

SUPPORT BASKETS & SPECIALTY BASKETS

PERFORATED SUPPORT BASKETS

Stainless Steel Support Baskets accommodate filter bag sizes #1, 2, 4 and 5.

Filtration Systems' Support Baskets have a perforated wall, and a solid, hemispherical bottom to fully support our filter bags. This patented design promotes "lateral fluid dispersion", resulting in increased solids loading capacity, and greater differential pressure capability of the filter bags.

Staggered pattern, perforated holes (9/64" diameter) maximize the usable surface area of any filter bag and provide greater basket strength than straight-line pattern perforations. Basket bottom has drainage holes and walls have a longitudinal taper to assist with filter bag removal.

Perforated Support Baskets are available in T-316 or T-304 stainless steel and are offered in size #1, 2, 4 and 5. Support Baskets are required when using liquid filter bags.



PERFORATED STRAINER BASKETS

Heavy-duty Perforated Strainer Baskets convert size #1, 2, 4, and 5 filter vessels into high-capacity liquid strainers. When our filter housings are used with Strainer Baskets they allow heavy dirt loading at high flow rates. Perforated Strainers are reusable and may be pressure cleaned, if required.

To maximize the usable surface area of the Strainer Basket, holes are punched in a staggered pattern. Constructed of T-304 stainless steel, strainers have a lift-out handle and a solid, flat bottom. Strainer Baskets are available with the following perforations:

1/2"	3/8"	1/4"	3/16"	9/64"	3/32"	1/16"	3/64"
(.500)	(.375)	(.250)	(.1875)	(.1406)	(.0938)	(.0625)	(.0469)

TRIPLE-WALL, MESH AND MICRON LINED BASKETS

These reusable baskets provide liquid straining and filtering at various levels of mesh and micron ratings. The lining specified is embedded between two perforated structural walls, allowing sustained pressure in both directions, and protecting it from harsh brushing or hose spray while cleaning. Fully welded construction assures that no particle bypass occurs around the welded seams. Ideally suited for high temperature applications and/or aggressive service, baskets are constructed of stainless steel and include a Buna sealing gasket.

Mesh: 20, 30, 40, 50, 60, 70, 80, 100, 150, 200 Industrial Service

Micron: 40, 90, 160, 250 Industrial Service
5, 10, 15, 25 Light-Duty, Specialty Use



SPECIALTY BASKETS



MESH SUPPORT BASKETS

Type 316 stainless steel (8x8 mesh) basket accommodates filter bag sizes #1 and 2. These baskets have a tapered, cone-shaped bottom.

CANISTER BASKETS

This accessory basket is used with a filter bag in a *Filtration Systems* housing to hold granular materials, such as activated carbon, diatomaceous earth, or resins. The addition of granular materials during the filtration process can alter the composition of liquids passing through the charged canister. For example, liquid polishing to remove odor, taste, and color can be accomplished using granular, activated carbon. To maximize the life of the granular material and prevent channeling, Canister Baskets include a liquid diffuser which promotes a spray effect. This T-316 stainless steel basket has a solid wall and a perforated bottom.



FILTER BASKET WITH MAGNETIC INSERT

Specialty filter baskets designed with a high-strength magnetic insert for efficient removal of iron contaminants. Each basket features a 12K Gauss stainless steel magnet and an integrated handle for easy removal, cleaning, and replacement. Magnetic Inserts are available with Perforated Strainer Baskets or Triple-Wall Mesh and Micron-Lined Baskets in a range of micron ratings. Constructed from T-316 stainless steel food-grade components. Available in basket sizes 1, 2, 4, and 5.

HALAR® COATED ACCESSORIES

Halar fluoropolymer is a thermoplastic manufactured by Solvay Solexis, Inc. It is electrostatically applied, then baked in multiple coats, to all wetted surfaces of *Filtration Systems* single filter vessels, as well as most baskets, perforated strainers, and accessories. **Halar** fluoropolymer coating...

