NANOFINE-PURE Filter Cartridges

TPR Type
(Nylon Nanofiber Media)

The TPR cartridges are completely new products having the filter media composed of nano-sized fibers.
They provide excellent particle capturing efficiency comparable to membrane filters in the submicron range.

Features

●Having the media composed of fibers with an extremely small diameter, the TPR cartridges can attain removal efficiency equal to conventianal membrane filters.

●Having homogeneous pore size, the nanofiber media constantly provides stable fine-particle removal from the initial to end stage of its service life.

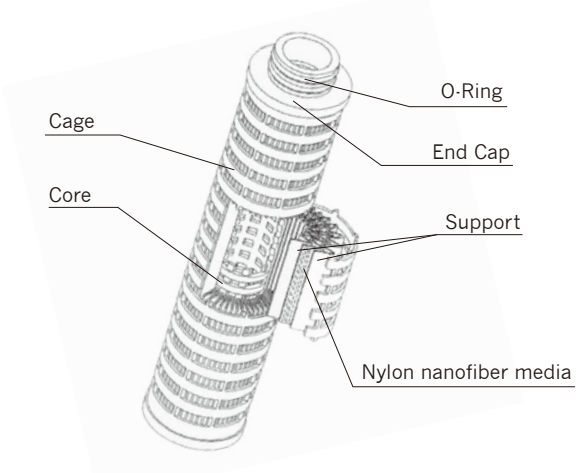
●The TPR cartridges using high porosity media allow lower chances of surface clogging (rapid clogging) compared to membrane filters, and provide outstanding flow rates.

●Using nylon material as nanofiber media, the TPR cartridges can be used with aromatic and hydrocarbon solvents.

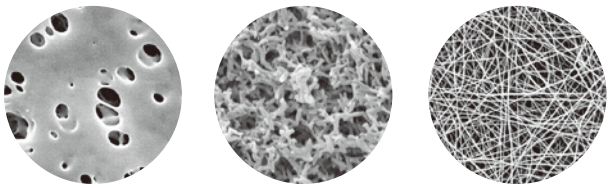
Major Applications

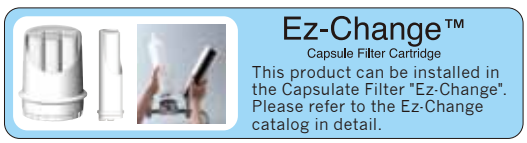
- Separation and Purification of next-generation advanced materials
- Filtration in submicron range
- Clarification of solvents
- Others

Materials of Construction



PES membrane | Nylon membrane | Nylon nanofiber (TPR-002)

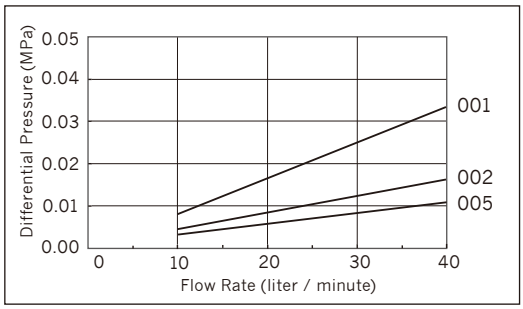




AP1A009CE (7th Issue)

Differential Pressure vs Flow Rate

Fluid: Refined water (20°C)
Cartridge Length : 250mm



※The data do not include piping pressure drop.

Particle Removal Efficiency

PSL Diameter (μm)	Particle Removal Efficiency(%)		
	001	002	005
0.152	>99.9	—	—
0.216		>99.9	—
0.474			>99.9

<Test Conditions>
Equipment : UV absorptiometer
Filtration: Suction filtration
Fluid: Ultrapure water
Dust: Polystyrene latex (PSL)
Conc.: 0.01w%

*The above data are based on our test condition, and are not guaranteed value.

Ordering Information

2 5 0 L – TPR – 0 0 2 S O C

[Nominal Length]
62.5 = 62.5mm
125 = 125mm
250 = 250mm
500 = 500mm
750 = 750mm

[Product Type]

[Micron Rating]
001 = 0.1μm
002 = 0.2μm
005 = 0.45μm

[Gasket / O-Ring]
S = Silicone
E = EPDM
N = NBR
V = FKM
T = FEP Encapsulated FKM (for 0, 5, 7) PTFE (for F)

[End Cap Code]
F = Double Open Ends
0 = 2-222 O-Ring
5 = 2-222 O-Ring + Fin
7 = 2-226 O-Ring + Fin

[Packaging Code]
A = 1 pc.
B = 6 pcs.
C = 10 pcs.
F = 25 pcs.

Specification

Product Type		TPR		
Grade		001	002	005
Micron Rating (μm)		0.1	0.2	0.45
E.F.A. (m^2 / 250mm)		0.5	0.4	
Dimensions	Length (mm)	62.5 / 125 / 250 / 500 / 750		
	O.D. (mm)	70.0		
	I.D. (mm)	26.1 (for F) / 25.6 (for 0, 5) / 29.5 (for 7)		
Materials Media	Media	Nylon		
	Core	Polypropylene		
	Support	Polypropylene		
	Cage	Polypropylene		
	End Cap	Polypropylene		
	Gasket / O-Ring	NBR / EPDM / Silicone / FKM / FEP Encapsulated FKM (for 0, 5, 7) / PTFE (for F)		
Maximum ΔP (MPa) at 20°C		0.49		
Maximum Operating Temp. (°C)		80		

※For further information on specifications (length, end cap type, etc.), please contact us.
※TPR can not be used for acid and high temperature steam, please contact us in detail.

The products are manufactured under control by the quality management system registered as conforming to the ISO9001 standard.

ISO9001
JSAQ1436

CM001

Scope: Manufacture of Filter cartridges

End Cap Code

Code F

Code 0

Code 5

Code 7

*The contents of the catalog is subject to change without notice.

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