

MicroKey™

Microfibreglass Cartridge Filters



A range of high quality pleated microfibreglass cartridge filters, suitable for challenging filtration environments.

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

* 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: Microfibreglass 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)

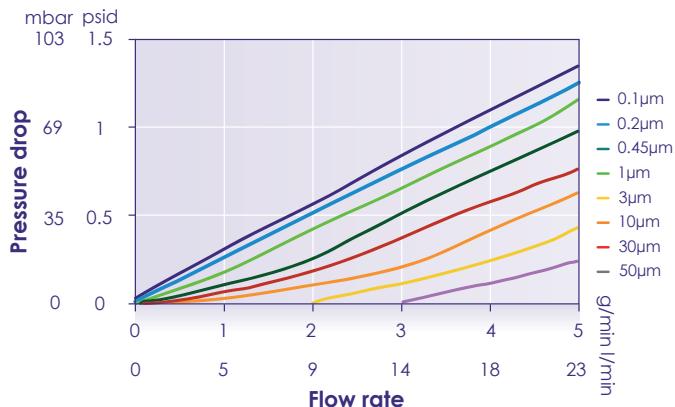
200°F (93°C) for high temperature version (H)

Cartridge Dimensions

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

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

Flow / Pressure Drop



Microfibreglass 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

Nominal micron rating	Liquid Service				Gas service 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	---