

Yarn Roll Filter Elements

Voigt – Yarn Roll Filter Elements for deep filtration are manufactured in a special winding process from a large number of selected quality materials. This means that these filter elements can be used for almost all neutral and aggressive media. Due to the special structure of these filter elements, they have a high dirt holding capacity and therefore a long service life. Further advantages of the yarn wound filter elements are a low initial differential pressure and high flow rates. Our filter elements are available as standard in 16 different finenesses and in 18 different lengths. Thanks to a special winding process, these filter elements can also be used as precoat filters. Only the finest impurities, which are not separated by the precoat material, are absorbed by the filter.



Application areas

- ✓ Water treatment
- ✓ Chemical industry
- ✓ Pharmaceutical industry
- ✓ Electroplating / surface treatment
- ✓ Beverage and food industry
- ✓ Electronics industry
- ✓ Paint and varnish industry
- ✓ Power and nuclear power plants
- ✓ Paint and varnish industry

Technical specifications

Initial differential pressure in the pure state	0,1 - 0,3 bar
Recommended Differential pressure for a filter change	1,5 - 2,0 bar
More permissible Final differential pressure	3,0 - 3,5 bar
Burst pressure of the support cores at ID 27 mm	ca. 5 bar
Bursting pressure of the support core at ID 34 mm	ca. 10 bar

Flow rate in l/min at one Differential pressure of 0.2 bar based on a filter element with 10 "length

Porosity µm	Operating viscosity		
	1 mPas	30 mPas	80 mPas
0,5	8	3	1
1	10	4	2
3	14	7	4
5	20	11	6
10	24	15	7
15	28	17	9
20	32	20	12
25	32	20	12
30	32	20	12
50	36	24	16
75	36	26	20
100	36	28	26
150	36	32	30
200	36	32	30
300	36	32	30
400	36	32	30

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Ordering Information

Product-group	Filter-material	Porosity	Length	Diameter	Supporting core	Tissue template	Adapter	Seals / O-rings
41	P	5	10	1	P	K	C7	S

Filter material	P Polypropylene (low wetting agent) max. 100°C Pg Polypropylene (washed) max. 100°C Bg Cotton (bleached) max. 100°C PE Polyester max. 140°C V Viscose max. 140°C N Nylon (polyamide) max. 140°C PPS Polyphenylene sulfides max. 190°C GL glass fiber max. 420°C																																				
Porosity (nominal)	0,5 / 1 / 3 / 5 / 10 / 15 / 20 / 25 / 30 / 50 / 75 / 100 / 150 / 200 / 300 / 400 µm																																				
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Diameter	The standard diameter (outside 61 mm, inside 27 mm) is with the Code number 1 marked. Special diameters (e.g. outside 70, 63, 50, 115 mm and inside 34 mm) are also available and are e.g. referred to as 63/34.																																				
Supporting core	R Stainless steel 1.4301 P Polypropylene (max. 70°C) S Stainless steel 1.4401 / 1.4571																																				
Tissue template	K No tissue template P Polypropylene B Cotton																																				
Optional: Adapter	CA DOE on both sides with flat seals C3 Double O-ring adapter 222 and end cap C8 Double O-ring adapter 222 and centering tip C7 Double O-ring adapter 226 and centering tip C2 Double O-ring adapter 226 and end cap P Polypropylene (max. 90°C) PA Polyamide (max. 140°C)																																				
Optional: Seals / O-rings	N NBR E EPDM S Silicone V Viton																																				

Yarn Roll Filter Elements

LOW COST - VARIANT

In addition to the extensive and high-quality range of Voigt yarn wound filter elements, we also offer a cost-effective standard version for simple applications. These items are always available from stock according to the ordering information below.

The technical data relating to the different differential pressures and flow rates can be found in the tables above.

These filter elements can also be optionally equipped with the various standard adapters and the associated seals / O-rings.

Ordering Information

Product-group	Filter-material	Porosity	Length	Diameter	Supporting core	Tissue template	Adapter	Seals / O-rings
81	P	5	10	1	P	K	C7	S

Filter material	P Polypropylene
Porosity (nominal)	1 / 5 / 10 / 25 / 50 / 100 µm
Length	9 ¾" 248 mm 20" 508 mm 40" 1016 mm 10" 254 mm 30" 762 mm
Diameter	The standard diameter (outside 61 mm, inside 27 mm) is with the Code number 1 marked.
Supporting core	P Polypropylene (max. 70°C)
Tissue template	K No tissue template
Optional: Adapter	CA DOE on both sides with flat seals C3 Double O-ring adapter 222 and end cap C8 Double O-ring adapter 222 and centering tip C7 Double O-ring adapter 226 and centering tip C2 Double O-ring adapter 226 and end cap P Polypropylene (max. 90°C) PA Polyamide (max. 140°C)
Optional: Seals / O-rings	N NBR E EPDM S Silicone V Viton