



**HIGH EFFICIENCY
AND VERSATILE
FILTRATION**



DISPOSABLE DISK FILTERS (DDF)



FEATURES • BENEFITS

- ◆ High-quality borosilicate glass microfiber and PTFE media available
- ◆ High-efficiency filtration, low pressure drop
- ◆ Wide variety of connectors for easy installation
- ◆ Customizable filters to fit special customer requirements
- ◆ ISO 9001, ISO 13485, and FDA approved manufacturing facility
- ◆ Engineering, customization, testing, certification, and application support
- ◆ Some models meet FDA and ISO standards, 510(k)

APPLICATIONS

- ◆ Life Sciences
 - ◆ Oxygen concentrators
 - ◆ Ventilators
- ◆ General HEPA filtration
- ◆ Ink filtration
- ◆ Many other air, liquid, and gas applications



DISPOSABLE FILTER CAPSULES (DFC)

FEATURES • BENEFITS

- ◆ Wide variety of quality filter media, media rating options, and connectors
- ◆ Select filters are HEPA rated-capable of removing more than 99.97% of particles 0.3µm or larger
- ◆ Suitable for specific high-temperature applications
- ◆ Filters act as silencers for quieter operation
- ◆ Engineering, customization, testing, certification, and application support
- ◆ Meets FDA and ISO standards

APPLICATIONS

- ◆ Life Sciences
 - ◆ Oxygen concentrators
 - ◆ Ventilators
 - ◆ Anesthesia
 - ◆ Breathing circuits
- ◆ General HEPA filtration
- ◆ Ink filtration
- ◆ General water/air/glycol filtration



TABLE OF CONTENTS

3	General Product Information	8	DFC10
4	Filter Media and Membranes	8	DFC19
5	Housing Materials	9	DFC21
6	DDF47	9	DFC30
7	DDF60	10	RFC12
7	DFC06	11	Pressure drop & Filtration Efficiency Plots

FILTER MEDIA AND MEMBRANES

POLYPROPYLENE (PP)

- ◆ Used in many medical products
- ◆ Absorbs little to no moisture
- ◆ Compatible with a wide range of chemicals
- ◆ Flexible and lightweight, with moderate strength and stability
- ◆ Resistant to wearing and sunlight
- ◆ Resistant to mildew, mold, or bacteria

GLASS FIBER (GF)

- ◆ Superior filtration efficiency
- ◆ High dust-holding capacity
- ◆ Low airflow resistance
- ◆ Efficiently removes sub-micron particles, making it the first choice for respiratory support filters

POLYETHERSULFONE (PES)

- ◆ Can be used with both liquids and dry gases
- ◆ Very low protein binding characteristics
- ◆ High liquid flow rates and throughput
- ◆ Low extractables

POLYTETRAFLUOROETHYLENE (PTFE)

- ◆ Naturally hydrophobic
- ◆ Excellent chemical resistance
- ◆ Ideal for sterile venting of gases, non-aqueous solvents, acids and aggressive fluids

HOUSING MATERIALS

POLYPROPYLENE

- ◆ Increased stiffness
- ◆ Good impact strength
- ◆ Resistant to heat
- ◆ Lower density
- ◆ Compatible with a wide range of chemicals

NYLON 6/6

- ◆ Great impact strength
- ◆ High abrasion resistance
- ◆ Ideal for high temperature applications
- ◆ Not recommended for ink filtration

STYRENE BUTADIENE COPOLYMER (SBC)

- ◆ Good impact strength
- ◆ Increased stiffness
- ◆ Transparent material

ACRYLIC-BASED MULTIPOLYMER

- ◆ Compatible with a wide range of chemicals
- ◆ Good impact strength
- ◆ Resistance to heat
- ◆ Transparent material

We offer a variety of filter media and membranes for the Pentair[®] Disposable Disk Filter and Disposable Filter Capsule products. Pentair has the right choice for your application with four media types available in multiple pore sizes.

For more information, please contact your local Pentair Sales Representative.



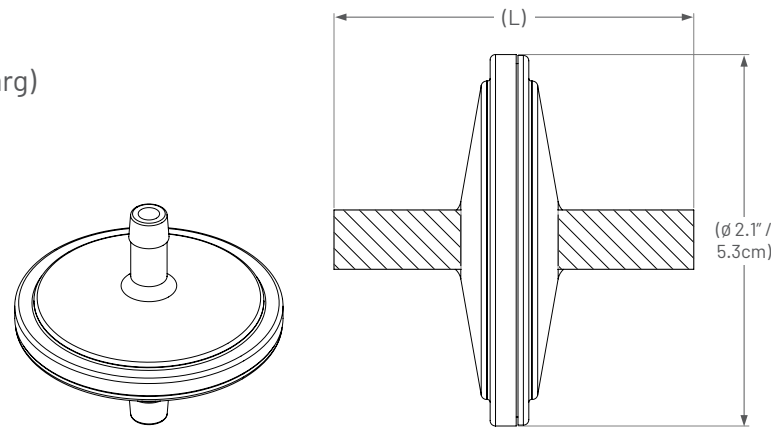
DDF47

SPECIFICATIONS

- ◆ Maximum operating pressure: 30 PSIG (2.1 barg)
- ◆ Maximum operating temperature: 150°F (65°C)

