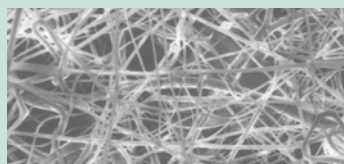


# EPVg.P (KFGg.P) Polypropylene pleated Filter Cartridges and Capsules

Multi-purpose efficient pleated filter for various applications



## Description

The EPVg.P cartridge is produced on the basis of the increased density pleated filter material made of polypropylene microfibers.

EPVg.P filter cartridges are designed to retain microparticles efficiently within the range of 0.2-50 µm. The filter material provides high chemical and thermal resistance in a wide range of pH and organic solvents. EPVg.P is designed for various applications, where it is necessary to provide high flow rate of the filter in the processes of preliminary and final filtration. Full polypropylene structure ensures high chemical stability and mechanical load resistance.

## Features and advantages

Features	Advantages
Full propylene pleated filter with excellent filtration characteristics	<ul style="list-style-type: none"> <li>• High particle retention efficiency;</li> <li>• Wide chemical compatibility;</li> <li>• Excellent thermal and chemical resistance;</li> <li>• High flow rates at low hydraulic resistance;</li> <li>• Designed for various applications.</li> </ul>
High strength of the cartridge	<ul style="list-style-type: none"> <li>• Reliable maintenance of filter integrity under heavy duty operational conditions;</li> <li>• Withstands multiple wash outs and sterilizations;</li> <li>• The structure of the filter material precludes possibility of 'dusting' and medium migration.</li> </ul>
Non-toxic	<ul style="list-style-type: none"> <li>• Passed wide range of tests and certified for application in medical and food industries.</li> </ul>

## Materials

Membrane	Increased density polypropylene microfiber fabric
Draining layer	Polypropylene
Body, end parts, adapter	Polypropylene
O-rings	Silicone (viton, fluoropolymeric, EPDM available)

## Specifications

### Micron rating

0.2 µm  
 0.5 µm  
 0.65 µm  
 0.8 µm  
 1 µm  
 2 µm  
 3 µm  
 5 µm  
 10 µm  
 20 µm  
 50 µm

### Nominal Dimensions and Filter Areas

#### Filter Cartridges

H, mm	D, mm	S, m <sup>2</sup>
60 (2,5")	70	0.12-0.23
125 (5")	70	0.25-0.5
250 (10")	70	0.5-1.0
500 (20")	70	1.0-2.0
750 (30")	70	1.5-3.0
1000 (40")	70	2.0-4.0

#### Capsule filters

H, mm	D, mm	S, m <sup>2</sup>
250 (10")	94	0.5-1.0
125 (5")	92	0.25-0.5
60 (2,5")	92	0.12-0.23

**H** - height  
**D** - diameter  
**S** - filtration surface area (depends on the micron rating)

## Operational parameters

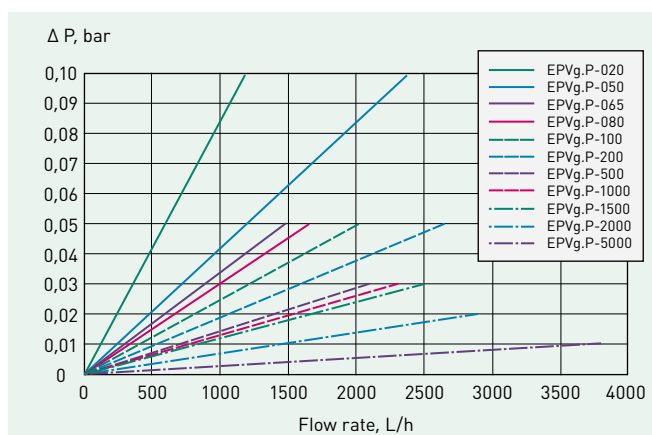
Maximal differential pressure	0.5 MPa at 20 °C, 0.2 MPa at 80 °C (Filter Cartridges) 0.4 MPa at 20 °C, 0.2 MPa at 60 °C (Capsules)
Maximal reverse differential pressure	0.5 MPa at 20 °C, 0.2 MPa at 80 °C (Filter Cartridges)
Maximal operational temperature	up to 90 °C (Filter Cartridges)

## Sterilization and wash

Direct and back wash	Hot water (up to 95 °C), chemical reagents, CIP washing (Filter Cartridges)
Autoclaving	121-132 °C, 30 min, 50 cycles (Filter Cartridges) 121 °C, 0.12 MPa, 30 min, 10 cycles (Capsules)
Steam sterilization*	132 °C, 30 min, 50 cycles

\* Only for filter cartridges

### Flow Rates of EPVg.P H = 250 mm



## Filter Cartridges ordering information

EPVg.P	100	D1	250
Brand	Micron rating	Adapter code	Cartridge height
	<b>Code</b>	<b>A</b>	125 mm (5")
	020 0.2 µm	<b>D</b>	250 mm (10")
	050 0.5 µm	<b>D1</b>	500 mm (20")
	065 0.65 µm	<b>A1</b>	750 mm (30")
	080 0.8 µm	<b>A4</b>	1000 mm (40")
	100 1 µm	<b>B</b>	
	150 1.5 µm	<b>B(SI)</b>	
	200 2 µm		
	300 3 µm		
	500 5 µm		
	1000 10 µm		
	2000 20 µm		
	5000 50 µm		

## Capsules ordering information

KFVg.P	050	K	60
Brand	Micron rating	Connection type	Cartridge height
	the same as for the cartridge element	<b>K</b> – sanitary flange connection	60 mm
		<b>P</b> – thread tapered connection	125 mm
			250 mm