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 - & Filtration

Efficiency Plots

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



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

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.

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



DDF47

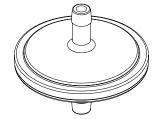
SPECIFICATIONS

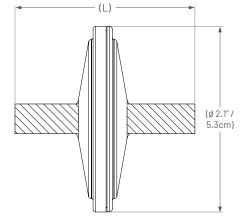
Maximum operating pressure: 30 PSIG (2.1 barg)

• 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	1μm PTFE
	⁵⁄‰" Step Barb		⁵⁄16″ Step Barb	1.9/4.8	Polypropylene [‡] /Natural Acrylic-based Multipolymer [‡] /Green	2 µm GF 3 µm GF 1 µm PTFE

^{*}Only available in 1 µm PTFE media †Only available in 2 µm GF or 1 µm PTFE media †Only 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

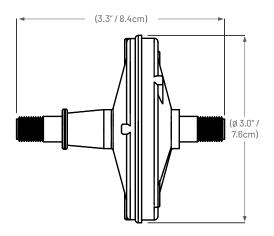
@ 25 SLPM

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)

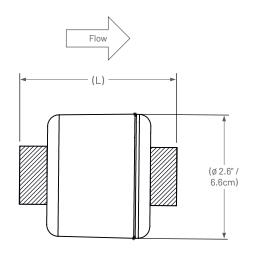
46 PSIG (3.2 barg) @ 230°F (85°C)

ADDITIONAL INFORMATION

Available in a variety of configurations

• Flow direction indicated via label and/or molded text





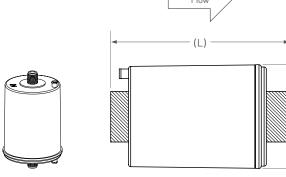
INLET		OUTLET		L (IN/CM)	AVAILABLE HOUSING MATERIAL/COLOR	AVAILABLE MEDIA Material(s)
	³⁄8″ FNPT		3/8" FNPT	3.0/7.6	Polypropylene/Natural Nylon*/Black	1 μm GF 3 μm GF 7 μm GF
	5/16"-7/16" Step Barb		5/16"-7/16" Step Barb	3.9/9.9	Polypropylene/Natural	1 μm GF 3 μm GF
Ē	³⁄₀″ Barb		³⁄₅" Elbow Barb	3.5/8.9	Nylon/Black	3 μm GF

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



(ø 2.7" / 6.9cm)

INLET OUT		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%" 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
	½" Hose Barb w/ Vent		½" Hose Barb w/ Vent	4.4/11.3	Polypropylene/Natural	0.6 µm PP

DFC19

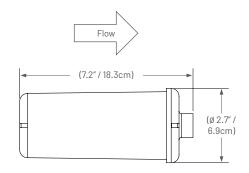
SPECIFICATIONS

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)
	Open Inlet		³⁄₀″ FNPT	Polypropylene/Natural	3 μm GF



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)

√4" FNPT Filters
 96 PSIG (6.6 barg) @ 70°F (21°C)

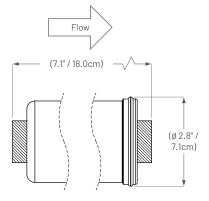
50 PSIG (3.4 barg) @ 212°F (100°C)

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)
Ö	1/4" FNPT	-	1/4" FNPT	Polypropylene/Natural	0.95/9 μm Multilayer PP
	³⁄₀″ FNPT		³⁄₀″ FNPT	Polypropylene/Natural	0.6 & 0.95 μm PP 2 & 3 μm GF

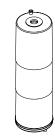
DFC30

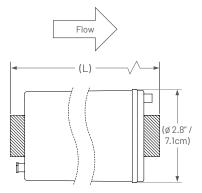
SPECIFICATIONS

Maximum operating pressure/temperature:

 $87 \, PSIG (6.0 \, barg) @ 70^{\circ}F (21^{\circ}C)$

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)
³⁄8″ FNPT w/ Vent		³/8″ FNPT w/ Vent	9.7/24.6	Polypropylene/Natural	0.95 µm PP
³/8" MNPT w/ Vent		3/8" MNPT w/ Vent	10.2/25.9	Polypropylene/Natural	2 μm PP

RFC12

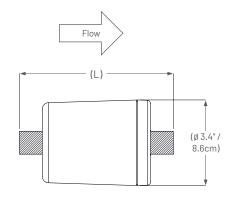
SPECIFICATIONS

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



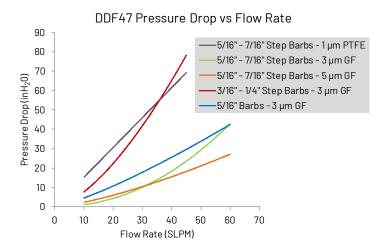


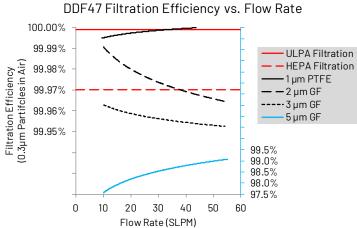
INLET OUTLET		L (IN/CM)	AVAILABLE HOUSING MATERIAL/COLOR	AVAILABLE MEDIA Material(S)	
³⁄₀″ Barb		³⅓″ Barb	6.0/15.3	Styrene Butadiene Copolymer/Clear	4.3 μm GF
³⁄₀″ Barb		22 mm Male Taper (meets ISO 5356-1)	5.9/15.1	Styrene Butadiene Copolymer/Clear	4.3 μm GF
³⁄₅″ Barb		1/4" FNPT	5.1/13.0	Styrene Butadiene Copolymer/Clear	4.3 μm GF



