

## Premium Hurricane® All-Poly Cartridges

Industrial Grade

### Designed for Hurricane® and WaterBetter® Filter Housings

These high flow polypropylene cartridges are designed for most applications where absolute rated pleated filtration is needed. Designed to hold up to 75 sq.ft. of filtration media, our All-Poly high flow cartridge is a great value. These cartridges are constructed with 100% polypropylene materials. Efficiency ratings to 99.98% (Beta 5000).

- High flow capability
- Lower overall operating cost
- Reduces waste disposal
- Longer filter runs for fewer change outs
- Increased contaminate removal

### Features

- ▶ Fewer cartridges for fewer change outs and lower maintenance cost
- ▶ Pleated polypropylene filter media provides higher flow rates and lower initial pressure drop
- ▶ Pleated surface area provides higher loading capacity for longer filter life and increased particle removal
- ▶ Double o-ring end cap, center tube and media are thermally bonded as one integral component for added strength
- ▶ Offered in three sizes (40, 90, 170) and seven micron ratings (0.2, 0.45, 1, 5, 10, 20, 50) to meet high flow requirements



Premium Hurricane®  
All-Poly Cartridges

### Applications

- ▶ Acids and bases
- ▶ Glycol
- ▶ Pre-filtration for DI resins
- ▶ Pre-filtration UF membranes
- ▶ Photochemical plating solutions
- ▶ Organic solvents
- ▶ Machine coolants
- ▶ Food & Beverage
- ▶ Bottled water
- ▶ Aqueous solutions
- ▶ Magnetic tape coatings
- ▶ Pre-filtration for RO
- ▶ Cosmetics
- ▶ Inks



# Premium Hurricane® All-Poly Cartridges

## Specifications

- ▶ **Filter media:** Polypropylene
- ▶ **Support Media:** Polypropylene
- ▶ **Outer Support Media:** Polypropylene
- ▶ **Temperature:** 180°F (82°C)
- ▶ **Sanitization/Sterilization:**
  - Filtered hot water - 194°F (90°C)
  - Chemical Sanitization - industry standard concentrations of hydrogen peroxide, peracetic acid, sodium hypochlorite and other selected chemicals
- ▶ **End Caps:** Polypropylene
- ▶ **Center Core:** Polypropylene
- ▶ **O-Rings:** Silicone (standard), Buna, Viton
- ▶ **Change Out:** 35 PSI ΔP (2.4 bar)

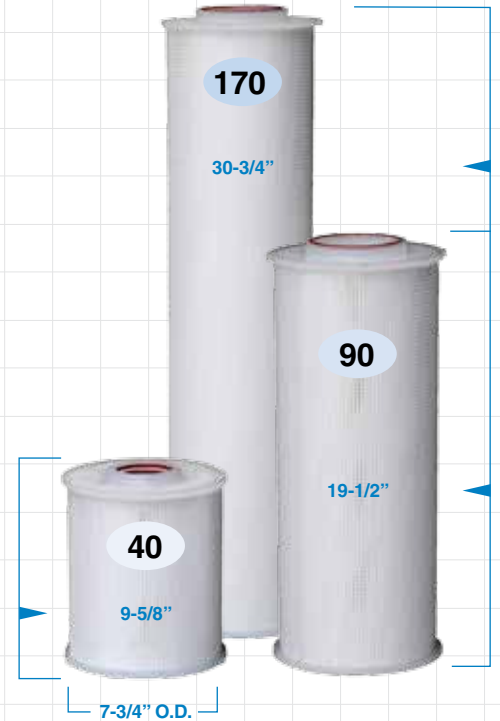
### FDA Listed Materials:

Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

## Cartridge Selection/Sizing Guide

### 7-3/4" O.D. - 100% polypropylene materials

Cartridge Length	Product Code	Absolute Micron Rating	Media (sq ft)	Recommended Flow Rate* (GPM)	Maximum Flow Rate* (GPM)	No./Carton	
9-5/8"	<b>All-Poly</b> - for high flow applications requiring absolute rated filtration.						
	HC-PP-40-0.2	0.2	25	17	19	1	
	HC-PP-40-0.45	0.45	25	17	19	1	
	HC-PP-40-1	1	25	17	19	1	
	HC-PP-40-5	5	25	17	19	1	
	HC-PP-40-10	10	25	17	19	1	
	HC-PP-40-20	20	25	17	19	1	
	HC-PP-40-50	50	25	17	19	1	
	19-1/2"	HC-PP-90-0.2	0.2	50	35	38	1
		HC-PP-90-0.45	0.45	50	35	38	1
HC-PP-90-1		1	50	35	38	1	
HC-PP-90-5		5	50	35	38	1	
HC-PP-90-10		10	50	35	38	1	
HC-PP-90-20		20	50	35	38	1	
HC-PP-90-50		50	50	35	38	1	
30-3/4"		HC-PP-170-0.2	0.2	75	40	76	1
		HC-PP-170-0.45	0.45	75	40-65	76	1
		HC-PP-170-1	1	75	65-75	76	1
	HC-PP-170-5	5	75	65-75	76	1	
	HC-PP-170-10	10	75	65-75	76	1	
	HC-PP-170-20	20	75	65-75	76	1	
	HC-PP-170-50	50	75	65-75	76	1	



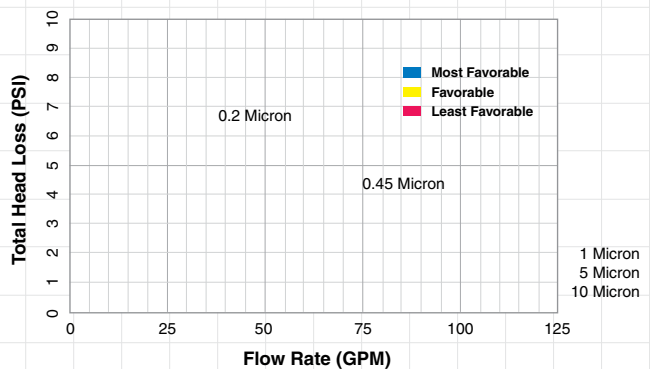
**Hurricane® All-Poly Cartridges**  
Length and O.D.

## Pressure Drop

### Pressure Drop vs. Flow Rate

The total head loss data shown at right indicates pressure drop with Hurricane® 170 filter housing and Hurricane® All-Poly 170 filter cartridges in 5 different micron ratings in clean water.

### Hurricane® All-Poly 170 Cartridges



**Note:** This publication is to be used as a guide. The data within has been obtained from many sources and is considered to be accurate. Harmsco does not assume liability for the accuracy and/or completeness of this data. Changes to the data can be made without notification. Temperature, Pressure, Flow Rates, Differential Pressures, Chemical Combinations and other unknown factors can affect performance in unknown ways. **Limited Warranty:** Harmsco warrants their products to be free of material and workmanship defects. Determination of suitability of Harmsco products for uses and applications contemplated by Buyer shall be the sole responsibility of Buyer. The end user/installer/buyer shall be liable for the product's performance and suitability regarding their specific intended applications. End users should perform their own tests to determine suitability for each application.



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