

Filter Bags

Standard Filter Bag Configurations

Your SAMPSON vessels will give you it's ultimate performance when used with our filter bags. We manufacture various types of high quality, high efficiency filter bags for even the most demanding applications. There's one that is right for your application. You may pick from polypropylene, polyester, nylon, or other felt or mesh fabrics in sewn or welded construction with micron ratings from 1 to 2000. Each of our filter bags is tagged with a quality control number for complete traceability. The quality control number tells us every detail of the manufacturing process.

To order your customized filter bag use our chart below to create an accurate part order number. This will simplify your order when calling our order desk and enable us to provide you with the best service possible.



Example for Ordering Customize Filter Bag Part Number

Code	Micron Rating	Bag Cover	Bag Size	Retainer	Options
PO	25	P	2	S	H

Code	Material	Micron Rating	Bag Cover	Bag Size	Retainer	Options
PE	Polyester Glazed one side Needle felt	1,5,10,25,50,75,100,200	P: Plain, no cover			H Strap Handle
PEXL	Polyester Extended Life Needle felt	1 -2000 NOMINAL	PEM: Polyester Multifilament, Woven Mesh			HH Heavy Strap Handle
PO	Polypropylene Glazed one side Needle felt	1,3,5,10,25,50,100	NMO: Nylon Monofilament, Woven Mesh cover			LH Loop Handle
POXL	Polypropylene Extended Life Needle felt	1 -2000 NOMINAL	PB: Point bonded			X Reverse Collar
POMF	Polypropylene Meltblown Micro Fibre	1,2, 5, 10, 25, High Efficiency	Polypropylene Cover			A Automotive (seams inside)
PSORB	Polypropylene Oil Adsorbent Filled filter Bag	25	CX: Spun bonded Nylon Cover			N Needle Felt Top Binding
NSM	Nominal Submicron Laminate Needle Felt	1 -2000 NOMINAL	HE: High Efficiency			RG Reverse Glaze
NX	Aramid, Scrim Supported, Non glazed, Needle Felt	1,5,10,25,50,100				
NY	Nylon, Scrim Supported, Non glazed, Needle Felt	5,10,25,50,100				
VC	Viscose, Scrim Supported, Non glazed, Needle Felt	5,10,25,50,75,100, 200				
PEM	Polyester Multifilament, Woven Mesh	100, 150, 200, 250, 300, 400, 500, 600, 800, 1000, 1500, 2000				
PPMO	Polypropylene Multifilament, Woven Mesh	200, 300, 350, 400, 600, 800				
PEMO	Polyester Multifilament, Woven Mesh	1, 5, 10, 37, 100, 125, 150, 200, 250, 300, 400				
POX	Polypropylene Oil Adsorbent Needle Felt	25				
PEX	Polyester Economy Needle Felt	25,75,150				
				Ring Top Filter Bags 1: 7" D X 16.5" OAL 2: 7" D X 32" OAL 3: 4" D X 8" OAL 4: 4" D X 14" OAL 5: 7.5" D X 16" OAL 6: 7.5" D X 32" OAL 7: 5.5" D X 15" OAL 8: 5.5" D X 21" OAL 9: 5.5" D X 31" OAL 10: 8" D X 28" OAL Tie On Filter Bags T2: 5 W" X 12" OAL T4: 9.5 W" X 12" OAL T6: 9.5 W" X 24" OAL T8: 12 W" X 12" OAL T10: 12 W" X 18" OAL T11: 12 W" X 20" OAL T10: 12 W" X 18" OAL T10: 12 W" X 18" OAL T10: 12 W" X 18" OAL	S Zinc SS Stainless Steel Ring P Polyform Seal™ PC Custom Plastic Flange PR Plastic Ring RP Ronnigen Petter Flange OR "O" ring C 7.5" Stainless Steel snap Band D Drawstring E Elastic	B Poly/Cotton Binding on Seam



Filter Bags

Felt All of Sampson's felt filter bags are constructed of the highest quality glazed needle felt. With micron ratings from 0.5 to 200, Sampson has a filter bag for your application. With welded or stitched seams, our filter bag media is available in polyester, polypropylene, nylon, viscose, and aramid fibers. Our felts go through a thermal treatment producing a glazed surface, greatly reducing fiber migration. All our bags are available in stitched or welded seams.



Mesh Our mesh filter bags are available in nylon, polypropylene, and polyester. The monofilament mesh offers optimal filtration and reduced pressure loss across the media. These durable bags may be cleaned and reused. Micron ratings from 1 to 2000 are available.



Plastic Flange All Sampson bag models are provided with a choice of support rings. These plastic molded flanges ensure the greatest seal possible. Zinc plated carbon steel as well as 304 SS are also options. All flanges have a convenient handle to simplify bag change out. These flanges fit all Sampson filter vessels as well as most manufacturer's pressure vessels.



Strainer Fabricated from almost any media (but most commonly constructed from polyester and nylon monofilament media), the simplest filter bag is the gravity flow strainer. Being the most economical choice for gravity flow coarse filtration, these strainer bags are produced with elastic tops, drawstring tops or raw top formats. Standard sizes include one, two, three and five gallon configurations and are used in a sized container to match.



