

ULPA Filter Capsules (99.999% efficiency at 0.12µm)

Ultra Low Particulate Air and Gas Filter

PureFlo® ULPA (**U**ltra **L**ow **P**articulate **A**ir) capsules are designed for high retention and particle holding capacity for air and gas in the pharmaceutical, biotechnology, medical, chemical, food and beverage applications worldwide. This family of products is particularly suitable for a variety of gases with four different filtration media to choose from.

They are designed to provide bacteria, algae, fungal-free air for sterile applications such as fermentors or incubators. The capsules have a durable polypropylene housings. The media allows for high flow rates and low pressure drops.



Specifications

| Applications | |
|----------------|-----------------|
| Tank Vent | Air Filter |
| Vacuum pump | Beverages |
| Fermentor | Pharmaceuticals |
| Fine Chemicals | Biologics |
| Incubator | Wine |
| Beer | Water |

| | |
|------------------------------|--|
| Materials of Construction: | Media: Non-Woven Borosilicate Microfiber Media Supports: Polypropylene Shell, Cage, Core, and End Caps: Polypropylene |
| Fitting Connections: | Hose Barb, NPT, Compression Quick Couplings, and Sanitary. Any inlet/outlet combinations. (Custom adaptors available upon request) |
| Nominal Dimensions: | Length: 1.5 in (68 mm), Length: 2.5 in (98 mm), Length: 5.0 in (153 mm), Length: 7.5 in (221mm), Length: 10 in (276mm), Diameter: 2.88 in (73 mm), MK Size: 2.3in (60mm) |
| Effective Filtration Area: | 1.5 in: 260cm ² , 2.5 in: 500cm ² , 5.0 in 1000cm ² 7.5 in: 1500, 10 in: 2000 cm ² , MKL Size: 300cm ² |
| Operating Conditions: | Maximum Operating Pressure: Liquid: 5.5 bar (80psi) at 72°F/22°C Gas: 4.1 bar (60psi) at 72°F/22°C Maximum Forward Differential Pressure: 4.1 bar (60psi) 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 (120psi) at 72°F/22°C Maximum Operating Temperature: 140°F/60°C |
| ULPA Rated: Pyrogenicity: | Ensures particulate-free air 99.999% retention of 0.12 µm DOP aerosol <0.25 EU/ml using the LAL test method |
| Autoclavable & Sanitizable: | Capsules can be autoclaved 25 times at 257°F/125°C for 30 minutes or chemically sanitized in situ using common sanitizing agents or hot water at 194°F/90°C for a limited time (dependent on time and temperature). Capsules must not be in situ steam-sterilized. |
| Regulatory Compliance: | The filters are constructed with polypropylene resins and filtration media in compliance with 21CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological Test for Plastic. |

ULPA Filter Capsules

PureFlo MK Series ULPA Filter Capsule Ordering Guide

| PureFlo Capsule Filters | Filter Media | Pore size (Micron) | Surface Area | Inlet Fitting | Outlet Fitting | Options |
|---------------------------------|------------------------|--------------------|--|---------------|----------------|---------|
| MKL 60mm Diameter | G = Glass Fiber | U = ULPA | B = 300cm2 < | | | |



PureFlo SK Series ULPA Filter Capsule Ordering Guide

| PureFlo Capsule Filters | Filter Media | Pore size (Micron) | Length | Input Fitting | Output Fitting | Options |
|---|-----------------|--------------------|----------|---------------|---|--|
| SKL 70mm Diameter Capsule | G = Glass Fiber | U = ULPA | H = 1.5" | 1C | 1C = 1/8" Compression | Shell Material |
| | | | S = 2.5" | 1H | 1H = 1/8" Hose barbs | Blank = Polypro |
| | | | L = 5" | 1N | 1N = 1/8" MNPT | -E = Polyethylene shell and HDPE media support |
| | | | E = 7.5" | 1NF | 1NF = 1/8" FNPT | -BLK = Black PP Shell |
| | | | K = 10" | 1Q | 1Q = 1/8" Male Quick Coupling with Metal latch | -GP = Gamma stable polypropylene shell |
| | | | | 1QF | 1QF = 1/8" Female Quick Coupling with Metal latch | -NY = Nylon Shell |
| | | | | 1QFV | 1QFV = 1/8" Female Valved Quick Coupling with Metal latch | Vent & Drain |
| | | | | 1QV | 1QV = 1/8" Male Valved Quick Coupling with Metal latch | -N = No vent or drain |
| | | | | 2C | 2C = 1/4" Compression | -NI = No vent or drain |
| | | | | 2H | 2H = 1/4" to 1/2" Hose barbs | -NO = NO vent or drain |
| | | | | 2HS | 2HS = 1/4" to 3/8" Hose barbs | Sterilization |
| | | | | 2LF | 2LF = Large Female Luer Lock fitting | -ETO = Ethylene oxide |
| | | | | 2N | 2N = 1/4" MNPT | O-Ring for Quick |
| | | | | 2NF | 2NF = 1/4" FNPT | Blank = O-ring Silicone (Standard) |
| | | | | 2P | 2P = 1/4" Push to Connect | -OE = O-ring EPDM |
| | | | | 2PE | 2PE = 1/4" Push to Connect Elbow | -ON = O-ring Nitrile |
| | | | | 2Q | 2Q = 1/4" Male Quick Coupling for Metal latch | -OV = O-ring Viton |
| | | | | 2QF | 2QF = 1/4" Female Quick Coupling with Metal latch | |
| | | | | 2QFP | 2QFP = 1/4" Female Quick Coupling with Plastic latch | |
| | | | | 2QFV | 2QFV = 1/4" Female Valved Quick Coupling with Metal latch | |
| | | | | 2QP | 2QP = 1/4" Male Quick Coupling for Plastic latch | |
| | | | | 2QV | 2QV = 1/4" Male Valved Quick Coupling with Metal latch | |
| | | | | 2V | 2V = 1/4" Walther Quick Connect | |
| | | | | 3C | 3C = 3/8" Compression | |
| | | | | 3H | 3H = 3/8" Hose Barb | |
| | | | | 3HE | 3HE = 3/8" Hose Barb Elbow | |
| | | | | 3NF | 3NF = 3/8" FNPT | |
| | | | | 4C | 4C = 1/2" Compression | |
| | | | | 4H | 4H = 1/2" Hose Barb | |
| | | | | 4N | 4N = 1/2" MNPT | |
| | | | | 4Q | 4Q = 1/2" Male Quick Coupling for Plastic latch | |
| | | | | 8C | 8C = 5/16" Compression | |
| | | | | MT | MT = 1/2" Tri clamps | |
| | | | | TC | TC = 1-1/2" Tri clamp | |
| Example - 2.5", Glass Fiber, ULPA rated Capsule, with 1/2" Hose Barb fittings would be SKLGUS4H4H | | | | | | |
| Male Quick Couplings are molded. Female Quick Coupling with Plastic latch will be threaded on, compatible with CPC (Colder), LinkTech and other compatible couplings. | | | | | | |