

# PureFlo® Polyethylene (PE) Disc Capsule Filters

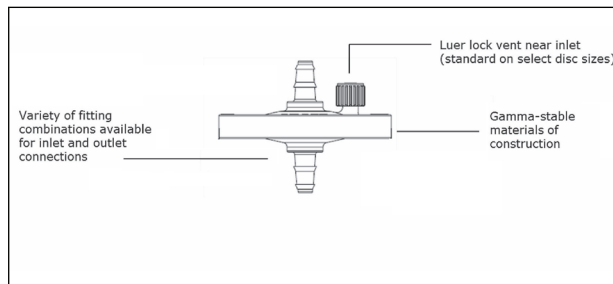
Gamma Stable | Single-use

PureFlo® Polyethylene (PE) Disc Capsule Filters are designed for sterile vent and compressed air applications in the pharmaceutical industry. The unique PE membrane offers higher flow rates than typical gamma-compatible vent filters. The high flow rate and compact design allows for efficient integration, minimizing the space and weight of the vent filter in single-use systems.

### Typical Uses

Venting  
Bioreactor Inlet Gas  
Compressed Air

Chemical compatibility information available upon request.



|                                  |                                                                                                                                                                                                                 |                                                                                    |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Materials of Construction</b> | Media:                                                                                                                                                                                                          | Polyethylene                                                                       |
|                                  | Media Supports:                                                                                                                                                                                                 | Polyethylene (when present)                                                        |
|                                  | Shell and Over Mold:                                                                                                                                                                                            | Polyethylene                                                                       |
|                                  | O-Rings:                                                                                                                                                                                                        | Silicone (when present)                                                            |
| <b>Operating Conditions</b>      | Maximum Operating Pressure                                                                                                                                                                                      | Liquid: 5.5 bar (80 psi) at 22°C (72°F); Gas: 4.1 bar (60 psi) at 22°C (72°F)      |
|                                  | Maximum Forward Differential Pressure                                                                                                                                                                           | 5.0 bar (72 psi) at 72°F/22°C                                                      |
|                                  | Maximum Reverse Differential Pressure                                                                                                                                                                           | 3.0 bar (44 psi) at 72°F/22°C                                                      |
|                                  | Maximum Operating Temperature                                                                                                                                                                                   | 140°F/60°C                                                                         |
| <b>Integrity Testing*</b>        | 0.2 µm                                                                                                                                                                                                          | 60% isopropanol /40% water bubble point of ≥1.2 bar (17.4 psi) using air at 22 °C. |
| <b>USP Class VI</b>              | The fluid path components meet the requirements of the USP, Biological Test for Plastics, Class VI                                                                                                              |                                                                                    |
| <b>Bacterial Endotoxins</b>      | An aqueous extraction of this product contains <0.25 EU/ml as determined by the Limulus Amebocyte Lysate (LAL) Test.                                                                                            |                                                                                    |
| <b>Bacterial Retention</b>       | This product is quantitatively retentive towards Brevundimonas diminuta (ATCC #19146) at a minimum challenge level of 10 <sup>7</sup> CFU per cm <sup>2</sup> of filtration area, consistent with ASTM F838-05. |                                                                                    |
| <b>Sterilization</b>             | This product is compatible with gamma irradiation up to 50 kGy.                                                                                                                                                 |                                                                                    |

\*All filters are 100% integrity tested.

# PureFlo® Polyethylene (PE) Disc Capsule Filters

## PureFlo Polyethylene (PE) Disc Capsule Filters Ordering Guide

| Filter Sizes | Filter Types | Description | Outer Shell Diameter* | Effective Filtration Area (EFA) |
|--------------|--------------|-------------|-----------------------|---------------------------------|
|              | D13C         | 13 mm disc  | 16 mm                 | 0.8 cm <sup>2</sup>             |
|              | D25C         | 25 mm disc  | 33 mm                 | 4.6 cm <sup>2</sup>             |
|              | D40C         | 40 mm disc  | 45.5 mm               | 10.5 cm <sup>2</sup>            |
|              | D50C/G50C    | 50 mm disc  | 54 mm                 | 15.9 cm <sup>2</sup>            |
|              | D65R         | 65 mm disc  | 72 mm                 | 26 cm <sup>2</sup>              |
|              | D90R         | 90 mm disc  | 99 mm                 | 60 cm <sup>2</sup>              |

\*Listed dimensions are nominal. Engineering drawings with tolerances are available upon request.

