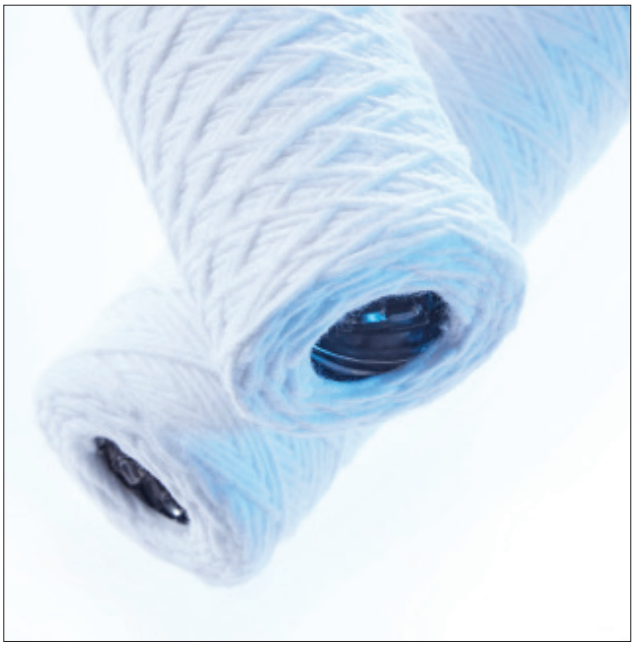
HONEYCOMB

Wound depth filter cartridges

M·FILTER PROCESS DIVISION



Honeycomb precision wound depth filter cartridges are manufactured to provide considerable dirt holding capacity, coupled with high flow rates and low pressure loss. Honeycomb elements consist of a metal or plastic perforated support core onto which yarn is wound at a pre-set rate, providing each rating of element with its own distinctive winding pattern and performance.

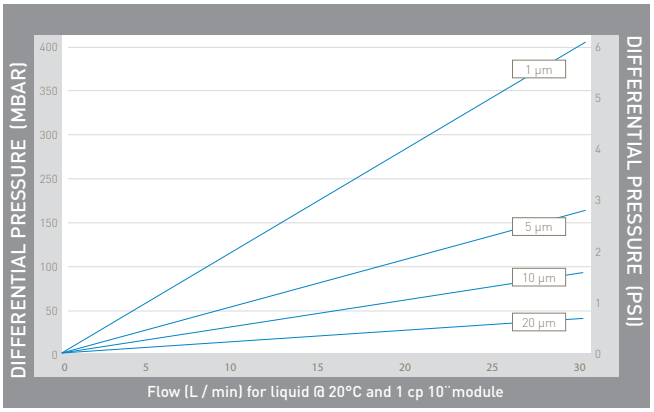
During the winding process the yarn is usually brushed (or napped). This increases the working area of the elements, providing a higher dirt holding capacity whilst maintaining the rigid structure.

Fibres such as polyester, cotton and nylon can operate at higher temperatures and have differing chemical compatibility compared to polypropylene. For very high temperatures and very strong oxidising agents, baked glass fibre elements are used. Glass fibre elements are fitted with voiles and stainless steel cores as standard, other cartridges can also be fitted with voiles where necessary.

Features	Benefits
Wide range of yarn and core materials.	Excellent compatibility across a wide range of fluids.
Available in 62mm diameter and standard lengths.	Designed for most commercially available housings and will retrofit most brands.
True depth filtration.	Suitable for gel and deformable particle capture and protection of absolute rated elements.
Tortuous filtration path.	High dirt holding capacity.

APPLICATIONS

- ✓ Process water
- ✓ Plating
- ✓ Dilute acids and alkaliis
- ✓ Amines



PERFORMANCE CHARACTERISTICS

Wound cartridges provide true depth filtration by utilising hundreds of tapered filtering passages of controlled size and shape. Each layer of roving contributes to true depth filtration by trapping its share of particles.

Wound filter elements display gradual pressure increase during cartridge life versus surface-type media that have an abrupt flow cut-off when loaded.

In addition, irregular outer layers reduce surface blinding, assuring both longer cartridge life and full cartridge utilisation.

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Specifications

Materials of Construction

Filtration media:	Polyester
(various yarns)	Polypropylene
	Bleached cotton
	Glass fibre
	Washed polypropylene
	Nylon
Inner support core:	Polyester
	Polypropylene
	316 stainless steel

Recommended Operating Conditions

Maximum temperature with stainless core:	
Cotton	149°C (300°F)
Polypropylene	93°C (199°F)
Polyester	121°C (250°F)
Glass fibre	399°C (750°F)

Maximum temperature with polypropylene core:	
Cotton	60°C (140°F)
Polypropylene	60°C (140°F)
Polyester	60°C (140°F)

Baked glass fibre cartridge nominal ratings

Cartridge designation:	Liquids	Compressed air & gas
K5B	100-150	100+
K5R	75-100	10
K6R	40	7
K8R	30	5
K10R	20	3
K12R	15	1
K15R	10	>1
K19R	5	>1
K23R	3	>1
K27R	1	>1
K39R	0.5	>1

Ordering information

CARTRIDGES

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Code	Filter Medium
None	Cotton (FDA)
K	Baked glass fiber
M	FDA grade polypropylene
N	Nylon (FDA)
S	Polyester (FDA)
T	Washed PP industrial grade
UK	Unbaked glass fibre

Code	Micron
6R	150
8R	100
10R	75
11R	50
13R	30
15R	20
19R	10
23R	5
39R	1

Code	Length (Nominal)
5	125mm
9	248mm
10	254mm
19-4	500mm
20	508mm
29-4	750mm
30	762mm
39-4	1000mm
40	1016mm

Code	Diameter (Nominal)
None	62mm
-2	68mm
-3	66mm
-45	100mm

Code	Core Material
A	Polypropylene
PE	Polyester
S	316 stainless steel
G	304 stainless steel

Code	End Cap Configuration
None	DOE (w/o gasket)
DO	DOE (w/gasket)
TC	222 / closed
TF	222 / fin
T3	222 blank no recess
SC	226/closed
SF	226/fin
XC	Extended metal

Code	Seal Material
E	EPDM
N	Buna-N
S	Silicone
V	Viton

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