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,

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

Specifications

Materials of Construction: *(Standard Option)*	Media:	Charged Nylon, Depth PP, Polyethylene, PTFE, Glass Fiber, PP Membrane, Nylon, Nylon Screen, PP media, PES, and Polyester Screen
	Media Supports:	Media dependent
	Cage, Core, End Caps:	PP, Gama Stable PP, Polyethylene, and Nylon
	O-Rings:	Silicone
	Sealing:	Thermal End Capping
Fitting Connections:	See ordering guide for the availability. (Custom adaptors available upon request)	
Nominal Dimensions:	Length: 1.6” (41 mm) - *without fittings* Diameter: 1.6” (41 mm)	
Effective Filtration Area: *(Single Layer/PP Construction)*	Media dependent.	
Operating Conditions:	Maximum Operating Pressure:	Liquid: 5.5 bar (80 psi) at 72 °F/22 °C Gas: 4.1 bar (60 psi) at 72 °F/22 °C
	Maximum Forward Differential Pressure:	5 bar (72 psi) at 72 °F/22 °C
	Maximum Reverse Differential Pressure:	2.1 bar (30 psi) at 72 °F/22 °C
	Minimum Burst Pressure:	8.3 bar (120 psi) at 72 °F/22 °C
	Maximum Operating Temperature:	PP & Gamma PP: 176 °F/80 °C HDPE: 140 °F/60 °C

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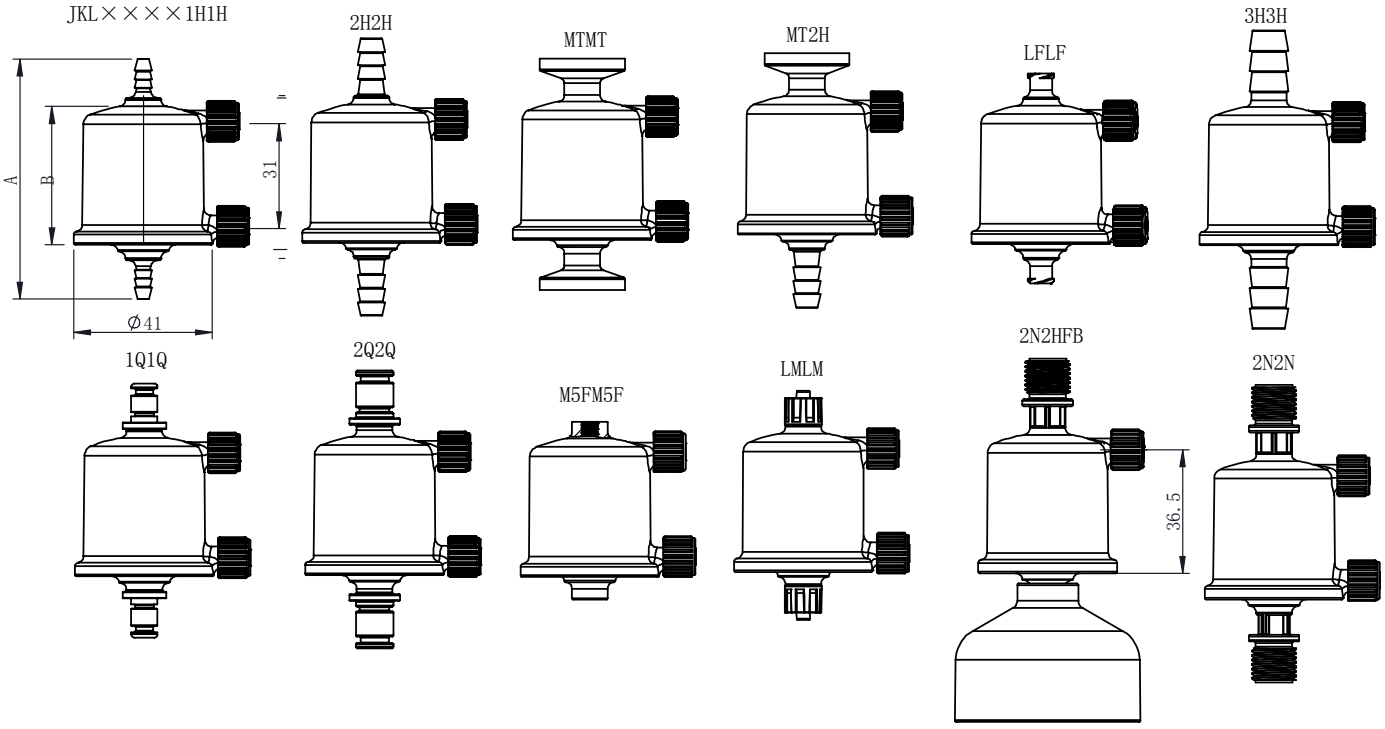

