



PureFlo® PE Capsules

PureFlo® PE capsules are gamma-irradiatable, easy-to-use filtration units, ideally suited for integration into single-use sterile assemblies. The hydrophobic polyethylene (PE) membrane demonstrates exceptional flow performance in venting and compressed gas applications.

Superior Flow Performance

PureFlo® PE capsules incorporate a sterilizing grade 0.2 µm membrane that exhibits a lower pressure drop compared to other hydrophobic membranes such as PVDF. The superior flow performance results in a light-weight, compact filter designed to promote optimal process efficiency.

Engineered Filtration Solutions

To meet the needs of an innovative and rapidly growing industry, and in addition to the standard product offering, Saint-Gobain offers a collaborative service with a dedicated team of engineers and subject matter experts to develop specialized filtration solutions that are tailored to achieve optimal performance. Please contact us for more information.

Features / Benefits



Inherently
Hydrophobic



Gamma-
Irradiatable



High Flow
Rate



EMA/410/01 Rev. 3
Compliant



Sterilizing
Grade



100% Integrity
Tested

Typical Applications

- Bioreactor Vent
- Moisture Barrier
- Compressed Gas
- Fermentation Tank Vent
- Bottle or Carboy Vent

Technical Summary

Materials

Membrane	Polyethylene (PE)
Support Material	Polyethylene (PE)
Molded Components (shell)	Polyethylene (PE)
O-rings (when present)	Silicone

Membrane Configurations

Membrane	Description	Minimum Bubble Point (at 22 °C)
UEO20	0.2 µm	1.2 bar 17.4 psi (in 60% isopropyl alcohol, 40% water)

Measurements (nominal)

Size	Outside Diameter (mm)	Body Length Without Fittings (mm)	Filtration Area (cm ²)
Junior (JKP)	41	4.1	130
Mini (MKP)	59	60	400
Mid (SKV)	71.5	52 - 257	550 - 3800
Full (L)	90	279 - 1007	5300 - 21000

Recommended Operating Conditions (for untreated/non-sterile product)

Maximum Temperature	60 °C
Maximum Inlet Pressure (at 22 °C)	4.1 bar 59.5 psi
Maximum Forward Differential Pressure (at 22 °C)	5 bar 72.5 psi
Maximum Reverse Differential Pressure (at 22 °C)	2.1 bar 30.45 psi

Sterilization

Gamma	Up to 50 kGy
Ethylene Oxide	Testing is recommended.

Shelf Life

Non-sterile products have a shelf life of 3 years after the date of manufacture.

Traceability

For traceability and easy identification:

- A Certificate of Conformance is provided in each box.
- Each filter bag and box are labeled with the product part number, lot number, and identifying characteristics.
- Each Junior, Mini, Mid, and Full size capsule is engraved and labeled with the product part number, lot number, and identifying characteristics.

Regulatory & Stewardship

Saint-Gobain's PureFlo® PE Junior, Mini, Mid and Full Size Capsules were designed, manufactured, and qualified with an ISO 13485 certified Quality Management System. For more information, please refer to the product Validation Guide and Regulatory Information Overview (RIO).

Category	Standard or Reference Test
Cleanliness	USP <85> Bacterial Endotoxin Test
Biocompatibility	USP <88> Class VI, and/or USP <87>, and/or ISO 10993-5 USP 21 CFR 177 FDA Indirect Food Additive
Bacterial Retention	Quantitative retention of 10 ⁷ CFU/cm ² <i>Brevundimonas diminuta</i> per ASTM methodology
Animal-derived Components	EMA/410/01 Rev. 3
RoHS	Restriction of Hazardous Substances (RoHS 3) Directive 2015/863
REACH	REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) Article 57, Regulation No. 1907/2006)

Lot Release Criteria

Each PureFlo® PE Junior, Mini, Mid and Full Size Capsules product lot is sampled and tested for conformity to the following criteria:

Criteria	Description
Integrity (membrane)	Each filter (100%) in a lot is integrity tested during the manufacturing process.
Integrity (housing)	A representative sample of the lot is tested to meet published burst pressure values.
USP Bacterial Endotoxins	A representative sample from the lot is tested to confirm that an aqueous extraction of the product contains <0.25 EU/mL as determined by the Limulus Amebocyte Lysate (LAL) Test.

