

Tested and Proven

Bag and Cartridge Filters

Engineered to Improve Purity,
Lower Your Operating Costs
and Reduce Your Disposal Costs!



Better Filtration Through Better Technology

FiltrationSystems.com

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An ISO 9001 Registered Company

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Introduction

Filtra-Systems is a leading supplier of industrial filtration and separation systems. With our help you'll quickly find the ideal filtration technology for your system, saving you time, effort and money.

Individual bag and cartridge filter housings that can process between 1 and 1200 gpm are kept in stock and ready to ship. Larger housings may be built to order. Additionally, duplex systems are available, and custom engineered designs are as well.

If you're not sure what type of filter you need, our team of experienced applications engineers are available to review your process and make recommendations. Call us at 248-919-6119 or email us info@filtrasystems.com to share more about your process.

How Can Filtration Increase Your Process Efficiency?

Making Your Job Easier...

Correctly choosing a filter will prevent headaches caused by installing an inaccurately sized or improperly specified filter. The wrong filter can create strain on your entire manufacturing system.

Saving You Time...

The right filter will reduce system maintenance. It will minimize downtime caused by frequent change-outs while preventing downstream process problems.

Saving You Money...

Ultimately, filtration helps you improve your process by increasing particle removal. Whether you are filtering wastewater, refining aluminum, or producing beverages, you will save money by using the right filter.

Additionally, choosing the correct filter will minimize downtime while maximizing product quality. In many situations, filtration is the most important of all your money saving processes.

FSC1 Single Bag Filter Vessels



FSC1 bag filter housings are suitable for use in a wide variety of applications. V-Clamp lids allow for quick and easy bag change-outs, and floor mounting tabs provide the smallest possible footprint. FSC1 filter vessels fit industry standard size #2 bags. 304 stainless steel housings are stock items, 316L stainless steel is also available. 2" and 3" threaded connections are standard.

Used in water, coolant, and beer and wine production operations.

More Features & Benefits...

- **Economically Priced**, simple design
- **No Tools required**. V-Clamp cover closure makes changing bags fast and easy
- **No Bypass** - bag sealing is guaranteed with our proprietary bag clamping mechanism
- **Easy to Clean** - Vessel housings are electropolished stainless steel
- Versatile Housing will accept **either standard or pleated bags**
- Accepts industry standard #2 size filter bags
- **Large Inventory available**
- ASME stamp is not available on this design
- On chart below: 01-02-02 [First 01 is # of bags (1), second 02 is the inlet flange size (2") and third 02 is the outlet size (2")]
- Material of construction selection is S4 (304 SS) or S6 (316 SS).
- Vessel gasket selection is N (nitrile) or V (viton)
- Vessel includes perforated SS bag support basket - Basket available with R (round) bottom for standard bags or F (flat) bottom for pleated bags
- FSC1 style vessels accept industry standard #2 (30") bags

Series	Model#	Bag Quantity	Bag Size	Material	Max Pressure (psi)	Connection Inlet/Outlet	Connection Type
FSC1	FSC1010202S4NR	1	2	SS 304	87	2"	NPT
FSC1	FSC1010202S6NR	1	2	SS 316L	87	2"	NPT
FSC1	FSC1010303S4NR	1	2	SS 304	87	3"	NPT
FSC1	FSC1010303S6NR	1	2	SS 316L	87	3"	NPT

FSC2 Single Bag Filter Vessels



FSC2 bag filter housings are suitable for use in a wide variety of applications. V-Clamp lids allow for quick and easy bag change-outs, and mounting legs allow for a variety of possible vessel positions. FSC2 filter vessels fit industry standard size #2 bags. 304 stainless steel housings are stock items, 316L stainless steel is also available. 2" and 3" threaded connections are standard.

Used in water, coolant, and beer and wine production operations.

More Features & Benefits...

- **Economically Priced**, simple design
- **No Tools required.** V-Clamp cover closure makes changing bags fast and easy
- **No Bypass** - bag sealing is guaranteed with our proprietary bag clamping mechanism
- **Easy to Clean** - Vessel housings are electropolished stainless steel
- Housing will accept either **standard or pleated bags**
- **Large Inventory available.**
- FSC2 series vessels have V-Clamp covers and are rated for 87 psig maximum working pressure
- Fits industry standard #2 filter bags
- ASME stamp is not available on this design
- On chart below: 01-02-02 [First 01 is # of bags (1), second 02 is the inlet connection size (2") and third 02 is the outlet size (2")]
- Material of construction selection is S4 (304 SS) or S6 (316 SS)
- Vessel gasket selection is N (nitrile) or V (viton)
- Vessel includes perforated SS bag support basket - Basket available with R (round) bottom for standard bags or F (flat) bottom for pleated bags.
- FSC2 style vessels accept industry standard #2 (30") bags

Series	Model#	Bag Quantity	Bag Size	Material	Max Pressure (psi)	Connection Inlet/Outlet	Connection Type
FSC2	FSC2010202S4NR	1	2	SS 304	87	2"	NPT
FSC2	FSC2010202S6NR	1	2	SS 316L	87	2"	NPT
FSC2	FSC2010303S4NR	1	2	SS 304	87	3"	NPT
FSC2	FSC2010303S6NR	1	2	SS 316L	87	3"	NPT

FSCS Single Bag Filter Vessels



FSCS bag filter housings are suitable for use in high pressure applications. Swing bolt lids ensure that vessels are safe to use at pressures up to 150 psi, and mounting legs allow for a variety of possible vessel positions. FSCS filter vessels fit industry standard size #2 bags. Side outlet and bottom outlet housing configurations are available. Carbon steel and 304 stainless steel housings are stock items, 316L stainless steel is also available. 2" and 3" ANSI flanged connections are standard.

