

PureFlo® D50C Filter Capsules

50mm Disc filter

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. There are 14 different media options with 20 fitting options that 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 or binders are used in the encapsulation process. The unit is thermally-sealed to ensure integrity.



Specifications:

Materials of Construction

Membrane: Nylon, Nylon Screen, Polyethylene, PES, Polypropylene Membrane, Polypropylene Media, Hydrophobic and Hydrophilic PTFE
 Membrane Supports: Media dependent
 Capsule Body: PP, Nylon, HDPE

Fitting Connections

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

Effective Filtration Area - 2.5in² (15.9 cm²)

Autoclave Cycles - 10 times @ 257°F/125°C for 30 minutes Capsules must not be in situ steam-sterilized. Polyethylene material can not be autoclaved.

Regulatory Compliance

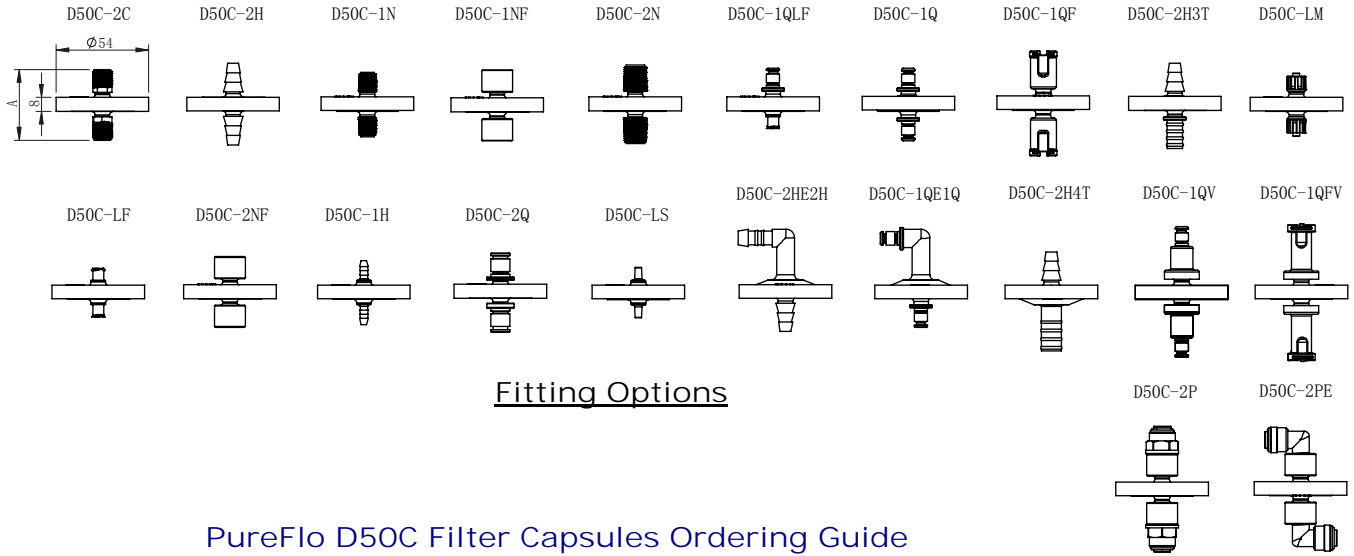
The discs are manufactured from materials that conform to the requirements of 21CFR Part 177 of the U.S. Code of Federal Regulations. Medias and Membranes are also in compliance with the USP Class VI Biological Test for Plastics. (Except Black PP)

Bacterial Endotoxin - Effluent is non-pyrogenic per USP Bacterial Endotoxin (0.25 EU/ml), determined using Limulus Amebocyte Lysate (LAL) Test.

Operating Conditions

		PP Shell/ Nylon Shell	Gamma Stablized PP Shell	HDPE Shell
Maximum working pressure @ 72°F/22°C:	Liquid:	80 psi (5.5 bar)	45 psi (3.1 bar)	80 psi (5.5 bar)
	Gas:	60 psi (4.1 bar)	45 psi (3.1 bar)	60 psi (4.1 bar)
Minimum burst pressure @ 72°F/22°C:		120 psi (8.3 bar)	60 psi (4.1 bar)	120 psi (8.3 bar)
Maximum working temp:		176°F (80°C)	176°F (80°C)	140°F (60°C)
Maximum forward differential pressure @ 72°F/22°C:		60 psid (4.1 bar)	45 psid (3.1 bar)	60 psid (4.1 bar)
Maximum reverse differential pressure @ 72°F/22°C:		30 psid (2.1 bar)	30 psid (2.1 bar)	30 psid (2.1 bar)
Maximum gamma irradiation resistance:			50 kGy	50 kGy

