

MicroKey™

Microfibre-glass Cartridge Filters



A range of high quality pleated microfibre-glass cartridge filters, suitable for challenging filtration environments.

MicroKey™ cartridge filters are manufactured from microfibre-glass layered with spun-bonded polyester, to produce a highly efficient media with excellent particulate removal as well as low pressure drops.

Typical Applications

- High temperature
- Process water
- Produced water
- Coatings
- Printing
- Reverse osmosis pre-filtration
- Oils

Ordering Information

Product Code: 1 2 3 4 5 6					
1: Nominal		2: Pore Rating		3: Version	
MK	MicroKey™	P1	0.1µm	S	Standard Hard Cage
		P2	0.2µm		
		P45	0.45µm	H	High temp.
		01	1µm		
		03	3µm		
		10	10µm		
		30	30µm		
		50	50µm		
4: Length (Nominal)		5: End Fitting		6: Seals	
1	10" (254mm)	A	Code 3	A	Ethylene Propylene
2	20" (508mm)	B	Code 7	B	Silicone
3	30" (762mm)	C	Code 8	C	Viton®
4	40" (1016mm)	D*	Plastisol / PVC (double open end)	D	Nitrile
5	5" (127mm)	K	Code 2	J	DOE PTFE
		M	DOE		

* When an item has End Fitting option D it does not require a Seal.

Features and Benefits

- Excellent compatibility at high temperature
- Maximum processing
- High-efficiency

Specifications

Materials of Manufacture

Filter media: Microfibre glass layered with spun-bonded polyester; 50 micron is 100% polyester

Membrane support: Polypropylene or polyester/Nylon

Nominal Micron Ratings

0.1, 0.2, 0.45, 1, 3, 10, 30, 50

Ratings derived from independent laboratory tests using latex bead suspensions and particle counter readings.

Operating Characteristics

Effective Filtration Area:

4ft² (0.37m²) per layer per 10" length

Maximum ΔP :

75 psid (5.2 bar) @ 68°F (20°C)

40 psid (2.8 bar) @ 150°F (66°C)

Maximum Operating Temperature:

140°F (60°C) for standard version (S)

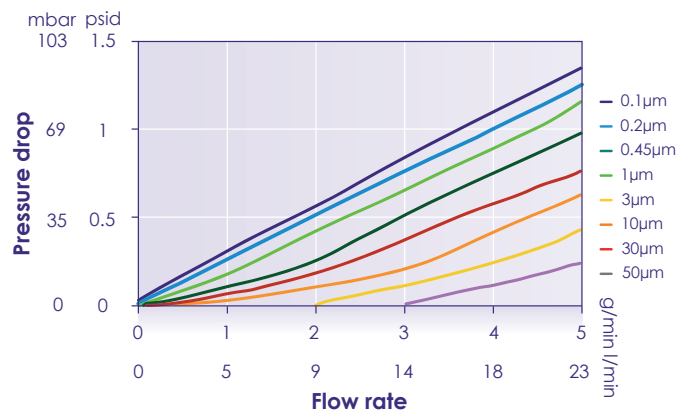
200°F (93°C) for high temperature version (H)

Cartridge Dimensions

Diameter: OD: 2.75" (70mm), ID 1" (25mm)

Nominal Lengths: 5" (127mm) to 40" (1,016mm)

Flow / Pressure Drop



Microfibre glass media in a pleated construction provides excellent flow rates with minimum pressure drop. Flow rates shown are for a nominal 10" (254mm) cartridge. For fluids other than water, multiply the pressure drop by the fluid viscosity in centipoise.

Filter Retention Specifications

Liquid Service					Gas service
Nominal micron rating	Particulate removal efficiency (Beta ratio)				DOP removal efficiency (%)
	90% (10)	99% (100)	99.9% (1,000)	99.99% (10,000)	
0.1	0.1	0.45	0.6	0.8	99.999
0.2	0.2	0.5	0.7	1	99.99
0.45	0.45	1	2	3	99.985
1	1	3	5	7	93
3	3	7	10	12	65
10	7	10	15	25	50
30	20	30	40	50	15
50	30	40	50	60	---