Used in water, coolant, and oil filtration applications.

More Features & Benefits...

- **Value Priced**
- **Robust Design** with 4 point cover
- **Easy Opening & Closing** - Cover has integrated handle in lid and is attached to a swingbolt
- **No Bypass** - Bag sealing is guaranteed with our proprietary bag clamping mechanism
- **Easy to Clean**
- **Versatile** - Housing will accept either industry standard #2 filter bags, or pleated bags
- **Adjustable legs** with bottom outlet simplify installation
- **Large Inventory Available**
- FSCS vessels are rated for 150 psig
- On chart below: 01-02-02 [First 01 is # of bags (1), second 02 is inlet flange size (2") and third 02 is outlet flange size (2")]
- Material of construction is S4 (304 SS), S6 (316L SS) or CS (carbon steel). [All carbon steel units are painted with epoxy primer]
- Vessel gasket selection is V (Viton) or N (nitrile)
- Vessel includes perforated SS support basket - Basket available with R (round) bottom for standard bags or F (flat) bottom for pleated bags-
- FSCS vessels accept industry standard #2 (30") bags

Series	Model#	Bag Quantity	Bag Size	Material	Max Pressure (psi)	Connection Inlet/Outlet	Connection Type
FSCS	FSCS010202S4NR	1	2	SS 304	150	2"	ANSI Flanged
FSCS	FSCS010303S4NR	1	2	SS 304	150	3"	ANSI Flanged
FSCS	FSCS010202S6NR	1	2	SS 316L	150	2"	ANSI Flanged
FSCS	FSCS010303S6NR	1	2	SS 316L	150	3"	ANSI Flanged
FSCS	FSCS010202CSVR	1	2	CS	150	2"	ANSI Flanged
FSCS	FSCS010303CSVR	1	2	CS	150	3"	ANSI Flanged
FSCW	FSCW010202S4NR (Side Outlet)	1	2	SS 304	150	2"	ANSI Flanged

FSCT Single Bag Filter Vessels



FSCT bag filter housings are used in more demanding applications. The goose-neck inlet configuration allows for laminar flow throughout the vessel. Vessel lids seal directly onto the bag, to prevent fluid bypass and minimize operator exposure to process liquid. ASME options are available. FSCT vessels fit industry standard size #2 bags. Carbon steel and 304 stainless steel housings are stock items, 316L stainless steel is also available. 2" ANSI flanged connections are standard.

Used in oil and chemical filtration applications.

More Features & Benefits...

- **Robust Design** with 4 point cover
- **Easy Opening & Closing** - Cover has integrated handle in lid and is attached to a swingbolt
- **No Bypass Cover** - Lid seals directly onto filter bag ring, eliminating any possible bypassing
- **Easy to Clean**
- **Versatile** - Housing will accept either standard or pleated bags
- **Adjustable legs** with bottom outlet simplify installation
- **Large Inventory Available**
- **ASME Option** available
- **FSCT** vessels are rated for 150 psig
- Fits industry standard #2 filter bags
- On chart below: 01-02-02 [First 01 is # of bags (1), second 02 is inlet flange size (2") and third 02 is outlet flange size (2")]
- Material of construction is S4 (304 SS), S6 (316L SS) or CS (carbon steel). [All carbon steel units are painted with two components epoxy primer and top coat]
- Vessel gasket selection is V (Viton) or N (nitrile)
- Vessel includes perforated SS support basket - Basket available with R (round) bottom for standard bags or F (flat) bottom for pleated bags
- FSCT vessels accept industry standard #2 (30") bags
- Add "-ASME" to end of model # to order ASME Stamp option

Series	Model#	Bag Quantity	Bag Size	Material	Max Pressure (psi)	Connection Inlet/Outlet	Connection Type
FSCT	FSCT010202S4NR	1	2	SS 304	150	2"	ANSI Flanged
FSCT	FSCT010303S4NR	1	2	SS 304	150	3"	ANSI Flanged
FSCT	FSCT010202S6NR	1	2	SS 316L	150	2"	ANSI Flanged
FSCT	FSCT010303S6NR	1	2	SS 316L	150	3"	ANSI Flanged
FSCT	FSCT010202CSVR	1	2	CS	150	2"	ANSI Flanged
FSCT	FSCT010303CSVR	1	2	CS	150	3"	ANSI Flanged

FSSB Multi-Bag Filter Vessels



Multi-Bag Filter vessels with swing bolt lids allow for high liquid flow rates. A large variety of multi-bag vessels are available, with 3-12 bag vessels kept in stock. Flow rates up to 1200 gpm. FSSB vessels fit industry standard size #2 bags. Carbon steel and 304 stainless steel housings are stock items, 316L stainless steel is also available. 3"-8" ANSI flanged connections are standard.

Used in water and oil applications where high flow rates are required.

Features & Benefits...

- **Fast Turnaround** - spring balanced lid and swingbolts make bag changes faster than davit swing lid designs
- **No Bypass** - bag sealing is guaranteed with our compression style bag clamps
- **Large Capacity Available** - up to 12 bags per vessel means higher flow rates and less downtime for bag changes
- **Ergonomic Design** - low profile allows easier access and the spring balanced lid can be opened with one hand
- **Flexibility** - accepts both #2 bags or pleated cartridges, alternate inlet & outlet sizes & orientation can be specified
- **Large Inventory Available** - made to order units also available
- **ASME Stamp Option**
- FSSB series filter vessels are rated for 150 psig working pressure
- Fits industry standard #2 filter bags
- On chart below: 03-03-03 [First 03 is the # of bags (3), second 03 is the standard inlet flange size (3") and third 03 is the standard outlet size (3")]
- Vessel gasket selection is N (nitrile) or V (viton)
- Vessel includes perforated SS bag support basket available with R (round) bottom for standard bags or F (flat) bottom for pleated bags
- FSSB multi-bag vessels are designed for use with #2 filter bags or pleated cartridges
- Add "-ASME" to end of model # for ASME Stamp option
- Add "-A", "-B", "-C" or "-S" for the inlet & outlet orientation specified. Outlet is always tangential with bottom

FSSB Multi-Bag Filter Vessels (cont.)

