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Mainstream[®] and Streamline[®] Filter/Strainer All Models

Service & Installation Manual



CONTENTS

This manual contains disassembly and assembly instructions, maintenance procedures, troubleshooting, and a complete parts list for all Mainstream® and Streamline® baskets and filters.

READ THIS MANUAL carefully to learn how to service these filters and strainers. Failure to do so could result in personal injury or equipment damage.

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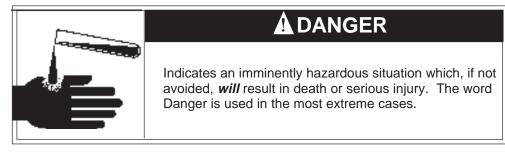
SAFETY

IMPORTANT SAFETY INFORMATION

Safety is very important!

DO NOT attempt to modify any Alfa Laval product. To do so could create unsafe conditions and void all warranties. **DO NOT place any Alfa Laval product in an application where general product service ratings are exceeded.**

The following DANGER, WARNING, AND CAUTION signs and their meanings are used within these instructions.





WARNING

Indicates a potentially hazardous situation which, if not avoided, *may* result in minor or moderate injury. May also be used to alert against an unsafe operating or maintenance practice.



Indicates a potentially hazardous situation which, if not avoided, *could* result in death or serious injury.

INTRODUCTION

GENERAL INFORMATION

DESCRIPTION

Both Streamline and Mainstream Filters and Strainers are perfect solutions for continuous processing operations.

Mainstream filters and strainers are suitable for vertical mounting using an optional stand, wall mount brackets, or other external means. The Streamline filters and strainers are suitable for horizontal or vertical mounting, directly into the pipe work.

Both Streamline and Mainstream filters and strainers can use a twin setup. A twin filter or strainer setup consists of two complete units mounted onto a single stand. Directional valves at the inlet and outlet ports allow one unit to operate while the filter media in the other unit is being changed or cleaned.

Both Mainstream and Streamline filters and strainers are available in long or short models, with standard construction of stainless steel. All Mainstream models have side-entry ports. Streamline models have ports either at both ends (model SM or FM), or with a side inlet, bottom discharge configuration (model SMS or FMS).

NOTE: Cleaning - All internal components of a filter or strainer must be removed for manual cleaning.

Warning: Reverse flow or back flushing through either type filter or strainer can result to damage to the internal components.

FILTER VERSUS STRAINER (MAINSTREAM EXAMPLE USED)

When used as a filter, the unit contains a basket with a disposable bag that allows you to remove undesirable particles from a liquid or gas (down to 0.5 microns).

A strainer contains a perforated stainless steel basket, v-shaped wire basket, or wire mesh basket that allows you to remove larger particles (from 73 microns and higher) from the process stream.

FILTER/STRAINER OPTIONS

Mainstream

manistream					
SEF	Mainstre	Mainstream Filter: allows filtering from 0.5 micron to 800 micron using a filter bag.			
SES	Mainstream Strainer: allows medium or fine straining with either a perforated metal basket (0.033 or 0.062 diameter perforations) or a wire mesh basket with 20, 40, 60, 80, 100, 150, or 200 mesh. Suited for straining particles down to 73 micron.				
SEB	Mainstream Strainer Basket: allows course straining of large particles and foreign matter using large perforations (0.5, 0.25, 0.125, and 0.09375 diameter).				
SEBHVW	BHVW Mainstream Strainer Basket: allows for fine straining using a v-shaped (Vee-W basket with wire gaps of 0.005, 0.0075, 0.010, 0.015, 0.020, 0.025, 0.030, and				
		Minimum rating per 3A standard for Vee-Wire applications is 125 microns (0.005 gap.) Vee-Wire is a registered trademark of U.S. Filter.			
		3A does not approve the use of wire mesh baskets or over screens.			
Streamline					
SM/FM	Streamline in-line filter or strainer: allows you to strain or filter using either an overscreen or a filter sock. Suited for coarse to medium straining 1/4" to 200 mesh, or filtering 765 to 38 micron.				
SMS/FMS	overscre	ne in-line filter or strainer: allows you to strain or filter using either an een or a filter sock. Suited for coarse to medium straining ¼" to 200 mesh, or 765 to 38 micron.			

INSTALLATION

UNPACKING

The Streamline filter/strainer comes completely assembled, and ready to install. The Mainstream filter/strainer must be assembled.

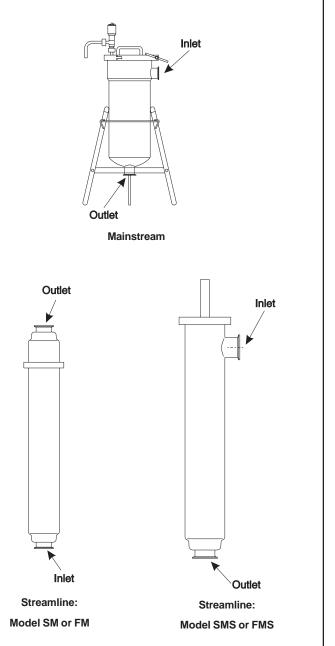
When you unpack the Mainstream filter or strainer, remove the special packing inside the unit.

For both the Mainstream and Streamline units, check for damage that could have occurred during shipping. Report any damage to the carrier.

PIPELINE INSTALLATION

MAINSTREAM

Unless otherwise specified, all Mainstream units operate in a vertical position. Flow translates from the side inlet to the discharge on the bottom.



STREAMLINE

All Streamline models can operate in any position. Flow for the standard Streamline versions translates from the inlet on the body to the discharge on the outlet assembly. Flow for the side inlet unit translates from the inlet on the side of the body to the discharge at the bottom of the body.

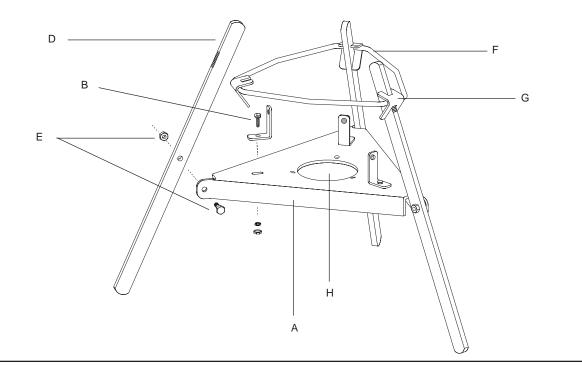
INSTALLATION

ASSEMBLING THE MAINSTREAM STAND

- 1. Remove the triangular base (A) and three right angle adjustable brackets (B) from the packing.
- 2. Assemble one bracket bolt combination (B) into each of the three slotted base holes with the washer on the underside of the base and the flat face of the rubber cushion toward the base center. Adjust the three brackets* to the widest opening for the housing, and partially tighten nuts but do not secure nuts until the housing is placed in stand.