Code name	Inlet/Outlet	Vent/Drain	Size(±1.5mm)	
			A	B
JKL××××1H1H	1/8″ Hose barbs	Female Luer Lock	71	41
JKL××××2H2H	1/4″ Hose barbs	Female Luer Lock	82	41
JKL××××MTMT	0.5″ Tri clamps	Female Luer Lock	69	41
JKL××××MT2H	0.5″ Tri clamps/1/4″ Hose barbs	Female Luer Lock	75	41
JKL××××LFLF	Luer Lock Female	Female Luer Lock	62	41
JKL××××3H3H	3/8″ Hose barbs	Female Luer Lock	88	41
JKL××××1Q1Q	1/4″ Male Quick Coupling	Female Luer Lock	75	41
JKL××××2Q2Q	1/8″ Male Quick Coupling	Female Luer Lock	82	41
JKL××××M5FM5F	M5	Female Luer Lock	53	41
JKL××××LMLM	Luer Lock Male	Female Luer Lock	68	41
JKL××××2N2HFB	1/4″NPT MAIL/1/4″ Hose barbs	Female Luer Lock	108	41
JKL××××2N2N	1/4″NPT MAIL/1/4″ NPT MAIL	Female Luer Lock	88	41

ZenPure

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Table I: Pore Sizes

Carbon Fiber (C)	Charged Nylon (CN)	PTFE (F)	Glass Fiber (G)	Philic PTFE (HF)	Hi Performance PP Media	Nylon (N)	Natural Glass Fiber (NG)
Leave pore size blank for Carbon Fiber	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 (0.01 µm for gas) 045 = 0.45 µm 100 = 1.0 µm 300 = 3.0 µm 500 = 5.0 µm 999 = 10 µm	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 *Best for Gas Applications*	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	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	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 = 0.5 µm 010 = 1.0 µm 030 = 3.0 µm 050 = 5.0 µm

Nylon Non-Woven Media (NN)	Nylon Screen (NS)	PP Media (P)	Polypro Screen (PS)	PES (S)	Polyester Screen (TS)	Polyethylene (UE)
010 = 1 µm 030 = 3 µm 050 = 5 µm 100 = 10 µm 200 = 20 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	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	10X = 100 µm 15X = 150 µm 20X = 200 µm 30X = 300 µm 50X = 500 µm	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	050 = 5 µm 070 = 7 µm 100 = 10 µm 200 = 20 µm 300 = 30 µm 400 = 40 µm 550 = 55 µm 730 = 73 µm	010 = 0.1 µm 020 = 0.2 µm 045 = 0.45 µm 100 = 1.0 µm

PureFlo® Junior Filter Capsule Ordering Guide

PureFlo Junior Capsule Filters	Filter Media	Pore Size	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 **NN** = Nylon Non-Woven **NS** = Nylon Screen **P** = PolyPro Media **PS** = PolyPro Screen **S** = PES **TS** = Polyester Screen **UE** = Polyethylene	***See Table: I for pore sizes**	**Blank** = Standard - 200-260 cm² *(media dependent)* **B** = 150 cm²	**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 fell **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	**(1) Prefilter (Add Before Filter Media In Part#)** **G (pore size)** = Glass fiber prefilter **P (pore size)** = PolyPro media prefilter **S (pore size)** = PES prefilter **(3) 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) Vent & Drain** **-N =** No vent or drain fittings **-NI** = No vent or drain inlet fitting **-NO** = No vent or drain outlet fitting **(4) O-Ring** **Blank** = O-ring silicone (standard) **-OE** = O-ring EPDM **-ON** = O-ring Nitrile **-OV** = O-ring Viton **(5) Sterilization** **-ETO** = Ethylene oxide sterilization

Example - JKL Series, N 0.1 µm no prefilter, 1/4" hose barb I/O is **JKLN0102H2H**

*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.

Your Local Distributor:

ZenPure

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TÜV ISO 13485