

PureFlo® Junior Cartridges Compact Filtration

Multi-Use Junior Cartridge

PureFlo® Junior Cartridges are ready-to-use filters that offer high flows, increased throughputs, and high strength, all with the convenience of a small package. Designed for small applications in pharmaceutical, biotechnology, food and beverage, medical, chemical, and DI water industries.

PureFlo® Junior Cartridges 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 18 filtration medias to meet their needs.

They can be built with several configurations, and used without a housing. The cage, core, and fitting are part of an all-polypropylene construction that provides excellent chemical compatibility with low levels of extractables. The supports can also be constructed in nylon, polyethylene, or gamma-stabilized polypropylene (PP) for additional compatibility. The filter is manufactured by thermal bonding. No adhesives are used in the bonding process.



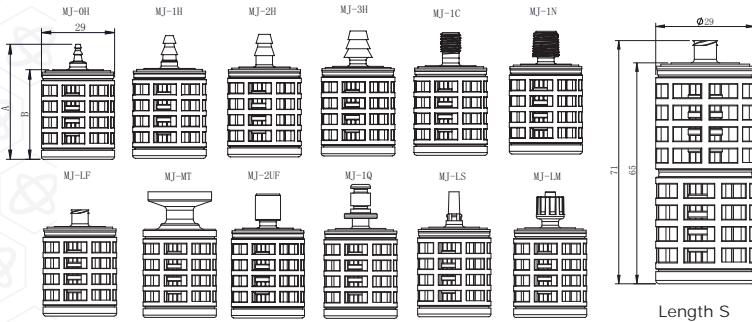
Applications

Clarification	Water & Wine
Hard Particle	Food & Beverages
Vacuum Pump	Pharmaceuticals
Chemicals	Biologics
Inks, Dyes	Tank Vent
Aerator	Vent

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:	12 Fittings - see ordering guide for availability. (Custom adaptors available upon request)
Nominal Dimensions:	Lengths: 1.5" (38 mm) without fittings, 2.5" (63.5 mm) without fittings Diameter: 1.14" (29 mm)
Effective Filtration Area:	260 cm ² for single layer membrane, 230 cm ² for double layer membrane 200 cm ² for Depth and Screen Media
Available Ratings:	0.04 µm - 200.0 µm (Dependent on Media)
Operating Conditions:	Maximum Operating pressure: 5 bar (72.5 psi) at 22°C Maximum Operating Temperature: 80°C
Regulatory Compliance:	The filters are constructed with polypropylene resins and filtration media in compliance with 21 CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological Test for Plastics.

PureFlo® Junior Cartridges



Code name	Outlet Fitting	H Size(1.5"±1)			S Size(2.5"±1)		
		A	B	C	A	B	C
MJ-OH	1/16"-3/32" Hose Barb	45.5	35.5	Ø29	74.5	64.5	Ø29
MJ-1H	1/8"-3/16" Hose Barb	48.5	35.5	Ø29	77.5	64.5	Ø29
MJ-2H	3/16"-1/4" Hose Barb	48.5	35.5	Ø29	77.5	64.5	Ø29
MJ-3H	1/4"-3/8" Hose Barb	49.5	35.5	Ø29	78.5	64.5	Ø29
MJ-1C	1/8" Compression	48.5	35.5	Ø29	77.5	64.5	Ø29
MJ-1N	1/8" MNPT	48.5	35.5	Ø29	77.5	64.5	Ø29
MJ-LF	Luer Lock Female	42	35.5	Ø29	71	64.5	Ø29
MJ-MT	1/2" Tri clamps	50	35.5	Ø29	79	64.5	Ø29
MJ-2UF	1/4"-28 UNF 2B	49	35.5	Ø29	78	64.5	Ø29
MJ-1Q	1/8" Male Quick Coupling	53	35.5	Ø29	82	64.5	Ø29
MJ-LS	Luer Lock Male Slip	49.5	35.5	Ø29	78.5	64.5	Ø29
MJ-LM	Luer Lock Male	50	35.5	Ø29	79	64.5	Ø29