More Info...

Series	Model#	Bag Quantity	Bag Size	Material	Max Pressure (psi)	Connection Inlet/Outlet	Connection Type
FSSB	FSSB030303S4NR	3	2	SS 304	150	3"	ANSI Flanged
FSSB	FSSB040404S4NR	4	2	SS 304	150	4"	ANSI Flanged
FSSB	FSSB060606S4NR	6	2	SS 304	150	6"	ANSI Flanged
FSSB	FSSB080808S4NR	8	2	SS 304	150	8"	ANSI Flanged
FSSB	FSSB120808S4NR	12	2	SS 304	150	8"	ANSI Flanged
FSSB	FSSB030303CSVR	3	2	CS	150	3"	ANSI Flanged
FSSB	FSSB040404CSVR	4	2	CS	150	4"	ANSI Flanged
FSSB	FSSB060606CSVR	6	2	CS	150	6"	ANSI Flanged
FSSB	FSSB080808CSVR	8	2	CS	150	8"	ANSI Flanged
FSSB	FSSB120808CSVR	12	2	CS	150	8"	ANSI Flanged
FSSB	FSSB030303S6NR	3	2	SS 316L	150	3"	ANSI Flanged
FSSB	FSSB040404S6NR	4	2	SS 316L	150	4"	ANSI Flanged
FSSB	FSSB060606S6NR	6	2	SS 316L	150	6"	ANSI Flanged
FSSB	FSSB080808S6NR	8	2	SS 316L	150	8"	ANSI Flanged
FSSB	FSSB120808S6NR	12	2	SS 316L	150	8"	ANSI Flanged

# Bags	Material	Filter Volume		Empty Weight		Full Weight		Maximum Shape LxWxH					
		Liters	Gallons	Kg	Lbs	Kg	Lbs	L (mm)	W(mm)	H(mm)	L(in)	W(in)	H(in)
3	CS	180	48	180	396	360	792	920	820	1400	36.2	32.3	55.1
4	CS	225	59	250	550	475	1045	950	850	1450	37.4	33.5	57.1
6	CS	274	72	300	660	574	1263	1050	900	1500	41.3	35.4	59.1
8	CS	450	119	390	858	840	1848	1200	1050	1550	47.2	41.3	61.0
12	CS	762	201	695	1529	1457	3205	1450	1250	1600	57.1	49.2	63.0
17	CS	995	263	980	2156	1975	4345	1600	1450	1850	63.0	57.1	72.8
23	CS	1336	353	1200	2640	2556	5623	1700	1600	1900	66.9	63.0	74.8
3	SS	180	48	155	341	335	737	920	820	1400	36.2	32.3	55.1
4	SS	225	59	210	462	435	957	950	850	1450	37.4	33.5	57.1
6	SS	274	72	240	528	514	1131	1050	900	1500	41.3	35.4	59.1
8	SS	450	119	320	704	770	1694	1200	1050	1550	47.2	41.3	61.0
12	SS	762	201	620	1364	1382	3040	1450	1250	1600	57.1	49.2	63.0
17	SS	995	263	880	1936	1875	4125	1600	1450	1850	63.0	57.1	72.8
23	SS	1336	353	1100	2420	2456	5403	1700	1600	1900	66.9	63.0	74.8

FSQC Multi-Bag Filter Vessels



Multi-Bag Filter vessels with quick-change lids allow high liquid flow rates, with minimum downtime for bag change-outs. Individual units are available that can process flow rates up to 2300 gpm. FSQC vessels fit industry standard size #2 bags. Carbon steel, 304 stainless steel, and 316L stainless steel housings are available. 3"-10" ANSI flanged connections are available.

Typically used in water and oil applications where high flow rates are required.

More Features & Benefits...

- **Quickest Turnaround** - Our Quick-Change bag change out mechanism allows the fastest bag change-out possible
- **No Bypass** - Bag sealing is guaranteed with our compression style bag clamps
- **Highest Capacity Available** - Up to 23 bags per vessel means higher flow rates and less downtime for bag changes
- **Ergonomic Design** - Low profile allows easy access and our spring-balanced lid can be opened with one hand
- **Flexibility** - accepts both #2 bags or pleated cartridges, alternate inlet & outlet size and orientation can be specified
- **Inventory Available** or made to order
- **ASME Option** available
- FSQC series vessels are rated for 150 psig working pressure and are available with ASME Stamp
- Fits industry standard #2 filter bags
- On chart below: 03-03-03 [First 03 is the # or bags (3), second 03 is the inlet flange size (3") and third 03 is the outlet flange size (3")]
- Material of construction is S4 (304 SS), S6 (316 SS) or CS (carbon steel). [All carbon steel vessels are painted with epoxy primer]
- Vessel gasket selection is V (Viton) or N (nitrile)
- Vessel includes perforated SS bag support basket available with R (round) bottom for standard bags or F (flat) bottom for pleated bags
- FSQC multibag vessels are designed for use with #2 filter bags or pleated cartridges
- Add "-ASME" to the end of the model # to order ASME option
- Add "-A", "-B", "-C" or "-S" to specify outlet orientation. Outlet is always tangential with bottom

FSQC Multi-Bag Filter Vessels (cont.)

More Info...

