



# International Filter Products

*Revolutionary systems for your industry*

## CRT-PP Series Polypropylene Filter Cartridge

CRT-PP Membrane cartridges are designed to excel in microelectronics applications, particularly for the handling of bulk chemicals and photoresists, offering an economical alternative to fluoropolymer-based cartridges. Crafted from all-polypropylene construction, CRT-PP cartridges are a cost-effective choice. Each cartridge is meticulously fabricated in a clean room environment, pre-flushed with ultrapure 18 megohm-cm DI water and subjected to rigorous 100% integrity testing in an ISO-certified facility. Key features include exceptional membrane retention capabilities, a wide range of configurations and ratings to suit diverse needs, and the assurance of quality through comprehensive integrity testing. CRT-PP cartridges provide a reliable and cost-efficient solution for microelectronics processes, ensuring high-performance filtration with uncompromised quality and integrity.

### Application

- Buffered Oxide Etch
- Point-of-Use Deionized Rinse
- Electroplating of Copper
- Electronics grade chemicals
- Bulk DI water systems
- Nickel Plating
- Dilute Hydrofluoric Acid
- Ultrapure Water
- Photoresist

**Part Number:** CRT-PP-10-XXX-X6S / CRT-PP-10-XXX-X6S-5



**CRT-PP Series PP Cartridge - Chemical Grade  
226 O-Rings with Fin**



**International Filter Products**  
*Revolutionary systems for your industry*



7914 Ajay Drive, Sun Valley, CA 91352  
[www.internationalfilterproducts.com](http://www.internationalfilterproducts.com)  
[sales@internationalfilterproducts.com](mailto:sales@internationalfilterproducts.com)  
Phone: (818) 504-8115



# International Filter Products

*Revolutionary systems for your industry*

## Technical Data Sheet

### Micron Rating:

- 0.10  $\mu\text{m}$
- 0.20  $\mu\text{m}$
- 0.45  $\mu\text{m}$
- 0.65  $\mu\text{m}$
- 0.80  $\mu\text{m}$
- 1.0  $\mu\text{m}$
- 3.0  $\mu\text{m}$
- 5.0  $\mu\text{m}$
- 10.0  $\mu\text{m}$
- 15.0  $\mu\text{m}$
- 25.0  $\mu\text{m}$
- 50.0  $\mu\text{m}$

### Effective Filtration Area:

- 5-Inch; 3.75  $\text{ft}^2$  (0.35  $\text{m}^2$ )
- 10-Inch; 7.5  $\text{ft}^2$  (0.7  $\text{m}^2$ )
- 20-Inch; 15.0  $\text{ft}^2$  (1.4  $\text{m}^2$ )
- 30-Inch; 22.5  $\text{ft}^2$  (2.1  $\text{m}^2$ )

### Materials of Construction:

Media: Polypropylene (PP) Media Chemical Grade

Membrane Feature: Flushed with ultrapure DI water, High Flow Rate

Media Supports: Polypropylene

Shell, Cage, Core, End Caps: Polypropylene

O-Rings: Silicone (Standard)

Sealing: Thermally Bonded

### Operating Conditions:

Maximum Forward Differential Pressure: **Liquid:** 5.5 bar (80psi) at 77°F/25°C

**Gas:** 4.1 bar (60psi) at 77°F/25°C

Minimum Burst Pressure: 8.3 bar (120psi) at 77°F/25°C

Maximum Reverse Differential Pressure: 3.0 bar (44psi) at 68°F/20°C

Maximum Operating Temperature: 176°F/80°C at 0.7 bar (10psi)

[Contact International Filter Products for high-temperature application above 122°F/50°C operating temperature]