ADDITIONAL INFORMATION

- ◆ Smaller size
- ◆ Naturally rubber/latex free
- ◆ Bi-directional flow
- ◆ Versatile application



BARB 1	BARB 2	L (IN/CM)	AVAILABLE HOUSING MATERIAL/COLOR	AVAILABLE MEDIA MATERIAL(S)
3/16"-1/4" Step Barb	3/16"-1/4" Step Barb	2.5/6.4	Polypropylene/Natural Styrene Butadiene Copolymer*/Blue	3 µm GF 1 µm PTFE
5/16"-7/16" Step Barb	5/16"-7/16" Step Barb	2.2/5.5	Polypropylene/Natural	3 µm GF 5 µm GF 1 µm PTFE
.35" Step Barb	5/16"-7/16" Step Barb	2.4/6.1	Polypropylene/Natural	1 µm PTFE
5/16" Step Barb	5/16" Step Barb	1.9/4.8	Polypropylene ¹ /Natural Acrylic-based Multipolymer ¹ /Green	2 µm GF 3 µm GF 1 µm PTFE

*Only available in 1 µm PTFE media ¹Only available in 2 µm GF or 1 µm PTFE media ¹Only available in 2 µm and 3 µm GF media
Many configurations available. For all available options, please contact your Pentair sales representative.

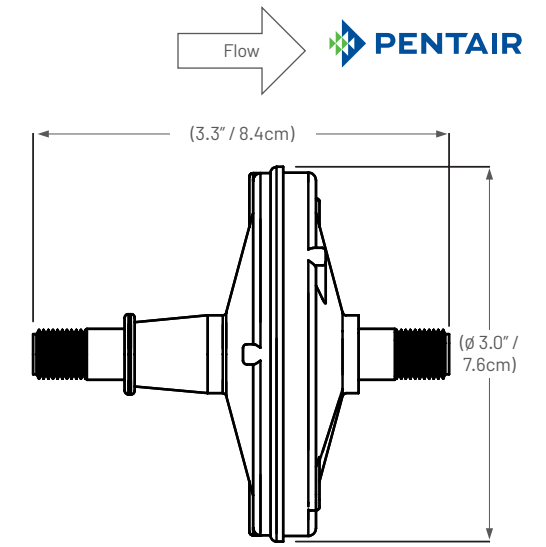
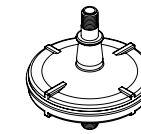
DDF60

SPECIFICATIONS

- ◆ Maximum operating pressure: 60 PSIG (4.1 barg)
- ◆ Maximum operating temperature: 70°F (21°C)
- ◆ Filtration efficiency: ≥99.96% of 0.5 µm particles in air @ 25 SLPM

ADDITIONAL INFORMATION

- ◆ Ideal for water filtration
- ◆ Naturally rubber/latex free



INLET		OUTLET		AVAILABLE HOUSING MATERIAL/COLOR	AVAILABLE MEDIA MATERIAL(S)
	1/8" MNPT w/ Barb		1/8" - 27 MNPT	Polypropylene/Natural	0.45 µm PES

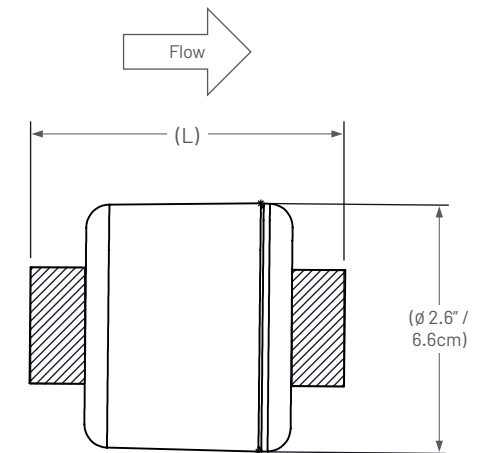
DFC06

SPECIFICATIONS

- ◆ Maximum operating pressure/temperature:
 - ◆ Polypropylene Filters (FNPT) 80 PSIG (5.5 barg) @ 70°F (21°C)
50 PSIG (3.4 barg) @ 185°F (85°C)
 - ◆ Polypropylene Filters (Barb) 92 PSIG (6.3 barg) @ 70°F (21°C)
44 PSIG (3.0 barg) @ 185°F (85°C)
 - ◆ Nylon Filters (Barb & FNPT) 130 PSIG (9.0 barg) @ 70°F (21°C)
46 PSIG (3.2 barg) @ 230°F (85°C)

ADDITIONAL INFORMATION

- ◆ Available in a variety of configurations
- ◆ Flow direction indicated via label and/or molded text