Series	Model#	Bag Quantity	Bag Size	Material	Max Pressure (psi)	Connection Inlet/Outlet	Connection Type
FSQC	FSQC030303S4NR	3	2	SS 304	150	3"	ANSI Flanged
FSQC	FSQC040404S4NR	4	2	SS 304	150	4"	ANSI Flanged
FSQC	FSQC060606S4NR	6	2	SS 304	150	6"	ANSI Flanged
FSQC	FSQC080808S4NR	8	2	SS 304	150	8"	ANSI Flanged
FSQC	FSQC120808S4NR	12	2	SS 304	150	8"	ANSI Flanged
FSQC	FSQC171010S4NR	17	2	SS 304	150	10"	ANSI Flanged
FSQC	FSQC231010S4NR	23	2	SS 304	150	10"	ANSI Flanged
FSQC	FSQC030303CSVR	3	2	CS	150	3"	ANSI Flanged
FSQC	FSQC040404CSVR	4	2	CS	150	4"	ANSI Flanged
FSQC	FSQC060606CSVR	6	2	CS	150	6"	ANSI Flanged
FSQC	FSQC080808CSVR	8	2	CS	150	8"	ANSI Flanged
FSQC	FSQC120808CSVR	12	2	CS	150	8"	ANSI Flanged
FSQC	FSQC171010CSVR	17	2	CS	150	10"	ANSI Flanged
FSQC	FSQC231010CSVR	23	2	CS	150	10"	ANSI Flanged
FSQC	FSQC030303S6NR	3	2	SS 316L	150	3"	ANSI Flanged
FSQC	FSQC040404S6NR	4	2	SS 316L	150	4"	ANSI Flanged
FSQC	FSQC060606S6NR	6	2	SS 316L	150	6"	ANSI Flanged
FSQC	FSQC080808S6NR	8	2	SS 316L	150	8"	ANSI Flanged
FSQC	FSQC120808S6NR	12	2	SS 316L	150	8"	ANSI Flanged
FSQC	FSQC171010S6NR	17	2	SS 316L	150	10"	ANSI Flanged
FSQC	FSQC231010S6NR	23	2	SS 316L	150	10"	ANSI Flanged

# Bags	Material	Filter Volume		Empty Weight		Full Weight		Maximum Shape LxWxH					
		Liters	Gallons	Kg	Lbs	Kg	Lbs	L (mm)	W(mm)	H(mm)	L(in)	W(in)	H(in)
3	CS	180	48	180	396	360	792	920	820	1400	36.2	32.3	55.1
4	CS	225	59	250	550	475	1045	950	850	1450	37.4	33.5	57.1
6	CS	274	72	300	660	574	1263	1050	900	1500	41.3	35.4	59.1
8	CS	450	119	390	858	840	1848	1200	1050	1550	47.2	41.3	61.0
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17	CS	995	263	980	2156	1975	4345	1600	1450	1850	63.0	57.1	72.8
23	CS	1336	353	1200	2640	2556	5623	1700	1600	1900	66.9	63.0	74.8
3	SS	180	48	155	341	335	737	920	820	1400	36.2	32.3	55.1
4	SS	225	59	210	462	435	957	950	850	1450	37.4	33.5	57.1
6	SS	274	72	240	528	514	1131	1050	900	1500	41.3	35.4	59.1
8	SS	450	119	320	704	770	1694	1200	1050	1550	47.2	41.3	61.0
12	SS	762	201	620	1364	1382	3040	1450	1250	1600	57.1	49.2	63.0
17	SS	995	263	880	1936	1875	4125	1600	1450	1850	63.0	57.1	72.8
23	SS	1336	353	1100	2420	2456	5403	1700	1600	1900	66.9	63.0	74.8

Needle Felt Filter Bags



Needle Felt Filter Bags are the most economical disposable filter material available. They provide depth filtration and surfaces free of fiber migration while utilizing hot melt seamless welding technology to ensure effective filtration without filter bypass.

They are best suited for low and medium viscosity liquids and are available in a wide range of micron ratings, and with two different materials of construction (polypropylene and polyester)

Technical Data...

- Diameter: 7 in
- Length: 30 in
- Hot melt seamless welding technology ensures no fluid bypass
- Tight-knit structure eliminates fiber migration from the surface
- Applicable to low and medium viscosity liquids at high flow rates
- Standard ring is polypropylene

Product Codes

Code	Micron Rating	Cover Style	Bag Style	Ring Type
PE	1	P	02	E
PO	1	Plain	02 -#2	E-Plastic
PE	5	M-Cover Layer		S-Metal
	...			
	100			

Filter Rating (um)	1	5	10	25	50	100
PO	X	•	•	•	•	•
PE	•	•	•	•	•	•

Chemical Resistance Chart

PO	Strong Acid	Weak Acid	Weak Base	Strong Base	Solvent	< 80°C
PE	Strong Acid	Weak Acid	Weak Base	Strong Base	Solvent	< 170°C

Nylon Monofilament Mesh Filter Bags



Nylon Monofilament Mesh filter bags are welded with nylon monofilament plain weave fabric, which has a fixed aperture and constant filtration efficiency.

Pore sizes available range from 100-425 micron.

Nylon bags are typically used to filter solvents, hydrocarbons, and in other applications where more porous filters are needed.

Technical Data...

- Filter Area: 4.4 square feet
- Diameter: 7 in
- Length: 30 in
- Welded with nylon monofilament mesh fabric, which is stretch resistant
- Screen texture, fixed aperture, stable material
- Reinforced fabric in retainer ring area
- Effectively captures solid particles at the selected micron rating
- Standard plastic ring is polypropylene

Product Codes

Code	Micron Rating	Cover Style	Bag Style	Ring Type
NMO	100	P	02	E
NMO	100	Plain	02 -#2	E-Plastic
	200	M-Cover Layer		S-Metal
	...			
	425			

Filter Rating (um)	75	100	150	200	300	425
NMO	X	•	•	•	•	•

Chemical Resistance Chart

NMO	Strong Acid	Weak Acid	Weak Alkaline	Strong Alkaline	Solvent	< 170°C
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Activated Carbon Filter Bags



Activated Carbon Filter Bags are manufactured with activated carbon fibers, which have exceptional adsorption properties for organic chemical compounds.