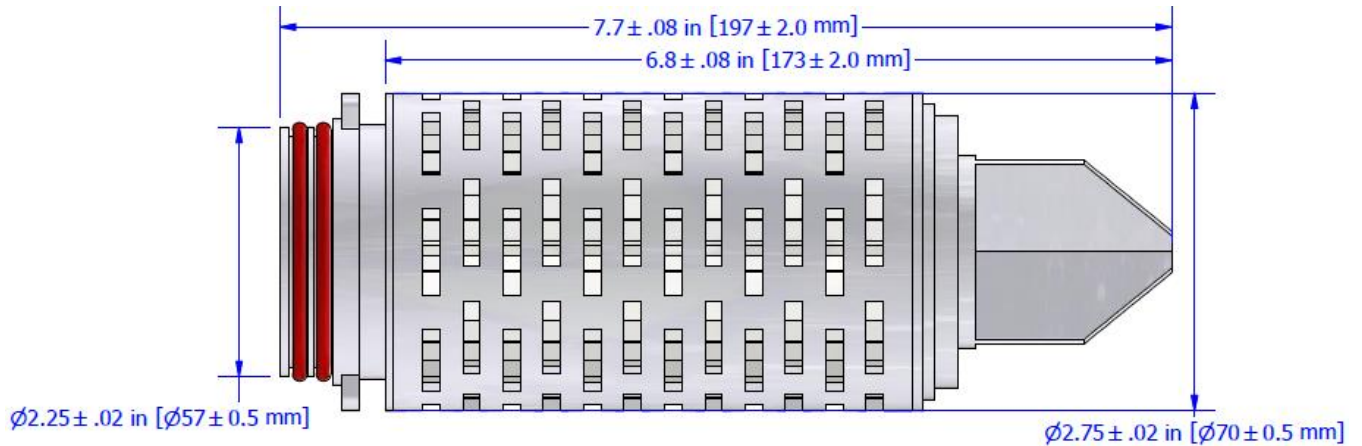


# International Filter Products

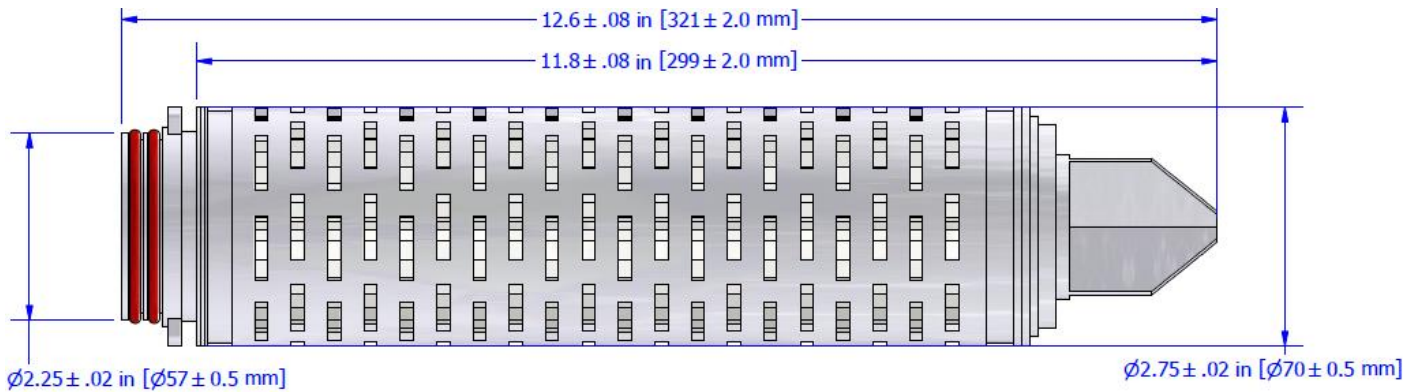
*Revolutionary systems for your industry*

**Nominal Dimension:**

**Part Number:** CRT-PP-05-XXX-X6X / CRT-PP-05-XXX-X6X-5



**Part Number:** CRT-PP-10-XXX-X6X / CRT-PP-10-XXX-X6X-5



**International Filter Products**  
*Revolutionary systems for your industry*



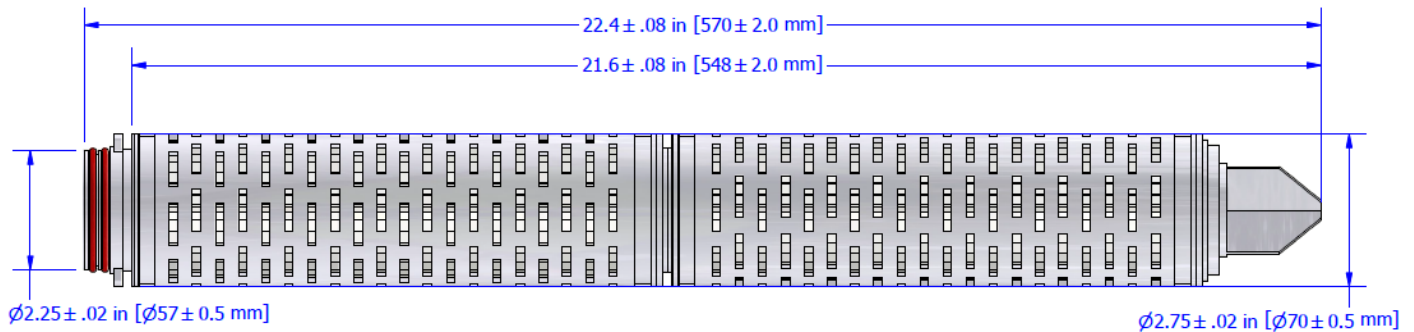
7914 Ajay Drive, Sun Valley, CA 91352  
www.internationalfilterproducts.com  
sales@internationalfilterproducts.com  
Phone: (818) 504-8115