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Fitting Options

PureFlo D50C Filter Capsules Ordering Guide

PureFlo D50C Capsule	Filter Media	Pore Sizes (Micron)	Input Fitting	Output Fitting	Options	
D50C = 50mm Capsule	A = Cellulose Acetate	Pick From Pore Size Table	1H = 1/8" Hose Barb	1H	Shell Material	Pharma Grade
	CN = Charged Nylon		1N = 1/8" MNPT	1N	Blank = Polypropylene	-PH = Pharma Grade
	F = PTFE Phobic		1NF = 1/8" FNPT	1NF	-E = Polyethylene Shell	Sterilization
	G = Glass Fiber		1Q = 1/8" Male Quick Coupling	1Q	-BLK = Black PP shell	-ETO = Ethylene Oxide Sterilization
	HF = PTFE Phillic		1QE = 1/8" Male Quick Coupling Elbow	1QE	-GP = Gamma stable Polypropylene Shell	Packaging
	HP = Hi Performance PP Media		1QF = 1/8" Female Quick Coupling	1QF	-NY = Nylon Shell	Blank = Bulk
	M = PP Membrane		1QV = 1/8" Male Quick Valved Coupling	1QV		-1 = Single Bagged
	N = Nylon		1QVF = 1/8" Female Quick Valved Coupling	1QVF	O-Ring for Quick Connect	Prefilter (add before Filter Media in part#)
	NG = Natural Glass Fiber		2C = 1/4" Compression	2C	Blank = O-ring Silicon (Standard)	G(pore Size) = Glass Fiber PreFilter
	NN = Nylon Non-Woven		2H = 1/4"-3/8" Hose Barb	2H	-OE = O-ring EPDM	P(pore Size) = PolyPro Media PreFilter
NS = Nylon Screen	2HE = 1/4" Hose Barb Elbow	2HE	-ON = O-ring Nitrile	S(pore Size) = PES PreFilter		
P = PP Media	2N = 1/4" MNPT	2N	-OV = O-ring Viton			
PS = PP Screen	2NF = 1/4" FNPT	2NF				
S = PES	2P = 1/4" Push to connect	2P				
SS = Stainless Steel Screen	2PE = 1/4" Push to connect Elbow	2PE				
TS = Polyester Screen	2Q = 1/4" Male Quick Coupling for Metal latch	2Q				
UE = Polyethylene	3T = 3/8" Tube Seal (9.8mm)	3T				
	4T = 11.8mm Tube Seal	4T				
	LF = Luer Lock Female	LF				
	LM = Luer Lock Male	LM				
	LS = Luer lock slip	LS				

Example – 1.0 Micron Nylon Filter Media with 1/4" hose barb fittings would be D50CN1002H2H

Pore Sizes (Micron)																
Cellulose Acetate (A)	Charged Nylon (CN)	PTFE (Hydrophobic) (F)	Glass Fiber (G)	PTFE (Hydrophilic) (HF)	Hi Performance PP Media (HP)	Polypro Membrane (M)	Nylon (N)	Natural Glass Fiber (NG)	Nylon Non Woven (NN)	Nylon Screen (NS)	Polypro Media (P)	Polypro Screen (PS)	PES (S)	Stainless Steel Screen (SS)	Polyester Screen (TS)	Polyethylene (UE)
020 = 0.20	005 = 0.05	010 = 0.10	U = ULPA	020 = 0.20	001 = 0.1	010 = 0.1	005 = 0.05	010 = 1	070 = 7	003 = 0.3	10X = 100	005 = 0.05	180 = 18	050 = 5	010 = 0.1	010 = 0.1
045 = 0.45	010 = 0.10	020 = 0.20	H = HEPA	045 = 0.45	002 = 0.2	020 = 0.2	010 = 1.0	030 = 3	100 = 10	006 = 0.6	15X = 150	010 = 0.10	200 = 20	070 = 7	020 = 0.20	020 = 0.20
065 = 0.65	020 = 0.20	045 = 0.45	002 = 0.2	100 = 1.0	003 = 0.3	010 = 0.10	030 = 3.0	050 = 5	200 = 20	010 = 1.0	20X = 200	020 = 0.20	250 = 25	100 = 10	045 = 0.45	045 = 0.45
080 = 0.80	045 = 0.45	100 = 1.0	045 = 0.45	300 = 3.0	006 = 0.6	045 = 0.45	050 = 5.0	100 = 10	400 = 40	030 = 3.0	30X = 300	045 = 0.45	370 = 37	200 = 20	100 = 1.0	100 = 1.0
120 = 1.20	065 = 0.65	300 = 3.0	005 = 0.5	500 = 5.0	010 = 1.0	065 = 0.65	200 = 20	200 = 20	600 = 60	050 = 5.0	50X = 500	065 = 0.65	460 = 46	300 = 30	300 = 30	300 = 30
	080 = 0.80	500 = 5.0	010 = 1.0	030 = 3.0	030 = 3.0	080 = 0.80	400 = 40	10X = 100	10X = 100	070 = 7.0	070 = 7.0	080 = 0.80	530 = 53	400 = 40	400 = 40	400 = 40
	120 = 1.20	999 = 10	030 = 3.0	050 = 5.0	050 = 5.0	120 = 1.20		20X = 200	20X = 200	100 = 10.0	100 = 10.0	120 = 1.20	740 = 74	550 = 55	730 = 73	730 = 73
			050 = 5.0					25X = 250	25X = 250	200 = 20.0	200 = 20.0		740 = 74	730 = 73		
			100 = 10					30X = 300	30X = 300	300 = 30.0	300 = 30.0		10X = 105			
			200 = 20							400 = 40.0	400 = 40.0		15X = 150			
			300 = 30							500 = 50.0	500 = 50.0		20X = 200			
										700 = 70.0	700 = 70.0		25X = 250			
										10X = 100	10X = 100					
										15X = 150	15X = 150					