

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 10ft² (0.9m²) 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

Product Code: 1 2 3 4 5 6					
1: Nominal		2: Pore Rating		3: Version	
PK	PolyKey™	P2	0.2µm	G	GIANT
		P45	0.45µm		
		O1	1µm		
		O5	5µm		
4: Length* (Nominal)		5: End Fitting		6: Seals	
1	10" (254mm)	A	Code 3	A	Ethylene Propylene
2	20" (508mm)	D ¹	Plastisol / PVC (double open end)	B	Silicone
				C	Viton®
				D	Nitrile

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

¹ 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:
 10ft² (0.9m²) per 10" length

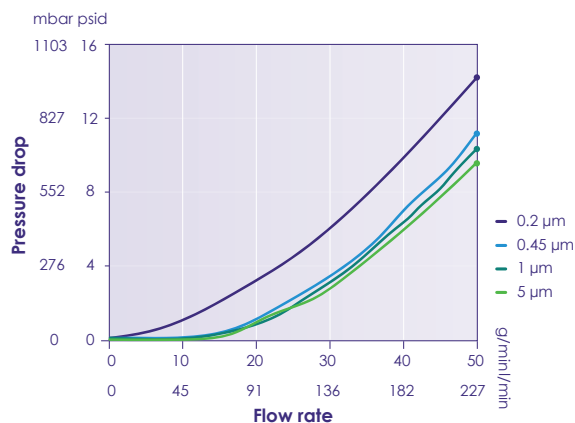
Diameter: OD 4.5" (114mm)

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.