

# PolyKey™ GIANT

## GIANT Wide Diameter Cartridges



### High Efficiency GIANT Pleated Cartridges

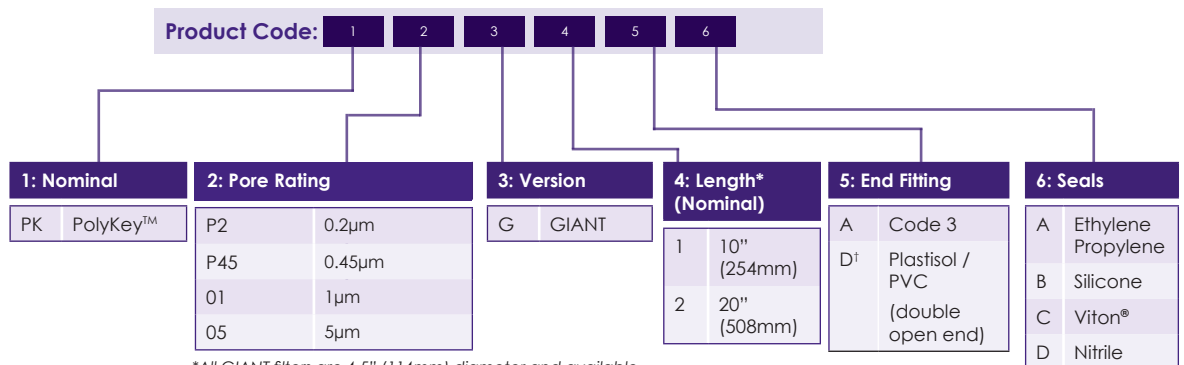
GIANT 222 and DOE wide diameter cartridges offer maximum filtration capacity within a compact unit, featuring a 4.5" (114mm) diameter with differing length options. These cartridges are composed of 10ft<sup>2</sup> (0.9m<sup>2</sup>) of effective surface area per 10" (254mm) cartridge.

Used in conjunction with our GIANT HOUSING® Series 222 Polypropylene filter housings, these systems offer an economical alternative to multi-cartridge stainless steel housings with standard diameter filter cartridges. These are also suitable to retrofit into most industry standard wide diameter housings.

### Typical Applications

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

### Ordering Information



\*All GIANT filters are 4.5" (114mm) diameter and available in length 1 and 2, with code A and M end caps.

<sup>†</sup> When an item has End Fitting option D it does not require a Seal.

## 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

Media: Polypropylene or Polyester  
 End caps: Polypropylene assembled with Polypropylene hot melt adhesive

### Nominal Micron Ratings

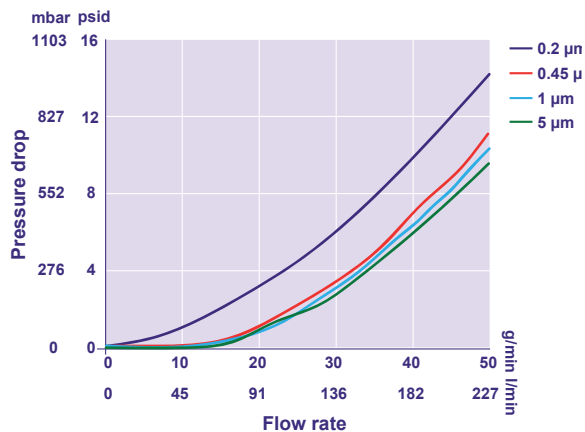
0.2, 0.45, 1µ in Polypropylene media

5µ in Polyester media

### Cartridge Dimensions

Effective Filtration Area:  
 10ft<sup>2</sup> (0.9m<sup>2</sup>) per 10" length  
 Diameter: OD 4.5" (114mm)  
 Length: 10" (254mm)  
 20" (508mm)  
 Sized to fit in our 222 GIANT HOUSING® series

## Flow / Pressure Drop



Flow rates shown are based on an extrapolation of results taken from the standard range.

### 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)
0.2 Polypropylene	0.2	0.6	1.0	2
0.45 Polypropylene	0.45	1	2	3
1 Polypropylene	1	3	7	10
5 Polyester	5	8	10	15

\* 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.