INLET	OUTLET	L (IN/CM)	AVAILABLE HOUSING MATERIAL/COLOR	AVAILABLE MEDIA MATERIAL(S)
		3.0/7.6	Polypropylene/Natural Nylon*/Black	1 µm GF 3 µm GF 7 µm GF
		3.9/9.9	Polypropylene/Natural	1 µm GF 3 µm GF
		3.5/8.9	Nylon/Black	3 µm GF

*Only available in 3 µm glass fiber media



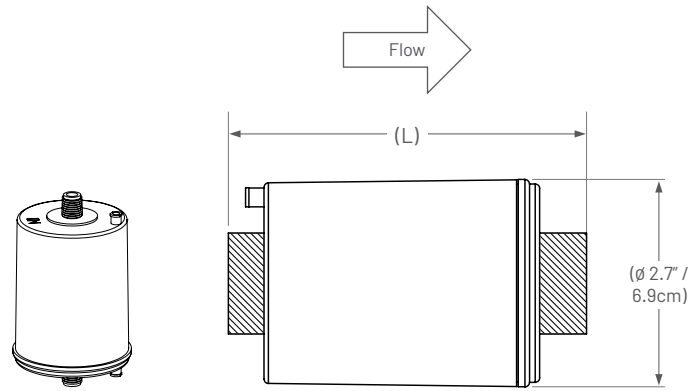
DFC10

SPECIFICATIONS

- Maximum operating pressure/temperature:
 - 100 PSIG (6.9 barg) @ 70°F (21°C)
 - 45 PSIG (3.1 barg) @ 212°F (100°C)

ADDITIONAL INFORMATION

- Vented filters include luer lock vent cap
- Flow direction indicated via label and/or molded text



INLET		OUTLET		L (IN/CM)	AVAILABLE HOUSING MATERIAL/COLOR	AVAILABLE MEDIA MATERIAL(S)
	1/4" MNPT w/ Vent		1/4" MNPT w/ Vent	4.8/12.1	Polypropylene/Natural	0.95, 2, 4, & 15 µm PP 1 µm GF
	3/8" MNPT w/ Vent		3/8" MNPT w/ Vent	4.9/12.5	Polypropylene/Natural	2 µm PP
	1" Quick turn thread 6.25 TPI		3/8" FNPT Not Vented - Hole closed	4.4/11.1	Polypropylene/Natural	3 µm GF
	3/8" FNPT Not Vented - Hole closed		3/8" FNPT Not Vented - Hole closed	4.4/11.3	Polypropylene/Natural	0.95 µm PP 2 µm GF 3 µm GF
	1/2" Hose Barb w/ Vent		1/2" Hose Barb w/ Vent	4.4/11.3	Polypropylene/Natural	0.6 µm PP

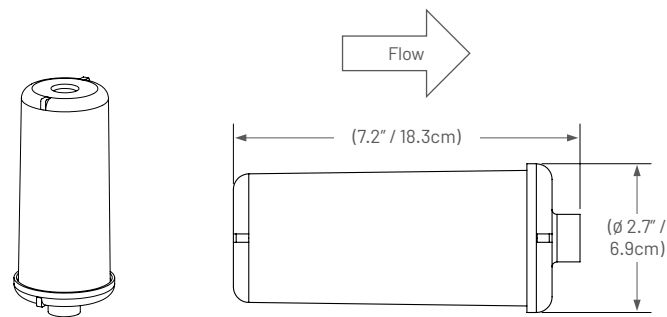
DFC19

SPECIFICATIONS

- Maximum operating pressure/temperature:
 - 63 PSIG (4.3 barg) @ 70°F (21°C)
 - 25 PSIG (1.7 barg) @ 185°F (85°C)

ADDITIONAL INFORMATION

- Ideal for air intake filtration
- Flow direction indicated via label and/or molded text



INLET	OUTLET	AVAILABLE HOUSING MATERIAL/COLOR	AVAILABLE MEDIA MATERIAL(S)
		Polypropylene/Natural	3 µm GF

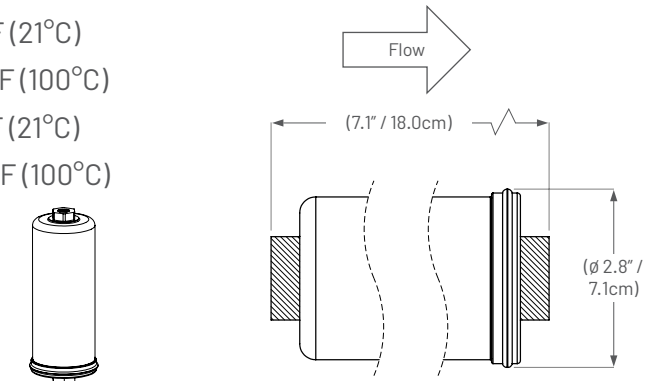
DFC21

SPECIFICATIONS

- Maximum operating pressure/temperature:
 - 3/8" FNPT Filters
 - 84 PSIG (5.8 barg) @ 70°F (21°C)
 - 33 PSIG (2.3 barg) @ 212°F (100°C)
 - 1/4" FNPT Filters
 - 96 PSIG (6.6 barg) @ 70°F (21°C)
 - 50 PSIG (3.4 barg) @ 212°F (100°C)

