

# SRHD

## Heavy Duty Bag Vessels

The SRHD Heavy Duty series is designed to handle your most difficult fluid filtration requirements. Our SRHD is made from heavy duty steel components and to strict quality standards, which allows our clients the ability to change from a non-stamped to an ASME UM stamped vessel at a nominal cost. The SRHD series incorporates our unique radial seal design that provides a hermetic seal between the basket and vessel. Utilizing a radial seal with our retainer baskets eliminates “basket rocking”, which causes bypass as the basket becomes out of round. “Basket rocking” is common in low cost bag vessels that do not incorporate an O-ring seal and can cause unfiltered liquid bypass. The Strainrite Companies’ SRHD, with a radial seal, has a machined surface that produces a positive seal to eliminate bypass. SRHD vessels incorporate a combination of unique qualities that places us at the top of single bag vessel design. Standard features include: a recessed basket, volume displacer welded to top cover, and a 304 stainless steel wire mesh basket to name a few. Our standard wire mesh baskets increase available filtration surface area up to 30% compared to cheaper perforated retainer baskets.



SRHD

### Features & Benefits

#### The SRHD

- Hermetic radial o-ring sealed retainer basket: Eliminates potential for bypass and “basket rocking”
- Adjustable tri-pod stand: Offers flexibility when plumbing into an existing line
- Inlet/outlet orientation: Side-in/Bottom-out (*standard*) or Side-in/Side-out (*optional*)
- Standard Pressure ratings: 150 up to 300 psi
- Stainless Steel wire mesh basket
- Swing bolt closures
- 0.25” NPT vent tap
- Pipe sizes: 0.75” to 4” NPT, RFF or quick disconnect

#### Recommended Flow Rates & Surface Area\*

Product	Basket Strainer	Mesh Lined	Retainer w/ Bag	Surface Area: Sq. Ft.
SRHD 1	150 gpm	100 gpm	75 gpm	2.25
SRHD 2	300 gpm	200 gpm	150 gpm	4.50

*\*For the following recommended flow rates, vessels need a minimum inlet/outlet size of 2” NPT. The recommended flow for basket and filter combination is for nominally rated filter bags. (High efficiency filter bags excluded).*

### Standard Design

- Low Pressure Drops
- Covers are O-ring sealed
- Carbon steel, stainless steel (304) or (316) construction for housings
- Liquid displacers for cleaner servicing
- Adjustable-height legs
- Large-area, heavy-duty baskets
- Built-in volume displacer in cover
- O-ring seals: Buna N, EPDM, Fluorocarbon, PTFE encapsulated

### Optional Features

- Sanitary construction
- Different outlet connections and orientations
- Higher pressure ratings
- Heat jacketing
- ASME code stamp
- Duplexed units are available
- Pipe or flange 1” - 4”
- Custom pressure ratings: 300 psi up to 1,000 psi
- Compression device
- ASME Code stamp available on all vessels

### Ordering Information

Strainrite Heavy Duty Vessel

SRHD

Code   Bag Size		Code   Inlet/Outlet		Code   Construction Materials		Code   Options	
1	#1 size bag	2	2” NPT	A	Carbon Steel	WMB	Sanitary Design
2	#2 size bag	2F	2” RFF	B	304 Stainless Steel	SO	Side Outlet
		3	3” NPT	C	316 Stainless Steel	EP	Electro Polish Finish
		3F	3” RFF			GT	Differential Pressure Gauge Ports
		4	4” NPT			ML	Mesh-Lined Basket
		4F	4” RFF			UM	Code Stamped
						U	3rd Party ASME Code Inspected
						SSB	Swing Bolts / Eye Nut Stainless Steel

## SRHD Twin / Duplex Models

SRHD Twin and SRHD Duplex bag vessels offer economical filtration for nominally rated applications between 150 and 300 gpm.

The SRHD Twin filter system is comprised of two #2-size housings piped together and joined to a common header. This design divides flow equally between both housings and also reduces cost approximately 50% compared to a multi-bag housing holding 2 bags inside.

The SRHD Duplex filter systems offer great flexibility for continuous on-line filtration requirements. This allows for continuous operation by directing the flow from one vessel to another by opening and closing of valves. This allows one side to be serviced, while the other vessel is in use.

### Features & Benefits

#### The SRHD Twin

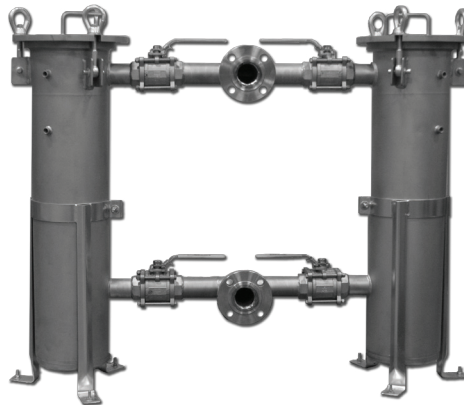
- Adjustable height tripod stand
- Inlet/outlet orientation:  
Side-in/Bottom-out (*optional*)  
or Side-in/Side-out (*standard*)
- Low pressure drop
- Positive cover seal
- 150 psi design, available to 1,000 psi
- Easily cleaned
- Stainless Steel wire mesh basket
- ASME Code stamp available on all vessels



SRHD Twin

#### The SRHD Duplex

- Adjustable height tripod stand
- Inlet/outlet orientation:  
Side-in/Bottom-out (*optional*)  
or Side-in/Side-out (*standard*)
- Stainless Steel wire mesh basket
- ASME Code stamp available on all vessels
- 150 psi design, available to 1,000 psi
- Easily cleaned
- Low pressure drop
- Positive cover seal
- 3-piece ball valves standard



SRHD Duplex

### Ordering Information

Strainrite Heavy  
Duty Twin/Duplex

SRHD

Code   Bag Size		Code   Inlet/Outlet		Code   Construction Materials		Code   Style		Code   Options	
2	#2 size bag	2F	2" RFF	A	Carbon Steel	Twin	No valves	SAN	Sanitary Design
		3F	3" RFF	B	304 Stainless Steel	Duplex	Valves	SIBO	Side In/Bottom Out
				C	316 Stainless Steel			EP	Electro Polish Finish
								GT	Differential Pressure Gauge Ports
								ML	Mesh-Lined Basket
								UM	Code Stamped
								U	3rd Party ASME Code Inspected
								SSB	Swing Bolts / Eye Nut Stainless Steel