STERLITECH Corporation

PureFlo D65R Filter Capsules
(Disc Capsule)

Versatile Disc Capsule filter

PureFlo® D65R Filter Capsules (65mm 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. Nineteen 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 process. The unit is thermally-sealed to ensure integrity.

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

Specifications

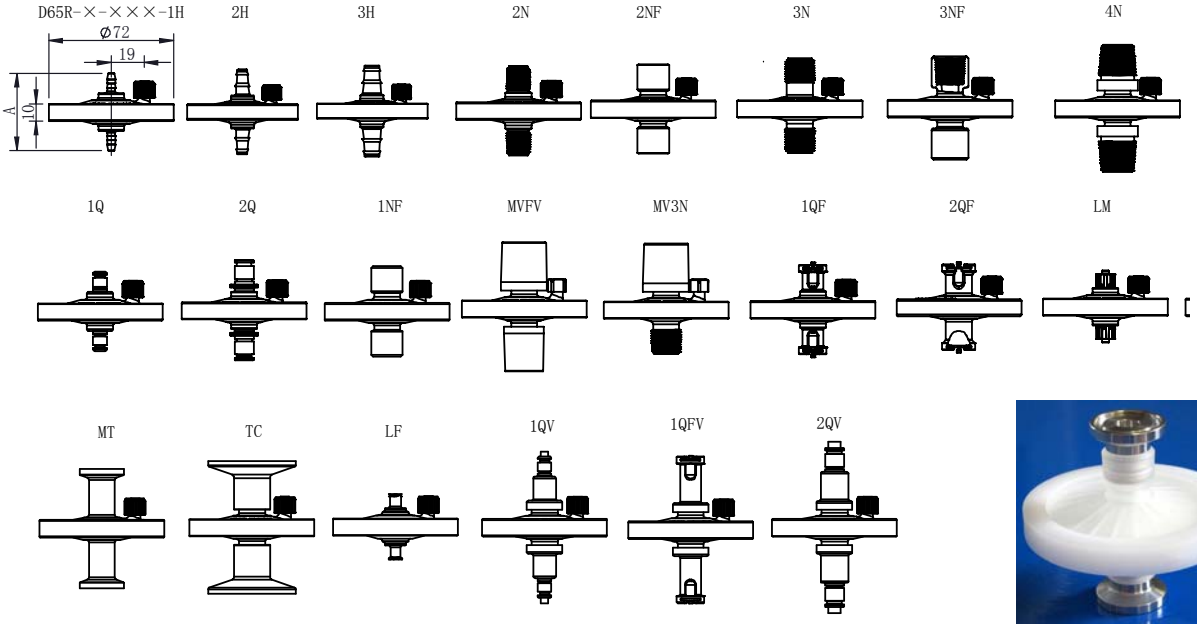
Materials of Construction:	Media: Polypropylene, Nylon, PTFE, Polyethylene, Glass Fiber, and PES Media Supports: Media Dependent Shell: Polypropylene, Nylon or Polyethylene Sealing: Thermally-welded
Fitting Connections:	See ordering guide for the availability. Any inlet/outlet combinations. (Custom adaptors available upon request)
Effective Filtration Area:	4in^2 (26cm^2)
Dimensions:	65mm (2.87in)
Available Ratings:	0.04um to 70um (see Ordering Guide)
Autoclave Cycles:	The filters can be sterilized by autoclaving for 10 cycles at 257°F/125°C for 30 minutes. Polyethylene material can not be autoclaved. Note: Capsules must not be in situ steam-sterilized.

Operating Conditions

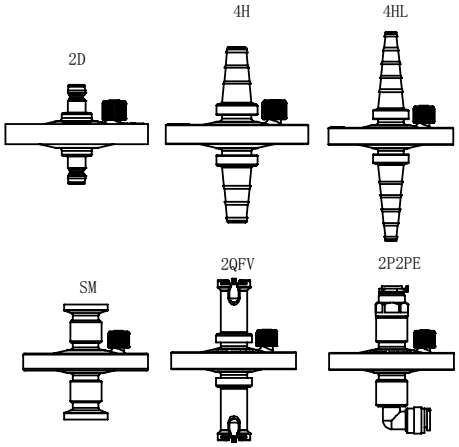
		PP Shell/ Nylon Shell	Gamma Stablized PP Shell	HDPE Shell
Maximum working pressure @ 72°F/22°C:	Liquid:	80 psi (5.5 bar)	45 psi (3.1 bar)	80 psi (5.5 bar)
	Gas:	60 psi (4.1 bar)	45 psi (3.1 bar)	60 psi (4.1 bar)
Minimum burst pressure @ 72°F/22°C:		120 psi (8.3 bar)	60 psi (4.1 bar)	120 psi (8.3 bar)
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

PureFlo D65R Filter Capsules

Dimensions (mm)



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



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Regulatory Compliance:

The filters are constructed with polypropylene resins and filtration media in compliance with 21CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological Test for Plastic. (Except Black PP)