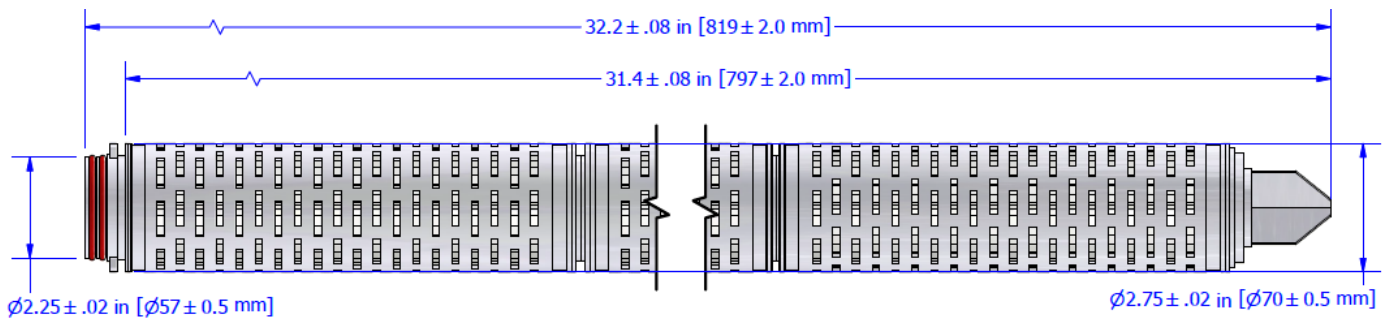
# International Filter Products

*Revolutionary systems for your industry*

**Part Number: CRT-PP-20-XXX-X6X / CRT-PP-20-XXX-X6X-5**



**Part Number: CRT-PP-30-XXX-X6X / CRT-PP-30-XXX-X6X-5**



### Typical Filtered Volume:

- 5-Inch; 50L-200L
- 10-Inch; 100L-400L
- 20-Inch; 200L-800L
- 30-Inch; 300L-1,200L



**International Filter Products**  
*Revolutionary systems for your industry*



7914 Ajay Drive, Sun Valley, CA 91352  
www.internationalfilterproducts.com  
sales@internationalfilterproducts.com  
Phone: (818) 504-8115



# International Filter Products

*Revolutionary systems for your industry*

## Performance Attributes:

Water flow rates		
Micron rating	gpm/psid	Lpm/100mbar
0.10 µm	0.9	4.94
0.20 µm	1.85	10
0.45 µm	2.4	13
0.65 µm	4.4	28
0.80 µm	4.7	26
1.0 µm	8	45
3.0 µm	24	135
5.0 µm	40	225
10.0 µm	80	450
15.0 µm	120	675
25.0 µm	200	1,125
50.0 µm	400	2,250





# International Filter Products

*Revolutionary systems for your industry*

## **Sterilization:**

**Autoclave:** The filters can be sterilized by autoclaving for up to 50 cycles at 125 °C (257 °F) for 30 minutes.

**Steam-In-Place:** The filters can also be sterilized by steam-in-place procedure up to 30 cycles at 135 °C (275 °F) for 30 minutes at less than 0.3 bar differential pressure.

**Sanitization:** The filters can also be sanitized by hot water or common chemicals that are compatible with filter components.

## **Cleanliness (particle shedding):**

Dry-packed: <1 particles/ml >0.2µm after 6gal @ 1gpm

Data as from open bag and installed, no additional installation flushing.

## **Metals Extractables:**

<50ppb (total)

\*In a 10% HNO<sub>3</sub> extraction.

## **Resistivity Rinse-up:**

Resistivity rinse-up to background minus 0.2megohm-cm of feed after 20gal @ 1gpm.

