

PureFlo D65R Filter Capsules (Disc Capsule)

Versatile Disc Capsule filter

PureFlo® D65R filter capsules (73 mm diameter) have been designed for simple, quick, and efficient filtration of fluids and gases used in laboratory, pilot, and small-scale applications. The family of products is particularly suitable for scale up testing. Eighteen different media options can be placed in an all-polypropylene construction for excellent chemical compatibility. There are 31 different fitting options that can be mixed and matched for the inlet and outlet fittings.

The 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



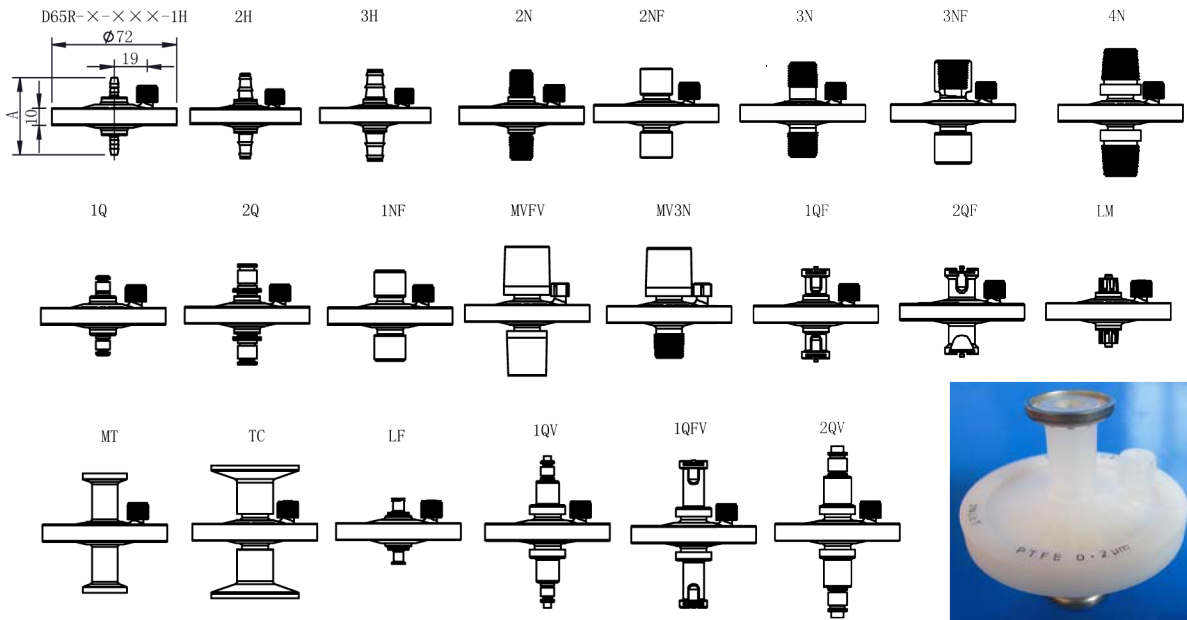
Applications	
Low flow	Ink
Lab scale testing	Beverages
Bio Bags	Pharmaceuticals
Fine Chemicals	Biologics
Vent Filter	Scale up processing
Water	Small volume

Specifications

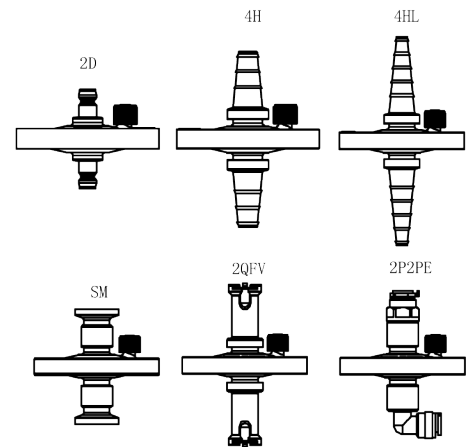
Materials of Construction: <i>(Standard Option)</i>	Media: Polypropylene, Nylon, PTFE, Polyethylene, Glass Fiber, and PES Media Supports: Media Dependent O-Rings: Silicone Sealing: Thermal End Capping			
Fitting Connections:	See ordering guide for the availability. (Custom adaptors available upon request)			
Nominal Dimension:	Diameter: 2.8" (73 mm)			
Effective Filtration Area: <i>(Single Layer/PP Construction)</i>	4 in ² (26 cm ²)			
Operating Conditions:		PP Shell/Nylon Shell	Gamma Stabilized PP Shell	HDPE Shell
	Maximum Operating Pressure: <i>(at 72 °F/22 °C)</i>	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: <i>(at 72 °F/22 °C)</i>	4.1 bar (60 psi)	3.1 bar (45 psi)	4.1 bar (60 psi)
	Maximum Reverse Differential Pressure: <i>(at 72 °F/22 °C)</i>	2.1 bar (30 psi)	2.1 bar (30 psi)	2.1 bar (30 psi)
	Minimum Burst Pressure: <i>(at 72 °F/22 °C)</i>	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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Dimensions (mm)