- 1 Offers a broad range of chemical resistance qualities which are useful when filtering liquids that are incompatible with stainless or carbon steel.
- 2 Assures a seamless filtering environment, ideal for high-purity applications.
- 3 Resists peeling and is extremely durable.

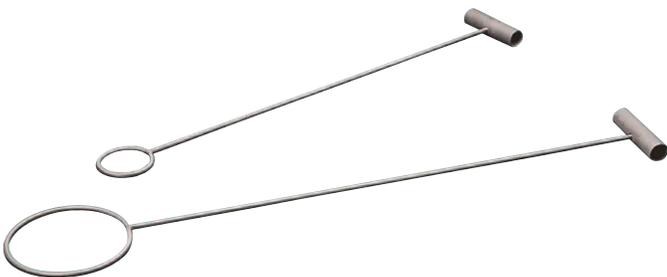
Filtration Systems is recognized as a qualified **Halar** applicator.

Halar is a registered Trademark of Solvay.



FILTER BAG RESTRAINER

Users are assured that a filter bag is properly seated and fully extended by placing the Filter Bag Restrainer into the bag, and then installing the bag (with restrainer) into the support basket. To keep the bag extended and maximize its usable surface area, the restrainer remains in the bag during the filtering process. This accessory can prevent the bag from “floating” as a result of back pressure, and may reduce media erosion due to pump vibration. A diffuser plate helps protect the bag from surges of liquid or pressure spikes. This product has a convenient handle and is fabricated of T-316 stainless steel.



FILTER BAG INSERT

This accessory facilitates easy installation of filter bags, eliminating the need for technicians to reach into the bag during installation. The maximum surface area of the filter bags is used when the bag is properly seated and fully extended with this device. The Filter Bag Insert is fabricated of T-316 stainless steel with a comfort handle.



LIQUID DISPLACER

Placed into a filter bag prior to start-up, this accessory remains in the bag during the filtration process. When removed, liquid volume remaining in the bag is reduced, minimizing product loss and facilitating filter bag changeout. Liquid displacers are available in stainless and carbon steel for size #1 and 2 housings, and are equipped with a lift-out handle.



PREFILTER BASKET

This reusable strainer can be placed inside a filter bag as a prefilter to capture larger particles upstream of the bag, providing dual-stage filtration within a single housing. The Prefilter Basket can be removed from the housing, independent of the bag, and emptied, to provide extended filter bag life. Constructed of perforated T-316 stainless steel, the prefilter has a 90, 160, or 250 micron-rated liner.

TWO-PIECE THERMAL JACKETS

Thermal Jackets are used to maintain a desired liquid temperature during the filtration process. Jackets can accept steam, hot oil, water, heat transfer fluids, or refrigerants. The dimpled pattern design of our jacket provides highly efficient thermal transfer.

This product is easily installed in the field by bolting two halves together, creating a tight fit on the outside of the filter vessel. Jackets are stackable and may be used in sets or singularly. Half-jackets can accommodate many vessel configurations to provide maximum coverage. Thermal Jackets have 3/4" NPT connections and bear an ASME "U" Stamp. Available in 10", 20" and 30" lengths, for 8" diameter housings, they are fabricated of stainless steel and rated for 150psi at 450°F. Thermal Jackets can retrofit most competitors' 8" diameter housings. Jackets are sold in sets.



NS-130 filter housing shown with a 20" half-jacket and a 10" half-jacket.



AMERICAN FELT & FILTER, GAF/ISP SUPPORT BASKETS AND SPECIALTY BASKETS

Perforated or Mesh Support Baskets and Specialty Baskets for AM/RB Series #1 and 2 size filter vessels are constructed of T-316 stainless steel. Specialty Baskets include Strainers, Mesh and Micron Lined Baskets, Canister Baskets, and Cartridge Chambers. These baskets require two O-Rings that fit into machined grooves on the top and the bottom of the basket flange.