| PureFlo Disc Filter Capsules | Filter Media Grade                   | Inlet Fitting | Outlet Fitting                     | Fitting availability by filter type |     |     |
|------------------------------|--------------------------------------|---------------|------------------------------------|-------------------------------------|-----|-----|
|                              |                                      |               |                                    | D13                                 | D25 | D40 |
| D13C = 13 mm Disc filter     | UE020 = 0.2 µm Polyethylene Membrane | OH            | OH = 1/16" hose barb               | •                                   |     |     |
|                              |                                      | OH            | OH = 1/16-3/32" hose barb          |                                     | •   | •   |
|                              |                                      | AH            | AH = 3/32" hose barb               | •                                   | •   | •   |
|                              |                                      | 1H            | 1H = 1/8" hose barb                | •                                   |     |     |
|                              |                                      | 1H            | 1H = 1/8-3/16" hose barb           |                                     | •   | •   |
| D25C = 25 mm Disc filter     |                                      | 1Q            | 1Q = 1/8" male quick coupling      | •                                   | •   | •   |
|                              |                                      | 2H            | 2H = 3/16-1/4" hose barb (stepped) |                                     | •   | •   |
|                              |                                      | 3H            | 3H = 1/4-3/8" hose barb (stepped)  |                                     | •   | •   |
| D40C = 40 mm Disc filter     |                                      | LF            | LF = female Luer lock              | •                                   | •   | •   |
|                              |                                      | LM            | LM = male Luer lock                | •                                   | •   | •   |

D13C

UE

O20

1H

1H

**Example - D13CUE0201H1H** (13 mm Disc, 0.2 µm polyethylene membrane, 1/8" hose barb (single) inlet/outlet.)

Custom adapters are available upon request.

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## PureFlo Polyethylene (PE) Disc Capsule Filters Ordering Guide

| PureFlo Disc Filter Capsules                                                                                      | Filter Media Grade                   | Inlet Fitting | Outlet Fitting                                | Fitting availability by filter type |     |     |     |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------|-----------------------------------------------|-------------------------------------|-----|-----|-----|
|                                                                                                                   |                                      |               |                                               | D50                                 | G50 | D65 | D90 |
| D50C/G50C = 50 mm Disc filter<br><br>D65R = 65 mm Disc filter<br><br>D90R = 90 mm Disc filter                     | UE020 = 0.2 µm Polyethylene Membrane | 1H            | 1H = 1/8" hose barb (multi)                   | •                                   | •   | •   | •   |
|                                                                                                                   |                                      | 1Q            | 1Q = 1/8" male quick coupling                 | •                                   | •   | •   | •   |
|                                                                                                                   |                                      | 2H            | 2H = 1/4" - 3/8" hose barb (stepped)          | •                                   | •   |     |     |
|                                                                                                                   |                                      | 2H            | 2H = 1/4" - 5/16" hose barb (stepped)         |                                     |     | •   |     |
|                                                                                                                   |                                      | 2H            | 2H = 1/4" hose barb (stepped)                 |                                     |     |     | •   |
|                                                                                                                   |                                      | 2Q            | 2Q = 1/4" male quick coupling for metal latch | •                                   | •   | •   | •   |
|                                                                                                                   |                                      | 3H            | 3H = 5/16" - 3/8" hose barb (stepped)         |                                     |     | •   |     |
|                                                                                                                   |                                      | 3H            | 3H = 3/8" hose barb (stepped)                 |                                     | •   |     | •   |
|                                                                                                                   |                                      | 4H            | 4H = 1/2" hose barb (stepped)                 |                                     |     | •   | •   |
|                                                                                                                   |                                      | 4Q            | 4Q = 1/2" male quick coupling                 |                                     |     |     | •   |
|                                                                                                                   |                                      | 5H            | 5H = 5/8" hose barb (multi)                   | •                                   | •   |     | •   |
|                                                                                                                   |                                      | LF            | LF = female Luer lock                         | •                                   | •   |     | •   |
|                                                                                                                   |                                      | LM            | LM = male Luer lock                           | •                                   |     | •   | •   |
|                                                                                                                   |                                      | LS            | LS = male Luer slip                           | •                                   |     |     |     |
|                                                                                                                   |                                      | MT            | MT = 1/2" tri-clamp                           |                                     |     | •   | •   |
|                                                                                                                   |                                      | TC            | TC = 1.5" tri-clamp                           |                                     |     |     | •   |
|                                                                                                                   |                                      | D50C          | UE020                                         | 1H                                  | 1H  |     |     |
| <b>Example - D50CUE0201H1H:</b> (50 mm Disc, 0.2 µm polyethylene membrane, 1/8" hose barb (single) inlet/outlet.) |                                      |               |                                               |                                     |     |     |     |

Custom adapters are available upon request



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