Custom Design At ERE we understand the importance of your filtration problems, that is why our priority is to make sure that our filter bag will work for your application. This is possible with our versatile Sampson filter bag design, including a complete line of tie on and custom filter bags to suit any unique application. With virtually no limit to dimension and configuration we will custom tailor any bag to suit. Further, we produce a line of dust collector bags, filter press cloths, disc sector bags, and vortisive screens.



Roll Media Sampson stocks a wide variety of filtration media. Our felt or meltblown microfibers and laminates provides the proper micron retention and longevity for your application. We offer nominal medias from 0.5 to 2000 micron.



SAMPSON Filter Bag Media



FELTS Needled felt bags are effective in removing both solid and gelatinous particles. Felt filter bags operate on the principle of depth filtration and 100% pure fibers are needed to create a tortuous path in a 3-D medium. Materials available for felt filter bags are polypropylene, polyester, nylon, PTFE, and Nomex.

Felt Advantages Include:

- Capability of removing gelatinous media
- High dirt holding capacity
- Long service life
- Cost-effective filtration



MULTIFILAMENT MESH The multifilament mesh are woven in a specific, consistent pattern, each strand of mesh consisting of hundreds of interwoven fibers. Multifilament mesh filter bag operates on the principle of surface filtration, and are available in polyester with micron ratings from 100 to 800 microns. Multifilament mesh offers the lowest unit cost in filter bags.

MONOFILAMENT MESH Monofilament mesh filter bags are manufactured from mesh materials in which each strand is a single filament. Like the multifilament mesh, the monofilament mesh also operates on the principle of surface filtration and are available in both nylon and polypropylene with micron ratings from 5 to 800. Structurally very strong, the nondeformable filaments are woven in a uniform pattern and are fusion welded to provide extra durability.

Monofilament Mesh Advantages Include:

- High mechanical strength
- Absolute rated medium



OIL ADSORPTION The oil adsorption filter bag is designed not only to remove oils and hydrocarbons from liquids, but is effective for particle retention as well. The oil adsorption filter bag is manufactured from a combination of polypropylene felt, meltblown polypropylene and a protective polyester mesh cover.

Oil Adsorption Advantages Include:

- Ideal adsorption for oils and hydrocarbons
- Higher flow rates



MELTBLOWN POLYMERS Sampson's special high efficiency filter bags are manufactured with welded seams in polypropylene meltblown materials. These bags are manufactured from materials that are compliant with FDA standards for pharmaceutical, beverage and food applications.

Meltblown Advantages Include:

- Maximum dirt holding capacity
- Long service life



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The Sampson Filter Vessel line can accommodate any bag filter requirement. Our line of off the shelf and custom made vessels can handle your application, regardless of its complexity. The Sampson line of accessories can facilitate bag change out and optimize your process. Our product line is guaranteed to perform exceptionally and provide the reliability that Sampson filters are known for.

A. Bag Holddown Rings The various Sampson vessels have different types of holddown rings to ensure the proper seating of the filter bags in the restrainer basket.

B. Restrainer Baskets Sampson restrainer baskets are available in the standard 304 and 316SS material as well as in a variety of other different materials to meet your applications. The design can vary to better suit your specific needs.

C. O-Ring Seals All metal filter vessels are fitted with BUNA N^o O-Rings. Other options include Viton, Teflon, Silicone Rubber or Teflon Encapsulated Viton. O-Rings are necessary to ensure a proper water tight seal on the vessel, regardless of the fluid to be filtered.

D. Displacement Balloons The displacement balloon minimizes the residual liquid in the vessels during filtration. This reduces product loss during bag change out as well as expensive drainage systems.

E. Bag Positioner The bag positioner places and maintains the bag in its proper place at all times during filtration, eliminating up and down movement due to variable pressure drops. Sampson provides size 1 and 2 Bag Positioners.

F. Mesh Strainers All filter bag vessels may be fitted with 316 mesh strainers instead of restrainer baskets and filter bags. This accessory converts the Sampson filter vessel into a strainer filter. Mesh strainers are available in all vessel sizes, in micron ratings from 25 to 4000.

G. Magnetic Strainers Magnetic strainers will attract all metallic particles from prematurely saturating the filter bag. The strainers extend bag life and capture finer particulates when a coarse filter bag is used. Available in sizes 1 and 2.

H. Leg Assembly All standard filter vessels have height-adjustable legs, allowing the best placement of the housing for plumbing purposes.

I. Manifold Modules Sampson offers a variety of standard pipe configurations to permit the use of multiple vessels for same stream filtration. Flanges, tees and flanged manifolds are available in all sizes from 1" to 4" standard.

J. Miscellaneous Butterfly ball valves, gauges, eye bolts, clamp screws and other vessel parts and accessories are available for all Sampson bag filter housings.



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Adapter Head and Basket (Not Shown) Used in conjunction with SNAP-RING filter bags in gravity feed open systems. Adapter heads are available in 316 SS and polypropylene with 1.5" or 2" NPT. No support basket is required for pressures to 10 psi. Above that, to 20 psi maximum, a basket support is recommended.