18
Permissible operating conditions (bar/°C)	20 / 121				16 / 160			
Volume (litres)	1.8	3.2	4.4	5.8	9.2	14.7	20.1	25.6
Weight (kg)	3.9	4.5	5.1	5.7	31	35	40	46
Inlet/outlet	1" thread (ISO 228-1)				1½" thread (ISO 228-1)			
Drain	3/8" thread (ISO 228-1)				2 x ½" thread (ISO 228-1)			
Venting valve	None				2 x ¼" thread (ISO 228-1)			
Cartridge filter material	Stainless steel 1.4408, 1.4571				Stainless steel 1.4408, 1.4571			
Gasket material	NBR O-ring				NBR O-ring			
Cartridge length (")	9¾, 10	19½, 20	29¼, 30	39, 40	9¾, 10	19½, 20	29¼, 30	39, 40
Number of cartridges	1	1	1	1	3	3	3	3

*non-binding specifications
Technical data for housing sizes 6, 11, 19, 37 and 73 is available upon request.

Code						
Type	Number of cartridge	Length	Material	Connection	Cartridge type	Drain
T	1	10	S	1	0	E

Cartridge filters E-Series

Stainless steel cartridge filters are of a light stainless steel design and can be supplied for 1, 5, 12 and 22 DOE filter cartridges in lengths of 5" to 40".

The single version comprises a head and a sump, which can be screwed together using a locking nut. The inlet and outlet (¾" or 1" threads) are arranged opposite each other in the housing head. The seal is provided by an NBR O-ring seal (EPDM or FPM upon request). The housing can be drained via a 3I8" thread on the base. A mounting console for wall mounting can be supplied as an accessory.

The 5, 12 and 22 versions are standing versions or versions supplied with a base frame. The housings are closed using a V clip. The seal is provided by an NBR O-ring seal. FPM seals can also be supplied.

The inlet and outlet are located in the lower container area. A ½" thread is also installed there, in order to enable the contamination and filter spaces to be drained. In order to ensure that the filter cartridges are mounted securely, they are mounted on centring bars using a retainer plate via seal caps with springs. The container lids are equipped with a ¼" BSP thread to install a pressure gauge or a venting valve.

Technical data*

E-	1-5	1-9	1-10	1-20	1-30	1-40	5-9	5-20	5-30	5-40
Maximum throughput (m^3/h)	1.1	2.4	2.4	4.8	4.8	4.8	8.4	16.8	25.2	33.6
Permissible operating conditions (bar/°C)	17 / 121						10 / 121			
Volume (litres)	0.7	1.51	1.54	2.98	4.42	5.87	14	23	31	38
Weight (kg)	2.5	3.28	3.29	3.82	4.34	4.87	13	16	19	22
Inlet/outlet	1" thread (ISO 228-1), ¾" thread (ISO 228-1)						2" BSP thread			
Drain	3/8" thread (ISO 228-1)						2 x ½" BSP thread			
Venting valve	None						¼" BSP thread			
Cartridge filter material	Stainless steel, 1.4408, 1.4571						Stainless steel, 1.4301			
Gasket material	NBR O-ring						NBR O-ring			
Cartridge length (")	5	9¾	10	20	30	40	9¾ / 10	19½ / 20	29¼ / 30	39 / 40
Number of cartridges	1	1	1	1	1	1	5	5	5	5

*non-binding specifications
Technical data for housing sizes 12 and 22 is available upon request.

Code

Type	Number of cartridge	Length	Material	Connection	Drain
E	1	20	S	1	E

Cartridge filters K-Series

Plastic cartridge filters are single cartridge filters for standards filter cartridges that open on both sides.

The plastic filter housings are available in two housing diameters („S“ version, 12.2 cm and „L“ version, 18.5 cm) and three lengths (5", 9" and 20").

The housing head is made of Polypropylene and has an inlet and an outlet in ⅜" BSP, ¾" BSP, 1" BSP or 1½" BSP which are arranged opposite each other in the filter housing's head. The housing is therefore easy to install on the piping.

The „S“ version's sump can either be made of Polypropylene or can be a transparent sump (SAN). The „L“ version is made entirely of Polypropylene.

There is an NBR O-ring seal between the housing head and the sump. FPM seals are also available as an alternative. All housings can be supplied with a venting valve (add „E“).

Technical data*					
K-	1-5-S-P-3/8 1-5-S-S-3/8	1-9-S-P 1-9-S-S	1-20-S-P	1-9-L-P-1,5-E	1-20-L-P-1,5-E
Maximum operating conditions (bar/°C)	8/50				
Filter connections (N1/N2) BSP female thread (")	⅜	⅜, ¾	¾, 1	1½	1½
Filter cartridge length (")	5	9¾	20	9¾	20
Filter head material	Polypropylene (P)				
Filter sump material	Polypropylene (P)	Polypropylene (P)	Polypropylene (P)	Polypropylene (P)	Polypropylene (P)
	SAN (S)	SAN (S)	-	-	-
O-ring gasket material	NBR				
Venting valve	Optional (add „E“)			ja	
Wrench	S-K-P-S			S-K-P-L	
Mounting bracket	BK-K-S-S			BK-K-S-L	

*non-binding specifications

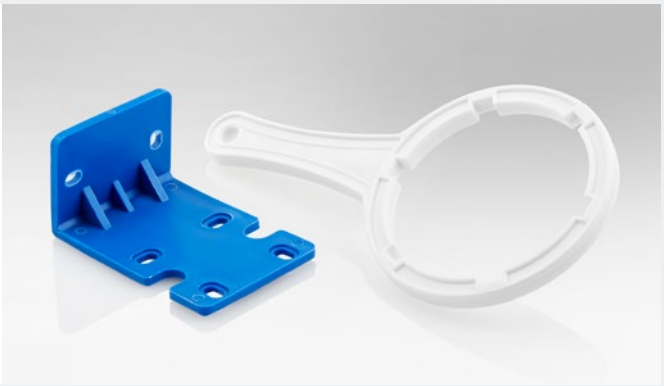
Code						
Type	Number of cartridges	Length	Cartridge diameter	Material	Connection	Venting value
K	1	20	S	P	1	E

Spare parts I Accessoires

We offer original spare parts and accessories for all cartridge filter housings.

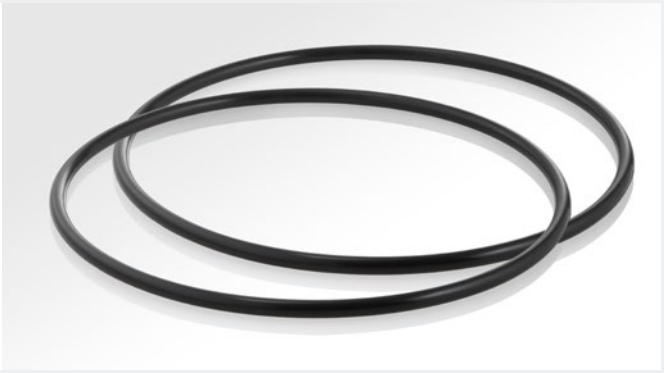
Mounting brackets and wrench

We offer a wall mounting bracket and a wrench for all plastic cartridge filters. Wall mounting is carried out via the housing head so that the sump can be removed, the cartridge disposed of and reinstalled. You can use the wrench to loosen the sump easily.



Gaskets

Gaskets are spare parts and must be replaced regularly. Available materials: NBR, EPDM, FPM, FEP, coated FPM and silicone.



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Stand 01/2019