

## PRODUCT OVERVIEW



# VALIDATED FILTRATION SOLUTIONS TO INDUSTRY LEADERS®



## **ABOUT US**

Founded in 1999 in Cedar Rapids, Iowa, Global Filter produces high-purity pleated filter cartridges in our advanced technology production facility. From modest beginnings as a family, home-based business, today Global Filter serves customers, as our name implies, around the globe. Some of the largest companies in the world trust their filtration requirements to Global Filter.

At Global Filter, we continually strive to improve the quality of our products as well as the processes that develop and manufacture them. We have steadily increased our total footprint of cleanroom-level environment for the production, rinsing, and testing of our high-purity offerings. These improvements have resulted in increased capacity and shortened lead times while enhancing the cleanliness of our rinsed products and our entire range of filter elements.

Advancement of our technological capabilities is a pillar of Global Filter's business and we're proud of our reputation as a leader in tackling difficult challenges. Our engineers and technicians work closely with customers to identify specific filtration needs and provide development support for major filtration projects, while being attentive to objectives for product cost and schedule. We support our programs with capable testing services to provide world-class best net value.

Our commitment to excellence in cleanliness, efficiency, quality, and service is driven by our goal to exceed the requirements of our customers. Our goal is complete customer satisfaction and it is reflected in everything we do.

### INDUSTRIES WE SERVE

**Food & Beverage** – We are proud to be recognized as a premier supplier of depth, pleated depth, pleated membrane cartridges and filter vessels for the **food & beverage** industry.

**Pharmaceuticals & Life Sciences** – We promise high purity, efficiency, and economy to our customers. Our products undergo demanding integrity tests and are certified in our hygienic production facilities.

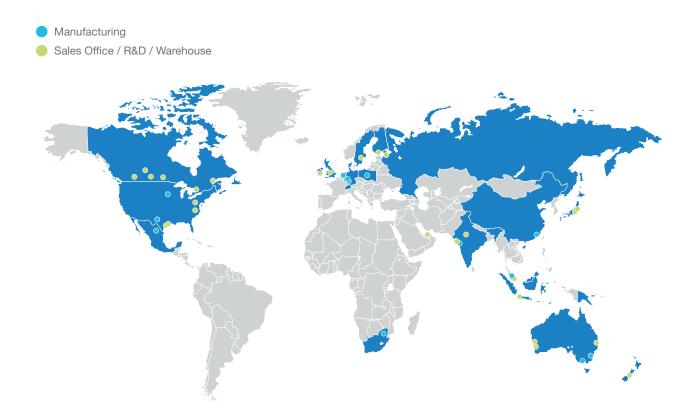
**Micro-Electronics** – We provide superior filtration solutions for high purity manufacturing and processing of semiconductor components and products.

**Industrial** – Our filtration products and services are utilized by customers in a wide variety of industries including: **paints**, **inks & coatings**, **water treatment**, **mining & minerals**, **chemicals**.



#### FILTRATION GROUP FOOTPRINT

With world-class engineering and manufacturing capabilities.



## WE ARE HERE TO ASSIST YOU WITH ALL YOUR FILTRATION NEEDS

Global Filter is part of Filtration Group, the fastest growing and one of the largest filtration businesses in the world. We are global leaders in providing innovative filtration systems and solutions to more than 30 industries.

We are dedicated to making the world safer, healthier and more productive through environmentallyconscious products and services that help our customers enhance their processes while maintaining their operating costs.





## CARTRIDGE END CAP CONFIGURATIONS





## PLEATED DEPTH CARTRIDGES

Our multi-layer, fiber-based medias provide true depth-loading for high efficiency particulate removal over a wide range of micron ratings.



#### **PP-SERIES**

PP-Series Pleated Polypropylene cartridges are designed for use in most applications where high efficiency particulate filtration is required. Manufactured using 100% polypropylene materials and assembled using the latest thermal bonding equipment, the PP-Series is a versatile, exceptionally clean and chemically inert filter for use in all industries. Available in both absolute and nominal retention efficiencies and ratings from 0.2 to 50.0 micron.