PureFlo® PE Junior Capsules

Saint-Gobain
Life Sciences –
Bioprocess Solutions



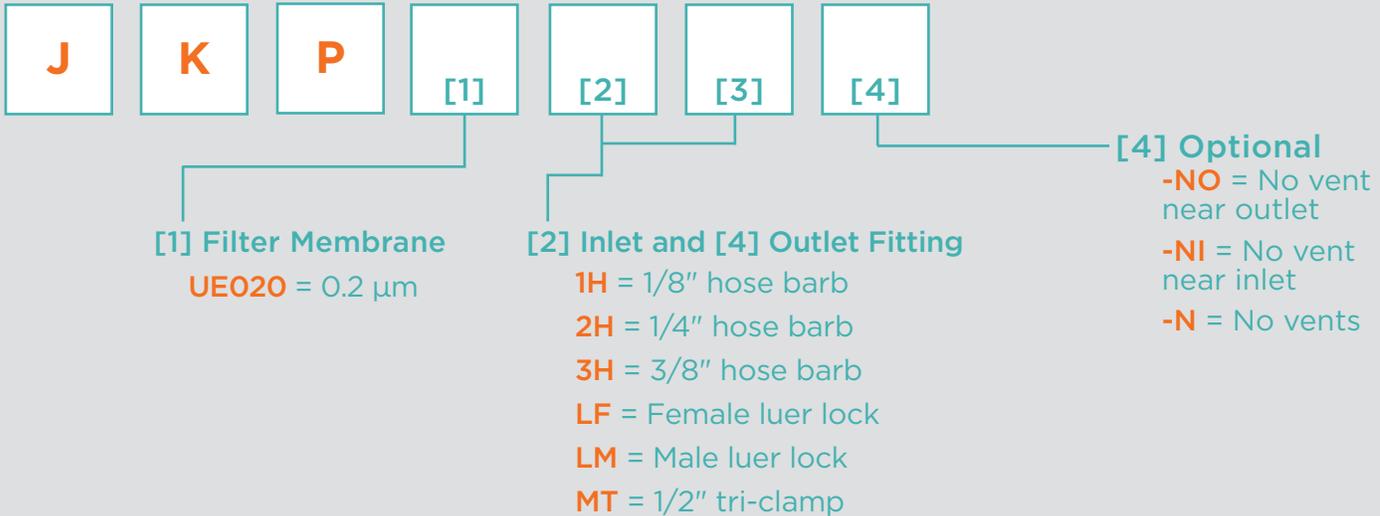
PRODUCT TECH SNAPSHOT: (Values are nominal. Please see Technical Summary for additional information)

Body Diameter (mm)	Body Length Without Fittings (mm)	Filtration Area (cm ²)	Typical Flow Performance*
41	41	130	JKPUE0202H2H – 0.2 psid at 4 LPM

1 bar = 14.5038 psi

Ordering Guide

PART NUMBER:



Customer Service

50 W. Watkins Mill Rd.
Gaithersburg, MD 20878
Tel: (301) 407-2720
Fax: (240) 566-5774

Email: info.ft@saint-gobain.com

www.biopharm.saint-gobain.com

Don't see what you're looking for?
Please let us know! We're here to help.

* IMPORTANT: The flow performance of a filter capsule is dependent on several variables including the process fluid characteristics, operating conditions, filter surface area, pore size and fittings. The above values are approximate for example part numbers and provided for reference only. Actual values may vary. For application guidance and flow performance information for a specific part number please contact your local Saint-Gobain representative.

