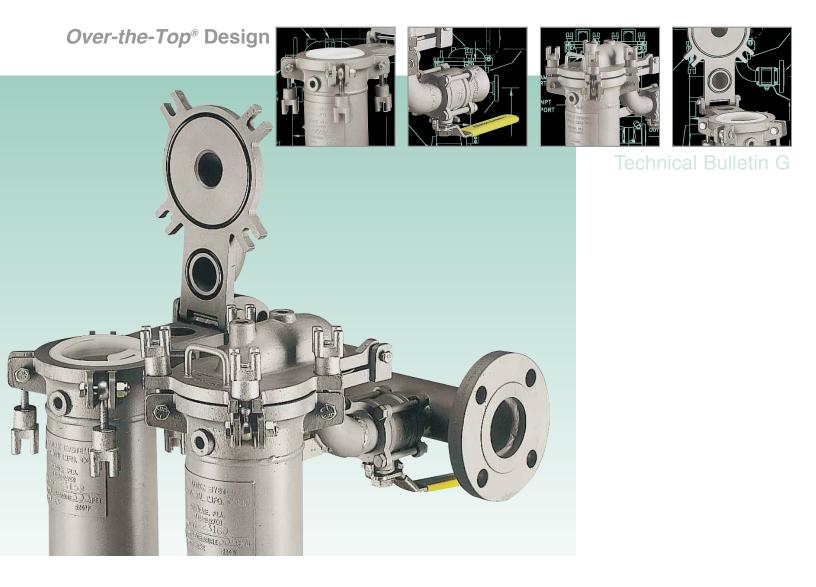
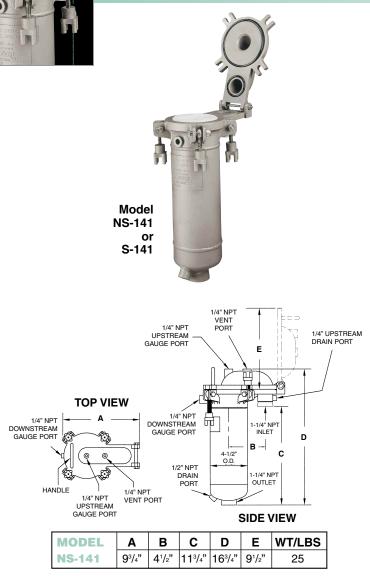
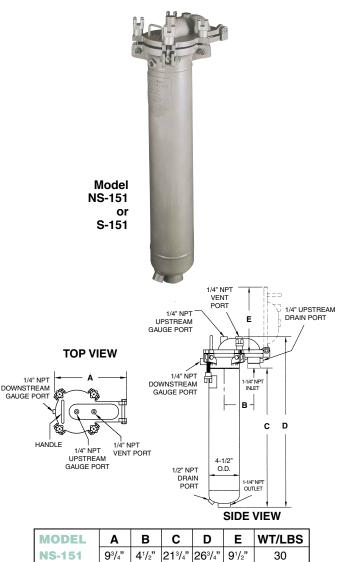
Miniature Liquid Filter Bag Housings





INDIVIDUAL FILTER HOUSINGS





Description

Miniature Liquid Filter Housings provide the ideal solution for straining and fine filtration at lower flow rates or when space is at a premium. Their compact size, low cost, and ability to accommodate a variety of filter media make Miniatures highly versatile for industrial applications. Individual, Valved-Individual, and Duplex models accommodate size #4 (4"dia. x 14"long) or #5 (4"dia. x 24"long) filter bags, cartridges, or strainer baskets.

Filtration Systems Miniature Liquid Filter Housings feature *Over-The-Top®* design. Compression of our *Zero-Bypass®* bag collar between the housing lid and the top of the support basket provides a positive 360-degree seal, preventing bypass of unfiltered liquid. Solids are trapped and collected in the bag, eliminating clean up of the vessel interior during bag change-out.