ADDITIONAL INFORMATION

- Large filtration area for lower pressure drop
- Flow direction indicated via label and/or molded text



INLET	OUTLET	AVAILABLE HOUSING MATERIAL/COLOR	AVAILABLE MEDIA MATERIAL(S)
		Polypropylene/Natural	0.95/9 µm Multilayer PP
		Polypropylene/Natural	0.6 & 0.95 µm PP 2 & 3 µm GF

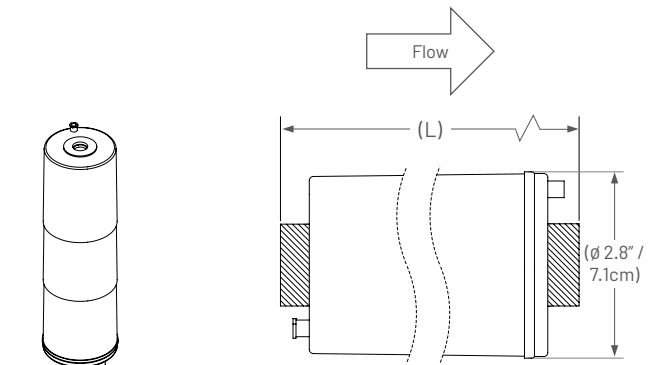
DFC30

SPECIFICATIONS

- Maximum operating pressure/temperature:
 - 87 PSIG (6.0 barg) @ 70°F (21°C)
 - 36 PSIG (2.5 barg) @ 212°F (100°C)

ADDITIONAL INFORMATION

- Flow direction indicated via label and/or molded text



INLET	OUTLET	L (IN/CM)	AVAILABLE HOUSING MATERIAL/COLOR	AVAILABLE MEDIA MATERIAL(S)
		9.7/24.6	Polypropylene/Natural	0.95 µm PP
		10.2/25.9	Polypropylene/Natural	2 µm PP

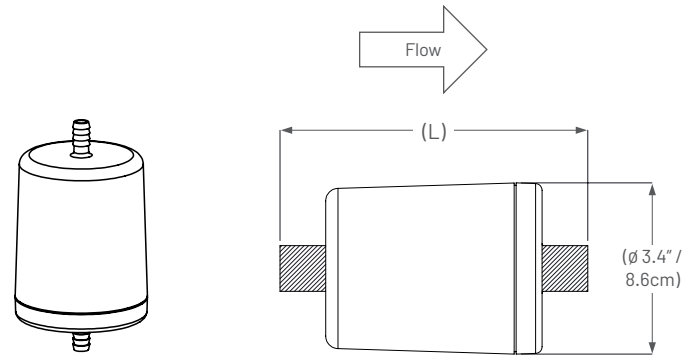
RFC12

SPECIFICATIONS

- Maximum operating pressure/temperature:
 - 32 PSIG (2.2 barg) @ 70°F (21°C)
 - 20 PSIG (1.4 barg) @ 185°F (85°C)

ADDITIONAL INFORMATION

- Flow direction indicated via label and/or molded text

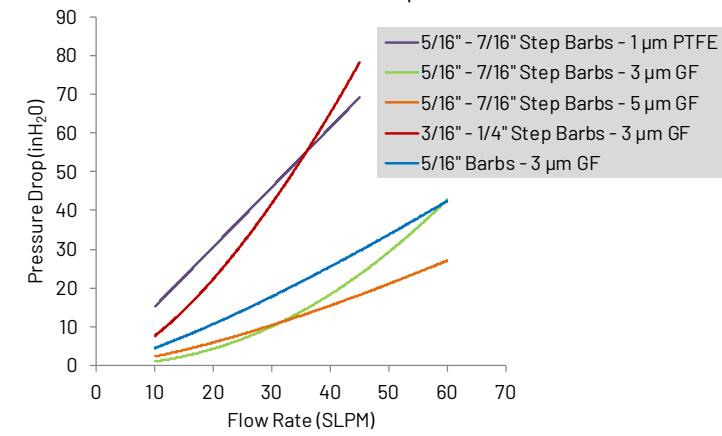


INLET		OUTLET		L (IN/CM)	AVAILABLE HOUSING MATERIAL/COLOR	AVAILABLE MEDIA MATERIAL(S)
	3/8" Barb		3/8" Barb	6.0/15.3	Styrene Butadiene Copolymer/Clear	4.3 µm GF
	3/8" Barb		22 mm Male Taper (meets ISO 5356-1)	5.9/15.1	Styrene Butadiene Copolymer/Clear	4.3 µm GF
	3/8" Barb		1/4" FNPT	5.1/13.0	Styrene Butadiene Copolymer/Clear	4.3 µm GF

