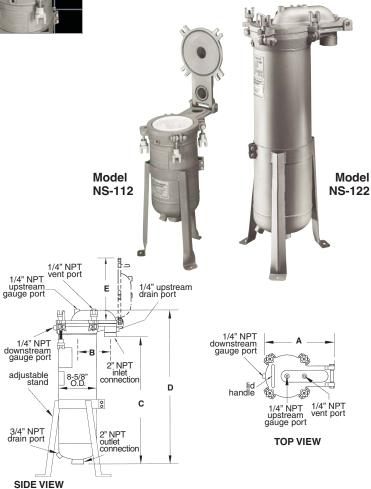
# Industrial Grade Liquid Filter Bag Housings







# INDIVIDUAL FILTER VESSELS



MODEL	Α	В	C	D	Е	WT/LBS
NS-112	15"	7-1/2"	14"	20-7/16"	15"	85
NS-122	15"	7-1/2"	28"	34-1/8"	15"	100
Adjustable Tripo	d Stand: 17	7" H, 12" b	olt hole ci	rcle, Band:	2" wide, 8	3-5/8" I.D.

#### **Description**

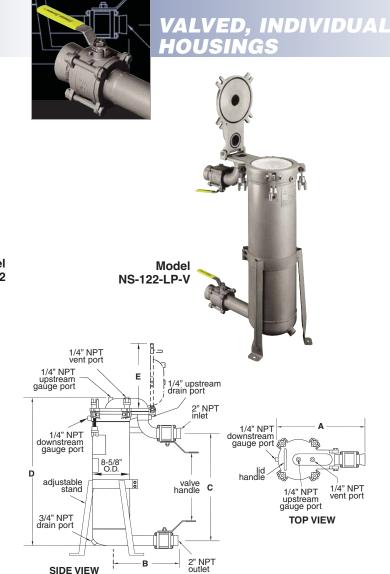
Filtration Systems *Over-The-Top*® design Industrial Grade Liquid Filter Housings provide the ideal solution for fine filtration or straining applications. Compression of our *Zero-Bypass*® bag collar between the housing lid and the top of the support basket provides a positive 360-degree seal, preventing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

Filter housings accommodate a variety of filter media, making them highly versatile for industrial, pharmaceutical, water, beverage, and other process applications. Individual, Valved Individual, and Multi-Housing Systems accommodate size #1 (7"dia. x 16"long) or #2 (7"dia. x 33"long) filter bags, cartridges, or strainer baskets.

Vessels are T-304 stainless steel or carbon steel, 150psi/300°F, valved or non-valved. Alternate inlet and outlet connections may be ordered, allowing 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. A Low-Profile Horizontal Outlet is a standard feature of Valved, Individual Housings.

Multi-Housing Filter Systems are available with 2 to 12 modules, providing increased flow rate capacity by using multiple housings



MODEL	Α	В	C	D	E	WT/LBS				
NS-122-LP-V	21"	16-5/16"	24"	33-11/16"	15"	110				
Adjustable Tripod Stand: 17" H, 12" bolt hole circle, Band: 2" wide, 8-5/8" I.D.										

simultaneously. Valved versions have stainless steel ball valves on the inlet and outlet of each vessel. Functioning as shut-off valves, they isolate individual housings from the filtering process, allowing continuous service of the remaining housings during media removal and replacement.

All Multi-Housing 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. *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

150psi Max. Working Pressure - 300°F Max. Working Temperature Investment Cast Lid and Body

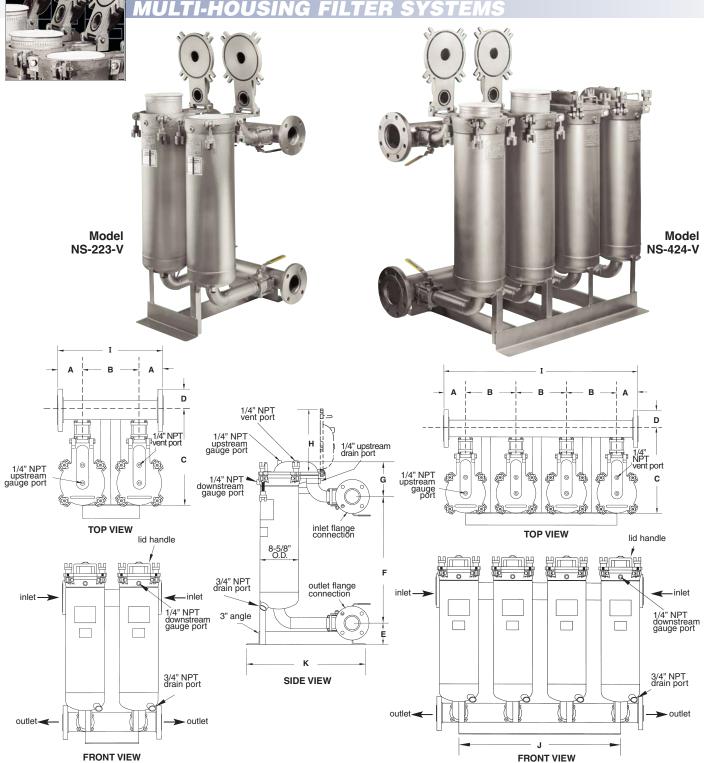
Hinged Lid with Handle, Built-in Lid Stop, and Safety Detents Perforated T-304 S/S Support Basket with Longitudinal Taper Gauge Ports, Vent Ports, Drain Ports