#### **PPE-SERIES**

PPE-Series Economy Pleated Polypropylene cartridges are a cost-effective option for applications requiring high efficiency filtration and 100% polypropylene materials of construction. The 2.5" OD makes the PPE cartridge a great option for batch applications or for use in filter housings that don't allow for the standard 2.7 inch cartridge diameter. Available in both absolute and nominal retention efficiencies and ratings from 0.2 to 50.0 micron.



#### **FG-SERIES**

FG-Series Pleated Microglass cartridges are constructed with absolute rated, FDA-approved borosilicate microglass media that offers a high holding capacity, high efficiency and excellent flow rates. Using a combination of glass-reinforced polypropylene, polypropylene and polyester hardware and support materials, these cartridges are suitable for many applications across all industries. Available in both absolute and nominal retention efficiencies and ratings from 0.2 to 50.0 micron.



#### **FGE-SERIES**

FGE-Series Economy Pleated Microglass cartridges offer a highly efficient and cost-effective filtration option for use in a wide variety of applications. These cartridges are constructed of FDA microglass media with polyester and glass-reinforced polypropylene support. Their 2.5" OD makes them a great option for batch applications or for use in filter housings that don't allow for use of a 2.7 inch cartridge. Available in both absolute and nominal retention efficiencies and ratings from 0.2 to 50.0 micron.



## PLEATED MEMBRANE CARTRIDGES

Our range of membrane medias offer high surface area and high efficiency to accommodate a wide range of high purity applications.



#### Polysulfone

High purity polysulfone membrane filter media offers an exceptional flow rate and high loading capacity by virtue of its highly asymmetrical pore structure. It is a preferred choice in applications requiring the efficiency of a membrane, but where a longer service life and minimal initial pressure drop is important. Available as either a hydrophilic or hydrophobic material, this membrane is a great option for both liquid and air filtration applications.



#### Polyethersulfone

High purity polyethersulfone membrane filter media is a cost-effective membrane material that wets easily for use in aqueous filtration applications. This media offers high flow rates, low protein binding and the ability to be integrity tested for use in critical applications. With multiple grades featuring various levels of testing and certification, our PES line is one of our most versatile membrane products. It's robust, thermally-bonded polypropylene construction allows it to tolerate the most demanding applications, including those where in-situ hot water sanitization or steam sterilization is required.



#### Nylon 6,6 & Nylon 6,6 Plus+

Global Filter's high purity Nylon and Nylon Plus+ membrane cartridges provide excellent particulate retention and cleanliness for use in a variety of liquid filtration applications. The membrane offers both the ability to be integrity tested as well as an available charged (Plus+) option, which allows the membrane to capture particulate, including bacteria and endotoxins, well below the stated micron rating. Constructed using the latest in thermal bonding equipment, and available in several grades and configurations.



#### PTFE



High purity PTFE membrane filter media provides superior chemical resistance for use in a broad range of industrial applications. With retention ratings as fine as 0.01 micron (10 nanometers), consistent contaminant removal is achieved in aggressive fluids and organic solvents. It also offers outstanding hydrophobicity, which makes it a great option for preclusion of moisture and other contaminants in air, gas and vent applications. Constructed using the latest in thermal bonding equipment, and available in several grades and configurations.



## **DEPTH CARTRIDGES**

Our depth cartridges feature various graded density medias that offer high holding capacity in a wide range of materials, efficiencies and micron ratings.



#### Meltblowns

Global Filter's multiple grades of meltblown depth cartridges offer a cost-effective, graded density particulate filter option for countless applications across all industries. Constructed of 100% polypropylene or nylon, these filters offer great chemical compatibility, high loading capacity and low initial pressure drops. Available in any length and endcap configuration, multiple efficiencies and ratings between 1 micron and 100 micron.

#### **GRU-V Series Resin Bonded**



The unique manufacturing process of GRU-V filter elements produces a rigid fixed-matrix structure with true graded porosity. This maximizes holding capacity while preventing the unloading behavior that is often problematic in competitive products. The grooved outer surface greatly expands the filter's effective surface area and further increases the contaminant holding capacity. The synthetic fiber/phenolic resin combination offers proven performance operating under challenging conditions of high temperatures, high fluid viscosities and high differential pressures. The GRU-V is ideal for paints, coatings, oils and many other demanding applications.



