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 11 filtration medias to create any combination of integrated filtration. These will allow the disposable processing to become truly flexible, clean, and optimal.

They can be built with several configurations, with five inlet and 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, binders, or surfactants are used in the manufacturing 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: Polypropylene, Polyester, Nylon, or HDPE 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 77°F/25°C Gas: 4.1 bar (60psi) at 77°F/25°C Minimum Burst Pressure: 8.3 bar (120psi) at 77°F/25°C Maximum Forward Differential Pressure: 5 bar (72psi) at 68°F/20°C Maximum Reverse Differential Pressure: 2.1 bar (30psi) at 68°F/20°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 Blk PP)

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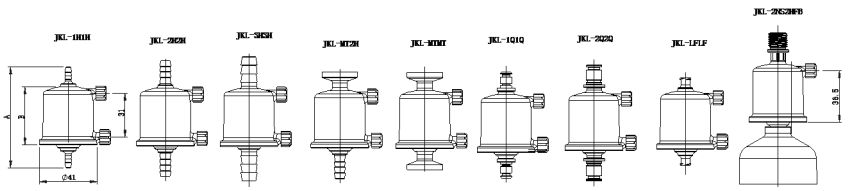

Code name	Inlet/Outlet	Vent/Drain	Size(±1.5)	
			A	B
JKL-1H1H	1/8" Hose barbs	Female Luer Lock	71	41
JKL-2H2H	1/4" Hose barbs	Female Luer Lock	82	41
JKL-MTMT	0.5" Tri clamps	Female Luer Lock	69	41
JKL-MT2H	0.5" Tri clamps/1/4" Hose barbs	Female Luer Lock	75	41
JKL-LFLF	Luer Lock Female	Female Luer Lock	62	41
JKL-3H3H	3/8" Hose barbs	Female Luer Lock	88	41
JKL-2NS2HFB	1/4"NPT MAIL/1/4" Hose barbs	Female Luer Lock	108	41
JKL-2Q2Q	1/4" Male Quick Compling	Female Luer Lock	82	41
JKL-1Q1Q	1/8" Male Quick Compling	Female Luer Lock	75	41

Specification (cont.)

Autoclavable & Sanitizable:

Capsules can be autoclaved once at 125°C for 60 minutes or chemically sanitized in situ using common sanitizing agents or hot water, at 85°C for 20 cycles for 30 min (dependent on time and temperature).

Bacterial Endotoxin:

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

PureFlo® Junior Filter Capsule Ordering Guide

PureFlo Junior Capsule Filters	PreFilter Filter Media	PreFilter Pore Size (Micron)	Final Filter Media	Pore Size (Micron)	Inlet Fitting	Outlet Fitting	Options
JKL = Capsule filter PP parts Standard grade JNL = Capsule filter Nylon parts JKP = Capsule Filter Pharma grade and PES Media only) MJ = Cartridge Filter, PP parts standard Grade	CN = Charged Nylon E = Polyethylene F = PTFE G = Glass Fiber M = PolyPro Mem N = Nylon NS = Nylon Screen P = PolyPro Media HF = Hydrophilic PTFE S = PES Blank = No Pre filter	Pick From Pore Size Table Blank = No Pre filter	CN = Charged Nylon DP = Depth PolyPro E = Polyethylene F = PTFE G = Glass Fiber M = PolyPro Mem N = Nylon NS = Nylon Screen P = PolyPro Media HF = Hydrophilic PTFE S = PES Blank = Same media as Prefilter	Pick From Pore Size Table	1H = 1/8" Hose Barb 1Q = 1/8" Male Quick Coupling 2H = 1/4" Hose barbs 2N = 1/4" MNPT 2NO = 1/4" MNPT w/O-Ring 2Q = 1/4" Male Quick Coupling for Metal latch 3H = 3/8" Hose Barb LF = Female Luer Lock MT = 1/2" Tri clamps Other Custom options are possible	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 2Q = 1/4" Male Quick Coupling for Metal latch 3H = 3/8" Hose Barb LF = Female Luer Lock MT = 1/2" Tri clamps Blank - for MJ Cartridge	-E = Polyethylene shell and HDPE media support for gamma sterilization -GP = Gamma stable polypropylene shell -N = No vent or drain fittings -NI = No vent or drain inlet fitting -NO = NO vent or drain outlet fitting -BLK = Black PP Shell -ETO = Ethylene oxide sterilization O-Ring for Quick Coupling Blank = O-Ring Silicon (Standard) -OE = O-Ring EPDM -ON = O-Ring Nitrile -OV = O-Ring Viton
Example - JKL Series, PTFE, 1.0um, no prefilter, 1/4" Hose Barb I/O is JKLF1002H2H							
Example - JKP Series, PES 0.8um prefilter, PES 0.2um, 1/4" Hose Barb I/O is JKPS0800202H2H							

Pore size (Micron)										
Charged Nylon (CN)	Depth PP (DP)	Polyethylene (E)	PTFE (F)	Glass Fiber (G)	Polypro Membrane (M)	Nylon (N)	Nylon Screen (NS)	Polypro Media (P)	Philic PTFE	PES (S)
005 = 0.05	002 = 0.2	020 = 0.20	010 = 0.1	005 = 0.5	010 = 0.1	005 = 0.05	100 = 10	003 = 0.3	Request	005 = 0.05
010 = 0.10	005 = 0.5	100 = 1.0	020 = 0.2	010 = 1.0	020 = 0.2	010 = 0.10	200 = 20	006 = 0.6		010 = 0.1
020 = 0.20	010 = 1.0	150 = 1.5	045 = 0.45	030 = 3.0		020 = 0.20	400 = 40	010 = 1.0		020 = 0.2
045 = 0.45	015 = 1.5	250 = 2.5	100 = 1.0	050 = 5.0		045 = 0.45	600 = 60	030 = 3.0		045 = 0.45
065 = 0.65	025 = 2.5		300 = 3.0	100 = 10.0		065 = 0.65	10X = 100	050 = 5.0		065 = 0.65
080 = 0.80	045 = 4.5		500 = 5.0	200 = 20.0		080 = 0.80	20X = 200	100 = 10.0		080 = 0.8
120 = 1.20	100 = 10.0		999 = 10.0	300 = 30.0		120 = 1.20		200 = 20.0		120 = 1.2
	200 = 20.0							300 = 30.0		
								500 = 50.0		
								700 = 70.0		

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