Code name	Inlet Fitting	Outlet Fitting	Size(±1)
			A
D65R-XXXX-1H	1/8" Hose Barb	1/8" Hose Barb	45
D65R-XXXX-2H	1/4" Hose Barb	1/4" Hose Barb	55
D65R-XXXX-3H	5/16"-3/8" Hose Barb	5/16"-3/8" Hose Barb	59
D65R-XXXX-2N	1/4" MNPT	1/4" MNPT	51
D65R-XXXX-2NF	1/4"FNPT	1/4"FNPT	51.5
D65R-XXXX-3N	3/8" MNPT	3/8" MNPT	55
D65R-XXXX-3NF	3/8" Female	3/8" Female	60
D65R-XXXX-4N	1/2"Male	1/2"Male	74
D65R-XXXX-MT	1/2" Tri Clamp	1/2" Tri Clamp	69
D65R-XXXX-TC	1.5" Tri Clamp	1.5" Tri Clamp	76
D65R-XXXX-LF	Luer Lock Female	Luer Lock Female	38
D65R-XXXX-1Q	1/8" Male Quick Coupling	1/8" Male Quick Coupling	45
D65R-XXXX-2Q	1/4" Male Quick Coupling	1/4" Male Quick Coupling	58
D65R-XXXX-1NF	1/8"FNPT	1/8"FNPT	52
D65R-XXXX-MVFV	Male Ventilator	Female Ventilator	75
D65R-XXXX-MF3N	Male Ventilator	3/8"MNPT	64
D65R-XXXX-1QF	1/8" Female Quick Coupling	1/8"Female Quick Coupling	52
D65R-XXXX-2QF	1/4" Female Quick Coupling	1/4" Female Quick Coupling	50
D65R-XXXX-LM	Luer Lock Male	Luer Lock Male	42
D65R-XXXX-1QV	1/8" Male Quick Coupling	1/8" Male Quick Coupling	88
D65R-XXXX-1QFV	1/8" Female Quick Coupling	1/8"Female Quick Coupling	85
D65R-XXXX-2QV	1/4" Male Quick Coupling	1/4" Male Quick Coupling	99
D65R-XXXX-2QFV	1/4" Female Quick Coupling	1/4" Female Quick Coupling	93
D65R-XXXX-2P2PE	1/4"-1/8" NPT	1/4"-1/8" NPT Shell 90	85
D65R-XXXX-4H	3/8"-1/2" Hose Barb	3/8"-1/2" Hose Barb	89
D65R-XXXX-4HL	1/4"-1/2" Hose Barb	1/4"-1/2" Hose Barb	121
D65R-XXXX-2D	LUDECKE DN5 Male Fitting	LUDECKE DN5 Male Fitting	50
D65R-XXXX-SM	Stainless Steel1/2" Tri Clamp	Stainless Steel1/2" Tri Clamp	66