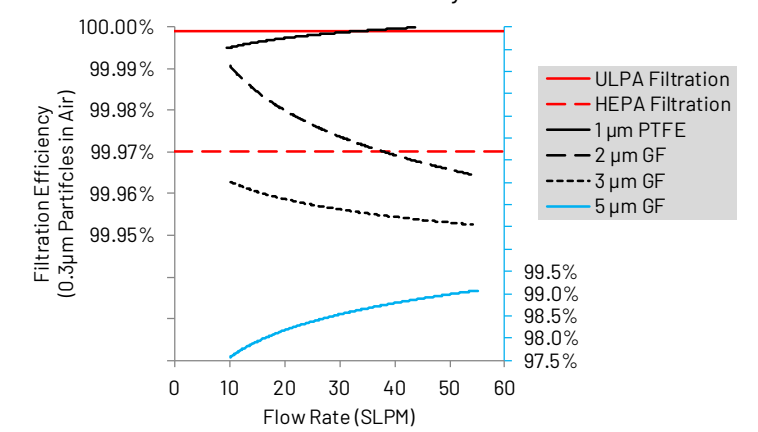


DDF47

DDF47 Pressure Drop vs Flow Rate

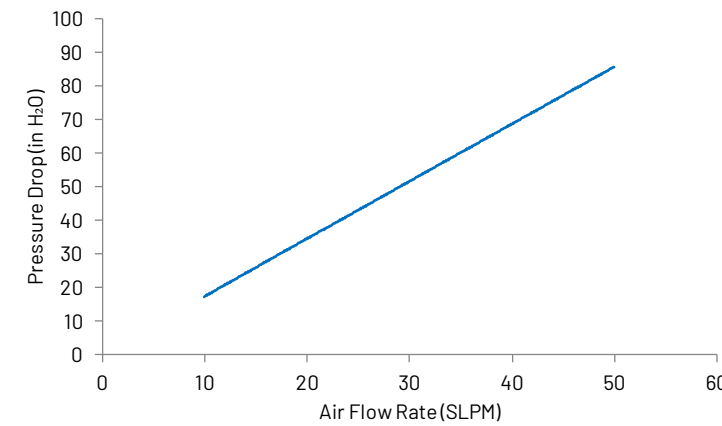


DDF47 Filtration Efficiency vs. Flow Rate



DDF60

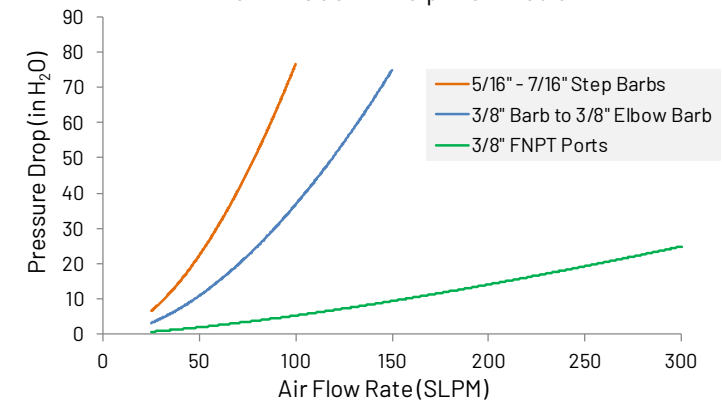
DDF60 Pressure Drop vs Flow Rate



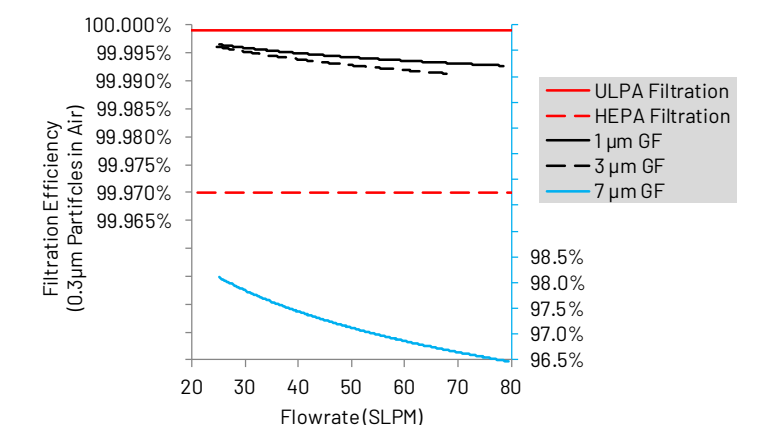
(DDF60 filtration efficiency data is available by request)

