

# Yarn Roll Filter Units

**VOIGT-Yarn Roll Filter Units** for the depth filtration are made of numerous chosen quality materials by means of a special winding mode. Thereby these filter units can be used for almost every neutral and aggressive media. Due to the special construction, these filter units offer high dirt absorption and consequently a long service life. Other advantages of the Yarn Roll Filter Units are a low initial differential pressure and high flow rates. By default our filter units are available in 16 different finenesses as well as in 18 different lengths. Thanks to a special winding mode the filters can also be used as pre-coated filters. Thereby only finest impurities, which are not separated by the pre-coated material, are taken up by the filter.

## Applications

- ✓ water treatment
- ✓ chemical industry
- ✓ pharmaceutical industry
- ✓ electroplating / surface treatment
- ✓ beverage and food industry
- ✓ electronics industry
- ✓ paint and coatings industry
- ✓ power and nuclear power stations

## Technical Data

<b>initial differential pressure in clean condition</b>	0,1 - 0,3 bar
<b>recommended differential pressure for filter change</b>	1,5 - 2,0 bar
<b>permissible final differential pressure</b>	3,0 - 3,5 bar
<b>burst pressure supporting core ID 27 mm</b>	approx. 5 bar
<b>burst pressure supporting core ID 34 mm</b>	approx. 10 bar



## Flow capacity in l/min at a differential pressure of 0,2 bar in relation to a filter unit of 10" length

fineness 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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Reserve is made to technical modification  
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**1.000**

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## Ordering information

product group	filter material	fineness	length	diameter	supporting core	fabric layer	adapter	gasket
41	P	5	10	1	P	K	C7	S

filter material	<b>P</b> polypropylene (poor in wetting agents) max. 100°C <b>Pg</b> polypropylene (washed) max. 100°C <b>Bg</b> cotton (bleached) max. 100°C <b>PE</b> polyester max. 140°C <b>V</b> viscose max. 140°C <b>N</b> nylon (polyamide) max. 140°C <b>GL</b> glass fiber max. 420°C																																				
fineness (nominal)	0,5 / 1 / 3 / <b>5</b> / 10 / 15 / 20 / 25 / 30 / 50 / 75 / 100 / 150 / 200 / 300 / 400 µm																																				
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diameter	<p>The standard diameter (<b>outside 61 mm, inside 27 mm</b>) is marked with the index number <b>1</b>.</p> <p>Special diameters (e.g. outside <b>70, 63, 50, 115 mm</b> and inside <b>34 mm</b>) are also available and are named e.g. as 63/34.</p>																																				
supporting core	<b>R</b> stainless steel AISI 304 <b>P</b> polypropylene (max. 70°C) <b>S</b> stainless steel AISI 316																																				
fabric layer	<b>P</b> polypropylene <b>B</b> cotton <b>K</b> no fabric layer <b>GL</b> glass fiber																																				
adapter	<b>CA</b> both-sided DOE with gasket <b>C3</b> double-O-Ring-adapter 222 and end cap <b>C8</b> double-O-Ring-adapter 222 and center point <b>C7</b> double-O-Ring-adapter 226 and center point <b>C2</b> double-O-Ring-adapter 226 and end cap																																				
gasket	<b>N</b> NBR <b>E</b> EPDM <b>S</b> silicone <b>V</b> Viton																																				



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