They are typically used for removing trace amounts of organics, color, or odors from hazardous waste water streams.

Technical Data...

- Filter Diameter - 7 in
- Filter Length - 30 in
- High temperature operation is acceptable, good resistance to acids and alkalis
- Strong adsorption and deodorizing capability
- Suitable for hazardous material
- Polypropylene ring is standard

Product Codes

Code	Micron Rating	Cover Style	Bag Style	Ring Type
AC	25	M	02	S
AC	25	M-Cover Layer	02 -#2	E-Plastic S-Metal

Filter Rating (um)	1	5	10	25	50	100
AC	X	X	X	•	X	X

Chemical Resistance Chart

AC	Strong Acid	Weak Acid	Weak Alkaline	Strong Alkaline	Solvent	< 95°C
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Oil Absorption Filter Bags



Our high efficiency oil absorption filter bags are made of melt-blown polypropylene fiber which has a large oil absorbing surface area and excellent oil absorption capability. It is also acid proof, alkaline-proof and stretch resistant.

High efficiency oil absorption filter bags are typically used to remove oil and other impurities from water or wastewater in industrial applications. These filter bags have multiple layers, which gives them over 90% removal efficiency and significantly increases holding capacity.

Technical Data...

- Filter Diameter - 7 in
- Filter Length - 30 in
- Pure polypropylene raw materials ensure high oil absorption efficiency
- Multi-layer depth filtration increases particle removal efficiency and holding capacity
- Over 90% filtration efficiency at the specified micron rating

Product Codes

Code	Micron Rating	Cover Style	Bag Style	Ring Type
OAS	25	M	02	E
OAS	25	M-Cover Layer	02 -#2	E-Plastic S-Metal

Filter Rating (um)	1	5	10	25	50	100
OAS	X	X	X	•	X	X

Chemical Resistance Chart

OAS	Strong Acid	Weak Acid	Weak Alkaline	Strong Alkaline	Solvent	< 95°C
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TS Series Industrial Cartridge Filters



TS Series cartridge filters are ideal for low liquid flow rates, below 5 gpm.

Mounting the filter cartridge just below the inlet and outlet ensures that there is virtually no footprint. An easy open v-clamp lid allows easy filter change-outs. TS series filters fit 10" DOE cartridges.

TESTED & PROVEN APPLICATIONS:

- Water Purification
- Food & Beverage Production
- Pharmaceuticals

More Features & Benefits...

- **Economically Priced** - simple design
- **No Tools Required** - v-clamp cover closure makes cartridge change-out quick and easy
- **No Bypass** - cartridge is supported with a screw and nut, eliminating fluid bypass
- **Large Inventory Available**
- Material of construction is 304 SS
- TS series vessels have v-clamp covers and are rated for 100 psig working pressure
- Standard vessel gasket is EPDM
- Vessel includes 304 SS cartridge support fixture
- TS series vessels fit 10" DOE cartridges
- All vessels have 1/4" NPT vent connections
- All vessels have 1/4" NPT drain connections
- Design Pressure: 150 psi
- Design Temperature: 212 °F
- EPDM Gasket Standard
- **Model # Description:** 150-010-05 [First 150 is design pressure (150 psi), second 010 is inlet/outlet connection size (1"), third 05 is recommend flow rate (5 gpm)]

Series	Model#	Cartridge Quantity	Cartridge Size	Material	Max Pressure (psi)	Connection Inlet/Outlet	Connection Type
TS	TS-A-N-150-010-05-E-N	1	10"	304 SS	100	1"	NPT

TK Series Industrial Cartridge Filters



TK Series cartridge filters are ideal for liquid flow rates between 5 and 105 gpm.

An easy open v-clamp lid allows cartridge filter change-outs using only one hand. Versatile cartridge connections fit standard DOE, and type 222 cartridges from 10"-30".

TESTED & PROVEN APPLICATIONS:

- Water Purification
- Food & Beverage Production
- Pharmaceuticals

More Features & Benefits...

- **Economically Priced** - simple design
- **No Tools Required** - v-clamp cover closure makes cartridge change-out quick and easy
- **No Bypass** - cartridge is supported with a screw and nut, eliminating fluid bypass
- **Large Inventory Available**
- Material of construction is 304 SS
- TK series vessels have v-clamp covers and are rated for 100 psig working pressure
- Standard vessel gasket is EPDM
- Vessel includes 304 SS cartridge support fixture
- TK series vessels fit standard DOE and 222 cartridges
- All vessels have 1/4" NPT vent connections
- All vessels have 3/4" NPT drain connections
- Design Pressure: 150 psi
- Design Temperature: 212 °F
- EPDM Gasket Standard
- **Model # Description:** 04-10-A-150-020-20 [First 04 is # of cartridges (4), second 10 is cartridge size (10"), third 150 is design pressure (150 psi), fourth 020 is inlet/outlet connection size (2"), fifth 020 is recommend flow rate (20 gpm)]

Series	Model#	Cartridge Quantity	Cartridge Size	Material	Max Pressure (psi)	Connection Inlet/Outlet	Connection Type
TK	TK-A-04-10-A-150-020-020-E-N	4	10"	304 SS	100	2"	ANSI Flanged
TK	TK-A-04-20-A-150-020-040-E-N	4	20"	304 SS	100	2"	ANSI Flanged
TK	TK-A-07-10-A-150-020-035-E-N	7	10"	304 SS	100	2"	ANSI Flanged
TK	TK-A-07-20-A-150-020-070-E-N	7	20"	304 SS	100	2"	ANSI Flanged
TK	TK-A-07-30-A-150-020-105-E-N	7	30"	304 SS	100	2"	ANSI Flanged

DL Series Industrial Cartridge Filters



DL Series cartridge filters are used in high flow applications.