DFC06

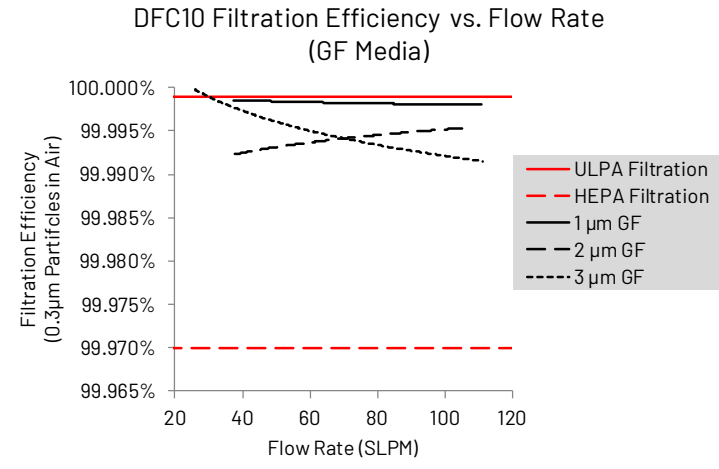
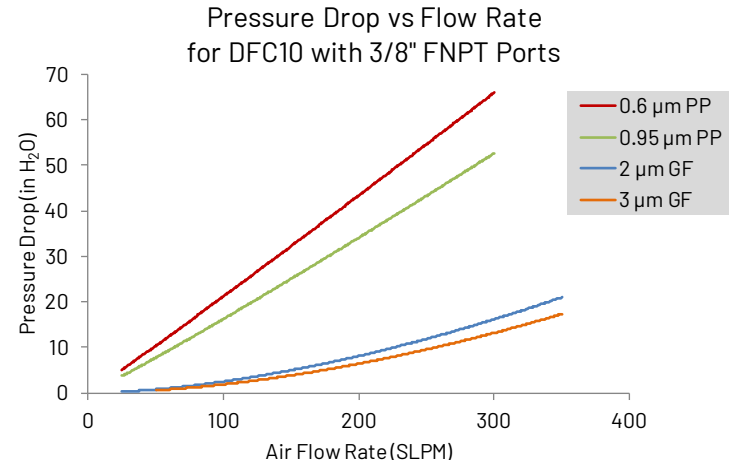
Pressure Drop vs. Flow Rate for DFC06 with 3 µm GF Media



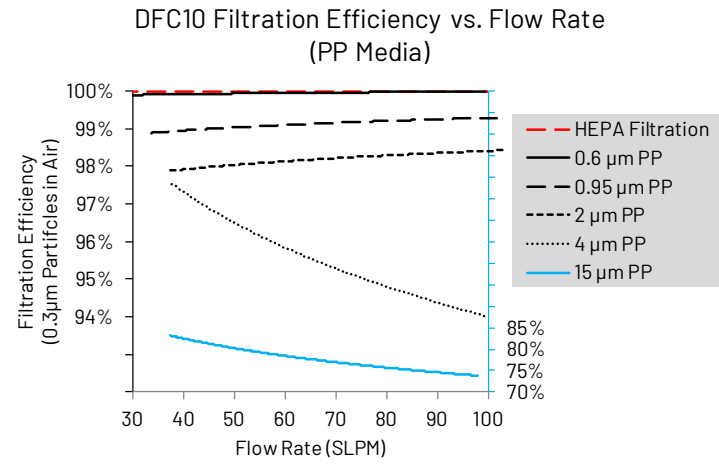
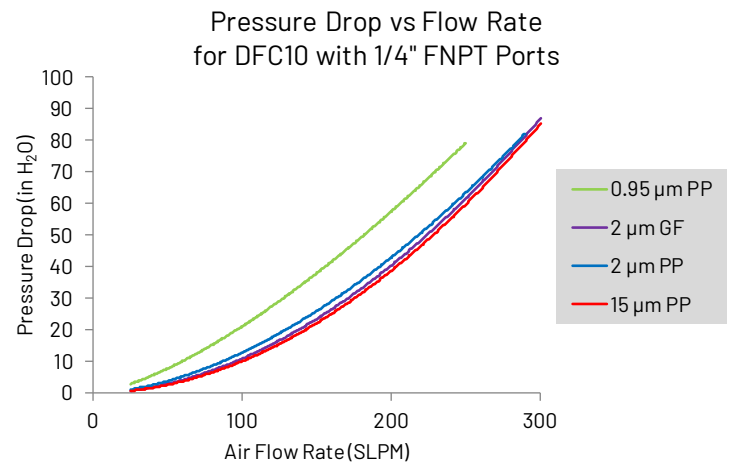
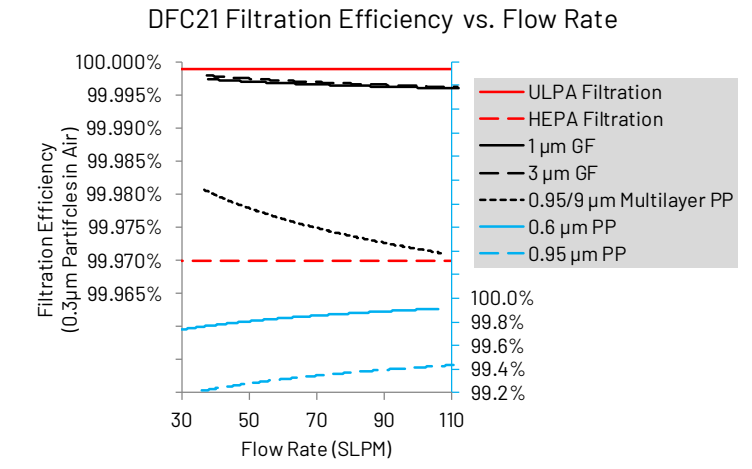
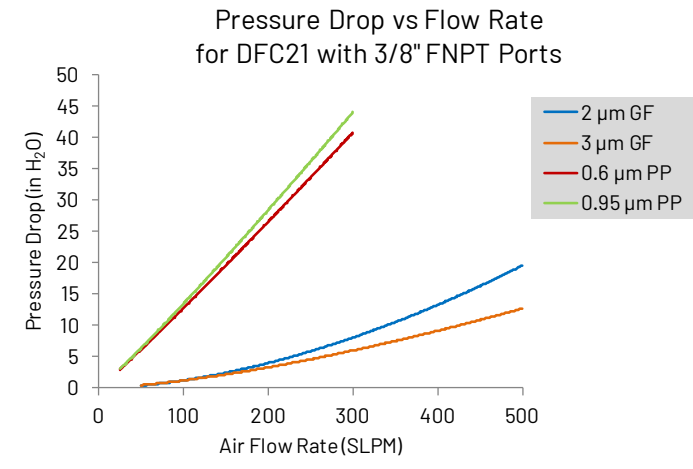
DFC06 Filtration Efficiency vs. Flow Rate



