

All Natural Polypropylene

CARTRIDGE HOUSINGS

All Natural Polypropylene Cartridge Housings help maintain high standards of purity and performance required in critical contamination control systems and processes.

APPLICATIONS

- Deionized and Reagent Grade Water
- Electronic Grade Chemicals (See Compatibility Chart)
- Reagent Grade Chemicals
- Pharmaceutical
- Cosmetic

- Freons (TF, 113)
- Electronic Etching Solutions
- Magnetic Coatings (Tape, Disc or Card)
- Reverse Osmosis or Ultrafiltration Final Filters

HOUSING OPTIONS

- Housings with plugged 0.25-inch NPT inlet, outlet and sump ports available
- Sump Extension Kit for 12-inch housing (157209) designed for use with 12-inch All Natural 222 and standard housings. This extension fills the 15/16-inch (24 mm) to 2, 1/16-inch (56 mm) gap left by single open end flat bottomed cartridges over 10-inch overall length
- Cartridge Coupler (155003) for coupling 9.75-inch DOE cartridges in a 20-inch housing
 - ing
- Cap Plug Kit (144457) for vents or gauges, includes plug and Viton® o-ring





FEATURES

- All Natural polypropylene components no fillers, colorants, plasticizers or lubricants
- Economical alternative to fluoropolymer, Stainless Steel or Teflon® housings
- Ultra-smooth contact surfaces prevent bacterial adhesion and build-up
- Resists deionized water and other inorganic solutions
- Resists stress cracking
- Viton® o-rings for dependable sealing
- 0.75-inch NPT inlet and outlet threads
- Compatible with most manufacturers

SPECIFICATIONS

Component	Material/Value			
Housing	All Natural Polypropylene			
Сар	All Natural Polypropylene			
0-Ring	Viton®			
Maximum Temperature	100°F (37.8°C)			
Maximum Pressure	100 PSI (6.9 bar)			

CAUTION: Do not install where system will be exposed to direct sunlight.

CAUTION: Protect against freezing to prevent cracking of the filter and water leakage. For additional information about chemical compatibility, call our technical support department at 800.861.8758.



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HOUSING SPECIFICATIONS AND PERFORMANCE

Model	Cartridge Sealing	Maximum Dimensions	Initial ΔP (PSI) @ Flow Rate (gpm)*	
#10	DOE ¹	12.5" x 5.125" (320 mm x 180 mm)	1 PSI @ 10 gpm (0.1 bar @ 38 Lpm)	
#12	2222	15.375" x 5.125" (390 mm x 180 mm)	1 PSI @ 10 gpm (0.1 bar @ 38 Lpm)	
#20	D0E ¹ 222 ²	29.125" x 5.125" (590 mm x 180 mm)	1 PSI @ 10 gpm (0.1 bar @ 38 Lpm)	

¹DOE: Double open end ²222 o-ring sealing

CHEMICAL COMPATIBILITY						
CHEMICAL COMPATIBILITY	100%	100% Poly		PVDF		
Semiconductor Processing Materials	68°F (20°C)	140°F (60°)	68°F (20°C)	140°F (60°C)	Viton®	
Acetic Acid 99.7% (135°F/51.7° C Max)	R	С	R	R	NR	
Acetic Acid 50%	R	R	R	R	R	
Acetone 99.5%	R	R	NR	NR	NR	
Ammonium Fluoride 40%	R	R	R	R	R	
Ammonium Hydroxide 10%	R	R	R	R	R	
Hydrochloric Acid 37%	R	R	R	R	R	
Hydrofluoric Acid 49%, 52%	R	R	R	R	R	
Hydrogen Peroxide 50%	R	С	R	R	R	
Methanol 99.9% (140° F/60° C Max)	R	R	R	R	NR	
Methylene Chloride 99.8% (105°F/40.6°C Max)	R	NR	R	NR	R	
Methyl Ethyl Ketone	R	С	NR	NR	NR	
N-Butyl Acetate 99.0%	NR	NR	C	NR	NR	
Nitric Acid 60%	R	NR	R	С	R	
Phosphoric Acid 86%	R	R	R	R	R	
Potassium Hydroxide 45%	R	R	R	R	NR	
2-Propanol 99.5%	R	R	R	С	R	
Sodium Hydroxide 50%	R	R	R	R	R	
Sulfuric Acid 90%	R	R	R	R	R	
Tetrachloroethylene 99.0%	NR	NR	R	R	R	
Water-Deionized	R	R	R	R	R	

R = Resistant C = Conditionally resistant NR = Non-resistant



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^{*} Pressure drop measured on empty housing.