#### **G-Series Wound**

G-Series wound depth filter cartridges offer an economical choice for applications where high solids removal is necessary. Available in many combinations of media and core materials with optional performance-enhancing endcaps, they are easily adapted to any housing setup and can tolerate a wide range of process conditions. Lengths range from 5 to 50 inches, and ratings range from 1 to 400 micron. Available in FDA compliant configurations.

#### GPB-Series Bi-Component



GPB-Series Bi-Component cartridges are manufactured using a unique and proprietary process featuring thermally-bonded coextruded polyolefin fibers that offer a rigid, fixed matrix pore structure. This allows the filter to maintain a sharpened particulate retention cutoff as well handle differential pressures well beyond the abilities of most 2.5 and 2.7 inch cartridges. In addition, this rigidity prevents changes in fiber matrix and contaminant unloading over the life of the filter.

Available in lengths from 9.75 to 50 inches and ratings from 1 to 350 micron.



## LIQUID FILTER BAGS

Available in felt, mesh and multi-layer high efficiency medias, our line of bag filters offer a solution for bulk particulate or prefiltration in many general use applications.



#### Filter Bags

Filter bags offer bulk particulate filtration capabilities across a wide range of ratings, flow rates and efficiencies, making them an excellent option for pre or final filtration. Available medias include traditional felt, mesh and high efficiency microfiber, allowing the user to target their specific type of contaminant. Available in custom and all industry-standard sizes and easily configurable to fit most manufacturer's vessels, Global Filter's bag filter line is a versatile and user-friendly addition to any filtration process.

## HIGH FLOW CARTRIDGES

Our High Flow line allows for high purity filtration in applications where use of traditional cartridges would be cost-prohibitive.



#### **HFB-Series**

HFB-Series cartridges are an excellent high efficiency option for applications requiring high flow rates in a small footprint. The cartridge utilizes the same medias as our PP and FG-Series high purity cartridges, but in a configuration that allows for utilization of a traditional bag filter vessel. Designed with an inside-to-outside flow direction and able to accommodate up to 100 gallons per minute in a single cartridge, down time and the possibility of contamination of clean product during changeout is significantly reduced. Multiple seal designs allow for retrofit in many common vessels.



#### HF & HF3-Series

HF-Series & HF3-Series high flow cartridges address the need for absolute rated filtration in high flow rate applications. The large diameter allows for use of fewer cartridges, which translates to less maintenance and production down time. Available in chemically inert polypropylene or microglass medias, in ratings of 0.45 to 100 micron, and lengths of 20, 40 or 60 inches. The HF Series is designed as a direct replacement to the Pall Highflow Ultipleat and 3M 740 series elements.



#### EHF3-Series

EHF3-Series high flow cartridges are designed as a direct replacement to the 3M/Cuno High Flow. Available in polypropylene or microglass medias and in a wide variety of micron ratings, the EHF3 is able to handle extremely high flow rates in critical filtration applications. Its large diameter construction that utilizes polypropylene hardware and an outside-in flow path means it functions similarly to a traditional 2.5 or 2.7 inch diameter high purity cartridge, but dramatically reduces maintenance and production down time. Available in 40 or 60 inch lengths.



## CARTRIDGE FILTER VESSELS

Our vessels meet the process requirements for a broad range of applications and industries.



#### Check current inventory at www.globalfilter.com

#### **GFHD-Series**

Our GFHD-Series single cartridge vessels offer a user-friendly, all 304 or 316 stainless steel vessel option for use with multiple styles of 2.5 or 2.7 inch filter cartridges. Available in 5, 10, 20 and 30 inch lengths and ratings up to 300 PSI, the GFHD is a versatile choice for many lower flow applications. The spring cup sump and multiple head styles make changeouts faster and easier than most competitive products. Available in multiple inlet/outlet sizes and with or without gauge ports. Pin wrench and mounting hardware included.