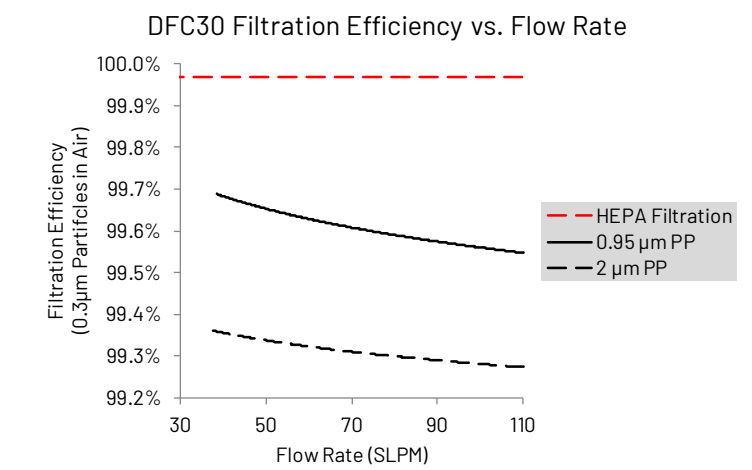
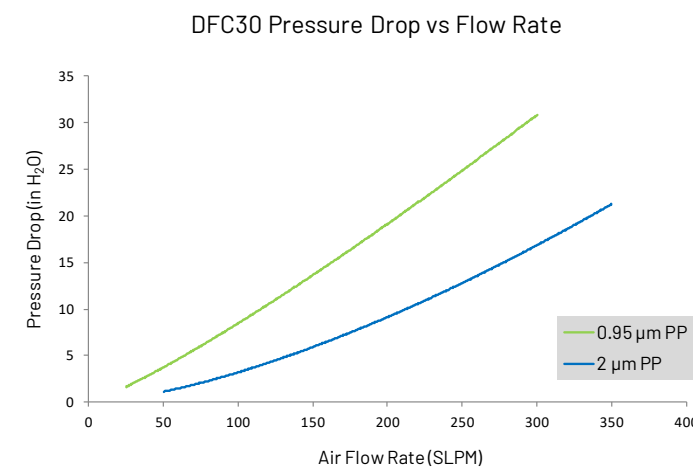
DFC10



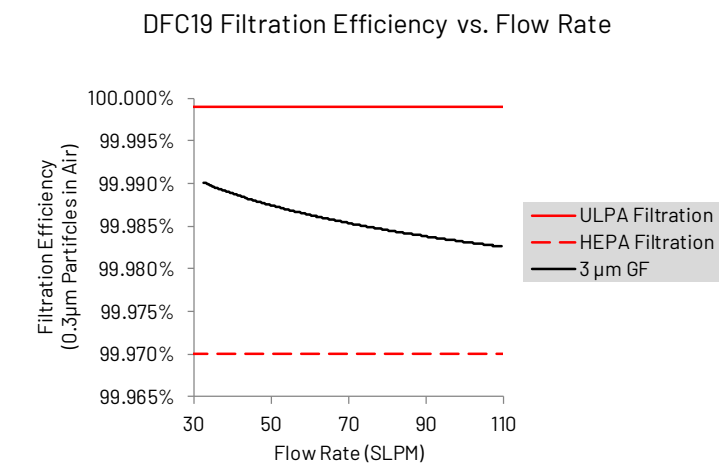
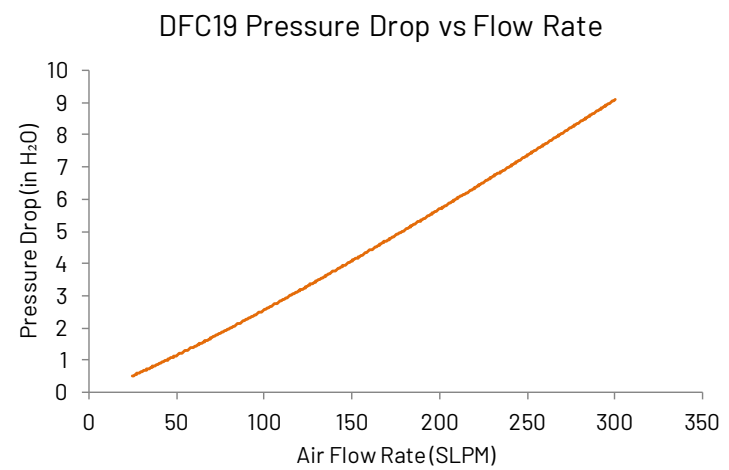
DFC21



