

PBT Series

Polyester Pleated High Flow Filters

Description

PBT Series Polyester Pleated High Flow Filters are made of polybutylene terephthalate non-woven media with all PBT support/drainage material, which offer high temperature and excellent chemical resistance ability. With 6inch(152mm) larger diameter, inside to outside flow direction design, PBT high flow filters expand effective filtration area significantly, reducing the quantity of filter cartridge and the size of housing required.

The unique filtration media of PBT offers broad chemical compatibility and results in an excellent filtration efficiency, which largely reduces the burden of downstream process for particle removal applications, such as cooling water filtration, RO pre-filtration, seawater desalination, amine circulation filtration and kinds of chemical solution filtration.



Features

- Handle design of PBT pleated cartridges lead to much faster, easier filter change out
- High flow rate per PBT high flow filter cartridge, up to 50% smaller filter system possible
- Larger filtration surface leads to higher flow rate, maximum dirt holding capacity, extending service life
- Absolute-rate filter media for reproducible performance, available in a variety of filter lengths and grades
- Inside-to-outside flow pattern that traps contaminant inside PBT pleated filters, prevents housing pollution

Specification

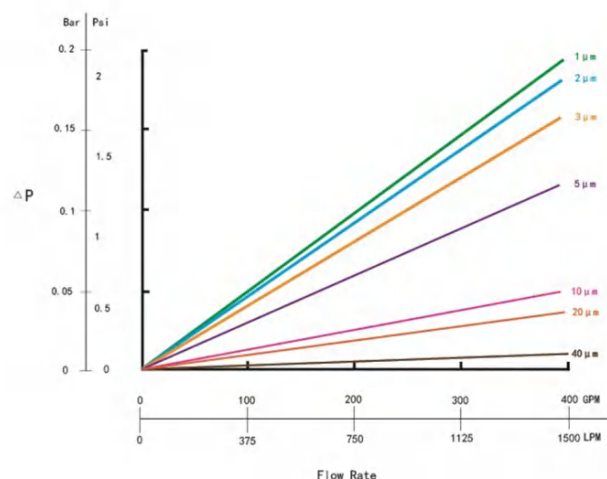
Filter Media	PBT (Polybutylene Terephthalate)
Length	20"(508mm), 40"(1016mm), 60"(1524mm)
Outside Diameter	6 inch (152mm)
Inside Diameter	73.5mm
Filtration Rating	1µm, 2µm, 3µm, 5µm, 10µm, 20µm, 40µm, 70µm, 100µm
Support/Drainage	PBT
End Cap Material	High Strength PBT
Outside	High Strength PBT Cage
Seal Material	EPDM, Buna-N, Viton

Application

- Coating
- Process water
- Organic solvents
- Fine chemical industry
- Cooling water filtration
- Magnetic media dispersions
- Corrosive fluids and oxide water

Operation Data

Max. Operating Temperature	120°C
Suggested Max. Flow Of Water	20inch length: 660 LPM
	40inch length: 1,300 LPM
	60inch length: 1,900 LPM
Liquid Flow Direction	Inside to outside
Typical Surface Area	7m ² per 40" filter cartridge
	10.5m ² per 60" filter cartridge
Maximum Pressure	4 bar
Recommend Change out Differential Pressure	2.5 Bar at 20 °C



Flow Rate vs Pressure Drop for Per 40'' Filter

Order Information

PBT	Material	Length	Filtration Rating	O-ring Material	Inside (selective)
PBT Series Polyester Pleated High Flow Filter Cartridges	T = PBT Polyester	20 = 20"(508mm)	1 = 1µm	E = EPDM	C = Central PBT core
			2 = 2µm		
			3 = 3µm		
		40 = 40"(1016mm)	5 = 5µm	B = Buna-N	
			10 = 10µm		
			20 = 20µm		
		60 = 60"(1524mm)	40 = 40µm	V = Viton	
			50 = 50µm		
			70 = 70µm		
			100 = 100µm		

For Example:

PBT-T-40-5-V-C

PBT Series Polyester Pleated High Flow Filters - Material: PBT - Length = 40" - Filtration Rating = 5µm - O-ring Material = Viton - C = Central PBT core

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