*Note: Slotted holes allow for adjustment so that housing top surface can be level when assembly is placed on uneven floor.

- 3. Attach the three legs (D) to the triangular base (A) with the plastic or rubber caps upright and notched leg surface to the outside. Partially tighten the legs, but do not secure bolts (E) until the housing is placed in the stand.
- 4. Take the retainer ring (F) and orient the three tab slot openings (G) with the three slots so that the tabs (longer tab slot is down) are located between the notches and plastic/rubber cushion. This will allow the three legs to be opened greater than the diameter of the housing. The leg notches provide friction to hold legs securely against the housing during process operations. The retainer ring assembly anchors the legs in place.
- 5. Place stand assembly in a location that Filter/Strainer housing is to be installed.
- 6. Lower the housing through the stand retaining ring (F), so that the outlet port fits into the stand base hole (H). (Adjustable brackets should be wide enough so that no interference occurs between the legs and the housing.)
- 7. Adjust the angle of the brackets (B) to contact housing, and partially secure in place.
- 8. Press the tops of the 3 legs (D) on the stand inward so that they rest against the housing. Secure the inlet and outlet process lines to housing. (See *Pipeline Installation*.)
- 9. Lock the retaining ring (F) onto the grooves of the legs (D). Gently use a rubber hammer to secure the ring onto the grooves.
- 10. Tighten the adjustable brackets (B) and leg bolts (E).



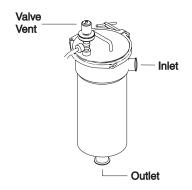
OPERATION

STARTING THE SYSTEM

Important: When installing new non-woven (felt) filter media, recirculate the process fluid through the filter. This will capture loose fibers before they go down stream.

MAINSTREAM

Ensure that the correct port is used for the inlet. (See figure below.)



Starting the Filter System

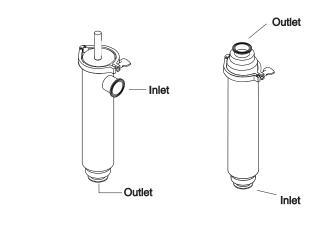
Open the vent valve slightly. Gradually fill the vessel by opening the inlet valve slowly. Close the vent valve when liquid emerges. Do not exceed a 10 psi differential across the bag.

Starting the Strainer System

Open the vent valve slightly. Gradually fill the vessel by opening the inlet valve slowly. Close the vent valve when liquid emerges.

STREAMLINE

Ensure that you are using the proper inlet. (See figures below.)



MAINSTREAM FILTER/STRAINER - DISASSEMBLY



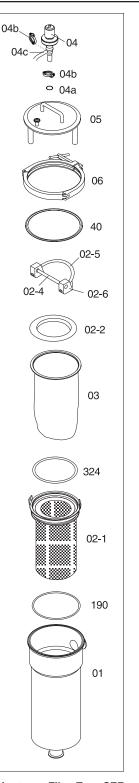
WARNING

Warning - Before disassembling any Mainstream filter or strainer, make certain that the system is not under pressure and that the system is drained of all liquids. Release pressure inside filter or strainer by opening the relief valve *before* disassembling.

Note: The cover of new Mainstream filters/strainers have three legs on the cover that rest on the screen ring assembly of the SEF, the support assembly of the SES or the basket of the SEB/ SEBHVW. Older models do not have legs on the cover.

MAINSTREAM SEF

- 1. Open the air relief valve to relieve all pressure inside the filter.
- 2. Remove the clamp (06) and lift off the filter cover (05).
- 3. Remove the cover gasket (40) and inspect for damage or wear.
- Lift the screen ring assembly (02-1) from the filter body (01) using the cam pin (02-4) as a handle. Do not use the cam handle (02-5) to remove the assembly.
- 5. Disassemble the screen ring assembly handle:
 - a. Force/deflect the cam handle (02-5) up from the retaining ring (04) toward center of the screen ring assembly (02-1).
 - b. Push one end of the cam pin (02-4) through the cam locks (02-6) until the cam locks, pin, and handle (02-5) are free of each other.
- 6. Remove the retaining ring (04), and remove the filter bag (03) from the basket and replace as necessary.
- 7. Remove the o-ring (324) from the inside diameter of the screen ring assembly and inspect for damage and wear.
- 8. Remove the o-ring (190) from the outside diameter of the screen ring assembly and inspect for damage and wear.



Mainstream Filter Type SEF

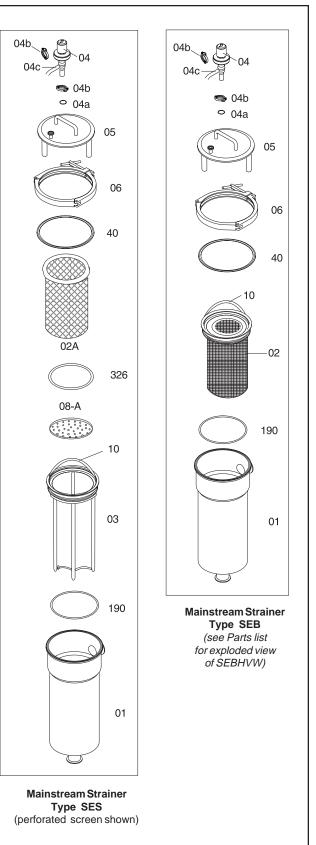
MAINSTREAM FILTER/STRAINER - DISASSEMBLY (CONT.)

MAINSTREAM SES

- 1. Open the air relief valve (04) to relieve all pressure inside the strainer.
- 2. Remove the clamp (06) and lift off the strainer cover (05).
- 3. Remove the cover gasket (40) and inspect for damage or wear.
- Lift the strainer ring support assembly (03) and strainer ring assembly (02) out of the strainer body (01) using the support assembly handle. Then remove the handle.
- Note: The support assembly may stick to the housing due to product residue. In this case use a rubber mallet to jar the support assembly loose before attempting to lift it out of the strainer body.
- Grasp the upper lip of the strainer ring assembly (02), and lift it out of the strainer ring support assembly (03).
- 6. Remove the support plate (08 or 08A) from the strainer ring support assembly (03).
- 7. Remove the o-ring (326) from the strainer ring assembly, and inspect for damage or wear.
- 8. Remove the o-ring (190) from the strainer ring support assembly, and inspect for damage or wear.

