PureFlo® D50C Filter Capsules

50 mm Disc filter

PureFlo® D50C Filter Capsules (50 mm 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 17 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.

Applications	
Point of use, low flow filtration	Syringe filter
Sample and Small Batch Clarification and Filtration	Sample and Small Batch Preparation and Clean-Up
Low hold up volume required application	Filter Media selection
Laboratory	Small scale Filtration testing

Specifications:

Materials of Construction: *(Standard Option)*	Media: Multiple Media Media Supports: Media Dependent O-Rings: Silicone Sealing: Thermal End Capping			
Fitting Connections:	See ordering guide for the availability. (Custom adaptors available upon request)			
Effective Filtration Area: *(Single Layer/PP Construction)*	2.5 in^2 (15.9 cm^2)			
Operating Conditions:		**PP Shell/Nylon Shell**	**Gamma Stabilized PP Shell**	**HDPE Shell**
	Maximum Operating Pressure: *(at 72 °F/22 °C)*	Liquid: 5.5 bar (80 psi) Gas: 4.1 bar (60 psi)	Liquid: 3.1 bar (45 psi) Gas: 2.1 bar (30 psi)	Liquid: 5.5 bar (80 psi) Gas: 4.1 bar (60 psi)
	Maximum Forward Differential Pressure: *(at 72 °F/22 °C)*	4.1 bar (60 psi)	3.1 bar (45 psi)	4.1 bar (60 psi)
	Maximum Reverse Differential Pressure: *(at 72 °F/22 °C)*	2.1 bar (30 psi)	2.1 bar (30 psi)	2.1 bar (30 psi)
	Minimum Burst Pressure: *(at 72 °F/22 °C)*	8.3 bar (120 psi)	4.1 bar (60 psi)	8.3 bar (120 psi)
	Maximum Operating Temperature:	176 °F/80 °C	176 °F/80 °C	140 °F/60 °C

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Table I: Pore Sizes

Cellulose Acetate (A)	Charged Nylon (CN)	PTFE (F)	Glass Fiber (G)	Philic PTFE (HF)	Hi Performance PP Media (HP)	PP Membrane (M)	Nylon (N)	Natural Glass Fiber (NG)
020 = 0.20 µm **045** = 0.45 µm **065** = 0.65 µm **080** = 0.80 µm **120** = 1.20 µm	**005** = 0.05 µm **010** = 0.10 µm **020** = 0.20 µm **045** = 0.45 µm **065** = 0.65 µm **080** = 0.80 µm **120** = 1.20 µm	**010** = 0.1 µm **020** = 0.2 µm (0.01 µm for gas) **045** = 0.45 µm **100** = 1.0 µm **300** = 3.0 µm **500** = 5.0 µm **999** = 10 µm	**U** = ULPA **H** = HEPA **002** = 0.2 µm **004** = 0.45 µm **005** = 0.5 µm **010** = 1.0 µm **030** = 3.0 µm **050** = 5.0 µm **100** = 10 µm **200** = 20 µm **300** = 30 µm *Best for Gas Applications*	**010** = 0.1 µm **020** = 0.2 µm **045** = 0.45 µm **100** = 1.0 µm **300** = 3.0 µm **500** = 5.0 µm **999** = 10.0 µm	**001** = 0.1 µm **002** = 0.2 µm **003** = 0.3 µm **006** = 0.6 µm **010** = 1.0 µm **030** = 3.0 µm **050** = 5.0 µm **100** = 10 µm	**010** = 0.1 µm **020** = 0.2 µm	**005** = 0.05 µm **010** = 0.10 µm **020** = 0.20 µm **045** = 0.45 µm **065** = 0.65 µm **080** = 0.80 µm **120** = 1.20 µm	**005** = 0.5 µm **010** = 1.0 µm **030** = 3.0 µm **050** = 5.0 µm

