InterPure

General Grade Teflon - Teflon Membrane for Liquid and Air Applications

General Grade Teflon Cartridges are designed for general purpose use wherever a cost effective Teflon membrane filter is required. Typical applications include filtration of aggressive fluids, vent filtration, air and gas filtration. These cartridges are found in the manufacturing processes of pharmaceutical companies, semi-conductor manufacturers and bulk chemical companies. Priced below special purpose cartridges, general grade cartridges are still manufactured with the same careful attention to quality and performance.

Flow Rate

The following table represents typical water flow at 69 mbar (one psi) pressure differential across a single 10 inch cartridge element. The test fluid is water at ambient temperature. Extrapolation for housings with multiple elements and higher pressure drops is acceptable, but as flows increase the pressure drop of the housing becomes more apparent.

Pore Size	l/min
0.1 µm	4,7
0.2 µm	10,6
0.45 µm	21,6
1.0 µm	34,1
3.0 µm	43,2

Construction Materials

Filtration Media ..... Teflon®
Support Media ..... Polypropylene
End Caps ..... Polypropylene
Center Core ..... Polypropylene
Outer Support Cage ..... Polypropylene
O-rings/Gaskets .....Silicone, EPDM, Buna, Viton, Teflon® Encapsulated Viton, Polyfoam

Absolute Filtration Ratings

99.98% (β_x=5000) removal efficiencies.

Sanitisation/Sterilisation

Autoclave.....127°C, 30 min, multiple cycles
In-line Steam.....135°C, 30 min, multiple cycles
Chemical Sanitisation - Industry standard concentrations of hydrogen peroxide, peracetic acid, sodium hypochlorite and other selected chemicals.

Dimensions

Length:
10 to 40 inches (25.4 to 101.6 cm) nominal
Outside Diameter:
2.70 inches (7.0 cm) nominal
Filter Area: 0,7 m^2 per 10”

Maximum Recommended Operating Conditions

Temperature ..... 80°C

Maximum Differential Pressures

Forward .....3,4 bar at 20°C
Reverse .....2,7 bar at 20°C

Product Purity

All components FDA acceptable per 21 CFR. All polypropylene components meet the specifications for biological safety per USP Class VI-121 C for plastics.

Ordering Information (universal ordering code, not all options are available)

PTF	Pore Size	Length	End Cap Code	O-Rings/Gaskets
	0,1 = 0,1 µm	1 = 10” (25.4 cm)	1 = DOE with Gaskets	1 = Silicone
	0,2 = 0,2 µm	2 = 20” (50.8 cm)	2 = SOE -222 O-rings with Flat Cap	2 = EPDM
	0,45 = 0,45 µm	3 = 30” (76.2 cm)	3 = SOE -222 O-rings with Fin	3 = Buna
	1,0 = 1 µm	4 = 40” (101.6 cm)	4 = SOE -222 O-rings with Spring	4 = Viton
	3,0 = 3 µm	Y = 5” (12.7 cm)	5 = SOE -226 O-rings with Spring	5 = Teflon® Encapsulated Viton
			6 = SOE -226 O-rings with Flat Cap	6 = Polyfoam End Gaskets
			7 = SOE -226 O-rings with Fin	
			8 = SOE with Spring	
			9 = SOE with Core Extender	