MAINSTREAM SEB AND SEBHVW

- 1. Open the air relief valve to relieve all pressure inside the strainer.
- 2. Remove the clamp (06) and lift off the strainer cover (05).
- 3. Remove the cover gasket (40) and inspect for damage or wear.
- 4. Using the handle at the top of the strainer ring assembly (02), lift the assembly out of the strainer body (01).
- Note: The assembly may stick to the strainer body due to product residue. In this case use a soft rubber mallet to jar the screen loose before attempting to lift it out of the support assembly.
- 5. Remove the o-ring (190) from the strainer ring assembly (02), and inspect for damage or wear.

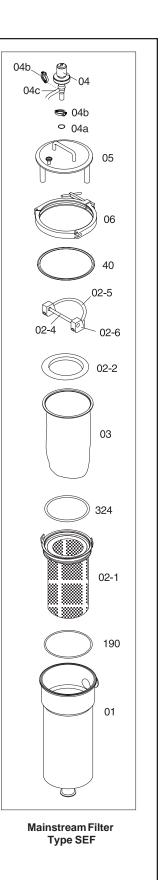


MAINSTREAM FILTER/STRAINER - REASSEMBLY

Note: The cover of new Mainstream filters/strainers have three legs on the cover that rest on the screen ring assembly of the SEF, the support assembly of the SES or the basket of the SEB/SEBHVW. Older models do not have legs on the cover.

MAINSTREAM SEF

- 1. Lubricate the o-ring (190) that seals the filter body (01) with a food grade silicone spray and place it on the outside diameter of the screen ring assembly (02-1).
- 2. Place the screen ring assembly o-ring (324) on the inside diameter of the assembly.
- 3. Insert the filter media (03) inside the screen ring assembly (02-1), pressing against the sides and bottom of the bag to ensure that the bag is smooth against the sides and bottom of the assembly. The filter bag should rest on top of the screen ring assembly o-ring (324).
- 4. Assemble the screen ring assembly handle:
 - a. Align the cam locks (02-6) with the notch on the handle (02-5) and the holes in the support ring.
 - b. Slide the cam pin (02-4) through the cam locks (02-6) until each end of the pin rests in the holes in the tabs on the screen ring assembly (02-1) ring.
 - c. Insert the retaining ring (04), (tapered rim downward), and fold the handle (02-5) to the locked position.
- 5. Using the cam pin (02-4) as a handle, lift the screen ring assembly (02-1) into the filter body (01), ensuring that it is snugly seated in the bottom of the body.
- Note: The rim of the screen ring assembly should rest just below the inside diameter of the inlet port when properly assembled.
- 6. Place the gasket (40) and cover (05) on the top of the body (01).
- Note: The cover of new Mainstream filters/strainers have three legs on the cover that rest on the screen ring assembly. Older models do not have legs on the cover.
- 7. Attach and tighten the clamp (06).



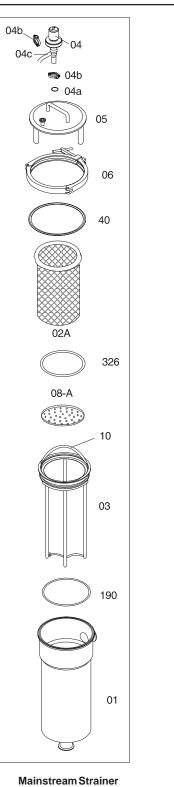
MAINSTREAM FILTER/STRAINER - REASSEMBLY (CONT.)

MAINSTREAM SES

- 1. Lubricate the o-ring (190) that seals the strainer body (01) with a food gradesilicone spray and place on the outside diameter of the strainer ring support assembly (03).
- 2. Place the strainer ring support assembly (03) inside the strainer body (01) so that it rests snugly on the bottom of the body.
- 3. If you are using a wire mesh strainer, place the strainer support plate (08) inside the strainer support with the rim facing downward.

If you are using a perforated strainer, place the strainer support plate (08A) inside the strainer support with the rim facing upward.

- 4. Lubricate the o-ring (326) that seals the strainer ring assembly (02) with a food grade lubricant (L-1011B) and place it on the outside diameter of the strainer ring assembly (02).
- 5. Place the strainer ring assembly (02) inside the strainer ring support assembly (03) so that the bottom strainer ring assembly rests snugly on the strainer support plate (08 or 08A).
- Place the handle on the strainer ring support assembly (02) by compressing the handle and sliding the ends into the two holes on the assembly. Once the handle is attached, lay it flat against the strainer support ring assembly.
- 7. Place the gasket (40) and cover (05) on the top of the strainer body (01).
- 8. Attach and tighten the clamp 06).

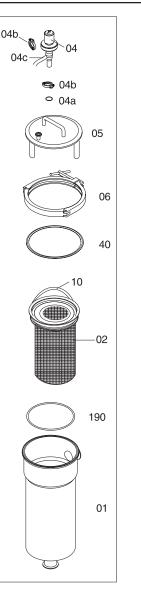


Type SES (perforated screen shown)

MAINSTREAM FILTER/STRAINER - REASSEMBLY (CONT.)

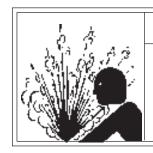
MAINSTREAM SEB/SEBHVW

- 1. Lubricate the o-ring (190) that seals the strainer body (01) with a food gradesilicone spray and place it on the outside diameter of the strainer ring assembly (02).
- 2. Place the strainer ring assembly (02) inside the body (01) so that the support ring on the assembly rests snugly against the lip inside the body.
 - Note: Fold the basket handle down over the support ring assembly.
- 3. Place the gasket (40) and cover (05) on the top of the strainer body (01).
- 4. Attach and tighten the clamp (06).



Mainstream Strainer Type SEB (see Parts list for exploded view of SEBHVW)

STREAMLINE BASKET FILTER/STRAINER - DISASSEMBLY



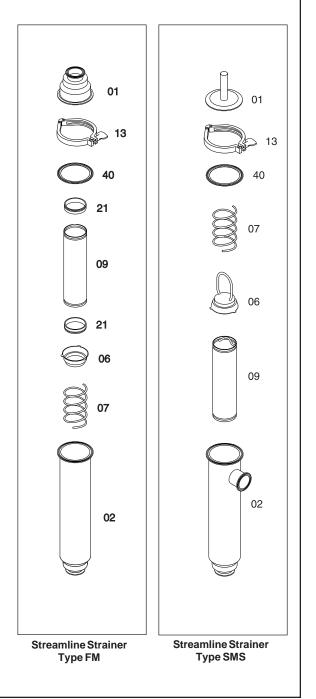
Warning - Make certain that the strainer system is not under pressure and that the system is drained of all liquids before removing any Streamline strainer from pipe work.