All housings are built to ASME specifications and may be ordered with an optional U-Stamp. Vessels are available in T-316 stainless steel or carbon steel, rated for 300psi @ 400°F. Alternate inlet and outlet connections may be ordered to allow the vessels to be placed directly in line with existing process piping.

Valved, Individual Housings allow liquid flow to be shut off at the unit, rather than at a distant source, saving time during media change-out.

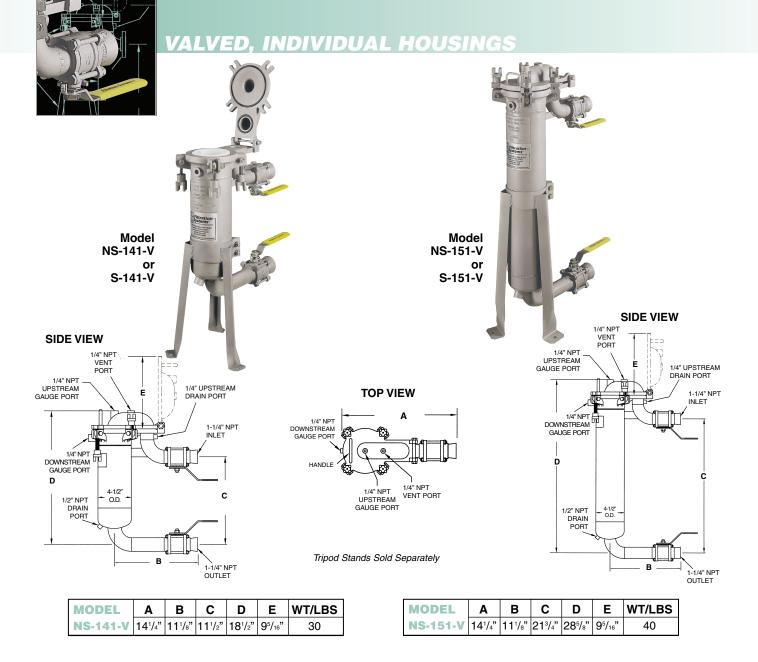
Valved, Duplex Filter Systems allow increased flow rates by using both housings simultaneously. Two stainless steel ball valves, on the inlet and

outlet of each vessel, function as shut-off valves, isolating individual housings from the filtering process. Each vessel operates independently, allowing continuous service during media removal and replacement.

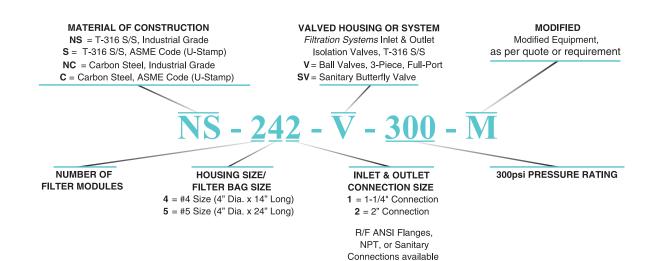
Miniature Duplex Systems are equipped with two inlet and two outlet connections. Alternate connection ports allow users the option of choosing any inlet and outlet site(s) to accommodate space and piping requirements. Unused ports are sealed with user-furnished blind flanges. Duplex Systems are available in 150 or 300psi with corresponding flanges. Filtration Systems versatile, modular design provides simplified installation, equipment expansion, and header inspection and cleaning. Systems are shipped fully assembled, built on a stable frame, and require no anchor bolts for installation.