#### **GTCHB-Series**

Our GTCHB-Series band-clamp vessels are an economical choice for applications requiring between 4 and 22 filter cartridges. Available in 304 or 316L stainless steel, in 10, 20, 30 and 40 inch lengths and with a universal seat cup spaced to accept a 2.7 inch cartridge as standard equipment, the GTCHB line will accept a DOE, 222/fin or 222/flat cartridge. With no restrictions on cartridge configuration, the GTCHB can be used in any fluid filtration application up to 150 PSI.



#### **GTCH-Series**

Our GTCH-Series vessels offer a robust swing-bolt design to accommodate 3 to 51 cartridges in 10 to 40 inch lengths. Available in 304 or 316L stainless steel with multiple finish options, the GTCH-Series is a great option for high purity liquid filtration applications. Universal seat cups spaced for 2.7 inch diameter cartridges and the ability to accommodate DOE, 222/flat or 222/fin cartridges allows the user to easily reconfigure. Rated to 150 PSI, and available with an optional ASME CODE Stamp.



## **BAG FILTER VESSELS**

Our vessels meet the process requirements for a broad range of applications and industries.

#### Check current inventory at www.globalfilter.com



#### **GBFV8-Series**

Our GBFV8-Series size 1 and 2 single bag filter vessels are available in either stainless or carbon steel and in multiple inlet and outlet configurations. The V-ring design and standard basket easily accommodate many types of bag filters with any style ring or flange, with the added benefit of offering a positive seal to ensure against bypass in more critical applications. The swing-bolt lid allows for quick changeouts and a pressure rating of 150 PSI. Adjustable legs, drain, vent and gauge ports are standard equipment.



#### **GMBE-Series**

Our GMBE-Series stainless and carbon steel multi-bag vessels are designed to offer a high quality and economical solution for a variety of high flow and high solids applications. The V-ring tubesheet design provides a positive snap seal between the vessel and the bag to ensure against bypass, but will also accept a standard steel or poly ring bag. Available to accommodate 4, 6, 8 or 12 bags and capable of handling up to 2400 gallons per minute. 150 PSI rating and bearing-assisted hand-wheel davit arm for easy changeouts is standard, as are gauge ports, drain and vent.



#### **GMBV-Series**

Our GMBV-Series is an ASME CODE Stampable multi-bag vessel available in 304 or 316 stainless steel. The heavy-duty swing-bolt closure with integral hold-down assembly and bearing-assisted hand-wheel davit arm make changeouts quick and easy, while the V-ring design allows for a positive seal with snap ring bags. Accommodating other bag styles requires no changes to the tube sheet or baskets, which means it can easily be adapted to any process running up to 2400 gallons per minute. 150 PSI rating, gauge ports, drain and vent are all standard equipment.



## OUR COMMITMENT TO QUALITY

Global Filter is committed to providing filtration products that deliver exemplary value and dedicated service that consistently delights our customers. We work to accomplish this with ongoing improvements across our business practices and with diligent adherence to our Quality Management System.

Central to this commitment are our quality policy initiatives:

- Maintaining high customer satisfaction through effective and collaborative communication.
- Goal of providing the shortest lead times in the industry.
- Embracing the ISO 9001 standard as the foundation of our Quality Management System.
- Focusing on continuous improvement of our products and processes.

## Our Partners in Quality

#### **ASME**

Global Filter offers filter vessels designed and fabricated in accordance with the ASME International Boiler and Pressure Vessel Code, assuring robust design and safe use.

#### **ASTM International**

ASTM develops and publishes consensus technical standards for a wide range of materials and products including test methods adopted by Global Filter.

#### **EarthKosher**

Global Filter products have been certified Kosher by EarthKosher, a leading and trusted certification agency.

#### **Islamic Services of America**

Global Filter products have been inspected and certified Halal by Islamic Services of America, a leading and trusted monitoring organization.

#### **NSF International**

Global Filter offers several series of products tested and certified by NSF International, the leading developer of public health standards and certification programs that help protect the world's food, water, consumer products, and environment.

#### **Food & Drug Administration**

Materials of construction for Global Filter's high-purity products comply with standards established by the US Food and Drug Administration to assure purity and safe use with food and beverages for human consumption.

#### EU

Materials of construction for Global Filter's high-purity products comply with standards established by the European Union to assure purity and safe use with food and beverages for human consumption.





## Making the World Safer, Healthier & More Productive







Global Filter

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