



PureFlo® Junior Capsules Compact Filtration

Small Disposable Process Filtration

PureFlo® Junior capsule filter assemblies are ready-to-use filters that offer high flows, increased throughputs, high strength, all with the convenience and cleanliness of a disposable and easy-to-install filter assembly in a small package. Designed for small pre-filtration, clarification, and final filtration, in pharmaceutical, biotechnology, food and beverage, medical, chemical, and DI water applications.

PureFlo® Junior capsule assemblies are available with a wide range of hydrophilic and hydrophobic filter medias and pore sizes for liquid, gas, and venting applications. Process engineers can choose from 14 filtration medias to create any combination of **integrated** filtration. These will allow the disposable processing to become truly flexible, clean, and optimal. Also available with no media.

They can be built with several configurations, with 13 inlet and 15 outlet fitting connections that can be mixed and matched. The filtration shell is an all-polypropylene construction that provides excellent chemical compatibility with low extractables. The shell and supports can also be constructed in nylon, polyethylene, or gamma stabilized PP shells for additional compatibility. No adhesives or binders are used in the encapsulation process.



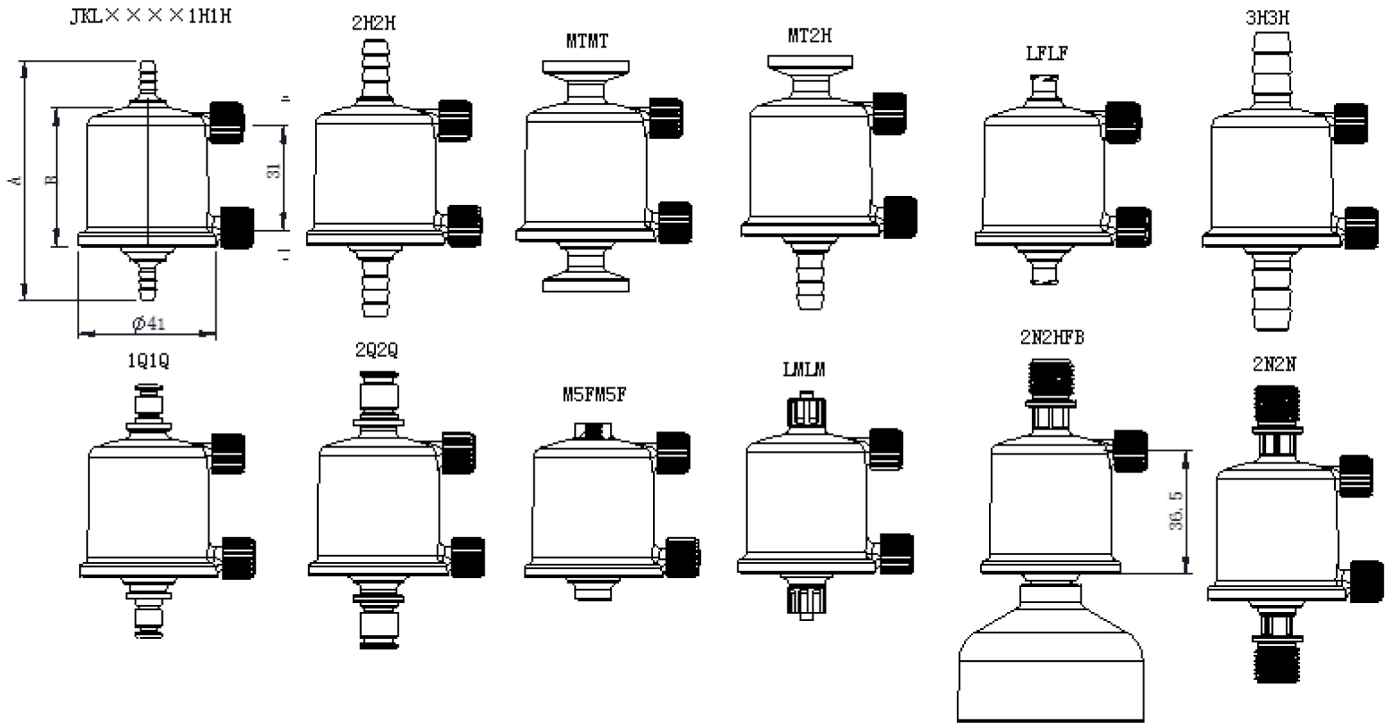
Applications	
Clarification	Water & Wine
Hard Particle	Food & Beverages
Cell Removal	Pharmaceuticals
Chemicals	Biologics
Inks, Dyes	Oils, Waters
Cosmetics	Diagnostics