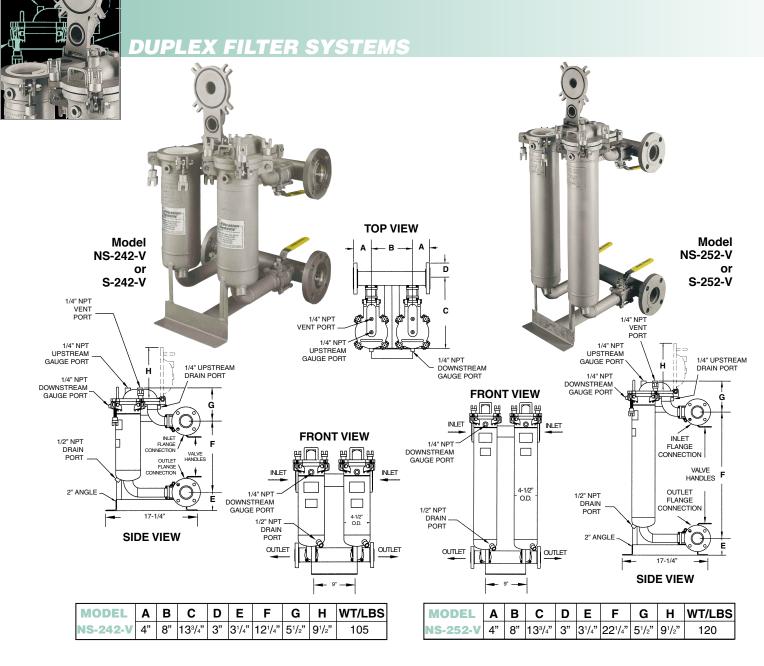
Standard Features

Over-The-Top Design Built to ASME Code Standards T-316 Stainless Steel or Carbon Steel Available in 300psi Max. Working Pressure 400°F Max. Working Temperature Investment Cast Lid and Body Hinged Lid with Handle, Built-in Lid Stop, and Safety Detents Perforated, T-316 S/S Support Basket with Longitudinal Taper Gauge Ports, Vent Ports, Drain Ports Buna-N O-Rings



MODEL NUMBER CODING SYSTEM







PIPE-END FILTER SYSTEM

The **Pipe-End Filter System** is ideally suited for various types of liquid straining and filtering applications typically found in industry. Examples of its versatility include:

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 and hazard of spillage. A shut-off valve isolates the filter during bag change-out, minimizing waste and employee exposure. Handles provide 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 1¹/₄" NPT and may be modified to fit larger diameter pipes or hoses (up to 2"). It is suitable for flow rates up to 50gpm.







Interior Polished Finishes: Interior Polished Finishes for beverage, pharmaceutical, dairy, and other critical applications.



Perforated Strainers and Lined Baskets:

Heavy-duty perforated baskets convert filter vessels into high-capacity liquid strainers. Micron Lined Baskets and Cartridge Chambers are also available.



Halar[®] Lining: HALAR Fluoropolymer Lining offers a broad range of chemical resistance properties, a seamless filtering environment, and a safe alternative to plastic housings.

- Modified Connections: Flanged, Threaded, or Sanitary
- Stainless Steel Hardware Upgrade
- Adjustable Tripod Stands and Wall Brackets
- Interior Polished Finishes, including 3A Sanitary
- HALAR Fluoropolymer Lining
- Epoxy Coating, interior, exterior & stand
- Mesh & Micron Lined Baskets, S/S
- Perforated Strainer Baskets, S/S

- Cartridge Chambers, S/S
- Alternate Outlet Locations
- Additional Ports
- Drain Valves, Vent Valves, Pressure Gauges
- Assorted O-Ring Materials
- PED Pressure Equipment Directive
- ASME U-Stamp

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HIGH PERFORMANCE LIQUID FILTER BAGS

Filtration Systems vessels and filter media are designed to work together as a system, maximizing performance and results.