## **Animal-Derived Components & TSE/BSE Risk:**

No animal-derived material is intentionally added or used during the manufacture of this product.

## **Shelf Life:**

The CRT-PP Cartridges have a shelf life of 5 years from the date of manufacture.



**International Filter Products**  
*Revolutionary systems for your industry*



7914 Ajay Drive, Sun Valley, CA 91352  
www.internationalfilterproducts.com  
sales@internationalfilterproducts.com  
Phone: (818) 504-8115



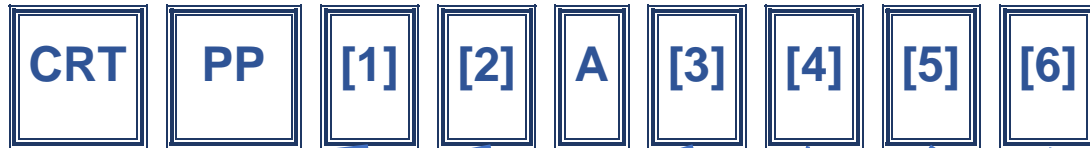
# International Filter Products

Revolutionary systems for your industry

## CRT-PP Series PP Cartridge

(Chemical Grade)

### Ordering Guide



[1]	[2]	[3]	[4]	[5]	[6]
Length	Micron Rating	End Modification	O-Ring / Gasket Material	Optional	Grade
<ul style="list-style-type: none"> <li>• 10 : 10-Inch</li> <li>• 20 : 20-Inch</li> <li>• 30 : 30-Inch</li> <li>• 40 : 40-Inch</li> <li>• 05 : 5-Inch</li> </ul>	<ul style="list-style-type: none"> <li>• 001 : 0.10 µm</li> <li>• 002 : 0.20 µm</li> <li>• 004 : 0.45 µm</li> <li>• 006 : 0.65 µm</li> <li>• 008 : 0.80 µm</li> <li>• 010 : 1.0 µm</li> <li>• 030 : 3.0 µm</li> <li>• 050 : 5.0 µm</li> <li>• 100 : 10.0 µm</li> <li>• 150 : 15.0 µm</li> <li>• 250 : 25.0 µm</li> <li>• 500 : 50.0 µm</li> </ul> <p>Note: All final membranes are sterilizing grade.</p>	<ul style="list-style-type: none"> <li>• 2 : 222 O-Ring Flat</li> <li>• 6 : 226 O-Ring Fin</li> <li>• 7 : 226 O-Ring Flat</li> <li>• 0: DOE Flat Gasket</li> </ul>	<ul style="list-style-type: none"> <li>• S : Silicone</li> <li>• E : EPDM</li> <li>• N : Buna-N</li> <li>• PV : Teflon Encapsulated Viton</li> <li>• PS : Teflon Encapsulated Silicone</li> <li>• V : Viton</li> </ul>	<ul style="list-style-type: none"> <li>• -5 : Stainless Steel Insert</li> </ul>	<ul style="list-style-type: none"> <li>• -C: Chemical Grade</li> </ul>

**Example:**

**CRTPP10002A6S-C**

IFP CRT PP Cartridge, 0.2µm PP hydrophilic membrane (Sterilizing Grade), 10.0-inch Long, Filtration Area 0.7 m<sup>2</sup>, 226 O-Rings with Fin, Silicone Double O-Rings.

Part Number

Description



**International Filter Products**  
Revolutionary systems for your industry



7914 Ajay Drive, Sun Valley, CA 91352  
[www.internationalfilterproducts.com](http://www.internationalfilterproducts.com)  
[sales@internationalfilterproducts.com](mailto:sales@internationalfilterproducts.com)  
 Phone: (818) 504-8115



# International Filter Products

*Revolutionary systems for your industry*

## Special Configuration:

### Layer Option:

- Single Layer
- Dual Layer

### Micron Rating Option:

- 0.04 Micron
- 0.1 Micron
- 0.2 Micron
- 0.45 Micron
- 0.65 Micron
- 0.8 Micron
- 1.2 Micron

### End Modification Option:

- 2 : 222 O-Ring Flat
- 6 : 226 O-Ring Fin
- 7 : 226 O-Ring Flat
- 0: DOE Flat Gasket

### O-Ring/Gasket Material Option:

- S : Silicone
- E : EPDM
- N : Buna-N
- PV : Teflon Encapsulated Viton
- PS : Teflon Encapsulated Silicone
- V : Viton