A davit lid ensure safe, easy cartridge change-outs. DL series filters fit 30" DOE or type 222 cartridges. The use of 30" cartridges allows for higher flow rates and longer times between cartridge changes.

TESTED & PROVEN APPLICATIONS:

- Water Purification
- Food & Beverage Production
- Coolant Filtration

More Features & Benefits...

- **Economically Priced** - simple design
- **No Tools Required** - davit lid cover closure makes cartridge change-out quick and easy
- **No Bypass** - cartridge is supported with a screw and nut, eliminating fluid bypass
- High Capacity housings - flow rates up to 1200 gpm
- Large Inventory Available
- Material of construction is 304 SS
- DL series vessels have davit lid covers and are rated for 150 psig working pressure
- Standard vessel gasket is EPDM
- Vessel includes 304 SS cartridge support fixture
- DL series vessels fit standard DOE and 222 cartridges
- All vessels have 1/2" NPT vent connections
- All vessels have two (2) 1" NPT drain connections
- Design Pressure: 150 psi
- Design Temperature: 212 °F
- EPDM Gasket Standard
- **Model # Description:** 012-30-A-150-030-0180 [First 012 is # of cartridges (12), second 30 is cartridge size (30"), third 150 is working pressure (150 psi), fourth 030 is inlet/outlet connection size (3"), fifth 0180 is recommend flow rate (180 gpm)]

Series	Model#	Cartridge Quantity	Cartridge Size	Material	Max Pressure (psi)	Connection Inlet/Outlet	Connection Type
DL	DL-A-012-30-A-150-030-0180-E-N	12	30"	304 SS	150	3"	ANSI Flanged
DL	DL-A-020-30-A-150-040-0300-E-N	20	30"	304 SS	150	4"	ANSI Flanged
DL	DL-A-045-30-A-150-060-0675-E-N	45	30"	304 SS	150	6"	ANSI Flanged
DL	DL-A-080-30-A-150-080-1200-E-N	80	30"	304 SS	150	8"	ANSI Flanged

TKH Series Industrial Cartridge Filters



TKH Series cartridge filters are ideal for liquid flow rates between 5 and 105 gpm.

They are rated for high pressures, and are suitable for more demanding applications. Versatile cartridge connections fit standard DOE, and type 222 cartridges from 10"-30".

TESTED & PROVEN APPLICATIONS:

- Water Purification
- Food & Beverage Production
- Pharmaceuticals

More Features & Benefits...

- **Economically Priced** - simple design
- **Rated for High Pressure Operation**
- **No Bypass** - cartridge is supported with a screw and nut, eliminating fluid bypass
- **Large Inventory Available**
- Material of construction is 304 SS
- TKH series vessels have swing bolt covers and are rated for 150 psig working pressure
- Standard vessel gasket is EPDM
- Vessel includes 304 SS cartridge support fixture
- TKH series vessels fit standard DOE and 222 cartridges
- All vessels have 1/4" NPT vent connections
- All vessels have 3/4" NPT drain connections
- Design Pressure: 200 psi
- Design Temperature: 212 °F
- EPDM Gasket Standard
- **Model # Description:** 04-10-A-200-020-020-E-N [First 04 is # of cartridges (4), second 10 is cartridge size (10"), third 200 is working pressure (200 psi), fourth 020 is inlet/ outlet connection size (2"), fifth 020 is recommend flow rate (20 gpm)]

Series	Model#	Cartridge Quantity	Cartridge Size	Material	Max Pressure (psi)	Connection Inlet/Outlet	Connection Type
TKH	TKH-A-04-10-A-200-020-020-E-N	4	10"	304 SS	200	2"	ANSI Flanged
TKH	TKH-A-04-20-A-200-020-040-E-N	4	20"	304 SS	200	2"	ANSI Flanged
TKH	TKH-A-07-10-A-200-020-035-E-N	7	10"	304 SS	200	2"	ANSI Flanged
TKH	TKH-A-07-20-A-200-020-070-E-N	7	20"	304 SS	200	2"	ANSI Flanged
TKH	TKH-A-07-30-A-200-020-105-E-N	7	30"	304 SS	200	2"	ANSI Flanged

RSA/RSI Series Sanitary Cartridge Filters



Both RSA and RSI series cartridge filters are ideal for low liquid flow rates, up to 15 gpm.

RSA filter housings are floor mounted, with standing legs. RSI housings connect in line to minimize footprint. An easy open v-clamp lid allows easy filter change-outs. TS series filters fit 10"-30" type 226 cartridges.

TESTED & PROVEN APPLICATIONS:

- Food & Beverage Production
- Pharmaceuticals
- Chemical Production

More Features & Benefits...

