Saint-Gobain
Life Sciences –
Bioprocess Solutions

PureFlo® PE
Disc Capsules

Features / Benefits

- Inherently Hydrophobic
- Gamma-Irradiatable
- High Flow Rate
- Animal-Derived Component Free
- Sterilizing Grade
- 100% Integrity Tested

Typical Applications

- Single-use Assemblies
- PUPSIT Assemblies
- Bioreactor Vent
- Compressed Gas
- Bottle or Carboy Vent
- Moisture Barrier

Breakthrough Efficiency. Sustainabile Performance. Seamless Fit.

PureFlo® PE disc capsules deliver exceptional airflow in a compact, gamma-stable format, ideal for single-use sterile assemblies. Powered by a hydrophobic polyethylene membrane, they outperform traditional vent filters with faster flow, reduced footprint, and fluoropolymer-free materials.

- **Superior Flow Rates with Minimal Footprint**

  The 0.2 µm PE membrane delivers up to 2-3x lower pressure drop than traditional hydrophobic membranes, enabling faster throughput and a smaller system footprint.

- **Optimized for Single-Use Systems**

  Designed with versatile fitting options and a compact form factor, PureFlo® PE disc capsules integrate effortlessly into single-use assemblies minimizing contamination risks and installation time.

- **Sustainable and High-Performance Materials**

  Polyethylene's naturally hydrophobic properties without the use of fluoropolymers ensure reliable sterile airflow while supporting sustainability goals, complemented by eco-friendly laser marking for clean, permanent traceability without added chemicals or waste.

Custom Solutions Available

Saint-Gobain offers expert engineering support to develop tailored filtration solutions that meet your specific process needs. Contact us to explore custom options.

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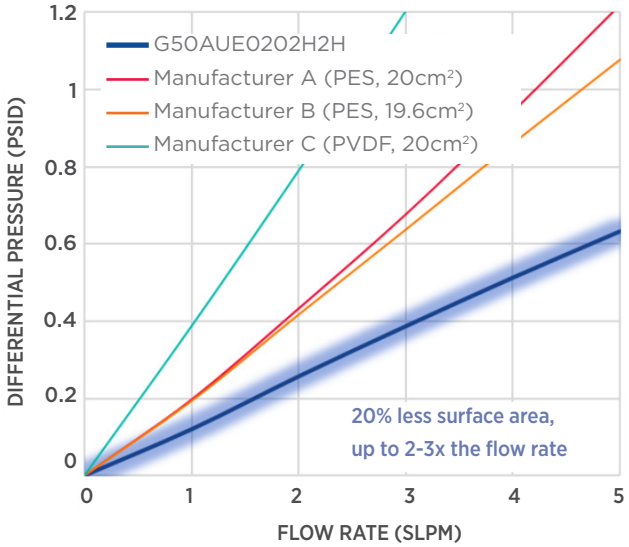

Note: Flow performance data is based on Saint-Gobain internal testing under controlled venting conditions. All filters used sterilizing grade membranes and comparable connection types to ensure fair comparison.

Technical Summary

Materials (Fluid Contact)	
Membrane	Polyethylene (PE)
Support Material	Polyethylene (PE)
Molded Components (shell)	Polyethylene (PE)

Membrane Configurations		
Membrane	**Description**	**Minimum Bubble Point (at 22 °C)**
UE020	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 (cm²)**
D13R	16	3.7	0.8
D25C	33	5.45	4.6
D40C	45.5	8	10.5
G50A	55	8	15.9

Operating Conditions		
	D13R, D25C, D40C	**G50A**
Maximum Temperature	55 °C	55 °C
Maximum Inlet Pressure (at 22 °C)	2.1 bar | 30 psi	4.1 bar | 59.5 psi
Maximum Forward Differential Pressure (at 22 °C)	2.1 bar | 30 psi	4.1 bar | 59.5 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 with each capsule.
- Each filter bag and box are labeled with the product part number, lot number, and identifying characteristics.
- Each D25C, D40C, and G50A capsule is engraved with the product lot serial number is engraved on the product and identifying characteristics.

Regulatory & Stewardship

Saint-Gobain's PureFlo® PE D13R, D25C, D40C, and G50A Disc 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
Bacterial Retention	Quantitative retention of 10^7 CFU/cm^2 *Brevundimonas diminuta* per ASTM F838 methodology
Animal-derived Components	No animal-derived material is intentionally added or used during the manufacture of PureFlo® PE D13R, D25C, D40C, and G50A Capsules.
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 D13R, D25C, D40C, and G50A Disc capsule 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 specification.
USP Bacterial Endotoxins	A representative sample from each 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.

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

Filter Size	Body Diameter (mm)	Body Length Without Fittings (mm)	Filtration Area (cm^2)	Typical Flow Performance* (in air, 22 *C, vent condition)
D13R	16	3.7	0.8	D13RUE0201H1H - 2.7 psid at 1 L/min
D25C	33	5.45	4.6	D25CUE0201H1H – 0.5 psid at 1 L/min
D40C	45.5	8	10.5	D40CUE0202H2H – 0.3 psid at 1 L/min
G50A	55	8	15.9	G50AUE0202H2H - 0.15 psid at 1 L/min

* 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.

Ordering Guide

PART NUMBER:

[1] [2] [3] [4] [5]

[1] Filter Size
- D13R
- D25C
- D40C
- G50A

[2] Filter Membrane
- UE020 = 0.2 µm

[3] Inlet and [4] Outlet Fitting
- 0H = 1/16″ hose barb
- AH = 3/32″ hose barb
- 1H = 1/8″ hose barb
- 2H = 1/4″ hose barb
- 3H = 3/8″ hose barb
- LF = Female luer lock
- LM = Male luer lock
- MT = 1/2″ tri-clamp
- 1G = 1/8″ Pure-Fit® SIB
- 2G = 1/4″ Pure-Fit® SIB

[5] Optional
- -1 = Individually bagged

PLEASE NOTE:
Not all fittings are available for all filter sizes. Please refer to the next page of the brochure for a standard list of fitting available for each filter size.

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

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PureFlo® PE Disc Capsule Ordering Guide (continued)

Table A. Inlet and outlet fitting option availability

Fitting Code	Description	D13R	D25C	D40C	G50A
0H	1/16" Hose barb (single)	✔	–	–	–
0H	1/16" - 3/32" Hose barb (stepped)	–	✔	✔	–
AH	3/32" Hose barb (single)	✔	✔	✔	–
1H	1/8" Hose barb (single)	✔	–	–	–
1H	1/8" - 3/16" Hose barb (stepped)	–	✔	✔	–
1H	1/8" Hose barb (multi)	–	–	–	✔
2H	1/4" - 3/8" Hose barb (stepped)	–	–	–	✔
2H	3/16" - 1/4" Hose barb (stepped)	–	✔	✔	–
2K	1/4" Hose barb (multi)	–	–	–	✔
3H	3/8" Hose barb (single)	–	–	–	✔
3H	1/4" - 3/8" Hose barb (stepped)	–	✔	✔	–
LF	Female luer lock	✔	✔	✔	✔
LM	Male luer lock	✔	✔	✔	–
MT	1/2" Tri-clamp	–	–	–	✔
1G	1/8" Pure-Fit® SIB	–	✔	–	✔
2G	1/4" Pure-Fit® SIB	–	–	–	✔

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