

Trapfil™

Polypropylene Guard Filters for Clear, Bright **Beverages**



The Trapfil™ filter has been specifically developed for the retention of diatomite and polyvinylpolypyrrolidone (PVPP) particles. It is manufactured from materials which are 100% FDA (Food and Drug Administration) approved and fully welded for strength and integrity.

The all-polypropylene construction enables the Trapfil™ filter to be resistant to hot caustic solution and standard CIP practices. It is also compatible with steam and hot water sanitising procedures.

Designed to be backflushed in situ to remove diatomite and PVPP particles, it has been industry proven to withstand up to 100 backflush cycles with hot caustic solution at 70-80°C (158-176°F). This backflushing process regenerates the Trapfil[™] filter providing improved economics.

The Trapfil[™] filter is available in a variety of lengths and industry standard adaptors. Trapfil™ cartridges are available in 5, 10 and 15 micron ratings, validated at Beta 5000. Each Trapfil™ filter carries a unique serial number to enable full traceability of material components.

Typical Applications

- Stabilisation
- Clarification

Orderi	ng Informati	on								
Product	Code:	2 3 4	5	6	7					
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		1								
1: Pre-Filter	2: Pore rating	3: Version		Length ominal)	5: E	nd Fitting	6:	Seals	7: /	Additional
R Trapfil™	05 5µm	S Standard			А	Code 3	А	Ethylene	Р	Supplied
	10 10µm	Hard Cage	1	10'' (254mm)	В	Code 7		Propylene		with Certificate
15	15 15µm		2		С	Code 8	В	Silicone		of Quality
				(508mm)	F	N SOE	С	Viton®	U	Unbranded
			3	30"	G	G DOE (short)	D	Nitrile		
				(762mm) 40'' (1016mm)	н	G SOE	E	FEP Encap. Viton®		
			4		J	216 (218), fin	G	FEP Encap.		
					К	Code 2		Silicone		
					L	223, fin (no lugs)	J	DOE PTFE		
					м	DOE				
					S	Code 28, fin (3 lugs)				
					Т	223, flat (no lugs)				
					U	224, fin				
					V	226, fin				
					Y	BS832, flat				

Ordering Information

Features and Benefits

- Backflushing
- Chemical regeneration
- Suitable for steam and hot water sanitisation
- Guaranteed removal ratings
- Full traceability
- Controlled manufacturing environment

Specifications

Materials of Manufacture

Filter media:	Polypropylene
Support layers:	Polypropylene
Inner core:	Polypropylene
Outer support:	Polypropylene
End fittings:	Polypropylene
Support ring:	Stainless steel

Cartridge Dimensions (Nominal)

Effective Filtration Area:

	0.53m ² (5.7ft ²) per 10" module.
Diamotor	70mm (2.9")

Diameter.	/011111 (2.0)	
Length:	1 module:	254mm (10"),
		508mm (20'')
	2 modules:	762mm (30''),
		1016mm (40'')

Cartridge Treatment

Standard: Cleaned and flushed with pyrogen-free water

Gaskets and O-Rings

FDA approved Ethylene Propylene, FEP encapsulated, Silicone, Viton® or Nitrile

Maximum Differential Pressure

Normal flow direction at:	
20°C (68°F):	6.0bar (87psi)
80°C (176°F):	4.0bar (58psi)
100°C (212°F):	3.0bar (44psi)
Reverse flow direction at:	
20°C (68°F):	2.1bar (30psi)
80°C (176°F):	1.0bar (15psi)
100°C (212°F):	0.5bar (7psi)

Operating Temperature

Maximum continuous:

Sterilisation

In situ steam 100 x 30 minute cycles at 125°C (257°F) Hot water 250 x 20 minute cycles at 85-90°C (185-194°F)

Extractables

Minimum total extractables. Please refer to the Trapfil™ Validation Guide.

Integrity Testing

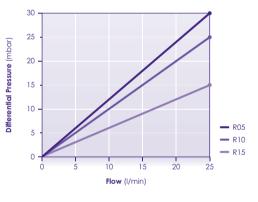
Trapfil[™] filter cartridges are batch tested for integrity using the Bubble Point Test. Please contact us for procedural details.

Clean Water Flow Rates

 Typical clean water flow rate: A 254mm (10") Trapfil[™] single cartridge exhibits the flow-**Δ**P characteristics indicated below, for solutions with a viscosity of 1 centipoise.

• Other solutions:

For solutions with a viscosity of greater than 1 centipoise, multiply the indicated differential pressure by the viscosity in centipoise.



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