Nylon Non-Woven Media (NN)	Nylon Screen (NS)	PP Media (P)	Polypro Screen (PS)	PES (S)	Stainless Steel Screen (SS)	Polyester Screen (TS)	Polyethylene (UE)	
010 = 1 µm **030** = 3 µm **050** = 5 µm **100** = 10 µm **200** = 20 µm	**070** = 7 µm **100** = 10 µm **200** = 20 µm **400** = 40 µm **600** = 60 µm **10X** = 100 µm **20X** = 200 µm **25X** = 250 µm **30X** = 300 µm	**003** = 0.3 µm **006** = 0.6 µm **010** = 1.0 µm **030** = 3.0 µm **050** = 5.0 µm **070** = 7.0 µm **100** = 10.0 µm **200** = 20.0 µm **300** = 30.0 µm **400** = 40.0 µm **500** = 50.0 µm **700** = 70.0 µm **10X** = 100 µm	**10X** = 100 µm **15X** = 150 µm **20X** = 200 µm **30X** = 300 µm **50X** = 500 µm	**004** = 0.04 µm **010** = 0.1 µm **020** = 0.2 µm **045** = 0.45 µm **065** = 0.65 µm **080** = 0.8 µm **120** = 1.2 µm	**180** = 18 µm **200** = 20 µm **250** = 25 µm **370** = 37 µm **460** = 46 µm **530** = 53 µm **610** = 61 µm **740** = 74 µm **10X** = 105 µm **15X** = 150 µm **20X** = 200 µm **25X** = 250 µm	**050** = 5 µm **070** = 7 µm **100** = 10 µm **200** = 20 µm **300** = 30 µm **400** = 40 µm **600** = 60 µm **730** = 73 µm	**010** = 0.1 µm **020** = 0.2 µm **045** = 0.45 µm **100** = 1.0 µm	

PureFlo D50C Filter Capsules Ordering Guide

PureFlo D50C Capsule Filters	Filter Media	Pore Sizes	Input Fitting	Output Fitting	Options	
D50C 50 mm Capsule filter	**A** = Cellulose Acetate **CN** = Charged Nylon **F** = PTFE Phobic **G** = Glass Fiber **HF** = PTFE Phillic **HP** = Hi Performance PP Media **M** = PP Membrane **N** = Nylon **NG** = Natural Glass Fiber **NN** = Nylon Non-Woven **NS** = Nylon Screen **P** = PP Media **PS** = PP Screen **S** = PES **SS** = Stainless Steel Screen **TS** = Polyester Screen **UE** = Polyethylene	***See Table: I for pore sizes**	**1H** = 1/8"Hose barb **1N** = 1/8" MNPT **1NF** = 1/8" FNPT **1Q** = 1/8" Male quick coupling **1QE** = 1/8" Male quick coupling elbow **1QF** = 1/8" Female quick coupling **1QV** = 1/8" Male quick valved coupling **1QVF** = 1/8" Female quick valved coupling **2C** = 1/4" Compression **2H** = 1/4"-3/8" Hose barb **2HE** = 1/4" Hose barb elbow **2N** = 1/4" MNPT **2NF** = 1/4" FNPT **2P** = 1/4" Push to connect **2PE** = 1/4" Push to connect elbow **2Q** = 1/4" Male quick coupling for metal latch **3T** = 3/8" Tube seal (9.8 mm) **4T** = 11.8 mm Tube seal **LF** = Luer lock female **LM** = Luer lock male **LS** = Luer lock slip	**1H** **1N** **1NF** **1Q** **1QE** **1QF** **1QV** **1QVF** **2C** **2H** **2HE** **2N** **2NF** **2P** **2PE** **2Q** **3T** **4T** **LF** **LM** **LS**	**(1) Prefilter (Add Before Filter Media In Part#)** **G (pore size)** = Glass fiber prefilter **P (pore size)** = PolyPro media prefilter **S (pore size)** = PES prefilter **(3) O-Ring** **Blank** = O-ring silicone (standard) **-OE** = O-ring EPDM **-ON** = O-ring Nitrile **-OV** = O-ring Viton **(5) Sterilization** **-ETO** = Ethylene oxide sterilization	**(2) Construction Material** **Blank** = Polypropylene **-E** = Polyethylene shell and media support **-GP**= Gamma stable polypropylene shell and polyester media support **-NY** = Nylon shell and media support **-BLK** = Black polypropylene shell and polypropylene media support **(4) Grades** **-PH** = Pharma grade **(6) Bagging** **Blank** = Bulk **-1** = Single bagged

Example – D50C Filter with Nylon Media, 1.0 µm, with 1/4" hose barb fittings would be **D50CN1002H2H**

*Fittings installed by threaded connection. All others are thermally bonded to or molded on shell.
Note: Quick couplings are compatible with CPC (Colder), LinkTech, and others.

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