Specifications

Materials of Construction:	Media: Charged Nylon, Depth PP, Polyethylene, PTFE, Glass Fiber, PP Membrane, Nylon, Nylon Screen, PP media, PES, and Polyester Screen Media Supports: Media Dependant Shell, Cage, Core, End Caps: Polypropylene, Nylon, or HDPE Sealing: Thermally bonded
Fitting Connections:	Five Fittings - See Ordering Guide for availability. (Custom adaptors available upon request)
Nominal Dimensions:	Lengths: 1.6" (41mm) without fittings Diameter: 1.6" (41mm)
Effective Filtration Area:	260cm ² for single layer membrane, 230cm ² for double layer membrane 200cm ² for Depth and Screen Media
Available Ratings:	0.04um - 200.0um (Dependent on Media)
Operating Conditions:	Maximum Operating pressure: Liquid: 5.5 bar (80psi) at 72°F/22°C Gas: 4.1 bar (60psi) at 72°F/22°C Minimum Burst Pressure: 8.3 bar (120psi) at 72°F/22°C Maximum Forward Differential Pressure: 5 bar (72psi) at 72°F/22°C Maximum Reverse Differential Pressure: 2.1 bar (30psi) at 72°F/22°C Maximum Operating Temperature: PP & Gamma PP: 176°F/80°C HDPE: 140°F/60°C
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 Plastics. (Except Black PP)



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Code name	Inlet/Outlet	Vent/Drain	Size (±1.5mm)	
			A	B
JKL x x x x 1H1H	1/8" Hose barbs	Female Luer Lock	71	41
JKL x x x x 2H2H	1/4" Hose barbs	Female Luer Lock	82	41
JKL x x x x MTMT	0.5" Tri clamps	Female Luer Lock	69	41
JKL x x x x MT2H	0.5" Tri clamps/1/4" Hose barbs	Female Luer Lock	75	41
JKL x x x x LFLF	Luer Lock Female	Female Luer Lock	62	41
JKL x x x x 3H3H	3/8" Hose barbs	Female Luer Lock	88	41
JKL x x x x 1Q1Q	1/4" Male Quick Coupling	Female Luer Lock	75	41
JKL x x x x 2Q2Q	1/8" Male Quick Coupling	Female Luer Lock	82	41
JKL x x x x M5FMSF	M5	Female Luer Lock	53	41
JKL x x x x LMLM	Luer Lock Male	Female Luer Lock	68	41
JKL x x x x 2N2HFB	1/4"NPT MAIL/1/4" Hose barbs	Female Luer Lock	108	41
JKL x x x x 2N2N	1/4"NPT MAIL/1/4" NPT MAIL	Female Luer Lock	88	41

Specifications (cont.)

Autoclavable & Sanitizable: Polypropylene and Nylon shell capsules can be autoclaved 25 times at 257°F/125°C for 30 minutes or chemically sanitized in situ using common sanitizing agents or hot water at 194°F/90°C for a limited time (dependent on time and temperature). Capsules must not be in situ steam-sterilized. Polyethylene shell capsules can not be autoclaved.

Bacterial Endotoxin:

Effluent is non-pyrogenic per USP Bacterial Endotoxin (0.25 EU/ml), determined using Limulus Amebocyte Lysate (LAL) Test.