MODEL SM/FM

- 1. Remove the clamp (13) and lift off the outlet assembly (01).
 - Note: Apply pressure to the outlet assembly when you remove the clamp, as the strainer/filter spring will force the outlet assembly away from the body when the clamp is removed.
- 2. Remove the gasket (40) and inspect it for damage or wear.
- 3. Remove the back up tube (09) with filter sock or overscreen, spring (07), and distributor cap (06).
- 4. Change the filter sock or overscreen if necessary. Refer to *Changing the Filter Media* later in this manual for details.

MODEL SMS/FMS

- 1. Remove the clamp (13) and lift off the cap (01).
 - Note: Apply pressure to the cap when you remove the clamp, as the strainer/filter spring will force the cap away from the body when the clamp is removed.
- 2. Remove the gasket (40) and inspect it for damage or wear.
- 3. Remove the spring (07), distributor cap (06), and back up tube (09).
- 4. Change the filter sock or overscreen if necessary. Refer to *Changing the Filter Media* later in this manual for details.



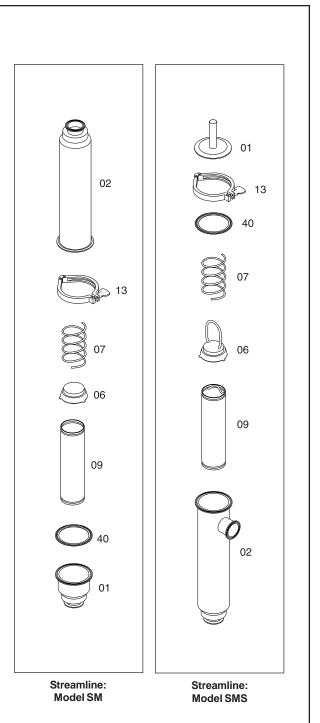
STREAMLINE BASKET FILTER/STRAINER - REASSEMBLY

MODEL SM/FM

- 1. Ensure that the filter media is in place on the back up tube (09). Refer to *Changing the Filter Media*, later in this manual.
- Place the gasket (40) on the outlet assembly (01).
- 3. Place the back up tube (09) in the outlet assembly (01).
- 4. Press the distributor cap (06) onto the back up tube (09).
- 5. Press the spring (07) onto the outside diameter of the distributor cap.
- 6. Press the filter body (02) over the entire assembly and compress it to the outlet assembly (01).
- 7. Attach and tighten the clamp (13).

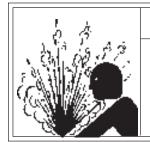
MODEL SMS/FMS

- 1. Ensure that the filter media is in place on the back up tube (09). Refer to *Changing the Filter Media*, later in this manual.
- Insert the back up tube (09) inside the body (02) ensuring that the bottom of the back up tube is seated firmly against the bottom of the body.
- Insert the distributor cap (06) inside the body (02) ensuring that the cap is seated firmly against the top of the back up tube (09).
 - Note: The opening on the handle of the distributor cap should be facing the opening of the inlet port so that the port is not blocked.
- 4. Insert the spring (07) inside the body (02) ensuring that the spring is seated firmly against the ridge on the distributor cap (06).
- 5. Place the gasket (40) on the body (02).
- 6. Compress the cap (06) onto the body (02), and attach and tighten the clamp (13).



CHANGING THE FILTER MEDIA

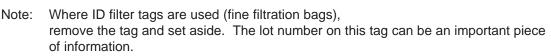
MAINSTREAM SEF



Warning - Make certain that the strainer system is not under pressure and that the system is drained of all liquids. Release pressure inside filter/strainer by opening the relief valve *before* replacing the bag.

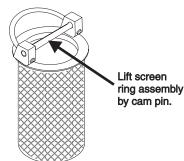
Important: When installing a filter bag, remove the tag and save it. The tag will help you identify your filter type when reordering.

- 1. Open the air relief valve to relieve all pressure inside the filter. Make certain the filtration system is drained of all liquid. Residual can result in the bag floating and not seating properly.
- 2. Remove the filter cover, and lift the screen ring assembly from the housing using the cam pin as a handle. (Do not use the filter strainer handle to remove the basket assembly.)
- 3. Raise the assembly handle upward toward the center of the assembly to unlock the handle.
- 4. Remove the filter media retainer ring that secures the basket filter bag onto the o-ring.
- 5. Withdraw the filter bag from the basket and discard.



For basket filter bags that are nearly filled, it may be necessary to disassemble the cam lock assembly in order to remove the filled bag. (Refer to Mainstream Filter/Strainer Disassembly earlier in this manual for more information on disassembly the cam lock assembly.)

- 6. Insert a new bag into the basket, contouring the bag against the basket, making sure it fits smoothly against the sides and bottom of the basket.
- 7. Reinstall the o-ring, cam lock assembly (if necessary), and retainer ring, and lock bag in place. (See the *Mainstream Filter/Strainer Reassembly* section for details.)
- 8. Install the screen ring assembly into the housing.
- 9. Close the cover, and replace and tighten the clamp.

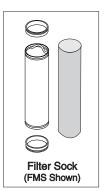


STREAMLINE MODELS FM/SM AND FMS/SMS

Important: When installing a filter sock or overscreen, save the original packaging. This will help you identify your filter media type when reordering.

- 1. Relieve all pressure inside the system and make certain the filtration system is drained of all liquid.
- 2. Remove the outlet assembly (for model FM or SM) or the filter/strainer cap (for model FMS or SMS).
- 3. Remove the spring, distributor cap, and back up tube from the body.
- 4. If you are using an overscreen, slide the overscreen off of the backup tube, clean it or replace it, and go to Step 8.
- 5. If you are using a filter sock, remove the retaining rings on both ends of the back up tube, and slide the sock off of the tube.
- 6. Insert a new sock over the back up tube and tuck the ends of the filter bag over both ends of the tube. Then insert the retaining rings inside each end of the tube to hold the bag in place.
- 7. Replace the back up tube, distributor, and spring inside the housing. (For detailed information, refer to *Streamline Filter/Strainer Reassembly* earlier in this manual.)
- 8. Compress the outlet assembly (for model FM) or the cap (model FMS) onto the body, and attach and tighten the clamp.





TROUBLESHOOTING

TROUBLESHOOTING GUIDELINES

The Troubleshooting section chart below applies to problems which may arise during filter or strainer operation. Contact Alfa Laval if assistance is required.

