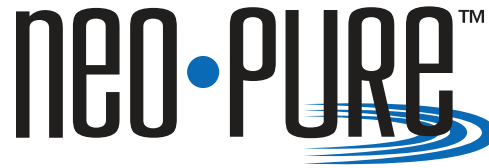


## HP-PP Series

### Polypropylene – Absolute



## Commercial/Industrial Filtration Applications

### Standard Features

- Manufactured in the USA
- Absolute-rated beta 5000 (99.98%) retention efficiency
- 7 sq. ft. (0.65 m<sup>2</sup>) of media surface area per 10" length for high throughput and particle retention, and optimal performance and value
- 100% polypropylene construction offers a wide range of chemical compatibility
- Gradient, fixed pore structure increases dirt-holding capacity and resists unloading under high differential pressure
- Manufactured in a state-of-the-art white room for high purity
- Rigid, molded cage provides greater structural stability
- Available in continuous lengths up to 40 inches

### Product Specifications

#### Micron Sizes

0.2, 0.45, 1, 3, 5, 10, 20, 30, 40, and 50

#### Cartridge Lengths

9-3/4" (24.7 cm), 19-3/4" (50.17 cm), 20" (50.8 cm), 29-1/4" (74.3 cm), 30" (76.2 cm), and 40" (101.6 cm)

#### Inside and Outside Diameters

1" (2.54 cm) ID, 2.67" (6.78 cm) OD

#### Media Surface Area

7 sq. ft. (0.65 m<sup>2</sup>) per 10" filter length

#### Maximum Operating Temperature

176 °F (80 °C) temperature limit

#### Recommended Change-Out Differential Pressure

35 psid (2.4 bar)

#### Maximum Differential (Collapse) Pressure

75 psid@70 °F (5.2 bar@21 °C), 40 psid@176 °F (2.8 bar @80 °C)

#### Sanitization and Sterilization

Hot water at 175 °F (80 °C) at 5 psid for 30 minutes

Inline steam at 257 °F (125 °C) @ 1 psid (0.7 bar) for 30 minutes

Autoclavable at 257 °F (125 °C) for 30 minutes

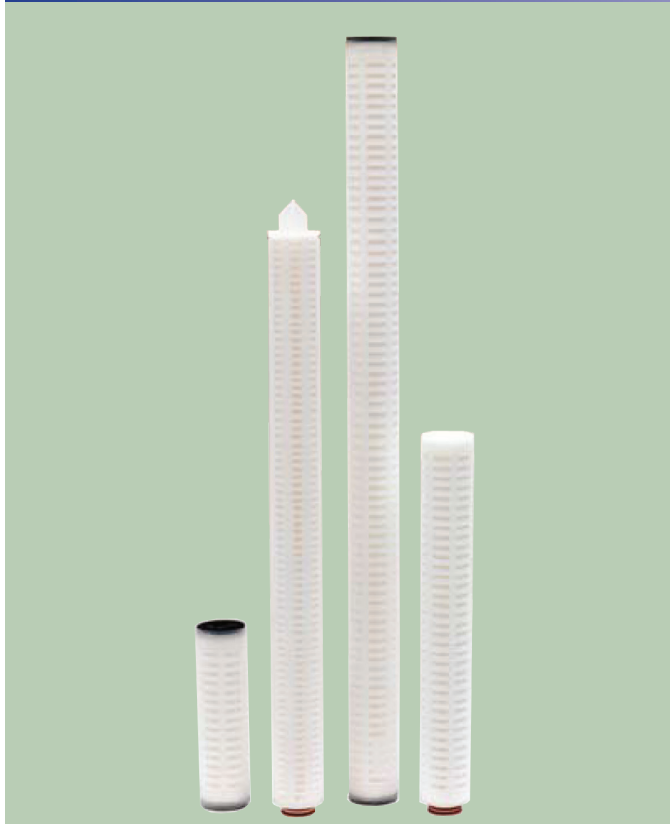
#### Materials of Construction

Filter media: polypropylene

Outer cage, inner core and end caps: polypropylene

#### FDA and USP Compliance

All filters manufactured of virgin polypropylene materials. All materials comply with FDA requirements for food contact per CFR Title 21.174.5, 177.1520 and 177.1630. All components meet USP Class VI Plastics biological reactivity tests.



### Applications

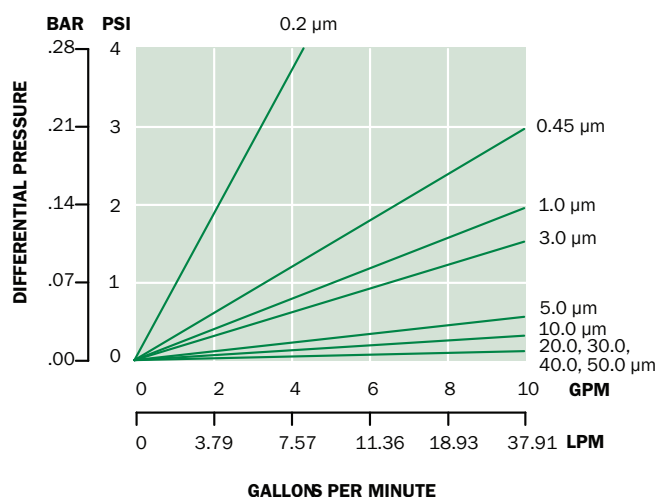
- Bottled Water
- Chemicals
- Cosmetics
- Food and Beverage
- Microelectronics
- Paints and Inks
- Plating Solutions
- Process Water
- RO Prefiltration
- Water and Wastewater



# Ordering Guide (Example: HP-PP-26100-0.2213-T)

HP	-	PP	-	26	100	-	0.2	213	-	T
TYPE		MEDIA		CARTRIDGE DIAMETER	CARTRIDGE LENGTH		MICRON RATING	END CAP		O-RING / GASKETS
HP = High Purity Pleated		PP = Polypropylene - Absolute		26 = 2.67" (6.78 cm)	097 = 9-3/4" 197 = 19 3/4" 200 = 20" 292 = 29 1/4" 300 = 30" 400 = 40"		0.2 = 0.2 0.45 = 0.45 1 = 1 3 = 3 5 = 5 10 = 10 20 = 20 30 = 30 40 = 40 50 = 50	Blank = DOE (standard) 213 = 213 internal o-ring 222f = 222/Flat 222n = 222/Fin 222s = 222/Spring 226f = 226/Flat 226n = 226/Fin SOEf = SOE/Flat SOEn = SOE/Fin SOEs = SOE/Spring Z = Custom		E = EPDM B = Buna N S = Silicone V = Viton T = Teflon

## Flow vs. Pressure Drop



This chart represents typical water flow per 10" cartridge length. The test fluid is water at ambient temperature. Extrapolation for multiple elements tends to be linear, but as flows increase, the  $\Delta P$  of the housing becomes more apparent.

## Filter Removal Efficiency

MICRON	BETA 5000 99.98%	BETA 100 99%	BETA 50 98%
0.2 micron	0.20	0.10	0.05
0.45 micron	0.45	0.30	0.20
1 micron	1.0	0.65	0.35
3 micron	3.0	2.5	2.0
5 micron	5.0	4.0	3.0
10 micron	10.0	8.0	7.0
20 micron	20.0	17.0	15.0
30 micron	30.0	26.0	21.0
40 micron	40.0	34.0	28.0
50 micron	50.0	42.0	36.0

## Case Packs

Each high purity cartridge is individually poly bagged and individually boxed, then master packed into cartons of 12 units in all lengths.

## Available End Cap Configurations



**Filter Housings  
Selection Guide**  
CLICK HERE

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