PureFlo® PE Mini Capsules

Saint-Gobain
Life Sciences –
Bioprocess Solutions



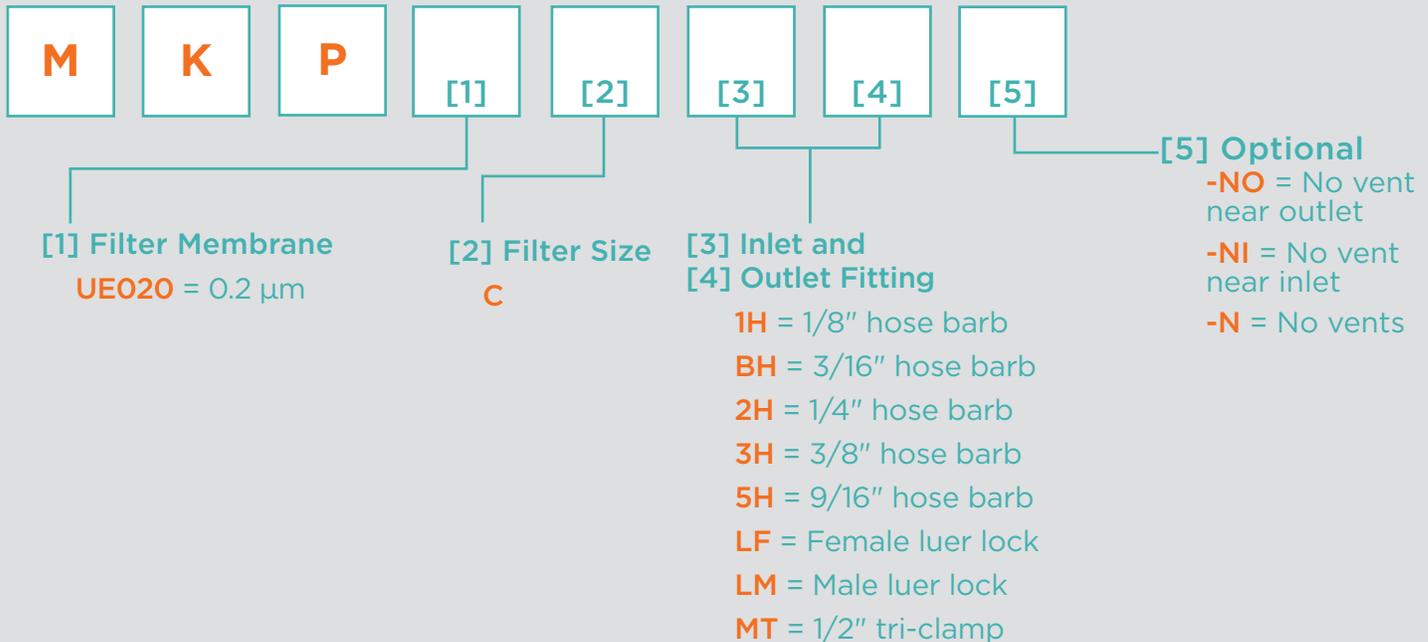
PRODUCT TECH SNAPSHOT: (Values are nominal. Please see Technical Summary for additional information)

Size	Body Diameter (mm)	Body Length Without Fittings (mm)	Filtration Area (cm ²)	Typical Flow Performance*
C	59	60	400	MKPUE020C3H3H -0.1 psid at 7 LPM

1 bar =14.5038 psi

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PureFlo® PE Mini Capsules

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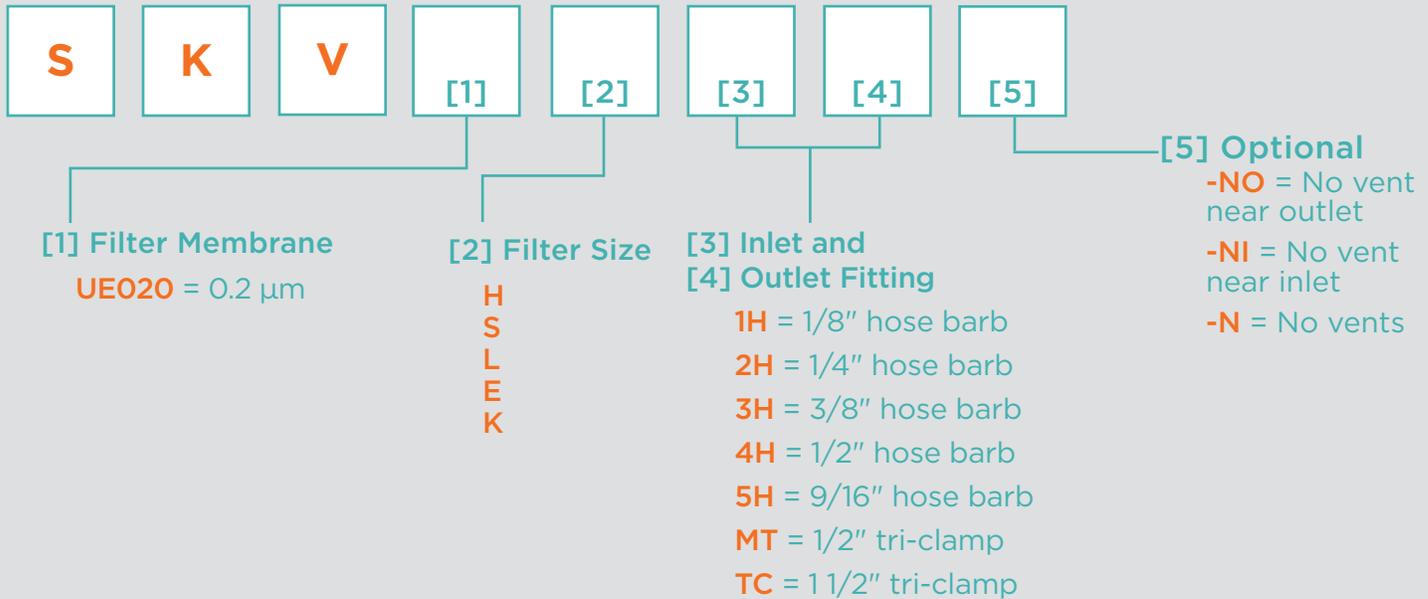
PRODUCT TECH SNAPSHOT: (Values are nominal. Please see Technical Summary for additional information)