Buna-N O-Rings

Adjustable Tripod Stand, or Frame



## MULTI-HOUSING FILTER SYSTEMS



MODEL	NO. OF HOUSINGS	FLANGE SIZE (INCHES)	*MAXIMUM FLOW RATE (GPM)	LIQUID VOLUME (gal/water)	2 TO 12 MODULES AVAILABLE ALL DIMENSIONS ARE IN INCHES						SHIPPING WEIGHT (LBS)					
		(INCHES)	@ 2.2psid	(gai/water)	Α	В	C **	D	Е	F	G	Н	I	J	K **	(LDS)
-223-V	2	3	440	15.6	5	12	21 3/4	3 3/4	4 3/4	28	8 1/4	15	22	13	27	275
-324-V	3	4	660	24.6	5	12	22 1/2	4 1/2	5 1/4	28	8 1/4	15	34	25	27 1/2	430
-424-V	4	4	880	32.8	5	12	22 1/2	4 1/2	5 1/4	28	8 1/4	15	46	37	27 1/2	550
-526-V	5	6	1100	48.0	5	12	23 1/4	5 1/2	6 1/4	28	8 1/4	15	58	49	30	680
-626-V	6	6	1320	57.6	5	12	23 1/4	5 1/2	6 1/4	28	8 1/4	15	70	61	30	820
-726-V	7	6	1540	67.2	5	12	23 1/4	5 1/2	6 1/4	28	8 1/4	15	82	73	30	950
-826-V	8	6	1760	76.8	5	12	23 1/4	5 1/2	6 1/4	28	8 1/4	15	94	85	30	1090
-928-V	9	8	1980	115.1	5	12	24 1/4	6 3/4	7 3/4	28	8 1/4	15	106	97	30	1365
-1028-V	10	8	2200	127.9	5	12	24 1/4	6 3/4	7 3/4	28	8 1/4	15	118	109	30	1530
-1128-V	11	8	2420	140.6	5	12	24 1/4	6 3/4	7 3/4	28	8 1/4	15	130	121	30	1700
-1228-V	12	8	2640	153.4	5	12	24 1/4	6 3/4	7 3/4	28	8 1/4	15	142	133	30	1875

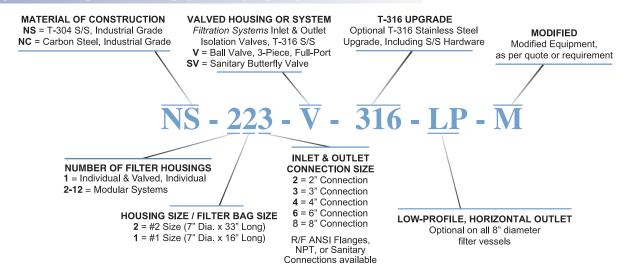
<sup>\*</sup>Flow Rates are based on water in a housing without filter media. Actual flow rates are determined by the specific filter media selected, as well as the characteristics of the application. \*\* For Non-Valved Systems, subtract 5".