Length H

Length S

PureFlo® Junior Cartridge Ordering Guide

PureFlo Junior Cartridge	Final Filter Media	Pore Size (Micron)	Length	End Modification	Options																								
MJ = Junior Cartridge Filter, PP parts standard Grade	A = Cellulose Acetate C = Carbon Fiber CN = Charged Nylon DP = Depth Polypropylene F = PTFE G = Glass Fiber HF = Philic PTFE HP = High Performance Polypropylene Media M = Polypropylene Membrane N = Nylon Membrane NG = Natural Glass Fiber Media NN = Nylon Non-Woven Media NS = Nylon Screen P = Polypropylene Media S = Polyethersulfone TS = Polyester Screen UE = Polyethylene ZS = Extended Life Polyethersulfone	Pick From Pore Size Table	H = 1.5" S = 2.5"	OH = 1/16-3/32" Hose Barb 1C = 1/8" Compression 1H = 1/8-3/16" Hose Barb 1N = 1/8" NPTM 1Q = 1/8" Male Quick Coupling 2H = 3/16-1/4" Hose Barb 2UF = 1/4-28 thread Female 3H = 1/4-3/8" Hose Barb LF = Luer Lock Female LM = Luer Lock Male LS = Male Luer Slip MT = 1/2" Tri Clamp	<table border="1"> <thead> <tr> <th>Grade</th> <th>O-Rings</th> </tr> </thead> <tbody> <tr> <td>Blank = Standard Grade</td> <td>Blank = O-ring Silicone (Standard)</td> </tr> <tr> <td>-PH = Pharma Grade</td> <td>-OE = O-ring EPDM</td> </tr> <tr> <td></td> <td>-ON = O-ring Nitrile</td> </tr> <tr> <td></td> <td>-OV = O-ring Viton</td> </tr> <tr> <th>Core/ Cage Material</th> <td></td> </tr> <tr> <td>Blank = Polypro construction</td> <td>Prefilter (add before Filter Media in part#)</td> </tr> <tr> <td>-E = Polyethylene construction</td> <td>G(pore Size) = Glass Fiber Prefilter</td> </tr> <tr> <td>-GP = Gamma stable polypropylene construction</td> <td>P(pore Size) = PolyPro Media Prefilter</td> </tr> <tr> <td>-NY = Nylon construction</td> <td>S(pore Size) = PES Prefilter</td> </tr> <tr> <th>Sterilization</th> <td></td> </tr> <tr> <td>-ETO = Ethylene oxide sterilization</td> <td></td> </tr> </tbody> </table>	Grade	O-Rings	Blank = Standard Grade	Blank = O-ring Silicone (Standard)	-PH = Pharma Grade	-OE = O-ring EPDM		-ON = O-ring Nitrile		-OV = O-ring Viton	Core/ Cage Material		Blank = Polypro construction	Prefilter (add before Filter Media in part#)	-E = Polyethylene construction	G(pore Size) = Glass Fiber Prefilter	-GP = Gamma stable polypropylene construction	P(pore Size) = PolyPro Media Prefilter	-NY = Nylon construction	S(pore Size) = PES Prefilter	Sterilization		-ETO = Ethylene oxide sterilization	
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Example - MJ Series, PTFE, 1.0um, no prefilter, 1/4" Hose Barb I/O is MJF100H2H																													
Quick Couplings are molded, compatible with CPC (Colder), LinkTech and others.																													

Cellulose Acetate (A)	Carbon Fiber (C)	Charged Nylon (CN)	Depth PP (DP)	PTFE (F)	Glass Fiber (G) Best for Gas Applications	Philic PTFE (HF)	High Performance Polypropylene Media (HP)	Polypro Membrane (M)	Nylon (N)	Natural Glass Fiber (NG)	Nylon Non Woven Media (NN)	Nylon Screen (NS)	Polypro Media (P)	PES (S)	Polyester Screen (TS)	Polyethylene (UE)	Extended Life PES (ZS)
020 = 0.20 045 = 0.45 065 = 0.65 080 = 0.80 120 = 1.20	Leave Pore Size Blank for Carbon Fiber	005 = 0.05 010 = 0.10 020 = 0.20 045 = 0.45 065 = 0.65 080 = 0.80 120 = 1.20	002 = 0.2 005 = 0.5 010 = 1.0 015 = 1.5 025 = 2.5 045 = 4.5 100 = 10.0 200 = 20.0	010 = 0.1 020 = 0.2 045 = 0.45 100 = 1.0 300 = 3.0 500 = 5.0 999 = 10.0	U = ULPA H = HEPA 002 = 0.2 004 = 0.45 005 = 0.5 010 = 1.0 030 = 3.0 050 = 5.0 100 = 10 200 = 20 300 = 30	010 = 0.1 020 = 0.2 045 = 0.45 100 = 1.0 300 = 3.0 500 = 5.0 999 = 10.0	001 = 0.1 002 = 0.2 003 = 0.3 006 = 0.6 010 = 1.0 050 = 5.0 100 = 10.0	010 = 0.1 020 = 0.2 045 = 0.45 100 = 1.0 300 = 3.0 500 = 5.0 100 = 10.0	005 = 0.05 010 = 0.10 020 = 0.20 045 = 0.45 065 = 0.65 080 = 0.80 120 = 1.20	005 = 0.5 010 = 1.0 030 = 3.0 050 = 5.0 100 = 10 200 = 20 300 = 30 500 = 50.0 700 = 70.0	010 = 1 030 = 3.0 050 = 5.0 100 = 10 200 = 20 300 = 30 500 = 50.0 700 = 70.0	070 = 7 100 = 10 200 = 20 400 = 40 600 = 60 10X = 100 20X = 200	003 = 0.3 006 = 0.6 010 = 1.0 020 = 0.2 045 = 0.45 065 = 0.65 080 = 0.8 120 = 1.2	050 = 5 100 = 10 200 = 20 300 = 30 500 = 50.0 730 = 73	010 = 0.1 020 = 0.20 045 = 0.45 100 = 1.0	010 = 0.10 020 = 0.20 045 = 0.45	

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