

## PureFlo® D50C Filter Capsules

PureFlo® D50C Filter Capsules (50mm diameter) have been specially designed for simple, quick, and efficient filtration of liquids and gases used in laboratory, pilot, and small-scale applications. Nine different media options with ten fitting options can be placed in an all-polypropylene or polyethylene shell construction for excellent chemical compatibility. The small, compact design of the filter capsule also reduces hold-up volume and exposure to hazardous chemicals. No adhesives, binders, or surfactants are used in the manufacturing process. The unit is thermally-sealed to ensure integrity.



### Materials of Construction

Membrane: Nylon, Nylon Screen, Polyethylene, PES, Polypropylene Membrane, Polypropylene Media, Hydrophobic and Hydrophilic PTFE  
 Membrane Supports: Polypropylene  
 Capsule Body: Polypropylene (standard)

### Fitting Connections

Luer Lock, Luer Slip, Hose Barb, Compression, NPT, Quick Couplings

Effective Filtration Area - 2.5in<sup>2</sup> (15.9 cm<sup>2</sup>)

### Operating Conditions

Max. Working Pressure:

PP/HDPE/PVC 80 PSID @ 77°F/25°C (5.5 bar)  
 Gamma PP 45 PSID @ 77°F/25°C (3.1 bar)

Minimum burst pressure:

PP/HDPE: 120 PSID @ 77°F/25°C (8.3 bar)  
 Gamma PP: 60 PSID @ 77°F/25°C (4.1 bar)

Maximum forward differential pressure:

60 PSID (4.1 bar) at 68°F (20°C)

Maximum reverse differential pressure:

30 PSID (2.1 bar) at 68°F (20°C)

Maximum Operating Temperature:

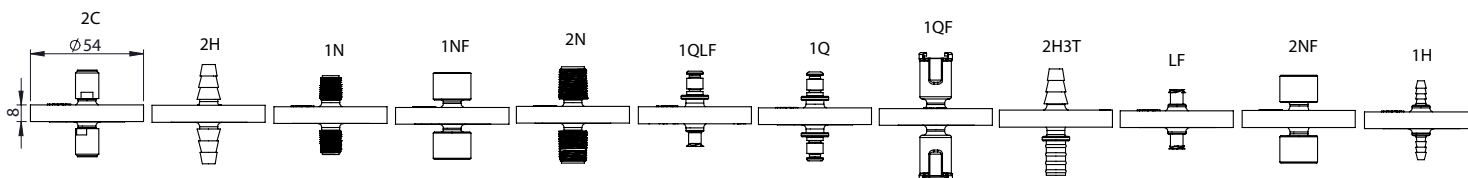
PP & Gamma PP: 176°F/80°C

HDPE: 140°F/60°C

PVC: 122°F/50°C

### Regulatory Compliance

The discs are manufactured from materials that conform to the requirements of 21CFR Part 177 of the U.S. Code of Federal Regulations. Medias and Membranes are also in compliance with the USP Class VI Biological Test for Plastics. (Except Blk PP & PVC.)



### PureFlo D50C Filter Capsules Ordering Guide

PureFlo D50C Capsule Filters	Filter Media	Pore Sizes (Micron)								Input Fitting	Output Fitting	Options
		Charged Nylon (CN)	Polyethylene (E)	PTFE (F)	Glass Fiber (G)	Polypropylene Membrane (M)	Nylon (N)	Nylon Screen (NS)	Polypropylene Media (P)	PES (S)		
D50C = 50mm Capsule filter	CN = Charged Nylon	005 = 0.05 010 = 0.10	020 = 0.20 100 = 1.0	010 = 0.10 020 = 0.20	005 = 0.5 010 = 1.0	010 = 0.1 020 = 0.2	005 = 0.05 010 = 0.10	100 = 10 200 = 20	003 = 0.3 006 = 0.6	005 = 0.05 010 = 0.10	1N = 1/8" MNPT 1NF = 1/8" FNPT	Blank = Polypropylene Shell
	E = Polyethylene	020 = 0.20 045 = 0.45	150 = 1.5 250 = 2.5	045 = 0.45 080 = 0.80	030 = 3.0 050 = 5.0	030 = 3.0 050 = 5.0	045 = 0.45 065 = 0.65	400 = 40 600 = 60	010 = 1.0 030 = 3.0	020 = 0.20 045 = 0.45	1H = 1/8"-1/4" Hose Barb 1Q = 1/8" Male Quick Coupling	E = Polyethylene Shell (for Gamma Stability)
	G = Glass Fiber	065 = 0.65 080 = 0.80		300 = 3.0 500 = 5.0	100 = 10 200 = 20	100 = 10 200 = 20	10X = 100 20X = 200	300 = 30 400 = 40	050 = 5.0 080 = 0.80	065 = 0.65 080 = 0.80	1QF = 1/8" Female Quick Coupling	G = Gamma stable Polypropylene Shell
	M = PP Membrane	120 = 1.20		999 = 10	300 = 30	300 = 30		200 = 20 300 = 30	120 = 1.20		2C = 1/4" Compression	N = Nylon Shell
	NS = Nylon Screen							400 = 40 500 = 50			2H = 1/4"-3/8" Hose Barb	-1 = Single Bagged
	P = PP Media							700 = 70 15X = 150			2N = 1/4" MNPT	ETO = Ethylene Oxide Sterilization
	S = PES										2Q = 1/4" Male Quick Coupling for Metal latch	BLK = Black PP shell
	TS = Polyester Screen										3T = 3/8" Tube Seal (9.8mm)	O-Ring for Quick Coupling
											LF = Luer Lock Female	-OE = O-ring EPDM -ON = O-ring Nitrile -OV = O-ring Viton Blank = O-ring Silicon (Standard)

Example - 1.0 Micron Nylon Filter Media with 1/4" hose barb fittings would be D50CN1002H