PureFlo® Junior Capsules



PureFlo® Junior Filter Capsule Ordering Guide

PureFlo Junior Capsule Filters	Filter Media	Pore Size (Micron)	Effective Filtration Area	Inlet Fitting	Outlet Fitting	Options	
JKL = Capsule filter PP parts Standard grade JNL = Capsule filter Nylon parts JKP = Capsule Filter Pharma grade (JKP For PTFE, PE and PES Media only)	* = Empty Shell C = Carbon Fiber CN = Charged Nylon F = PTFE G = Glass Fiber HF = Hydrophilic PTFE HP = Hi Performance PP Media N = Nylon NG = Natural Glass NS = Nylon Screen P = PolyPro Media PS = PolyPro Screen S = PES TS = Polyester Screen UE = Polyethylene	Pick From Pore Size Table	Blank = Standard = 200-260cm ² Media Dependent B = 150cm ²	1H 1Q 2H 2N 2NS 2NO 2Q 2QP 3H M5F LF LM MT	1H = 1/8" Hose Barb 1Q = 1/8" Male Quick Coupling 2H = 1/4" Hose barbs 2H -FB = 1/4" Hose barbs with Filling Bell 2H -FC = 1/4" Hose barbs with Filling Bell with Cap 2N = 1/4" MNPT 2N = 1/4" straight thread 2NO = 1/4" straight thread with o-ring 2Q = 1/4" Male Quick Coupling for Metal latch 2QP = 1/4" Male Quick Coupling for plastic latch 3H = 3/8" Hose Barb M5F = M5 Female thread LF = Female Luer Lock LM = Male Luer Lock MT = 1/2" Tri clamps	Shell Material Blank = Polypro construction -E = Polyethylene shell -GP = Gamma stable polypropylene shell -NY = Nylon Shell -BLK = Black PP Shell Sterilization -ETO = Ethylene oxide sterilization Vent & Drain -N = No vent or drain fittings -NI = No vent or drain inlet fitting -NO = No vent or drain Outlet fitting	O-Rings -OE = O-ring EPDM -ON = O-ring Nitrile -OV = O-ring Viton Blank = O-ring Silicon (Standard) PreFilter (add before Filter Media in part#) G(pore Size) = Glass Fiber PreFilter P(pore Size) = PolyPro Media PreFilter S(pore Size) = PES PreFilter Biological Grade -B = Biological Reduction Grade
	Example - JKL Series, PTFE, 1.0um, no prefilter, 1/4" Hose Barb I/O is JKLF1002H2H Example - JKP Series, Pharma Grade, PES 0.8um prefilter, PES 0.2um, 1/4" Hose Barb I/O is JKPS0800202H2H						

Carbon Fiber (C)	Charged Nylon (CN)	Pore size (Micron)											
		PTFE Phillic (HF) & Phobic (F)	Glass Fiber (G)	Hi Performance PP Media (HP)	Polypro Membrane (M)	Nylon (N)	Natural Glass Fiber (NG)	Nylon Screen (NS)	Polypro Media (P)	Polypro Screen (PS)	PES (S)	Polyester Screen (TS)	Polyethylene e (UE)
Leave Pore Size Blank	005 = 0.05	H = HEPA	U = ULPA	001 = 0.1	010 = 0.1	005 = 0.05	005 = 0.5	070 = 7	H = HEPA	10X = 100	005 = 0.05	050 = 5	H = HEPA
	010 = 0.10	010 = 0.10	H = HEPA	002 = 0.2	020 = 0.2	010 = 0.10	010 = 1.0	100 = 10	003 = 0.3	15X = 150	010 = 0.1	070 = 7	010 = 0.1
	020 = 0.20	020 = 0.20	002 = 0.2	003 = 0.3	020 = 0.20	020 = 0.20	020 = 0.20	200 = 20	006 = 0.6	20X = 200	020 = 0.2	100 = 10	020 = 0.20
	045 = 0.45	045 = 0.45	004 = 0.45	006 = 0.6	045 = 0.45	045 = 0.45	045 = 0.45	300 = 30	030 = 3.0	30X = 300	045 = 0.45	200 = 20	045 = 0.45
	065 = 0.65	100 = 1.0	005 = 0.5	010 = 1.0	065 = 0.65	065 = 0.65	065 = 0.65	400 = 40	030 = 3.0	50X = 500	065 = 0.65	300 = 30	100 = 1.0
	080 = 0.80	300 = 3.0	010 = 1.0	030 = 3.0	080 = 0.80	080 = 0.80	080 = 0.80	600 = 60	050 = 5.0		080 = 0.8	400 = 40	
	120 = 1.20	500 = 5.0	030 = 3.0	050 = 5.0	120 = 1.20	120 = 1.20	120 = 1.20	10X = 100	070 = 7.0		120 = 1.2	550 = 55	
		999 = 10	050 = 5.0	100 = 10.0				25X = 250	100 = 10			730 = 73	
			100 = 10					30X = 300	200 = 20				
			200 = 20						300 = 30				
			300 = 30						400 = 40				
				Best for Gas Applications					500 = 50				
									700 = 70				
									10X = 100				
									15X = 150				
												No "B" Size	



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