

Charcoal Filter Elements

Voigt - Charcoal filter elements consist of an outer and an inner support shell, a prefilter, the activated carbon granule, a protective fleece and the two end caps with seals.

Apart from the activated carbon granule and the two flat seals, all used materials (support shell, prefilter, protective fleece and the both end caps) are made of 100% polypropylene. The prefilter material is offered as standard in 5 different grades of fineness. The main task of the protective fleece is to prevent the activated carbon granule, which is situated between the two support shells, from reaching the filtrate. The material of the two seals can be adapted to the respective field of application.

Our filter elements are available in 9 different standard lengths. However, they can be produced in every other length up to max. 1016 mm. The flow takes place from the outside to the inside.

To guarantee a sufficiently long contact time of the medium with the activated carbon granules, the maximum flow capacity should not be exceeded. In individual cases it can be necessary to further lower the flow rate to achieve an optimal filtration result.

Our activated charcoal filter elements are applicable in all standard cartridge filter housings. Therefore, it is possible to operate the filter housing with other filter elements (e.g. yarn wound filter elements) if needed.



Technical data

Initial differential pressure in a pure state	0.1 - 0.3 bar
Recommended differential pressure for filter change	1.5 bar
Permissible end differential pressure	2.5 bar
Max. operating temperature	70°C

Applications

- ✓ Water treatment
- ✓ Chemical industry
- ✓ Pharmaceutical industry
- ✓ Electroplating
- ✓ Surface treatment
- ✓ Beverage industry
- ✓ Food industry
- ✓ Electronics industry
- ✓ Paint and coatings industry
- ✓ Cosmetics industry
- ✓ Petroleum industry
- ✓ Photographic industry
- ✓ Environmental technology

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Flow rate in l/min at a differential pressure of 0.2 bar
based on water (1 mPas)

	254 mm long	508 mm long	762 mm long	1016 mm long
1 µm	5	10	15	20
5 µm	5	10	15	20
10 µm	5	10	15	20
25 µm	5	10	15	20
50 µm	5	10	15	20

Due to the necessary dwell time of the suspension in the charcoal filter elements, very low flow rates are chosen. In individual cases it can be necessary to further lower the flow rate to achieve an optimal filtration result.

Ordering information

Product group	Filter type	Length	Fineness	Sealing
44	PAE	0254	025	N

Product group	44			
Filter type	PAE Industry PAH Water	PgAE Industry (washed) PgAH Water (washed)		
Materials	support shell, prefilter, protective fleece, end caps made of polypropylene seals optional (see below)			
Amount of activated carbon granule	approx. 130 g / 10" filter element (254 mm)			
Length	0102 4" (102 mm) 0127 5" (127 mm) 0248 9 ¾" (248 mm)	0254 10" (254 mm) 0496 19 ½" (495 mm) 0508 20" (508 mm)	0743 29 ¼" (743 mm) 0762 30" (762 mm) 1016 40" (1016 mm)	
Fineness of the pre-filter (nominal)	001 1 µm 005 5 µm	010 10 µm 025 25 µm	050 50 µm	
Diameter	outside 65 mm	inside 27 mm		
Adapter	on both sides DOE with flat seals			
Sealing	N NBR S Silicone	E EPDM V Viton		