- Efficiency Ratings up to 99.98%... provides absolute rated performance
- Fully Welded Construction... eliminates solids bypass
- Zero-Bypass[®] Bag Collar... assures an optimum compression seal
- Integrated Polymeric Support[®]... provides superior mechanical strength
- Ratings from 0.2 to 800 Microns... absolute or nominal ratings



Ultrafit® Welded and *Accufit®* Welded Liquid Filter Bags

STANDARD SPECIFICATIONS AND FEATURES

MINIATURE HOUSINGS		INDIVIDUAL FILTER HOUSINGS		VALVED, INDIVIDUAL HOUSINGS		VALVED, DUPLEX SYSTEMS	
		141	151	141-V	151-V	242-V	252-V
FILTER BAG SIZE		#4 (4" dia. x 14" long)	#5 (4" dia. x 24" long)	#4 (4" dia. x 14" long)	#5 (4" dia. x 24" long)	TWO, #4 SIZE (4" dia. x 14" long)	TWO, #5 SIZE (4" dia. x 24" long)
MAXIMUM FLOW RATE* (without Filter Media)		55 gpm @ 1.1 psid	80 gpm @ 1.5 psid	55 gpm @ 1.1 psid	80 gpm @ 1.5 psid	110 gpm @ 1.1 psid	160 gpm @ 1.5 psid
LIQUID VOLUME (gal/water)		.75 gal	1.4 gal	1.0 gal	1.5 gal	2.25 gal	3.5 gal
CODE STATUS		Industrial Grade or ASME Code (U-Stamp) Note: ASME Code jurisdiction ends at the Inlet and Outlet Elbow of each module					
MATERIAL OF CONSTRUCTION		T-316 S/S or Carbon Steel, Investment Cast Lid & Body					
LID CLOSURE		360° Hinged Closure with Lid Handle, Safety Detents, and Lid Stop					
MAXIMUM WORKING PRESSURE**		300psi					
MAXIMUM WORKING TEMPERATURE		400°F					
MAXIMUM SUPPORT BASKET DIFFERENTIAL OPERATING PRESSURE		100psi					
INLET & OUTLET CONNECTIONS		1-1/4" NPT				2" Flanges, 300psi, R/F, ANSI (150psi Flanges on 150psi System optional)	
BALL VALVES: 1 ¼" FULL PORT, T-316 S/S & TEFLON, 800psi		N/A	N/A	2	2	4	4
FINISH	S/S Housings:	Blasted Finish, Interior, Exterior & Basket					
	Carbon Housings:	One Coat Shop Primer, Exterior					
HARDWARE		Plated Carbon Steel Bar Knobs & Eye Bolts					
PERFORATED SUPPORT BASKETS		T-316 S/S with Longitudinal Taper, 9/64" Perforations (1 per housing)					
GAUGE PORTS		1/4" NPT (2 per housing)					
VENT PORTS		1/4" NPT (1 per housing)					
UPSTREAM DRAIN PORT		1/4" NPT (1 per housing)					
DOWNSTREAM DRAIN PORT		1/2" NPT (1 per housing)					
O-RINGS		Buna-N, Installed					
STAND / FRAME	S/S Housings:	Tripod Stand or Bracket Sold Separately				S/S Frame	
	Carbon Housings:	Tripod Stand or Bracket Sold Separately			Carbon Steel Frame		
SHIPPING WEIGHT (LBS)		25 lbs	30 lbs	30 lbs	40 lbs	105 lbs	120 lbs

* Flow Rates are based on water in a housing without filter media. Actual flow rates are determined by the specific filter media selected, as well as the characteristics of the application. ** Units are Hydrostatically Tested to 1-1/2 times the Maximum Working Pressure.



ADJUSTABLE TRIPOD STANDS and WALL BRACKETS

Adjustable Tripod Stands allow the user to raise and lower a filter vessel, as required. Wall Brackets allow Miniature Housings to be mounted to a wall. Stands and Brackets are available in stainless or carbon steel for #4 or #5 size filter housings. Sold separately.



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 30 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 10304 N.W. 50th Street • Sunrise, FL 33351 USA Tel: 954-572-2700 • Fax: 954-572-3401 www.filtrationsystems.com

ISO 9001:2015 Certified

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