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Table I: Pore Sizes								
Cellulose Acetate (A)	Charged Nylon (CN)	Nylon (N)	Phylic PTFE (HF) & Phobic (F)	Natural Glass Fiber (NG)	PES (S)	Depth Polypropylene (DP)	PP Media (P)	PP Membrane (M)
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	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 045 = 0.45 µm 100 = 1.0 µm 300 = 3.0 µm 500 = 5.0 µm 999 = 10.0 µm	005 = 0.5 µm 010 = 1.0 µm 030 = 3.0 µm 050 = 5.0 µm <i>Best for Liquid Applications</i>	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	002 = 0.2 µm 005 = 0.5 µm 010 = 1.0 µm 015 = 1.5 µm 025 = 2.5 µm 045 = 4.5 µm 100 = 10 µm 200 = 20 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	010 = 0.1 µm 020 = 0.2 µm
Polyester Screen (TS)	Carbon Fiber (C)	Glass Fiber (G)	Polyethylene (UE)	Nylon Non-Woven Media (NN)	Stainless Steel Screen (SS)	Polypro Screen (PS)	Hi Performance PP Media (HP)	Nylon Screen (NS)
050 = 5 µm 070 = 7 µm 100 = 10 µm 200 = 20 µm 300 = 30 µm 400 = 40 µm 550 = 55 µm 730 = 73 µm	Leave pore size blank for Carbon Fiber	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 <i>Best for Gas Applications</i>	010 = 0.1 µm 020 = 0.2 µm 045 = 0.45 µm 100 = 1.0 µm	010 = 1 µm 030 = 3 µm 050 = 5 µm 100 = 10 µm 200 = 20 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	10X = 100 µm 15X = 150 µm 20X = 200 µm 30X = 300 µm 50X = 500 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	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

PureFlo D65R Filter Capsule Ordering Guide

PureFlo D65R Capsule Filters	Filter Media	Pore Sizes	Inlet Fitting	Outlet Fitting	Options
D65R 65 mm Capsule filter	A = Cellulose Acetate C = Carbon Fiber CN = Charged Nylon DP = Depth PP F = PTFE Phobic G = Glass Fiber HF = PTFE Phillic HP = Hi Performance PP Media M = PP Membrane N = Nylon NG = Natural Glass NN = Nylon Non-Woven NS = Nylon Screen P = PP Media PS = PP Screen S = PES SS = SS Screen TS = Polyester Screen UE = Polyethylene	*See Table: I for pore sizes	1H = 1/8" Hose barb 1NF = 1/8" FNPT 1Q = 1/8" Male quick coupling 1QF = 1/8" Female quick coupling 1QFV = 1/8" Female valved quick coupling 1QV = 1/8" Male valved quick coupling 2D = DNS Lundecke fitting 2H = 1/4"-5/16" Hose barb 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 2QF = 1/4" Female quick coupling with metal latch 2QFV = 1/4" Female valved quick coupling for metal latch 2QP = 1/4" Male valved quick coupling for plastic latch 2QV = 1/4" Male valved quick coupling for metal latch 3H = 5/16-3/8" Hose barb 3HE = 3/8" Hose barb elbow 3N = 3/8" MNPT 3NF = 3/8" FNPT 4H = 3/8"-1/2" Hose barb 4HL = 1/4"-1/2" Hose barb 4N = 1/2" MNPT FV = Female ventilator LF = Female luer lock LM = Male luer lock MT = 1/2" Tri clamp MV = Male ventilator RM = 1/2" Tri clamp with full SS insert ring SM = 1/2" Tri clamp with SS insert Ring ST = 1 1/2" Tri clamp with SS insert Ring TC = 1.5" Tri clamp	1H 1NF 1Q 1QF 1QFV 1QV 2D 2H 2N 2NF 2P 2PE 2Q 2QF 2QFV 2QP 2QV 3H 3HE 3N 3NF 4H 4HL 4N FV LF LM MT MV RM SM ST TC	(1) Construction Materials 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 (2) O-Ring Blank = O-ring silicone (standard) -OE = O-ring EPDM -ON = O-ring Nitrile -OV = O-ring Viton (3) Sterilization -ETO = Ethylene oxide sterilization (4) Other -1 = Single bagged -NV = No vent fitting -FB = Filling bell (2H only) -FC = Filling bell with cap (2H only) (5) Grades Blank = Standard grade -PH = Pharma grade

Example – 1.2 µm Nylon filter media with 1/2" tri clamp fittings would be **D65RN120MTMT**.

*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.