CARTRIDGE CHAMBERS

Insertion of the Chamber into any of our housings converts the vessel into a cartridge housing, without modification of piping or change of liquid flow path. These removable, positive sealing Chambers hold four standard cartridge filters in a "Cluster of Four" arrangement.

Cartridge Chambers are available in three sizes to hold standard 10", 20", and 30" length Cartridge Filters.

Use one 20" Chamber for all Model 122 Housings, one 10" Chamber for all Model 112 Housings, or one 30" Chamber for all Model 130 Housings.



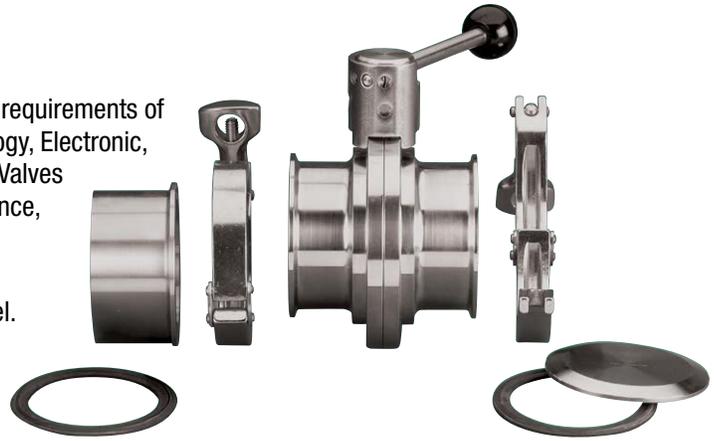
SPECIALTY VALVES

SANITARY VALVES & FITTINGS

Filtration Systems Butterfly Valves and Fittings meet the stringent requirements of sanitary applications, including Dairy, Pharmaceutical, Biotechnology, Electronic, Cosmetic, and Food & Beverage Industries. Clamp-style, Sanitary Valves allow Clean in Place (CIP) capability or easy removal for maintenance, sanitation, or sterilization.

Four-position Butterfly Valves are designed in accordance with 3-A Sanitary Standards, and are fabricated of T-316 stainless steel. Valve sizes include 1", 1-1/2", 2", 2-1/2", 3", or 4", with EPDM Seals (Silicone and Viton Seals also available). Sanitary Fittings (ferrules) are fabricated of T-316L stainless steel and match Tri-Clamp® brand connections. Fittings are available in 1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", or 4". Sanitary Butterfly Valves and Fittings are sold separately, and are optional on all *Filtration Systems* Housings.

Tri-Clamp is a registered Trademark of Alfa Laval, Inc.