# STANDARD SPECIFICATIONS AND FEATURES

INDUSTRIAL GRADE HOUSINGS			IDUAL VESSELS	VALVED, INDIVIDUAL HOUSINGS	NON-VALVED MULTI-HOUSING SYSTEMS	VALVED MULTI-HOUSING SYSTEMS					
		112	122	122-LP-V	2 - 12 Housings	2 - 12 Housings					
FILTER BAG SIZE		#1 (7"dia.x 16" long)	#2 (7"dia.x 33" long)	#2 (7"dia.x 33" long)	#2 (7"dia.x 33" long)	#2 (7"dia.x 33" long)					
MAXIMUM FLOW RATE* (without filter media)		110 gpm @1.1psid	nal Chart, pg. 3								
LIQUID VOLUME (gal/water)		3.6gal 6.6gal 6.9gal See Dimensional Chart, pg. 3									
CODE STATUS		Industrial Grade Built to ASME Code Standards									
MATERIAL OF CONS	TRUCTION	T-304 S/S <b>or</b> Carbon Steel, Investment Cast Lid & Body									
LID CLOSURE		360° Hinged Closure with Lid Handle, Safety Detents, and Lid Stop									
MAXIMUM WORKING	PRESSURE	150psi									
MAXIMUM WORKING	TEMPERATURE	300°F									
MAXIMUM SUPPORT BASKET DIFFERENTIAL OPERATING PRESSURE		100psi									
INLET & OUTLET CO	NNECTIONS		2" NPT		See Dimensional Chart, pg. 3						
BALL VALVES: 2" FULL PORT, T-316 S/S & TEFLON, 800psi		N/A	N/A	2	N/A	2 per Housing					
FINISH	S/S Housings:	Blasted Finish, Interior, Exterior & Basket									
	Carbon Housings:			One Coat Shop P	rimer, Exterior						
HARDWARE		Plated Carbon Steel Bar Knobs & Eye Bolts									
PERFORATED SUPPORT BASKETS		T-304 S/S with Longitudinal Taper, 9/64" Perforations (1 per housing)									
GAUGE PORTS		1/4" NPT (2 per housing)									
VENT PORT		1/4" NPT (1 per housing)									
UPSTREAM DRAIN PORT		1/4" NPT (1 per housing)									
DOWNSTREAM DRAIN PORT		3/4" NPT (1 per housing)									
O-RINGS		Buna-N, Installed									
STAND/FRAME	S/S Housings: Carbon Housings:		Adjustable Tripod Steel Adjustable T		S/S Frame Carbon Steel Frame						
LOW-PROFILE, HORI	ZONTAL OUTLET	Optional	Optional	Standard	Optional	Optional					
SHIPPING WEIGHT (LBS)		85 lbs	100 lbs	110 lbs	See Dimensional Chart, pg. 3						

<sup>\*</sup> 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.

#### **MODEL NUMBER CODING SYSTEM**



# **AVAILABLE OPTIONS**



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



and Lined Baskets:
Heavy-duty perforated baskets
convert filter vessels into highcapacity, liquid strainers. Micron
Lined Baskets are available for
finer filtering applications.

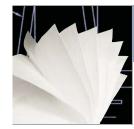


Halar® Lining:
HALAR Fluoropolymer Lining
offers a broad range of chemical
resistance properties, a seamless
filtering environment, and a safe
alternative to plastic housings.

- T-316 Stainless Steel Upgrade, Including S/S Hardware
- Modified Connections: Flanged, Threaded, or Sanitary
- · Low-Profile, Horizontal Outlets
- Interior Polished Finishes, including 3A Sanitary
- HALAR Fluoropolymer Lining
- · Epoxy Coating, interior, exterior & stand
- · Mesh or Micron Lined Baskets, S/S
- Perforated Strainer Baskets, S/S
- Cartridge Chambers, S/S

- Thermal Jackets, Two-Piece, Stainless Steel
- Actuated Valves, Pneumatic or Electric
- Alternate Outlet Locations
- Additional Ports
- Drain Valves, Vent Valves, Pressure Gauges
- Assorted O-Ring Materials
- PED Pressure Equipment Directive, <€ marking

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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



# LOW-PROFILE, HORIZONTAL OUTLET

#### LOWER WORKING HEIGHT MEANS EASIER FILTER BAG CHANGE-OUT

The Low-Profile, Horizontal Outlet is a one-piece investment casting exclusive to the *Filtration Systems* product line. This option lowers the working height of the filter vessel by 4" on Individual Housings and 3" on Multi-Housing Systems, eliminating the need for a ladder or platform when changing filter bags. As a result, ergonomic related injuries and accidental spills during change-out may be reduced.

This self-draining outlet is optional on all stainless or carbon steel Individual Housings and Multi-Housing Systems.

The "LP" upgrade is available with flanged, threaded, or sanitary connections.



#### **LOW-PROFILE CONFIGURATION OPTIONS**

#### "C" Configuration (Inlet over Outlet)

The outlet of the filter vessel is on the same plane as the inlet, or in the shape of the letter "C", in a profile view.

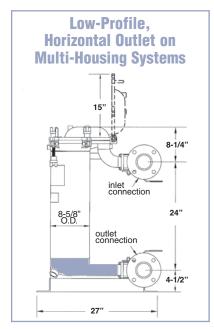
#### "S" Configuration (Inlet opposite Outlet)

The outlet of the filter vessel is opposite the inlet, or in the shape of the letter "S", in a profile view. In this type of configuration, the filter becomes "in-line" with existing piping.

#### **Custom Outlet Configurations**

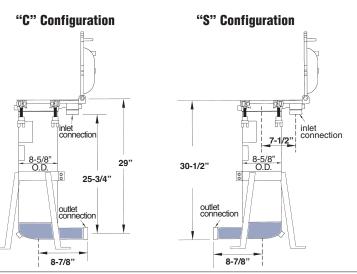
The direction of the "LP" outlet, relative to the inlet, can be positioned to accommodate custom piping arrangements.

Note: In all Low-Profile configurations, the standard drain placement is opposite the outlet of the vessel. The location of the drain can be modified upon request. Please consult factory for other custom requirements.



# 32"

#### Low-Profile, Horizontal Outlet on Individual Filter Housings



**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 repair or 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

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