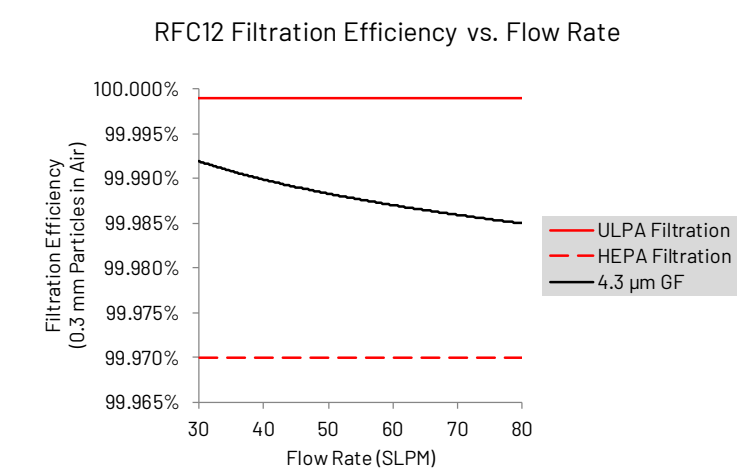
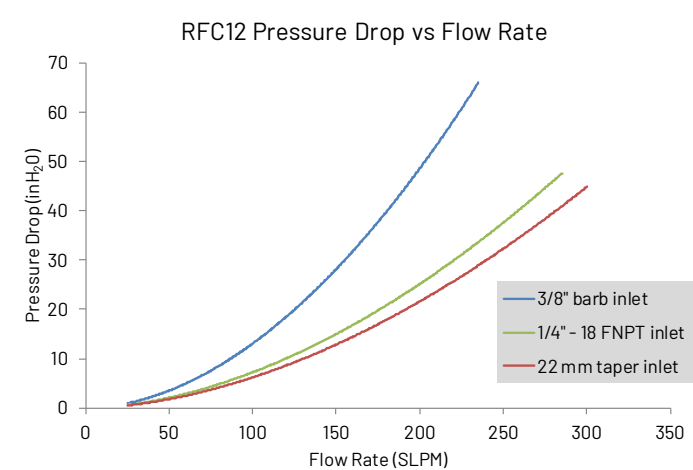
DFC30



DFC19



RFC12



PENTAIR – YOUR PARTNER IN HIGH PERFORMANCE FILTRATION AND SEPARATIONS FOR THE LIFE SCIENCES MARKET

Pentair Engineered Filtration specializes in high-tech separation technology for laboratory and life sciences markets. Both OEMs and end users depend on stable and reliable filtration systems to achieve excellence in competitive markets. We place innovation in the service of our clients with tailor-made solutions that directly contribute to their bottom line.

We pride ourselves on being much more than engineering consultants; we make things happen by solving problems and developing technology to meet your particular challenges with pinpoint accuracy. With a team of experienced filtration engineers, backed up by scientific testing and analysis, we achieve tangible results with long-term benefits. All of our products and services have earned a solid reputation in various markets. Far beyond simply providing systems and components, we help you define and develop a solution that will achieve high performance and profitability.

Your productivity, process safety, consistent quality, regulatory compliance, and cost efficiency are largely determined by the performance of your equipment. We design and manufacture systems and components to solve specific issues and optimize performance by starting with the facts and your business objectives. When you need an answer to a separation issue quickly, one of our off-the-shelf products may do the job more than adequately. More specific issues may well need the customized approach.

**READY TO DISCOVER MORE?
VISIT OUR WEBSITE AT [ENGINEEREDFILTRATION.PENTAIR.COM](https://engineeredfiltration.pentair.com)
OR CONTACT US AT 651.653.2000**

For more information on Pentair Engineered Filtration,
please contact us at EFCustomerService@pentair.com



ENGINEERED FILTRATION

1350 Hammond Rd. | St. Paul, MN 55110 | United States

P: 651.653.2000 | F: 651.653.2230 | engineeredfiltration.pentair.com

§For a detailed list of where Pentair trademarks are registered, please visit www.pentair.com/en/registrations.html. Pentair trademarks and logos are owned by Pentair plc or its affiliates. Third party registered and unregistered trademarks and logos are the property of their respective owners.

© 2019 Pentair Filtration Solutions, LLC. All rights reserved.

4005557 REV A OC19