- **Sanitary Housings** - certified for use in environments that require sanitary equipment
- **No Bypass** - cartridge is supported with a screw and nut, eliminating fluid bypass
- **Large Inventory Available**
- Tri-Clamp Fittings - easy to clean
- All filters require type 226 cartridges
- Material of construction is 316L SS
- RSA and RSI series vessels have v-clamp covers and are rated for 100 psig working pressure
- Standard vessel gasket is silicon
- Internal Surface Finish: 25 μ m (0.6 μ m) Ra
- External Surface Finish: 32 μ m (0.8 μ m) Ra
- All vessels have 1/4" NPT vent connections
- All vessels have 1/4" NPT drain connections
- Design Pressure: 150 psi
- Design Temperature: 212 °F
- All RSI vessels have 1-1/4" connection for pressure gauge
- All wetted parts constructed of 316L SS
- Non-process parts constructed of 304 SS
- **Model # Description:** 010-S-150-010-05-S-N [First 012 is cartridge size (10"), second 150 is design pressure (150 psi), third 010 is inlet/outlet connection size (1"), fourth 05 is recommend flow rate (5 gpm)]

Series	Model#	Cartridge Quantity	Cartridge Size	Material	Max Pressure (psi)	Connection Inlet/Outlet	Connection Type
RSA	RSA-C-010-S-150-010-05-S-N	1	10"	316L SS	100	1"	Tri-Clamp Flange
RSA	RSA-C-020-S-150-010-010-S-N	1	20"	316L SS	100	1"	Tri-Clamp Flange
RSA	RSA-C-030-S-150-010-015-S-N	1	30"	316L SS	100	1"	Tri-Clamp Flange
RSI	RSI-C-010-S-150-015-05-S-N	1	10"	316L SS	100	1.5"	Tri-Clamp Flange
RSI	RSI-C-020-S-150-015-010-S-N	1	20"	316L SS	100	1.5"	Tri-Clamp Flange
RSI	RSI-C-030-S-150-015-015-S-N	1	30"	316L SS	100	1.5"	Tri-Clamp Flange

RS Series Sanitary Cartridge Filters



RS series cartridge filters are used in high flow rate applications, where sterile filters are required.

These filter housings are equipped with swing bolt lids, for high pressure operation. RS series filters fit 10"-40" type 226 cartridges.

TESTED & PROVEN APPLICATIONS:

- Food & Beverage Production
- Pharmaceuticals
- Chemical Production
- Electronics Production

More Features & Benefits...

- **Sanitary Housings** - certified for use in environments that require sanitary equipment
- **No Bypass** - cartridge is supported with a screw and nut, eliminating fluid bypass
- **High Capacity Housings** - flow rates to 240 gpm
- **Large Inventory Available**
- Tri-Clamp Fittings - easy to clean
- All filters require type 226 cartridges
- Material of construction is 316L SS
- Internal Surface Finish: 25 µin (0.6 µm) Ra
- External Surface Finish: 32 µin (0.8 µm) Ra
- Standard vessel gasket is silicon
- All vessels have 1/2" NPT vent connections
- All vessels have 1/2" NPT drain connections
- Design Pressure: 150 psi
- Design Temperature: 212 °F
- All vessels have 1-1/2" connection for pressure gauge
- All wetted parts constructed of 316L SS
- Non-process parts constructed of 304 SS
- **Model # Description:** 03-10-S-150-015-015 [First 03 is # of cartridges (3), second 10 is cartridge size (10"), third 150 is working pressure (150 psi), fourth 015 is connection size (1.5"), fifth 015 is recommended flow rate (15 gpm)]

Series	Model#	Cartridge Quantity	Cartridge Size	Material	Max Pressure (psi)	Connection Inlet/Outlet	Connection Type
RS	RS-C-03-10-S-150-015-015-S-N	3	10"	316L SS	150	1.5"	Tri-Clamp Flange
RS	RS-C-03-20-S-150-015-030-S-N	3	20"	316L SS	150	1.5"	Tri-Clamp Flange
RS	RS-C-03-30-S-150-015-045-S-N	3	30"	316L SS	150	1.5"	Tri-Clamp Flange
RS	RS-C-03-40-S-150-015-060-S-N	3	40"	316L SS	150	1.5"	Tri-Clamp Flange
RS	RS-C-05-10-S-150-020-025-S-N	5	10"	316L SS	150	2"	Tri-Clamp Flange
RS	RS-C-05-20-S-150-020-050-S-N	5	20"	316L SS	150	2"	Tri-Clamp Flange
RS	RS-C-05-30-S-150-020-075-S-N	5	30"	316L SS	150	2"	Tri-Clamp Flange
RS	RS-C-05-40-S-150-020-100-S-N	5	40"	316L SS	150	2"	Tri-Clamp Flange
RS	RS-C-08-30-S-150-020-080-S-N	8	30"	316L SS	150	2"	Tri-Clamp Flange
RS	RS-C-08-40-S-150-020-120-S-N	8	40"	316L SS	150	2"	Tri-Clamp Flange
RS	RS-C-12-30-S-150-020-180-S-N	12	30"	316L SS	150	2"	Tri-Clamp Flange
RS	RS-C-12-40-S-150-020-240-S-N	12	40"	316L SS	150	2"	Tri-Clamp Flange

Super-Pure Filter Cartridges



Super-Pure filter cartridges are typically used to filter process water, medium to low viscosity fluids, and as a prefilter for RO membranes. They contain an inner layer consisting of fine fibers, and a coarse-fibered outer layer for a high contaminant holding capacity.

Super-Pure cartridges carry NSF 42 and FDA CFR Title 21 certifications, and are in compliance with EU Directive 2002/72/EC.

Technical Data...

- Inner Diameter: 1.1 in
- Outer Diameter: 2.5 in
- Length: 10-40 in
- 100% Melt-blown micro-denier polypropylene fiber
- Maximum T: 176F
- Maximum dP: 30 psid
- Used with low and medium viscosity liquids

Brand	Code	Micron Rating	Length	End Connection	Gasket Type
FS	SP	10	30	D	
FS	SP	1	10"	D-DOE	E-EPDM
		5	20"	222F	S- Silicon
		10	30"	226S	
		25	40"		
		50			
		75			
		100			

Super-Micron Filter Cartridges



Super-Micron absolute rated filter cartridges are typically used to filter process water, medium to low viscosity fluids, and as a prefilter for RO membranes.

They contain an inner layer consisting of fine fibers, and a coarse-fibered outer layer for a high contaminant holding capacity, which ensures a long service life and low pressure drop.

