

PENTEK® All Natural

Filter Housings

All Natural Filter Housings help maintain high standards of purity and performance required in critical contamination control systems and processes. These housings can also be used for a variety of other applications where purity, quality, filtration and economy are required.

All Natural Housings have 3/4" (19 mm) NPT inlet and outlet threads. See back for cartridge sealing options. Some housings are available with plugged 1/4" (6.4 mm) NPT inlet, outlet and sump ports.

Compatible with most Pall, Millipore, Gelman, Brunswick, Sartorius, Filterite and Nuclepore membrane cartridges.

Applications

- Deionized and reagent grade water
- Electronic grade chemicals (see chemical compatibility chart on back page for details)
- Reagent grade chemicals
- Pharmaceutical grade solvents
- Reaction solvents for cosmetic, pharmaceutical, or polyester production
- Freons (TF, 113)
- Electronic etching solutions
- Magnetic coatings (tape, disc, or card)
- Reverse osmosis or ultrafiltration final filters

Product Features

- An economical solution to fluoropolymer, stainless steel or Teflon® housings
- Pure polypropylene components – no fillers, colorants, plasticizers or lubricants
- Ultra-smooth contact surfaces prevent bacterial adhesion and build-up
- Resists DI water and other inorganic solutions
- Resists stress cracking
- Viton O-rings provide dependable sealing



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Chemical Compatibility Chart

Semiconductor Processing Materials	Pure Poly		PVDF		Viton®
	68°F (20°C)	140°F (60°C)	68°F (20°C)	140°F (60°C)	
Acetic Acid 99.7% (135°F/51.7°C Max)	R	C	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	C	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	C	NR	NR	NR
N-Butyl Acetate 99.0%	NR	NR	C	NR	NR
Nitric Acid 60%	R	NR	R	C	R
Phosphoric Acid 86%	R	R	R	R	R
Potassium Hydroxide 45%	R	R	R	R	NR
2-Propanol 99.5%	R	R	R	C	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

Housing Specifications and Performance Data

Model	Cartridge Sealing	Maximum Dimensions	Initial 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	222 ²	15.375" x 5.125" (390 mm x 180 mm)	1 psi @10 gpm (0.1 bar @ 38 Lpm)
#20	DOE ¹	29.125" x 5.125" (590 mm x 180 mm)	1 psi @10 gpm (0.1 bar @ 38 Lpm)
#20	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

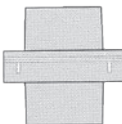
CAUTION: Do not install where system will be exposed to direct sunlight.
CAUTION: Protect against freezing to prevent cracking of the filter and water leakage.
For additional information about chemical compatibility, call our technical support department at 1-800-861-8758.

Optional Accessories

Sump Extension Kit for 12" Housing (157209)
Designed for use with 12" All Natural 222 and standard housings. This extension fills the 1-1/32" (33 mm) to 2-1/16" (52 mm) gap left by SOE flat bottomed cartridges over 10" overall length.

Cartridge Coupler (155003)
For coupling 9-3/4" DOE cartridges in a 20" housing

Cap Plug Kit (144457)
For vents or gauges Includes plug and Viton® o-ring



Material of Construction

Housing	All Natural Polypropylene
Cap	All Natural Polypropylene
O-Ring	Viton®
Cap	#241 (151117)
Plug-O-Ring	#112 Viton®(SH143267)
Maximum Temperature	100°F (37.8°C)
Maximum Pressure	100 psi (6.9 bar)



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