High Purity – 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 psi (69 mbar) 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 in acceptable, but as flows increase the pressure drop of the housing becomes more apparent.

Pore Size	GPM
0.1 M	1.25
0.2 M	2.8
0.45 M	5.7
1.0 M	9.0
3.0 M	11.4

SANITIZATION/STERILIZATION

Autoclave ..... 127˚ C, 30 min, multiple cycles
In-line Stream ..... 135˚C, 30 min, multiple cycles
Chemical Sanitization – Industry standard concentrations of hydrogen peroxide, paracetic acid, sodium hypochlorite and other selected chemicals.

CONSTRUCTION MATERIALS

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

DIMENSIONS

Length:
10 to 40 inches (25.4 to 101.6 cm) nominal
Outside Diameter:
2.75 inches (7.0 cm) nominal

MAXIMUM DIFFERENTIAL PRESSURES

Forward ..... 50 psi (3.4 bar) at 20˚C
Reverse ..... 45 psi (2.7 bar) at 20˚C

ORDERING INFORMATION

MPTFE	(Pore Size)	A	(Length)	C	(End Cap Code)	O-Rings/Gaskets	Options
	0.1		10 (25.4 cm)		B = DOE W/gasket – and caps	B = Buna	I = 316SS Inset
	0.2		20 (50.8 cm)		C = 222 W/Spear	E = EPDM	
	0.45		30 (76.2 cm)		D = 222 W/Closed Flat Cap	S = Silicone	
	1.0		40 (101.6 cm)		E = 222 W/Spring	V = Viton	
	3.0				F = 226 W/Closed Flat Cap	T = Teflon Encapsulated Viton	
					G = 226 W/Spear		
					H = 226 W/Spring		
					J = Polypropylene Extender		
					L = Spring		
					N = SOE Recessed Cap, internal 213 O-ring		