

Filter cartridge – TP Series

The TP Series pleated filter cartridges are absolute rated, and consist of 4 layers of decreasing porosity. This results in a high filtration area, high dirt holding capacity and precise and controlled filter ratings.

The polypropylene hardware components are assembled by utilising a thermo-welding process. With a choice of either polypropylene or glass fibre media, the TP Series is suited to a broad range of applications (chemical - petrochemical - water treatment - food and beverage - RO - etc.) and is suitable for use with both liquids and gases. A 'PH' grade suitable for pharmaceutical applications is also available, where the cartridge is pre-rinsed with non-pyrogenic water.

FEATURES & BENEFITS

- High surface area
- High mechanical strength with high dirt holding capacity
- Steam and chemical Sanitisable
- EC-listed materials for Food contact
- FDA-listed materials per CFR 21
- Absolute rated
- Cryptosporidium removal



MATERIALS OF CONSTRUCTION

Filter media	Polypropylene or Glass Fibre
Upstream supports	Polypropylene
Downstream supports	Polypropylene
Internal Core	Polypropylene
External Cage	Polypropylene/Glass Filled/Stainless Steel
End caps / Adapters	Polypropylene/Glass Filled – S. Steel insert option available

SPECIFICATIONS

Sterilisable with autoclave at 130°C
 Max operating temperature 80°C (continuous 65°C)
 Max pressure loss: 4.5 bar at 21°C – 2.4bar at 80°C
 Cartridge length 10" - 20" - 30" - 40"
 O.D. 69 mm
 O-ring/gaskets: EPDM, Silicone, Viton, Buna, PTFE encapsulated viton or silicone
 Choice of end caps



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FOOD SAFETY

Polypropylene TP Series filter elements meet (EU) regulation 10/2011 and its amendments, EC 1935/2004 and 1895/2005, and are compliant with the requirements of the FDA title 21 of the "Code of Federal Regulations" 177

Polypropylene filter media and components pass USP Biological Reactivity and Chemical-Physical tests for Class VI plastics.

Specific for PH grade: the filter meets USP Water for injection requirements for particle release and the effluent is Non-pyrogenic per USP- Bacterial Endotoxins (< 0.25 EU/ml).

RECOMMENDED OPERATING CONDITIONS

Maximum continuous temperature is 65°C – 93°C with Glass Filled Hardware

Regeneration is 2% NaOH solution at room temperature

Sterilisation with steam - continuously with cycles of 20 minutes at 121°C

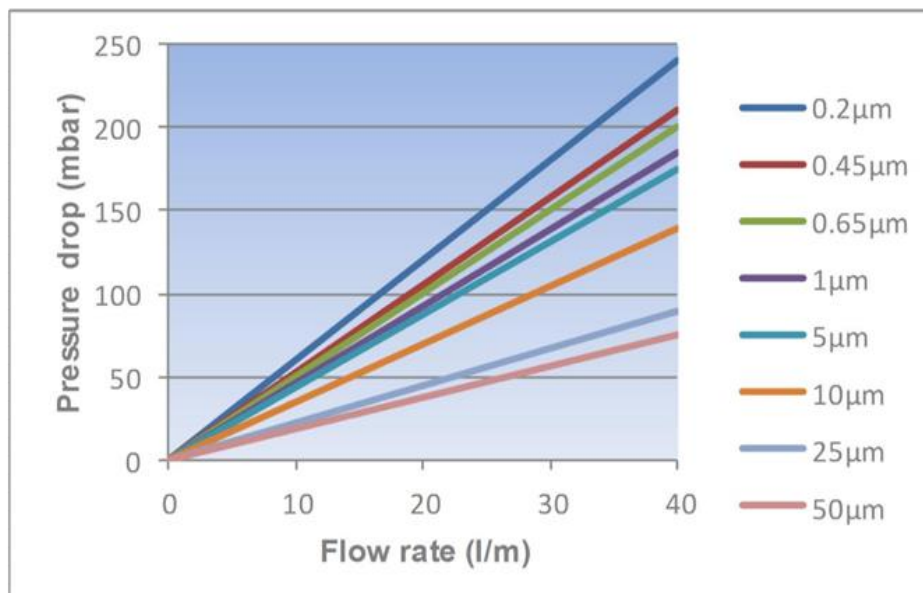
Sanitisation with hot water at 80°C maximum

Sanitisation with chemicals - it can be sanitised by standard chemical agents

Maximum differential pressure is 5 bar at 25°C

Recommended change out differential pressure is 2.0 bar at 25°C

Water Flow Rate for 10" Cartridge TP Series





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ORDERING INFORMATION

Name	Filter Media	Micron Rating	Length (inches)	End Caps	O-Rings	Options
TP Series	PP GF	CRY	2.5	C3	E - EDPM	GF – Glass filled hardware St-S. Steel insert
		0.2µm	5	C4	S-Silicone	
		0.45µm	10	C7	V-Viton	
		0.65µm	20	C8	N-Buna	
		1.0µm	30	J*		
		2.5µm	40			
		3.0µm				
		5.0µm				
		10µm				
		20µm				
		25µm				
		30µm				
		40µm				
		50µm				
		100µm				

C3-SOE with external 222 O-rings, C4-DOE with flat gaskets, C7-SOE with fin end, bayonet and external 226 O-rings, C8-SOE with fin end and external 222 O-rings

*Junior style with 213 internal O ring & reduced diameter