Problem	Probable Cause	Remedy
SM: Split in overscreen along length	Pump pulsation is causing the screen to stretch and fold along the length and cause fatigue and failure.	Dampen pulsation, or use a different type of pump.
SM: Blown out screen	Backflushing through the screen. On fine wire mesh screens, the screen is wrapped around the O.D. of the back up tube, which provides support for the designed direction of flow. No such support exists to protect the screen in a reverse flow pattern. Even a momentary reverse flow spike can lead to this problem.	Protect the system from backflush by installing check valves or relief lines.
SM: Holes in screen FM: Torn filter	Differential pressure too high.	Stop and clean screen, or change media at 10 psi $\triangle P$.
SEF: Bag blown through	Either the filter bag is not contoured to the support basket, or a momentary backflow has pushed the bag away from the support basket.	See Filter Bag Replacement for proper installation instructions. Install backflow prevention devices or pressure relief devices as appropriate.
SES: Screen folded or crushed	Backflushing through the screen. On fine wire mesh screens, a coarser screen wrapped around the O.D. of the fine screen provides support for the designed direction of flow. No such support exists to protect the screen in a reverse flow pattern. Even a momentary reverse flow spike can lead to this problem.	Protect the system from backflush by installing check valves or relief lines.
SES: Bottom of screen has damaged wire mesh or is blown out	Support plate not installed or installed incorrectly. On the finer wire mesh screens, the support plate at the immediate exterior of the bottom of the basket provides a solid support against differential pressure due to clogging. In some cases, the plate is not installed or installed upside down, allowing the screen to fatigue under strain and ultimately give way to pressure.	Install support plate correctly as described under <i>Mainstream Filter/Strainer</i> <i>Reassembly</i> earlier in this manual.
SES: Screen ring support assembly is difficult to remove from housing.	Dried product, especially sticky sugar type solutions, can cause the o-ring seal to bind on the housing.	Grasp the strainer assembly handle and twist the assembly in the housing to break the o-ring free. Then lift the assembly out of the housing.

MAINSTREAM - REPLACEMENT PARTS

Filter / Strainer part numbers listed are basic guidelines. Contact Alfa Laval for accurate part numbers and descriptions.

Mainstream (SEF)

Key No.	Description	Part Number	04b 04
01	Filter Body, long (2", 50.8mm) unpolished	SES2-2-01-316-I	04c
01	Filter Body, short (2", 50.8mm) unpolished	SES1-2-01-316-I	• 04b
01	Filter Body, long (2", 50.8mm) polished	SES2-2-01-316-P	° 04a
01	Filter Body, short (2", 50.8mm) unpolished	SES1-2-01-316-P	(()) 05
01	Filter Body, long (3", 76.2mm) unpolished	SES2-3-01-316-I	
01	Filter Body, short (3", 76.2mm) unpolished	SES1-3-01-316-I	
01	Filter Body, long (3", 76.2mm) polished	SES2-3-01-316-P	06
01	Filter Body, short (3", 76.2mm) polished	SES1-3-01-316-P	
01	Filter Body, long (4", 101.6mm) unpolished	SES2-4-01-316-I	
01	Filter Body, short (4", 101.6mm) unpolished	SES1-4-01-316-I	40
01	Filter Body, long (4", 101.6mm) polished	SES2-4-01-316-P	02-5
01	Filter Body, short (4", 101.6mm) polished	SES1-4-01-316-P	
02-1	Screen Ring Assembly (short body)	SEF1-2-02-1-316L	02-4 02-6
02-1	Screen Ring Assembly (long body)	SEF2-2-02-1-316L	
02-2	Retainer Ring	SEF-2-04-316L	02-2
02-4	Cam Pin	SEF-2-02-4-316L	
02-5	Cam Handle	SEF-2-02-5-316L	
02-6	Cam Lock (UHMW) (2 required)	SEF-2-02-6	03
02-6	Cam Lock (Alum. Bronze) (2 required)	SEF-2-02-6-B	
03	Filter Media	See Filter Media Replacements.	
04	Relief Valve (UHMW handle)	660-10M-40-HN-½x½-C-316L	
04	Relief Valve (Alum. Bronze handle)	660-10M-40-BR-½x½-C-316L	324
04a	Relief Valve Gasket (Buna)	42-MP-U-½	U ULT
04a	Relief Valve Gasket (SFY)	42-MP-SFY-1/2	
04a	Relief Valve Gasket (EPDM)	42-MP-E-1⁄2	
04b	Releif Valve Clamp	13MHHS-¾-S	02-1
04c	Elbow Fitting	TL2CM-1/2-316L-PD	
05	End Cap Assembly (2" or 3" housing)	SEB/FR-2-05-4.078-316L-FINISH	
05a	End Cap Assembly (4" housing)	SEB/FR-2-05-5.062-316L-FINISH	190
06	Filter Clamp	SES-2-06A-S	
40	Cover Gasket (Buna)	40MVF-U-8	
40	Cover Gasket (SFY)	40MVF-SFY-8	
40	Cover Gasket (EPDM)	40MVF-E-8	01
190	O-Ring, Buna (O.D.)	17-190-U	
190	O-Ring, SFY (O.D.)	17-190-SFY	
190	O-Ring, EPDM (O.D.)	17-190-E	
324	O-Ring, Buna (I.D.)	17-324-U	
324	O-Ring, SFY (I.D.)	17-324-SFY	SEF
324	O-Ring, EPDM (I.D.)	17-324-E	JEF

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Mainstream (SES)

