

# Clariflow® Water Service Grade

Hydrophilic polyethersulfone (PES) membrane for cost-effective purification

Clariflow® Water Service Grade cartridges are cost-effective alternatives to Clariflow E and G Grade cartridges for the filtration of a variety of aqueous liquids.

The Water Service cartridge is built around a unique polyethersulfone (PES) membrane that is inherently hydrophilic, and contains no added surfactants or wetting agents. It delivers clean filtrates, flow rates, extended service life and excellent resistance to hydrolysis.

Water Service cartridges are fabricated under cleanroom conditions.



## Contact Information

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## Benefits

- Absolute rated membrane
- Reliable and cost-effective
- Broad chemical compatibility allows use in aqueous applications
- Resistance to hydrolysis allows extended use in UPW systems
- High flow rate/low differential pressure reduces system wear and tear

## Applications

- Deionized water filtration
- Liquid clarification
- Recirculating liquids
- Wine and beer clarification
- Juices
- Bottled water
- Process water

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# Clariflow® Water Service Grade

## SPECIFICATIONS

### Materials of Construction

Membrane	Polyethersulfone
Support layers	Polypropylene
Structure	Polypropylene

All components meet USP-XXIV Class VI-121°C criteria and are thermally bonded to assure integrity and purity.

### Maximum Differential Pressure

#### Forward

80 psid (5.5 bar) @ 75°F (24°C)  
40 psid (2.8 bar) @ 180°F (82°C)

#### Reverse

50 psid (3.4 bar) @ 75°F (24°C)

### Effective Filtration Area

5.4 ft<sup>2</sup> (0.50 m<sup>2</sup>) per 10 inch (250 mm) cartridge

### Bulk Packaging

Bulk packaged in case quantities to reduce material disposal

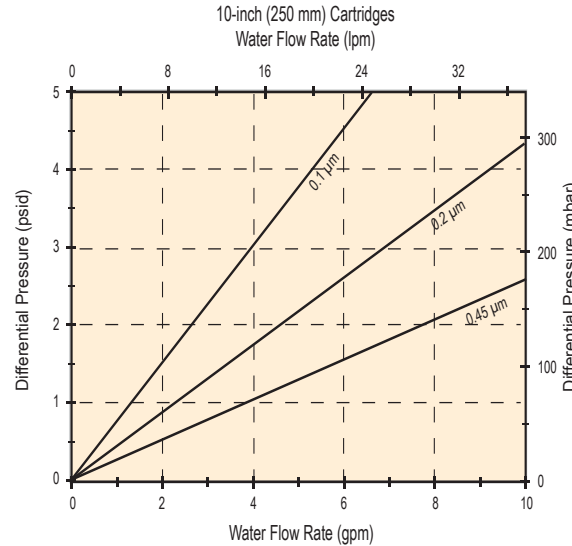
- 10" - 28 per carton
- 20" - 12 per carton
- 30" - 12 per carton
- 40" - 9 per carton

## PERFORMANCE ATTRIBUTES

### Water Flow Rates

0.1 µm	1.3 gpm/psid (7.14 lpm/100 mbar)
0.2 µm	2.6 gpm/psid (14.27 lpm/100 mbar)
0.45 µm	3.8 gpm/psid (20.86 lpm/100 mbar)

\* Per 10 inch (250 mm) cartridge equivalent and for fluids with viscosity of 1cP



## Ordering Information

Each cartridge is identified with a product number, pore size, and lot number for traceability.



Insert Style		End Fittings		Nominal Length		Filter Rating		Gasket/O-rings		Thickness (Gaskets Only)	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	LENGTH	CODE	MICRON	CODE	MATERIAL	CODE	THICKNESS
1	No Insert (standard)	0	DOE (CUNO®)	10	10" (250 mm)	001	0.1 µm	0	Buna N	1	0.200" (5 mm)
5	Encapsulated 316 SS Insert	1	DOE	20	20" (500 mm)	002	0.2 µm	1	EPDM	2	0.125" (3mm)
6	Encapsulated Polysulfone Insert	2	226/Flat	30	30" (750 mm)	004	0.45 µm	2	Silicone	4	(1) 0.200" (5 mm) & (1) 0.125" (3 mm)
A	1/2" Shortened Filter (222 only)	3	222/Flat	40	40" (1,000 mm)			4	Viton®	N	None
		6	020/Internal/Flat					5*	Encapsulated Viton®		
		7	226/Fin					6*	Encapsulated Silicone		
		8	222/Fin					N	None		
		G	120/Internal/Recessed								
		H	213 internal/recessed endcap								
		R	213 internal/recessed endcap (Ametek®)								
			222/Recessed End cap								

All cartridges are 2.75" (690 mm) in diameter.

\*O-rings only

Clariflow-G is a registered trademark of Parker-Hannifin Corporation.  
Viton is a registered trademark of E.I. duPont de Nemours & Co. Inc.

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DS\_GN\_Clariflow-WG Cart Rev.A



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**Map and Directions to Prosep Filters Limited**



Leave M62 at Junction 24.

At roundabout adjacent to Cedar Court Hotel take 2nd exit onto dual carriageway (A629), signposted Halifax.

Take 1st exit slip road.

At roundabout at end of sliproad, take 3rd exit off.

This is the entrance to Lowfields Business Park.

Proceed straight over 1st roundabout.

At next roundabout take 2nd exit onto River Bank Way - Prosep Filters can be found on the left after the S-bend.

[Link to Google Maps](#)