Super-Micron cartridges carry NSF 42 and FDA CFR Title 21 certifications, and are in compliance with EU Directive 2002/72/EC.

Technical Data...

- Inner Diameter: 1.1 in
- Outer Diameter: 2.5 in
- Length: 10-40 in
- 100% Melt-blown micro-denier polypropylene fiber
- Maximum T: 176F
- Maximum dP: 30 psid
- Used with low and medium viscosity liquids

Brand	Code	Micron Rating	Length	End Connection	Gasket Type
FS	SM	1	10	222F	E
FS	SM	0.5	10"	D-DOE	E-EPDM
		1	20"	222F	S- Silicon
		3	30"	226S	
		5	40"		

Super-PBT Filter Cartridges



Super-PBT filter cartridges are polyester filters, used in applications where oils or high process temperatures prevent polypropylene from being used. They contain multiple layers of porous structure for a high contaminant holding capacity.

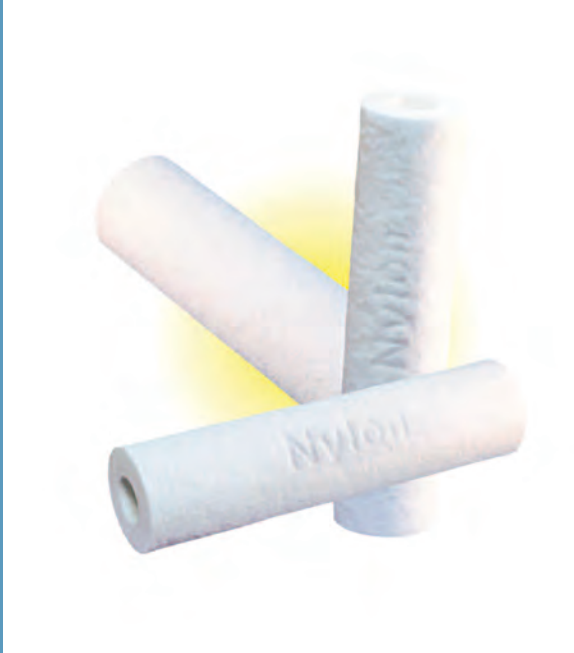
Super-PBT cartridges are in compliance with EU Directive 2002/72/EC.

Technical Data...

- Inner Diameter: 1.1 in
- Outer Diameter: 2.5 in
- Length: 10-40 in
- Melt-blown micro-denier PBT fiber
- Maximum T: 248F
- Maximum dP: 23.5 psid

Brand	Code	Micron Rating	Length	End Connection	Gasket Type
FS	PB	10	10	D	
FS	PB	1	10"	D-DOE	E-EPDM
		5	20"	222F	S- Silicon
		10	30"	226S	
		25	40"		
		50			
		75			
		100			

Super-Nylon Filter Cartridges



Super-Nylon filter cartridges are typically used to filter solvents, hydrocarbons, and in other applications in which polypropylene cannot be used. They are made without the use of binders or other adhesives, and a high void volume results in low differential pressure and a high dirt holding capacity.

Super-Nylon cartridges are in compliance with EU Directive 2002/72/EC.

Technical Data...

- Inner Diameter: 1.1 in
- Outer Diameter: 2.5 in
- Length: 10-40 in
- Melt-blown micro-denier Nylon fiber
- Maximum T: 248F
- Maximum dP: 14 psid
- Used with hydrocarbons and solvents

Brand	Code	Micron Rating	Length	End Connection	Gasket Type
FS	SN	10	30	D	
FS	SN	1	10"	D-DOE	E-EPDM
		5	20"	222F	S- Silicon
		10	30"	226S	
		25	40"		
		50			
		75			
		100			

Alpha-Pure Filter Cartridges



Alpha-Pure filter cartridges are used to filter high viscosity fluids and paint. They contain a multiple layers of porous structure for a high contaminant holding capacity.

Alpha-Pure cartridges carry NSF 42 and FDA CFR Title 21 certifications.

Technical Data...

- Inner Diameter: 1.1 in
- Outer Diameter: 2.5 in
- Length: 10-40 in
- 100% Melt-blown micro-denier polypropylene fiber
- Maximum T: 176F
- Maximum dP: 35 psid
- Used with high viscosity liquids

Brand	Code	Micron Rating	Length	End Connection	Gasket Type
FS	AP	100	10	D	
FS	AP	5	10"	D-DOE	E-EPDM
		20	20"	222F	S- Silicon
		50	30"	226S	
		75	40"		
		100			
		150			

Poly-Ray Filter Cartridges



Poly-Ray filter cartridges are used when absolute filters are needed. These sanitary cartridge filters are effective to 0.2 micron absolute (99.9% efficient). They contain pleated sheets of melt-blown media for maximum removal efficiency.

Poly-Ray cartridges carry USP XXIII and FDA CFR Title 21 certifications, and are in compliance with EU Directive 2002/72/EC.

These filter cartridges are manufactured in a clean room, and undergo a rigorous sterilization process. They are sterilized at 250F for 30 minutes, 10 times. They also undergo a pre-flush with 18 Megohm-cm DI water, with TOC content less than 40 ppb.

Technical Data...

- Inner Diameter: 1.1 in
- Outer Diameter: 2.5 in
- Length: 10-40 in
- 100% Melt-blown micro-denier polypropylene fiber filter material
- Core & End Cap: High strength polypropylene
- Maximum T: 194F
- Maximum dP: 27.5 psid

Brand	Code	Micron Rating	Length	End Connection	Gasket Type
FS	PR	045	10	D	
FS	PR	0.2	10"	D-DOE	E-EPDM
		0.45	20"	222F	S- Silicon
		1	30"	226S	
		5	40"		
		20			
		50			