PureFlo D65R Filter Capsule Ordering Guide

PureFlo D65R Capsule Filters	Filter Media	Pore Sizes (Micron)							Input Fitting	Output Fitting	Options
		Cellulose Acetate (A)	Charged Nylon (CN)	PTFE Phillic (HF) & Phobic (F)	Polypro Membrane (M)	Natural Glass Fiber (NG)	Polypro Media (P)	PES (S)			
D65R = 65mm Capsule filter	A = Cellulose Acetate	010 = 0.10	005= 0.05	010 = 0.10	010 = 0.1	005 = 0.5	003 = 0.3	005 = 0.05	1H = 1/8" Hose Barb	1H	Shell Material
	C = Carbon Fiber	020 = 0.20	010 = 0.10	020 = 0.20	020 = 0.2	010 = 1.0	006 = 0.6	010 = 0.10	1NF = 1/8" FNPT	1NF	Blank = Polypropylene
	CN = Charged Nylon	045 = 0.45	020 = 0.20	045 = 0.45		030 = 3.0	010 = 1.0	020 = 0.20	1Q = 1/8" Male Quick Coupling	1Q	-E = Polyethylene Shell
	DP = Depth PP	065 = 0.65	045 = 0.45	100 = 1.0		050 = 5.0	030 = 3.0	045 = 0.45	1QF = 1/8" Female Quick Coupling	1QF	-BLK = Black PP shell
	F = PTFE Phobic	080 = 0.80	065 = 0.65	300 = 3.0			050 = 5.0	065 = 0.65	1QFV = 1/8" Female Valved Quick Coupling	1QFV	-GP = Gamma stable
	G = Glass Fiber	120 = 1.20	080 = 0.80	500 = 5.0			070 = 7.0	080 = 0.80	1QV = 1/8" Male Valved Quick Coupling	1QV	Polypropylene Shell
	HF = PTFE Phillic		120 = 1.20	999 = 10			100 = 10	120 = 1.20	2D = DN5 Lundecke fitting	2D	-NY = Nylon Shell
	HP = Hi Performance PP Media					Best for Liquid Applications	200 = 20		2H = 1/4"-5/16" Hose Barb	2H	Sterilization
	M = PP Membrane						300 = 30		2N = 1/4" MNPT	2N	-ETO = Ethylene Oxide Sterilization
	N = Nylon	Carbon Fiber (C)	Depth PP (DP)	Glass Fiber (G)	Nylon (N)	Nylon Non-Woven Media (NN)	400 = 40	Polyester Screen (TS)	2NF = 1/4" FNPT	2NF	
	NG = Natural Glass						500 = 50		2P = 1/4" Push to connect	2P	Other
	NN = Nylon Non-Woven	Leave Pore Size Blank for Carbon Fiber	002 = 0.2um	U = ULPA	005= 0.05	010 = 1	700 = 70	050 = 5	2PE = 1/4" Push to connect Elbow	2PE	-1 = Single Bagged
	NS = Nylon Screen		005 = 0.5um	H = HEPA	010 = 0.10	030 = 3	10X = 100	070 = 7	2Q = 1/4" Male Quick Coupling for Metal latch	2Q	-NV= No vent fitting
	P = PP Media		010 = 1.0um	002 = 0.2	020 = 0.20	050 = 5	15X = 150	100 = 10	2QF = 1/4" Female Quick Coupling with Metal latch	2QF	-FB = Filling Bell (2H only)
	PS = PP Screen		015 = 1.5um	004 = 0.45	045 = 0.45	100= 10	Stainless Steel Screen (SS)	200 = 20	2QFV = 1/4" Female Valved Quick Coupling for Metal latch	2QFV	-FC = Filling Bell w/ Cap (2H only)
	S = PES		025 = 2.5um	005 = 0.5	065 = 0.65	200= 20		300 = 30	2QP = 1/4" Male Valved Quick Coupling for Plastic latch	2QP	
	SS = SS Screen		045 = 4.5um	010 = 1.0	080 = 0.80			400 = 40	2QV = 1/4" Male Valved Quick Coupling for Metal latch	2QV	O-Ring for Quick Coupling
	TS = Polyester Screen		100 = 10um	030 = 3.0	120 = 1.20		180 = 18	550 = 55	3H = 5/16-3/8" Hose Barb	3H	Blank = O-ring Silicon (Standard)
	UE = Polyethylene	Polypro Screen (PS)	200 = 20um	050 = 5.0			200 = 20	730 = 73	3HE = 3/8" Hose Barb Elbow	3HE	
		10X = 100		100 = 10	Hi Performance PP Media (HP)		250 = 25	Polyethylene (UE)	3N = 3/8" MNPT	3N	-OE = O-ring EPDM
		15X = 150		200 = 20		Nylon Screen (NS)	370 = 37		3NF = 3/8" FNPT	3NF	-ON = O-ring Nitrile
		20X = 200		300 = 30			460 = 46	005 = 0.05	4H = 3/8"-1/2" Hose Barb	4H	-OV = O-ring Viton
		30X = 300		Best for Gas Applications	001 = 0.1		530 = 53	010 = 0.1	4HL = 1/4"-1/2" Hose Barb	4HL	
		50X = 500			002 = 0.2	100 = 10	610 = 61	020 = 0.20	4N = 1/2" MNPT	4N	
					003 = 0.3	200 = 20	740 = 74	045 = 0.45	FV = Female Ventilator	FV	
					006 = 0.6	400 = 40	10X = 105	100 = 1.0	LF = Female Luer Lock	LF	
					010 = 1.0	600 = 60	15X = 150		LM = Male Luer Lock	LM	
					030 = 3.0	10X = 100	20X = 200		MT = 1/2" Tri Clamp	MT	
					050 = 5.0	20X = 200	25X = 250		MV = Male Ventilator	MV	
					100 = 10.0	25X = 250			RM = 1/2" Tri Clamp with SS insert Ring	RM	
									TC = 1.5" Tri Clamp	TC	

Example – 1.2 Micron Nylon Filter Media with 1/2" tri clamp fittings would be D65RN120MTMT, For Same filter with Carbon Fiber D65RCMTMT

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