



# SIEVA™ BAG FILTER VESSELS



## Description

Sieva bag filter vessels are designed to meet the wide-range of solids removal needs in fluid processing industries. Not all markets and customers have the same needs requiring various bag filtration technologies to provide cost effective filtration solutions for each application. Each Sieva bag filter technology is engineered to deliver optimal performance even under the most challenging conditions ensuring process reliability.

## Features & Benefits

- Standard models provide flow rates up to 1,050 gpm (261.2 m<sup>3</sup>/hr); higher capacity models also available
- Sieva bag filter technology allows customer to better manage the effluent solids concentration and particle size in their liquid processes with the options to use extended life nominal bag filters or higher capacity pleated bag filters with liquid efficiencies up to 99.98%
- Bag filter vessels inside to outside flow path ensures all contaminant is contained on the inside of the Sieva bag filter so all filtered solids are removed with the cartridge
- Offered with a wide range of Sieva bag filter designs and media options to provide the most cost-effective solution for the application
- Unlike most bag vessel designs, our Sieva design is engineered to provide a positive o-ring between the filter element and the vessel tubesheet above the basket, which eliminates particle bypass between the filter basket and the tubesheet
- All vessels have upstream and downstream gauge ports and drains to allow for easy operations

## Options

- ASME Section VIII Div 1, CRN or non-code
- Available in ergonomic low-profile design or standard profile
- Carbon Steel, 304SS, 316SS are standard materials of construction. Other alloys available: D2205 duplex, SD2507 super duplex, Hastelloy and Monel
- Buna, EPDM, Viton®, Teflon encapsulated Viton standard options; Others available
- Swing Bolt (standard) and Quick Opening closures
- ANSI RF Class 150 PSI standard flange connections; Higher flanges ratings also available

## Markets

- General Industrial
- Oil & Gas
- Water Treatment
- Chemical Production
- Power Generation
- Food & Beverage

## Common Applications

- Water
- Sea Water
- Wastewater
- Brines
- Acids
- Bases
- Organic Solvents
- Fuels
- Chemicals
- Lubricants
- Coolants

## Bag Filter Series Available

- Sieva 100
- Sieva 500
- Sieva 650
- Sieva 600 HT

## NUMBER OF SIEVA BAG FILTERS PER VESSEL DIAMETER

Sieva Bag Vessel Diameter	8"	16"	18"	22"	24"	30"	36"	42"	48"
Number of Filter Baskets	1	2	3	4	6	8	12	17	23

## RECOMMENDED FLOW RATES PER VESSEL DIAMETER

Sieva™ Bag Vessel Diameter	8"	16"	18"	22"	24"	30"	36"	42"	48"
Recommended Flow Rates	25	50	75	100	150	200	300	425	575
Max Recommended Flow Rates	50	100	150	200	300	400	600	850	1150

Note: Flow Rates based on recommended filter flow rate for optimal filter effectiveness. Higher flow rates can be achieved.

## TYPICAL INLET/OUTLET PIPE SIZES PER VESSEL DIAMETER

Sieva™ Bag Vessel Diameter	8"	16"	18"	22"	24"	30"	36"	42"	48"
	1"	<b>2"</b>	2"	<b>3"</b>	<b>3"</b>	<b>4"</b>	<b>6"</b>	<b>6"</b>	<b>8"</b>
Inlet/Outlet Pipe Size (in)	<b>2"</b>	3"	<b>3"</b>	4"	<b>4"</b>	6"	8"	8"	10"
	-	4"	4"	6"	6"	8"	10"	10"	12"

\*Standard pipe sizes in bold.

## SIEVA SOLID-LIQUID FILTRATION VESSEL CODING

Use the chart below to create cartridge part number for ordering. Please include dashes when creating part numbers.

	Vessel Series	Orientation	Diameter	Vessel Closure	Materials of Construction	Flange Pressure Rating	Inlet/Outlet Size	Inlet/Outlet Connections	FTC Bag Style	Vessel Seal	Vessel Certification						
EXAMPLE	<b>SLS</b>	-	<b>18</b>	-	<b>S4</b>	-	<b>150</b>	-	<b>3</b>	-	<b>F</b>	-	<b>2</b>	-	<b>B</b>	-	<b>U</b>
OPTIONS	<b>Solid-Liquid Sieva Bag Filter Vessel</b>	<b>blank</b> standard <b>L</b> Low Profile	<b>8</b> <b>16</b> <b>18</b> <b>20</b> <b>22</b> <b>24</b> <b>30</b> <b>36</b> <b>42</b> <b>48</b>	<b>blank</b> Swing Bolt <b>Q</b> Quick Opening	<b>C</b> Carbon Steel <b>S4</b> 304 SS <b>S6</b> 316 SS <b>D</b> Duplex 2205 SS <b>SD</b> Super Duplex 2507 SS <b>H</b> Hastelloy <b>M</b> Monel	<b>150</b> <b>300</b> <b>600</b>	<b>1</b> <b>2</b> <b>3</b> <b>4</b> <b>6</b> <b>8</b> <b>10</b> <b>12</b>	<b>F</b> Flanged <b>N</b> NPT (1" & 2" only)	<b>2</b> #2 Size	<b>B</b> Buna-N <b>E</b> EPDM <b>V</b> Viton A <b>TEV</b> PTFE encapsulated Viton	<b>U</b> ASME Code <b>C</b> CRN Stamp <b>blank</b> Non-Code						

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