Key No.	Description	Part Number	04c	<u></u> 04
01	Filter Body, long (2", 50.8mm) unpolished	SES2-2-01-316-I		04b
01	Filter Body, short (2", 50.8mm) unpolished	SES1-2-01-316-I	0	04a
01	Filter Body, long (2", 50.8mm) polished	SES2-2-01-316-P		05
01	Filter Body, short (2", 50.8mm) unpolished	SES1-2-01-316-P		
01	Filter Body, long (3", 76.2mm) unpolished	SES2-3-01-316-I		s.
01	Filter Body, short (3", 76.2mm) unpolished	SES1-3-01-316-I		06
01	Filter Body, long (3", 76.2mm) polished	SES2-3-01-316-P		5
01	Filter Body, short (3", 76.2mm) polished	SES1-3-01-316-P		
01	Filter Body, long (4", 101.6mm) unpolished	SES2-4-01-316-I		40
01	Filter Body, short (4", 101.6mm) unpolished	SES1-4-01-316-I		
01	Filter Body, long (4", 101.6mm) polished	SES2-4-01-316-P		
01	Filter Body, short (4", 101.6mm) polished	SES1-4-01-316-P	02	
02	Strainer Ring Assembly	Refer to Mainstream Media Options		
3	Strainer Ring Support Assembly (Short body)	•		
03	Strainer Ring Support Assembly (Long body)	SES2-2-03A-316		
04	Relief Valve (UHMW handle)	660-10M-40-HN-½x½-C-316L		326
04	Relief Valve (Alum. Bronze handle)	660-10M-40-BR-½x½-C-316L	08-A	08
04a	Relief Valve Gasket (Buna)	42-MP-U-½		
04a	Relief Valve Gasket (SFY)	42-MP-SFY-½		
04a	Relief Valve Gasket (EPDM)	42-MP-E-½		10
04b	Relief Valve Clamp	13MHHS-¾-S		
05	End Cap Assembly (2" or 3" housing)	SEB/FR-2-05-4.078-316L-FINISH		
05a	End Cap Assembly (4" housing)	SEB/FR-2-05-5.062-316L-FINISH		
06	Strainer Clamp	SES-2-06A-S		03
08	Strainer Support Plate for Wire Mesh	SES-2-08-316		
08A	Strainer Support Plate for Perforated Metal	SES-2-08A-316		
10	Removable Handle	SES-2-10B-316		~
40	Cover Gasket (Buna)	40MVF-U-8		190
40	Cover Gasket (SFY)	40MVF-SFY-8		
40	Cover Gasket (EPDM)	40MVF-E-8		
190	O-Ring, Buna (O.D.)	17-190-U		~
190	O-Ring, SFY (O.D.)	17-190-SFY		
190	O-Ring, EPDM (O.D.)	17-190-E		01
326	O-Ring, Buna (I.D.)	17-326-U		01
326	O-Ring, SFY (I.D.)	17-326-SFY		
326	O-Ring, EPDM (I.D.)	17-326-E		5
		1	S	ES