Size	Body Diameter (mm)	Body Length Without Fittings (mm)	Filtration Area (cm ²)
H	71.5	56	550
S	71.5	84	990
L	71.5	141	1900
E	71.5	206	2900
K	71.5	260	3800

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PureFlo® PE ZenCap® Full Size Capsules

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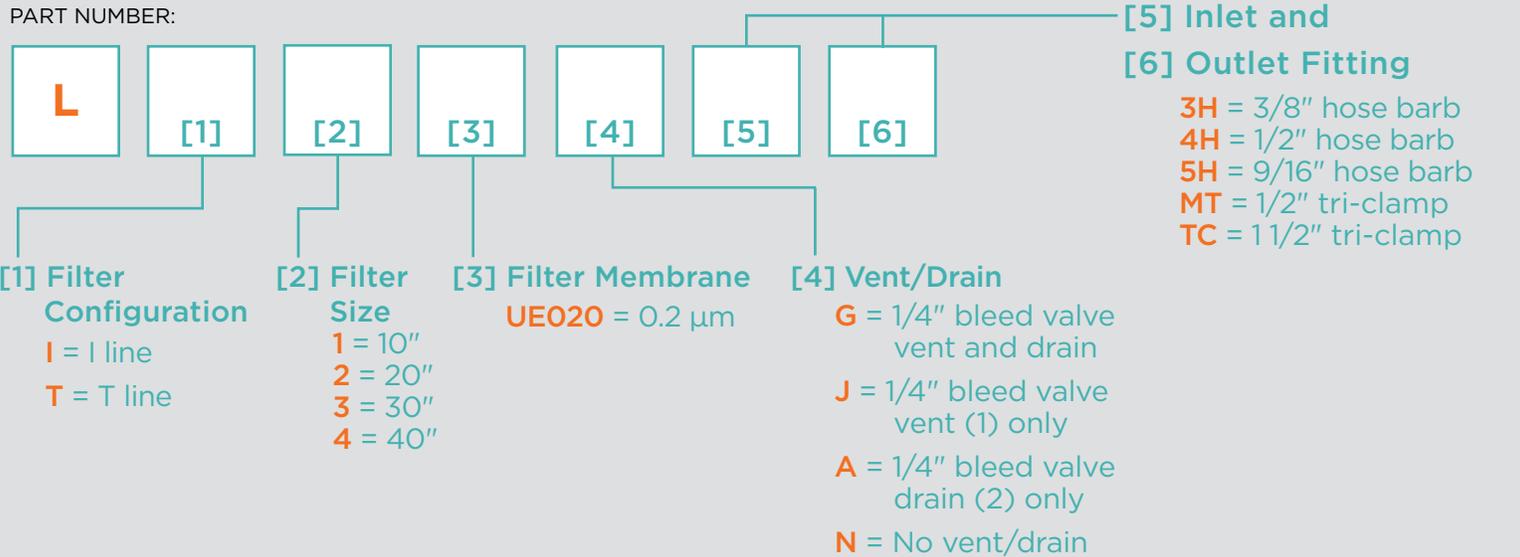
PRODUCT TECH SNAPSHOT: (Values are nominal. Please see Technical Summary for additional information)

Size	Body Diameter (mm)	Body Length Without Fittings (mm)	Filtration Area (m ²)
1	90	279	0.53
2	90	522	1.1
3	90	765	1.6
4	90	1007	2.1

1 bar = 14.5038 psi

Ordering Guide

PART NUMBER:



(1) For I-line capsules, this is the valve closest to the inlet. For T-line capsules, this is the valve at the 'top' of the capsule and farthest from the inlet/outlet fittings.

(2) For T-line capsules, this is the valve closest to the outlet. For T-line capsules this is the valve closest to the inlet/outlet fittings and is at the 'bottom' of the capsule)



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IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Life Sciences products for all intended uses and that the materials to be used comply with all applicable medical regulatory requirements. Saint-Gobain Life Sciences assumes no responsibility for any product failures that occur due to misuse of the materials it provides arising out of the design, fabrication or application of the products into which the materials are incorporated.

WARRANTY: For a period of 12 months from the date of first sale, Saint-Gobain Life Sciences warrants this product to be free of defects in materials and workmanship. Our only obligation will be to replace any portion proving defective, or at our option, to refund the purchase price thereof.

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