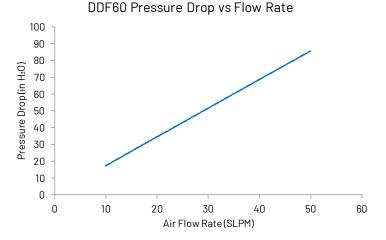
DDF47





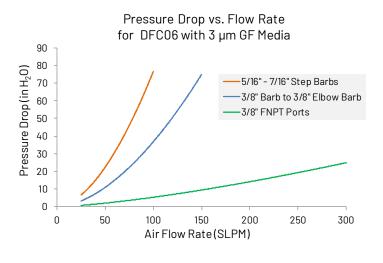


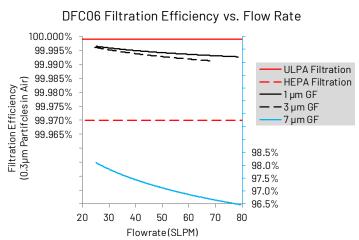
DDF60

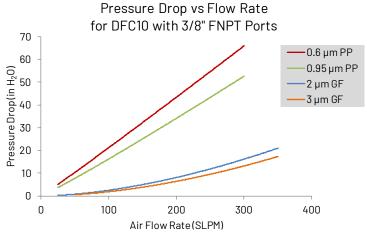


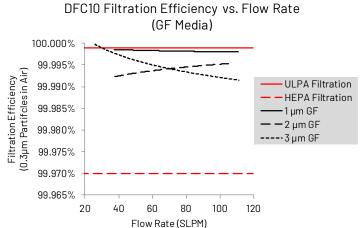
(DDF60 filtration efficiency data is available by request)

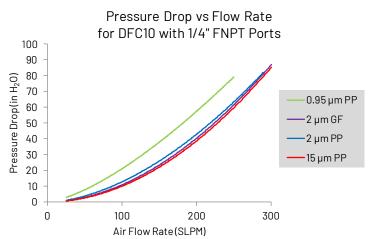
DFC06

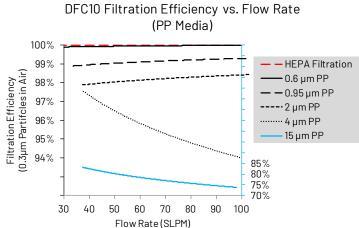








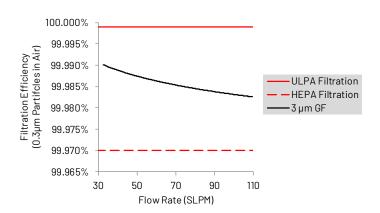




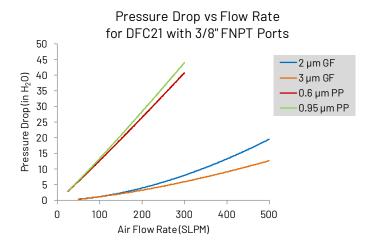
DFC19

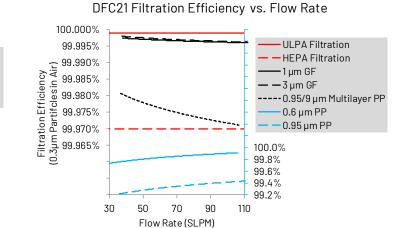
DFC19 Pressure Drop vs Flow Rate Pressure Drop (in H₂0) Air Flow Rate (SLPM)

DFC19 Filtration Efficiency vs. Flow Rate



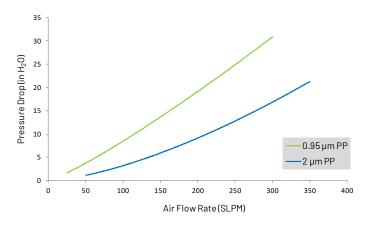


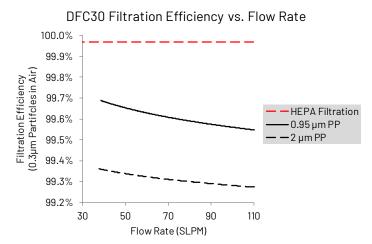




DFC30

DFC30 Pressure Drop vs Flow Rate

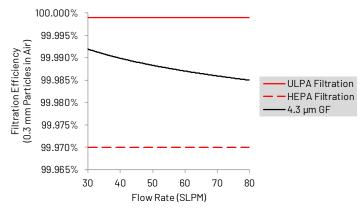




RFC12

RFC12 Pressure Drop vs Flow Rate 70 60 Pressure Drop (in H_2 0) and H_2 0 or H_2 -3/8" barb inlet 1/4" - 18 FNPT inlet 10 22 mm taper inlet 0 100 150 200 250 300 0 50 350 Flow Rate (SLPM)

RFC12 Filtration Efficiency vs. Flow Rate



PENTAIR-

YOUR PARTNER IN HIGH PERFORMANCE FILTRATION AND SEPARATIONS FOR THE INDUSTRIAL MARKET

Pentair Engineered Filtration specializes in high-tech separation technology for industrial 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?
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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

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