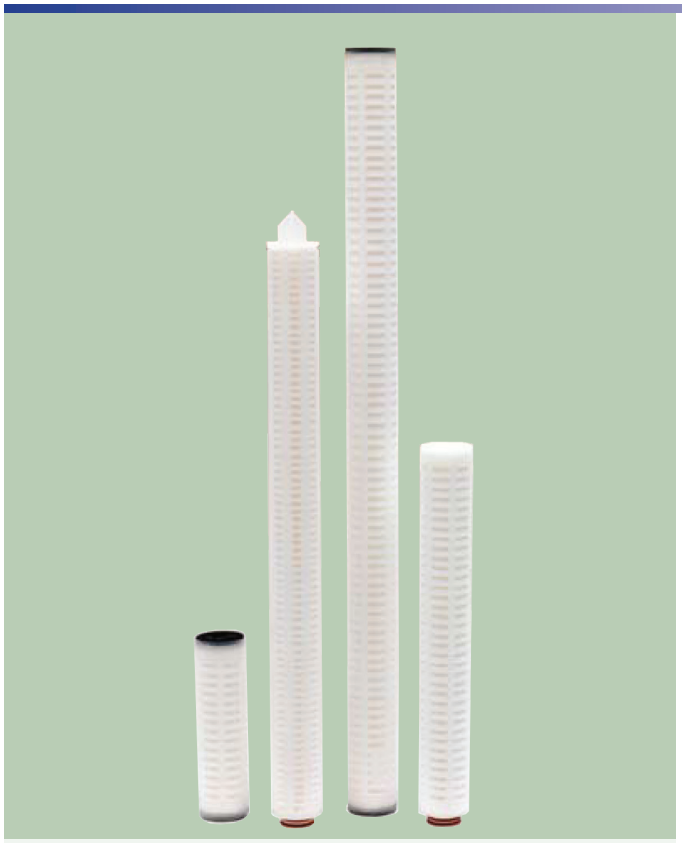
# HP-PP Series
## Polypropylene – Absolute

neo•PURE™



## Applications

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

USA MADE

Commercial/Industrial
Filtration Applications

## Standard Features

- Manufactured in the USA
- Absolute-rated beta 5000 (99.98%) retention efficiency
- 7 sq. ft. (0.65 $m^2$) 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 $m^2$) 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

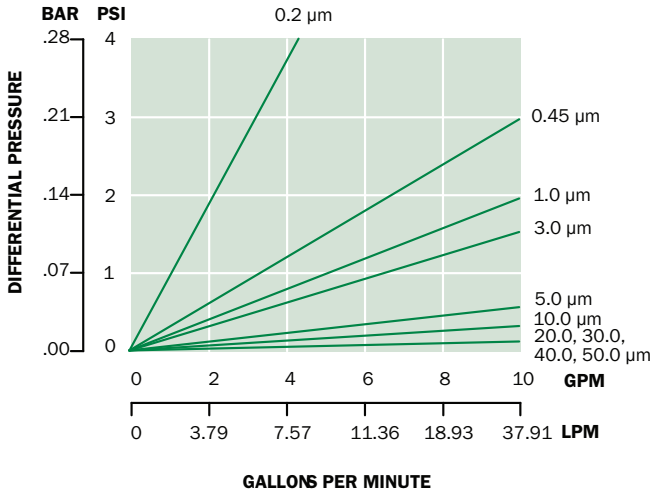
**Materials of Construction**
Filter media: polypropylene
Outer cage, inner core and end caps: polypropylene

**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.

# 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"<br>197 = 19 3/4"<br>200 = 20"<br>292 = 29 1/4"<br>300 = 30"<br>400 = 40" | 0.2 = 0.2<br>0.45 = 0.45<br>1 = 1<br>3 = 3<br>5 = 5<br>10 = 10<br>20 = 20<br>30 = 30<br>40 = 40<br>50 = 50 | Blank = DOE (standard)<br>213 = 213 internal o-ring<br>222f = 222/Flat<br>222n = 222/Fin<br>222s = 222/Spring<br>226f = 226/Flat<br>226n = 226/Fin<br>SOEf = SOE/Flat<br>SOEn = SOE/Fin<br>SOEs = SOE/Spring<br>Z = Custom | E = EPDM<br>B = Buna N<br>S = Silicone<br>V = Viton<br>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 △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.

Filter Housings Selection Guide
CLICK HERE

# Available End Cap Configurations





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