01Filter Body, long $(2^*, 50.8 \text{mm})$ unpolishedSES2-2-01-316-I01Filter Body, short $(2^*, 50.8 \text{mm})$ unpolishedSES1-2-01-316-I01Filter Body, short $(2^*, 50.8 \text{mm})$ unpolishedSES1-2-01-316-P01Filter Body, long $(3^*, 76.2 \text{mm})$ unpolishedSES2-3-01-316-P01Filter Body, short $(3^*, 76.2 \text{mm})$ unpolishedSES2-3-01-316-I01Filter Body, long $(3^*, 76.2 \text{mm})$ unpolishedSES1-3-01-316-P01Filter Body, long $(3^*, 76.2 \text{mm})$ unpolishedSES1-3-01-316-P01Filter Body, long $(4^*, 101.6 \text{mm})$ unpolishedSES1-4-01-316-P01Filter Body, long $(4^*, 101.6 \text{mm})$ unpolishedSES1-4-01-316-P02Strainer Ring AssemblyRefer to Mainstream Media Options04Relief Valve (UHMW handle)660-10M-40HN-½X½-C-316L04Relief Valve (Alum. Bronze handle)660-10M-40BR-½X½-C-316L05End Cap Assembly (2* o 3* housing)SEBFR-2:05-4:078-316L-FINSH05End Cap Assembly (2* o 3* housing)SEBFR-2:05-4:078-316L-FINSH05End Cap Assembly (2* o 3* housing)SEBFR-2:05-4:078-316L-FINSH05End Cap Assembly (2* o 3* housing)SEBFR-2:05-4:08-305End Cap Assembly (2* o 3* housing)SEBFR-2:05-4:08-306Strainer ClampSES-2:0A-31607HandleSES-2:0A-31608Cover Gasket (BIna)40MVF-L-809O-Ring, Buna (O.D.)17-324-U0O-Ring, Buna (O.D.)17-324-U	Key			04b. 🗳
01Filter Body, short (2", 50.8mm) unpolishedSES1-2-01-316-I \odot 04b01Filter Body, long (2", 50.8mm) unpolishedSES2-2-01-316-P \odot 04a01Filter Body, short (2", 50.8mm) unpolishedSES1-2-01-316-P \odot 04a01Filter Body, short (3", 76.2mm) unpolishedSES2-3-01-316-I \bigcirc 04a01Filter Body, short (3", 76.2mm) polishedSES2-3-01-316-P \bigcirc 04a01Filter Body, short (3", 76.2mm) polishedSES2-3-01-316-P \bigcirc 04a01Filter Body, long (4", 101.6mm) polishedSES2-4-01-316-I \bigcirc 04a01Filter Body, short (4", 101.6mm) polishedSES1-4-01-316-P \bigcirc 04a01Filter Body, long (4", 101.6mm) polishedSES1-4-01-316-P \bigcirc 04a01Filter Body, short (4", 101.6mm) polishedSES1-4-01-316-P \bigcirc 04a02Strainer Ring AssemblyRefer to Mainstream Media Options $660-10M-40HN-½x½-C-316L$ 04Relief Valve (JHMW handle) $660-10M-40BR-½x½-C-316L$ \bigcirc 04b04Relief Valve Gasket (Buna) $42MP-U-½$ 04Relief Valve Gasket (SFY) $42MP-SFY-½$ 04Relief Valve Clamp $13MHHS-¾-S$ 05End Cap Assembly (2" o 3" housing)SEB/FR-2054.078.316L-FINISH05End Cap Assembly (2" o 3" housing)SEB/FR-2054.078.316L-FINISH05End Cap Assembly (2" o 3" housing)SEB/FR-2054.078.316L-FINISH05Strainer ClampSES-2:06A-S06Strainer ClampSES-2:0A-31607HandleSES-2:0A-3160	No.	Description	Part Number	04
01Filter Body, long (2*, 50.8mm) polishedSES2-201-316-P \circ 04a01Filter Body, short (2*, 50.8mm) unpolishedSES1-2-01-316-P \circ 0501Filter Body, short (3*, 76.2mm) unpolishedSES2-3-01-316-I \circ 0501Filter Body, short (3*, 76.2mm) polishedSES2-3-01-316-I \circ 06a01Filter Body, short (3*, 76.2mm) polishedSES2-3-01-316-I \circ 0601Filter Body, short (3*, 76.2mm) polishedSES2-3-01-316-P \circ 0601Filter Body, short (4*, 101.6mm) unpolishedSES1-3-01-316-I \circ 0601Filter Body, short (4*, 101.6mm) polishedSES2-4-01-316-I \circ 0602Strainer Ring AssemblyRefer to Mainstream Media Options $660-10M.40HN.^3x/x-C-316L$ \circ 0104Relief Valve (Alum. Bronze handle) $660-10M.40HN.^3x/x-C-316L$ \circ 0104Relief Valve Gasket (Buna) $42MP-LV.'_X$ $42MP-SFY.'_X$ 04Relief Valve Gasket (EPDM) $42MP-SFY.'_X$ 05End Cap Assembly (2* 0 3* housing)SEB/FR-206-AS05End Cap Assembly (2* 0 3* housing)SEB/FR-206-AS06Strainer ClampSES-2-06A-S07HandleSES-2-10A-31608Cover Gasket (Buna) $40MVF-U-B$ 04Cover Gasket (Buna) $40MVF-SFY-8$ 05Cover Gasket (Buna) $40MVF-SFY-8$ 06Strainer Clamp $5SS-2-10A-316$ 07HandleSES-2-10A-31608Cover Gasket (EPDM) $40MVF-SFY-8$ 09O-Ring, Buna (O.D.	01		SES2-2-01-316-I	04c
01Filter Body, short (2^* , 50.8mm) unpolishedSES1-2-01-316-P01Filter Body, long (3^* , 76.2mm) unpolishedSES2-3-01-316-I01Filter Body, long (3^* , 76.2mm) unpolishedSES2-3-01-316-I01Filter Body, long (3^* , 76.2mm) polishedSES1-3-01-316-I01Filter Body, long (3^* , 76.2mm) polishedSES2-3-01-316-I01Filter Body, long (4^* , 101.6mm) unpolishedSES1-3-01-316-I01Filter Body, short (4^* , 101.6mm) unpolishedSES2-4-01-316-I01Filter Body, short (4^* , 101.6mm) polishedSES1-4-01-316-I02Strainer Ring AssemblySES1-4-01-316-P03Relief Valve (UHMW handle)660-10M-40HN-½x½-C-316L04Relief Valve Gasket (Buna)42MP-U-½04Relief Valve Gasket (SFY)42MP-SFY-½04Relief Valve Gasket (SFY)42MP-SFY-½04Relief Valve Gamp13MHHS-½xS15End Cap Assembly (2^* o 3^* housing)SEB/FR-205-5.062-316L-FINISH05End Cap Assembly (4^* housing)SES2-210A-31606Strainer ClampSES-2-10A-31601HandleSES-2-10A-31602Over Gasket (Buna)40MVF-U-804Cover Gasket (SFY)40MVF-SFY-805End Cap Assembly (4^* housing)SES-2-10A-31606Strainer ClampSES-2-10A-31607HandleSES-2-10A-31608Cover Gasket (SFY)40MVF-U-809O-Ring, Buna (O.D.)17-324-U	01			9 04b
01Filter Body, long (3*, 76.2mm) unpolishedSES2-3-01-316-I01Filter Body, shot (3*, 76.2mm) unpolishedSES1-3-01-316-I01Filter Body, long (3*, 76.2mm) polishedSES1-3-01-316-P01Filter Body, shot (3*, 76.2mm) polishedSES2-3-01-316-P01Filter Body, long (4*, 101.6mm) unpolishedSES2-4-01-316-I01Filter Body, shot (4*, 101.6mm) unpolishedSES1-4-01-316-P02Strainer Ring AssemblyRefer to Mainstream Media Options04Relief Valve (UHMW handle)660-10M-40R-½x½-C-316L04Relief Valve Gasket (Buna)42MP-U-½04aRelief Valve Gasket (SFY)42MP-SFY-½04bRelief Valve Clamp13MHHS-¾-S04cElbow FittingTL2CM-½-316L-FINISH05End Cap Assembly (2* o 3* housing)SEB/FR-205-40.78-316L-FINISH05Strainer ClampSES-2-06A-S06Strainer ClampSES-2-10A-31606Strainer ClampSES-2-06A-S07HandleSES-2-10A-31608Cover Gasket (SFY)40MVF-U-804Cover Gasket (SFY)40MVF-SFY-805Cover Gasket (SFY)40MVF-SFY-806Strainer ClampSES-2-10A-31607O-Ring, Buna (O.D.)17-324-U	01	Filter Body, long (2", 50.8mm) polished	SES2-2-01-316-P	○ 04a