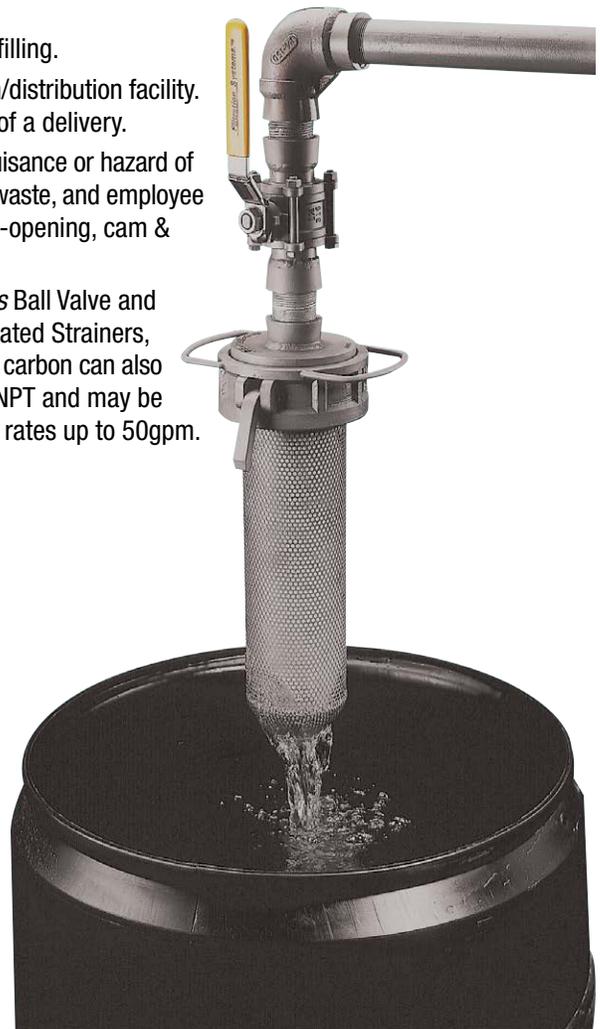
PIPE-END FILTER SYSTEM

This system is ideally suited for various types of liquid straining and filtering applications, typically found in industry, including:

- 1 Permanent installation to a Pipe-End for bulk loading or high-volume tank filling.
- 2 Connection to an industrial hose for filtering liquid deliveries to a production/distribution facility.
The filter bag may be removed and easily inspected to evaluate the purity of a delivery.

The Pipe-End Filter System provides effective, low-cost filtration without the nuisance or hazard of spillage. A shut-off valve isolates the filter during bag change-out, minimizing waste, and employee exposure. Handles allow easy removal of the basket and filter bag. The quick-opening, cam & groove mechanism is easier to use than clamp-style, unsupported devices.

Constructed of T-316 stainless steel, the system includes a *Filtration Systems* Ball Valve and a Perforated Support Basket for #5 size filter bags (4" dia. x 24" long). Perforated Strainers, Micron-Lined Baskets, Cartridge Chambers, and Canister Baskets for activated carbon can also be used with the Pipe-End Filter System. The standard connection is 1-1/4" NPT and may be modified to fit larger diameter pipes or hoses (up to 3"). It is suitable for flow rates up to 50gpm.



HOUSING ACCESSORIES



AUXILIARY VALVES

Filtration Systems housings feature a vent port in the lid and upstream and downstream drain ports for installation of Auxiliary Valves. A vent valve may be installed at the top of the lid to remove air pockets from process fluid lines and promote faster gravity drainage when used in conjunction with the inlet and outlet drain valves. A drain valve may be installed in the upstream drain port to facilitate the sampling of pre-filtered liquid. A valve installed in the downstream drain port located at the base of the filter allows the collection of filtered liquid after the vessel is taken off-line. During operation, this valve may also be used for sampling filtered liquid.

Ball valves are available in stainless steel or brass and are supplied with stainless steel nipples. *Filtration Systems* housings are equipped with the following threaded ports:

Vent Port: 1/4" NPT (all housings)

Upstream Drain Port: 1/4" NPT (all housings)

Downstream Drain Port: 3/4" NPT (#1 & 2 size)
1/2" NPT (#4 & 5 size)



PRESSURE GAUGES

All *Filtration Systems* housings feature two gauge ports (1/4" NPT) for monitoring upstream and downstream pressure. The difference between the two pressure readings, known as differential pressure, indicates when a filter bag is blinding and requires change-out. Gauges have a 2-1/2" dial, 1/4" NPT connections, and are back-center mounted. Available pressure ranges include 0–100 psi, 0–160 psi, and 0–300 psi. Each gauge is constructed with a stainless steel case and can be specified with either brass or stainless internals.



BALL VALVE LOCKOUT ASSEMBLY

Filtration Systems Ball Valve Safety Lockout Assemblies restrict movement of the handle on inlet and outlet ball valves, providing an essential safety upgrade for filter systems in industrial liquid processing environments. Designed specifically for use with *Filtration Systems* valved filter housings. Lockout Assemblies are sold in sets of two to secure both inlet and outlet valves.

