

# NYPC Series

## Positively Charged Nylon Cartridge



### Masterfilter NYPC series

Masterfilter 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
- 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

- **Membrane:** Double layer N66
- **Support Layers:** Polypropylene
- **Inner core:** Polypropylene
- **Outer cage:** Polypropylene
- **End caps:** Polypropylene
- **O-rings:** Silicone/EPDM

### Operating parameters

- **Maximum differential pressure:** 6,9 bar @ 25°C | 4,0 bar @ 60°C | 2,4 bar @ 80°C
- **Hot Water sanitisation:** 80°C
- **Steam sterilisation:** up to 10 cycles for 20' @121°C
- **Autoclave:** up to 10 cycles for 30' @121°C
- Filtration Area 10" Module: 0,58m<sup>2</sup>

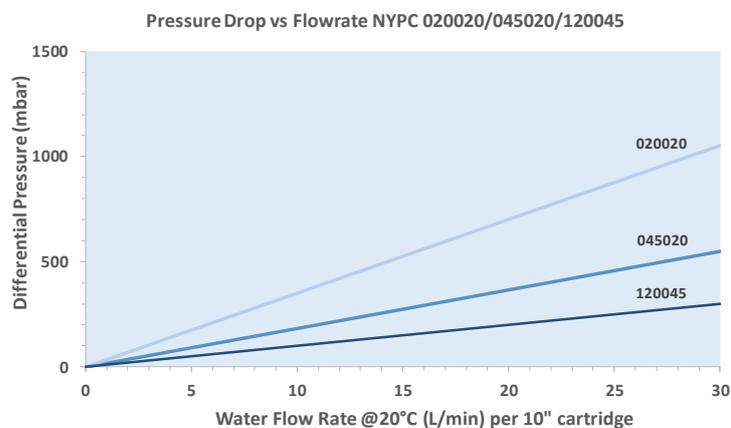
### Quality assurance

- These products are manufactured in a facility which adheres to ISO 9001:2015 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 removal 0,2µm: Retention > 107 CFU/cm2 Brevundimonas diminuta (ATCC 19146) according with ASTM f838
- Extractables: < 30mg/10” module

### Flow Rate Characteristics



### Part Numbers

NYPC **045020** - **10** - **HSF** - **5**

Code	Removal rating µm
020020	0,2 + 0,2
045020	0,45 + 0,2
120045	1,2 + 0,45

Code	Length	
	mm	inch
2,5	70	3
5	133	5
10	254	10
20	508	20
30	762	30
40	1016	40

Code	End caps
STC	Satorius code 28
HTC	222 O-ring/flat (Code 3)
HSF	226 O-ring/fin (Code 7)
HTF	222 O-ring/fin (Code 8)
HSC	226 O-ring/flat (Code 2)
STT	116 O-ring
HST	P-MCY4463 Sart-15
SLV	P-MCY 111/222/444
STZ	dh Z
CP2	R-2"
HSB	H code
HSU	MCY 1001
SLK	Sealkleen
HSM	Optiseal

Code	O-rings
S	Silicone
E	EPDM
V	Viton
P	PTFE Encap. Viton

Note: Not all combinations are possible  
 e.g. NYPC020020-04-HSM-S (retrofit for Optiseal)  
 PVDN045020-05-SLK-S (retrofit for Sealkleen)