

PolyKey™

Polypropylene Cartridge Filters



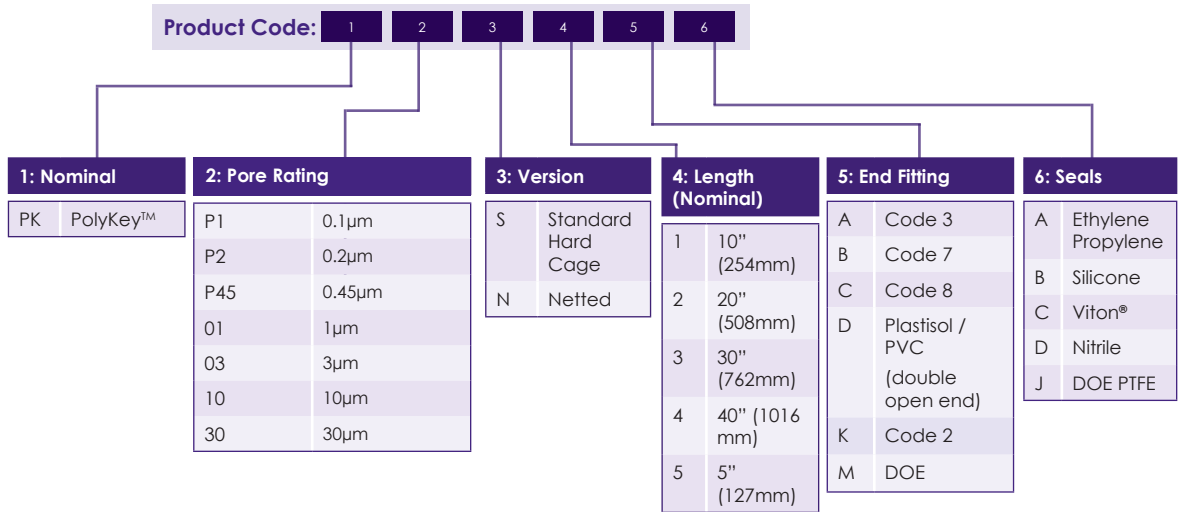
A range of high-quality nominally-rated pleated polypropylene cartridge filters, suitable for challenging filtration environments, including chemical processing, process water and food and beverage.

PolyKey™ filter cartridges are manufactured from melt-blown and spun-bonded pleated polypropylene media, ensuring a highly efficient media with excellent particulate removal as well as low pressure drops.

Typical Applications

- Food and beverage
- Reverse osmosis pre-filtration
- Potable and de-ionised water
- Process water
- Chemical processing
- Coatings
- Oils

Ordering Information



Standard Range

Features and Benefits

- Excellent chemical compatibility
- Variety of end caps
- High-efficiency design
- Outer guard in a single module
- Wide range of options

Specifications

Materials of Manufacture

Filter media: Polypropylene
 Membrane support: Polypropylene
 End caps: Polypropylene (thermal bonded)

Effective Filtration Area

4.5ft² (0.4m²) per 10" (254mm) length

Operating Characteristics

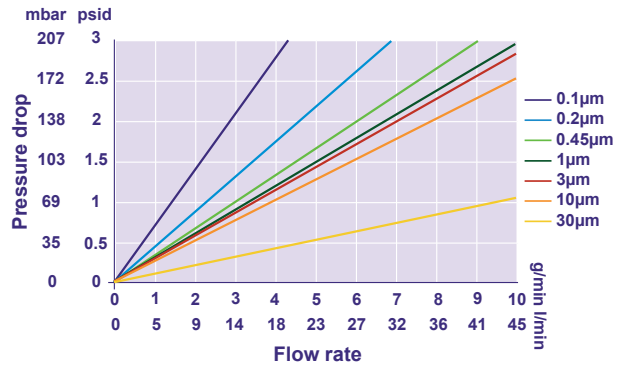
Maximum ΔP: 60psid (4.1bar) @ 140°F (60°C)
 Changeout recommended at 30psid (2.1bar)

Cartridge Dimensions (Nominal)

Diameter: OD 2.75" (70mm)
 2.5" (64mm)
 ID 1" (25mm)
 Length: 5" (127mm)
 10" (254mm)
 20" (508mm)
 30" (762mm)
 40" (1,016mm)

Other lengths available on request.

Flow / Pressure Drop



Flow rates shown are for a nominal 10" (254mm) long cartridge. For fluids other than water, multiply the pressure drop by the fluid viscosity in centipoise.

Filter Retention Specifications*

Nominal micron rating	Liquid Service			
	Particulate removal efficiency (Beta ratio)			
	90% (10)	99% (100)	99.9% (1,000)	99.99% (10,000)
0.1	0.1	0.45	0.8	1
0.2	0.2	0.6	1	2
0.45	0.45	1	2	3
1	1	3	7	10
3	3	7	10	15
10	7	10	15	25
30	30	40	50	60

* Data acquired by multi-pass testing. Ratings are based on laboratory tests using ISO ultra-fine test dust for 0.2, 0.45 and 1µ and ISO fine test dust for 5µ. Flow rate 1 gpm/sq.ft. at room temperature. Field results will be influenced by the type of fluid and contaminant as well as the flow rate and temperature.