

Masterfilter NYPC series

The Masterfilter *SteriNyl* NYPC series filter cartridge is made of a dual layer hydrophilic Nylon 66 membrane. They are specifically designed for sterilizing filtration of Pharmaceutical and Biological products and for bioburden reduction.

Nylon 66 membrane with Positive Zeta-charge provides enhanced retention of very fine particles such as endotoxins in water-based solutions.

Applications

- Injectable solutions
- Biologic origin products
- Antibiotics
- LVP / SVP
- Pharma grade water (PW & UPW)

Features and Benefits

- Intrinsically water wettable
- N66+ enhanced filtration efficiency
- N66+ removal of endotoxins thanks to the formation of positive charged Zeta sites
- Low pressure drop and high flow rate
- Longer service life
- Integrity test values ensure a fully reliable filtration efficiency
- Double layer

Materials of Construction

- Pre-Filter media: Sterilizing-Grade hydrophilic Nylon
- Final Filter media: Sterilizing-Grade hydrophilic Nylon
- Core / cage: Polypropylene
- End caps: Polypropylene
- End cap insert: PBT
- O-rings: Silicone, EPDM, Viton, FEP/PFA encapsulated

Operating Parameters

- Maximum operating pressure: 6.9 bar at 25 °C, 4.0 bar at 60 °C, 2.4 bar at 80°C
- Maximum differential pressure forward: 6.9 bar at 25 °C, 4.0 bar at 60 °C, 2.4 bar at 80°C
- Maximum differential pressure reverse: 3.0 bar at 25 °C, 1.0 bar at 80°C
- Steam sterilisation: up to 10 cycles for 30 min at 121 °C (< 0.3 bar, 5 psi)
- Effective Filtration Area 10" Module: 0.58 m²



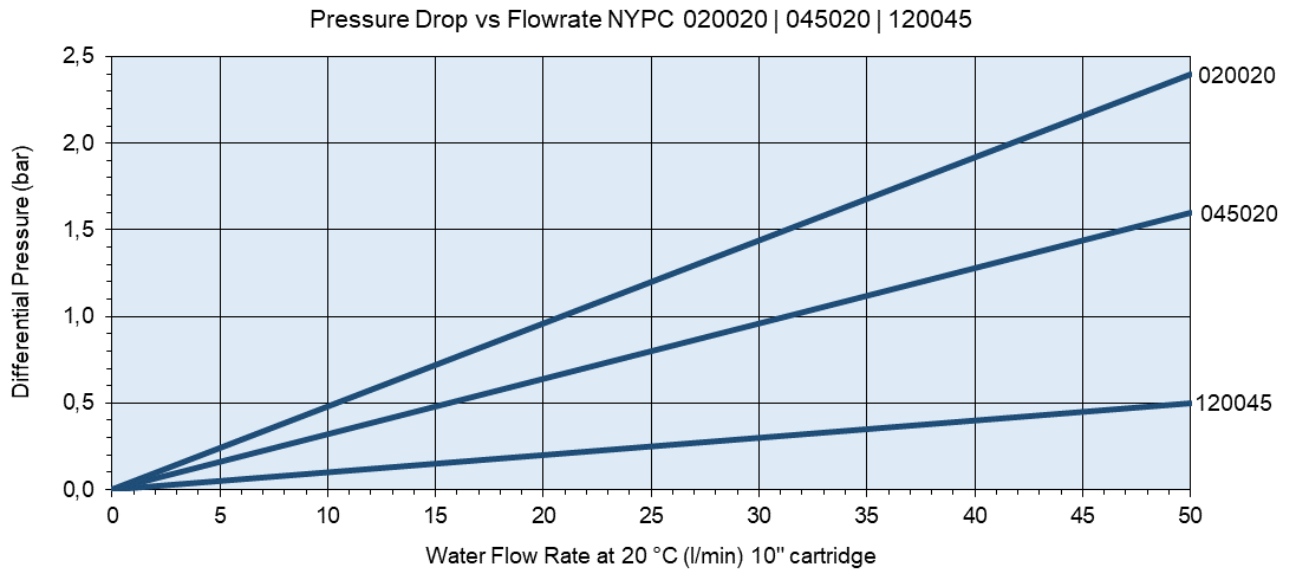
Quality Assurance

- These products are manufactured in a facility which adheres to ISO 9001:2021 Practices
- Each individual element is tracked by series number for traceability and easy identification
- Each individual filter is integrity tested before final packaging
- Comply with the relevant requirements of EU 1935/2004 and EU directive 2002/72/EC
- Comply with USP Plastics Class VI - 121 °C and ISO10993 equivalents

Biological Standards

- Bacterial Endotoxin: Aqueous extraction of autoclaved filter contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>
- Non-fiber Releasing: Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6)
- Component Material Toxicity: Meet the criteria of the USP <88> Biological Reactivity Test for Class VI-121 °C plastics
- Bacterial Retention 0.2 µm: Retention > 10⁷ cfu/cm² *Brevundimonas diminuta* (ATCC 19146) according with ASTM FB38
- Extractables (NVR): < 22 mg/10" module

Flow Rate Characteristics



Part Numbers

NYPC 045020 - 10 - HSF - S

Code	Removal rating [µm]	Code		Length		Code	End caps	Code	O-rings
				[mm]	[inch]				
020020	0.2 + 0.2	2.5		70	3	STC	Sartorius code 28	S	Silicone
045020	0.45 + 0.2	05		133	5	HTC	222 O-ring/flat (Code 3)	E	EPDM
120045	1.2 + 0.45	10		254	10	HSF	226 O-ring/fin (Code 7)	V	Viton
		20		508	20	HTF	222 O-ring/fin (Code 8)	P	FEP/PFA encapsulated
		30		762	30	HSC	226 O-ring/flat (Code 2)		
		40		1016	40	STT	116 O-ring		
						HST	MCY 4463 (Code 18)		
						SLV	MCY 111/222/444		
						STZ	Dh Z		
						CP2	R-2"		
						HSH	H code		
						HSU	MCY 1001		
						SLK	Sealkleen		
						HSM	Optiseal		

Note: Not all combinations are possible
e.g. NYPC045020-10-HSM-S (retrofit for Optiseal)