REPLACEMENT PARTS & ACCESSORIES



REPLACEMENT LID SEALING HARDWARE

Filtration Systems Over-The-Top[®] vessels utilize four swing-bolt assemblies to secure the lid. The replacement hardware is available in stainless or carbon steel for *Filtration Systems* ASME Code and Industrial Grade Filters. Each hardware assembly consists of four component parts: bar knob, eyebolt, axle bolt, and axle nut.



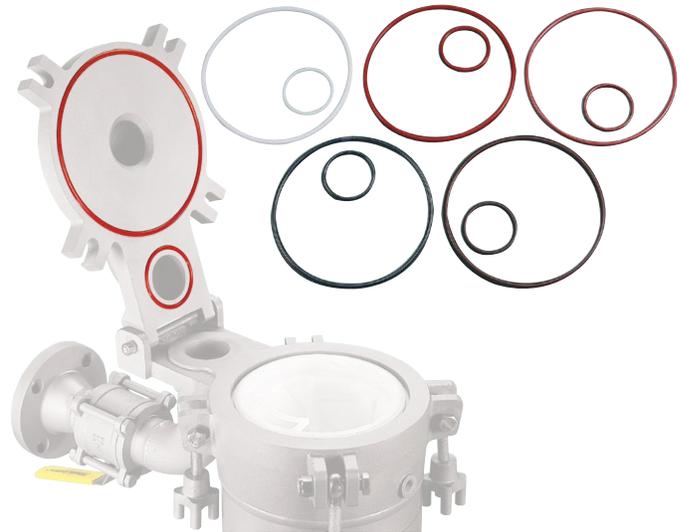
ADJUSTABLE TRIPOD STANDS AND WALL BRACKETS

Available in stainless and carbon steel for size #1, 2, 4, and 5 filter vessels, these Tripod Stands allow the user to raise and lower the filter vessel, as required. A Wall Bracket is available for mounting #4 & 5 size housings to a wall.



BAR KNOB WRENCH

Although no special tools are required to seal our housings, a Bar Knob Wrench is an ideal accessory. This convenient device allows operators to quickly torque or loosen the lid closure nuts (bar knobs) of a filter vessel. This ratchet wrench is fabricated of plated carbon steel and may be used on all *Filtration Systems* housings.



O-RINGS

Two O-Rings are required in the lid of each *Filtration Systems* housing for proper sealing. Housings are typically shipped with Buna O-Rings installed. Alternate O-Ring materials include EPR/EPDM, Neoprene, Silicone, Teflon[®], Viton[®], AFLAS[®], Encapsulated FEP/Silicone, and Encapsulated FEP/Viton. Replacement O-Rings are sold in sets of two: one large & one small. Always check chemical and thermal compatibility with the liquid to be filtered.

TEFLON is a Registered Trademark of the DuPont Company

VITON is a Registered Trademark of DuPont Dow Elastomers

AFLAS is a Registered Trademark of Asahi Glass Co., Ltd.

Product Identification: All *Filtration Systems* filter vessels have a unique serial number that can be identified by our factory. Nameplates, specifying both the serial number and maximum allowable pressure and temperature ratings, are permanently affixed to all housings.

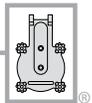
Product Specifications: With over 50 years of industry expertise and proven performance, *Filtration Systems* offers quality products at responsible prices. We continually strive to improve our products through ongoing research and development; therefore, we reserve the right to change specifications without notice.

Warranty: *Filtration Systems* warrants our products to be free from defects in workmanship for a period of one year from the date of purchase, when used in accordance with our specific guidelines. Our only obligation and a customer's remedy, subject to our inspection and evaluation, shall be to replace the product or refund the purchase price.

Limitation of Liability: *Filtration Systems* shall not be held responsible or liable for any loss resulting from the resale, direct or indirect misuse, incidental or consequential damages, arising out of the use of this product.

Filtration Systems

Division of Mechanical Mfg. Corporation



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