11Initian Body, long (3'', 76.2mm) unpolished $SES2-3-01-316-1$ 11Filter Body, short (3'', 76.2mm) polished $SES1-3-01-316-1$ 11Filter Body, short (3'', 76.2mm) polished $SES2-3-01-316-P$ 11Filter Body, short (3'', 76.2mm) polished $SES2-3-01-316-P$ 11Filter Body, short (4'', 101.6mm) unpolished $SES2-4-01-316-P$ 11Filter Body, short (4'', 101.6mm) unpolished $SES2-4-01-316-P$ 11Filter Body, short (4'', 101.6mm) unpolished $SES2-4-01-316-P$ 11Filter Body, short (4'', 101.6mm) polished $SES2-4-01-316-P$ 12Strainer Ring AssemblyRefer to Mainstream Media Options13660-10M-40BN-½x½-C-316L $660-10M-40BN-½x½-C-316L$ 14Relief Valve Gasket (Buna) $42MP-U-½$ 14Relief Valve Gasket (SFY) $42MP-E-½$ 15End Cap Assembly (2'' o 3'' housing) $SEB/FR-205-4078-316L-FINISH$ 16Strainer Clamp $SES-2-10A-316$ 16Strainer Clamp $SES-2-10A-316$ 16Cover Gasket (Buna) $40MVF-U-8$ 10Handle $SES-2-10A-316$ 10Handle $SES-2-10A-316$ 11Cover Gasket (SFY) $40MVF-SFY-8$ 12Over Gasket (EPDM) $40MVF-SFY-8$ 13O-Ring, Buna (O.D.) $17-324-U$	01	Filter Body, short (2", 50.8mm) unpolished	SES1-2-01-316-P	
01Filter Body, long $(3^{\circ}, 76.2mm)$ polishedSES2-3-01-316-P01Filter Body, short $(3^{\circ}, 76.2mm)$ polishedSES2-4-01-316-P01Filter Body, long $(4^{\circ}, 101.6mm)$ unpolishedSES2-4-01-316-P01Filter Body, long $(4^{\circ}, 101.6mm)$ unpolishedSES1-4-01-316-P01Filter Body, short $(4^{\circ}, 101.6mm)$ polishedSES1-4-01-316-P02Strainer Ring AssemblyRefer to Mainstream Media Options04Relief Valve (UHMW handle)660-10M-40HN-½x½-C-316L04Relief Valve Gasket (Buna)42MP-U-½04aRelief Valve Gasket (SFY)42MP-SFY-½04bRelief Valve Gasket (EPDM)42MP-E-½04cElbow FittingTL2CM-½-316L-FINISH05End Cap Assembly (2^{\circ} o 3^{\circ} housing)SEB/FR-2:05-4:078-316L-FINISH05Strainer ClampSES-2-06A-S10HandleSES-2-10A-31604Cover Gasket (Buna)40MVF-U-804Cover Gasket (SFY)40MVF-SFY-804Cover Gasket (SFY)40MVF-SFY-805Ind Cover Gasket (SFY)40MVF-SFY-806Strainer ClampSES-2-10A-31601Cover Gasket (EPDM)40MVF-SFY-802O-Ring, Buna (O.D.)17-324-U	01	Filter Body, long (3", 76.2mm) unpolished	SES2-3-01-316-I	
01Filter Body, short (3*, 76.2mm) polishedSES1-3-01-316-P01Filter Body, long (4*, 101.6mm) unpolishedSES2-4-01-316-I01Filter Body, long (4*, 101.6mm) unpolishedSES1-4-01-316-P01Filter Body, short (4*, 101.6mm) polishedSES1-4-01-316-P02Strainer Ring AssemblyRefer to Mainstream Media Options04Relief Valve (UHMW handle)660-10M-40HN-½x½-C-316L04Relief Valve Gasket (Buna)42MP-U½04aRelief Valve Gasket (SFY)42MP-SFY-½04bRelief Valve Gasket (EPDM)42MP-SFY-½04cElbow FittingTL2CM-½-316L-PD05End Cap Assembly (2* o 3* housing)SEB/FR-2:05-4:078-316L-FINISH06Strainer ClampSES-2:10A-31606Strainer ClampSES-2:10A-31606Gover Gasket (SFY)40MVF-U-806Cover Gasket (SFY)40MVF-SFY-807Gover Gasket (SFY)40MVF-SFY-808Strainer ClampSES-2:10A-31609O-Ring, Buna (O.D.)17:324-USEB/SEBHVO	01	Filter Body, short (3", 76.2mm) unpolished	SES1-3-01-316-I	
Or Filter Body, long (4", 101.6mm) unpolishedSEES 2-4-01-316-101Filter Body, long (4", 101.6mm) unpolishedSES2-4-01-316-101Filter Body, short (4", 101.6mm) polishedSES2-4-01-316-P01Filter Body, short (4", 101.6mm) polishedSES1-4-01-316-P02Strainer Ring AssemblyRefer to Mainstream Media Options04Relief Valve (UHMW handle)660-10M-40HN- $\frac{1}{2}\frac{1}{2}\sqrt{-2-316L}$ 04Relief Valve Gasket (Buna)42MP-U- $\frac{1}{2}$ 04aRelief Valve Gasket (SFY)42MP-SFY- $\frac{1}{2}$ 04bRelief Valve Clamp13MHHS- $\frac{3}{2}\sqrt{-5}$ 04cElbow FittingTL2CM- $\frac{1}{2}\sqrt{-316L-FINISH}$ 05aEnd Cap Assembly (2" o 3" housing)SEB/FR-2-05-062-316L-FINISH05aEnd Cap Assembly (4" housing)SES-2-10A-31606Strainer ClampSES-2-06A-S10HandleSES-2-10A-31604Cover Gasket (SFY)40MVF-SFY-804Cover Gasket (EPDM)04MOVF-SFY-804Cover Gasket (EPDM)05End Cap Assembly (4" housing)05Ethor (SFY)04MOVF-SFY-804Cover Gasket (Buna)05Gosket (BUNa)06Strainer Clamp07MOVF-SFY-808Cover Gasket (EPDM)09O-Ring, Buna (O.D.)0717-324-U04SEBCRSEBHV	01	Filter Body, long (3", 76.2mm) polished	SES2-3-01-316-P	
01Filter Body, short (4", 101.6mm) unpolishedSES1-4-01-316-I01Filter Body, long (4", 101.6mm) polishedSES2-4-01-316-P01Filter Body, short (4", 101.6mm) polishedSES1-4-01-316-P02Strainer Ring AssemblyRefer to Mainstream Media Options04Relief Valve (UHMW handle) $660-10M-40HN-½x/y-C-316L$ 04Relief Valve Gasket (Buna) $42MP-U-½$ 04aRelief Valve Gasket (SFY) $42MP-SFY-½$ 04aRelief Valve Gasket (EPDM) $42MP-SFY-½$ 04bRelief Valve Clamp $13MHHS-¾-S$ 04cElbow FittingTL2CM-½-316L-PD05aEnd Cap Assembly (4" housing)SEB/FR-2:05-4.078-316L-FINISH05aEnd Cap Assembly (4" housing)SES-2:06A-S05Strainer ClampSES-2:10A-31606Strainer ClampSES-2:10A-31607HandleSES-2:10A-31608Cover Gasket (SFY)40MVF-SFY-809O-Ring, Buna (O.D.)17:324-USEBK/SEBHWY	01	Filter Body, short (3", 76.2mm) polished	SES1-3-01-316-P	06
01Filter Body, long (4", 101.6mm) polishedSES2-4-01-316-P01Filter Body, short (4", 101.6mm) polishedSES1-4-01-316-P02Strainer Ring AssemblyRefer to Mainstream Media Options04Relief Valve (UHMW handle)660-10M-40HN-½x½-C-316L04Relief Valve Gasket (Buna)42MP-U-½04aRelief Valve Gasket (SFY)42MP-SFY-½04aRelief Valve Gasket (SFY)42MP-E-½04bRelief Valve Clamp13MHHS-¾-S04cElbow FittingTL2CM-½-316L-FINISH05aEnd Cap Assembly (2" o 3" housing)SEB/FR-2-05-5.062-316L-FINISH05aEnd Cap Assembly (2" o 3" housing)SEB/FR-2-05-4.078-316L-FINISH06Strainer ClampSES-2-10A-31610HandleSES-2-10A-31604Cover Gasket (Buna)40MVF-U-804Cover Gasket (Buna)0105Strainer ClampSES-2-10A-31606Strainer ClampSES-2-10A-31607Uover Gasket (Buna)40MVF-U-808Cover Gasket (Buna)40MVF-SFY-809O-Ring, Buna (O.D.)17-324-USEBBLYY	01	Filter Body, long (4", 101.6mm) unpolished	SES2-4-01-316-I	
01Filter Body, long (4", 101.6mm) polishedSES2-4-01-316-P01Filter Body, short (4", 101.6mm) polishedSES1-4-01-316-P02Strainer Ring AssemblyRefer to Mainstream Media Options04Relief Valve (UHMW handle)660-10M-40HN-½x½-C-316L04Relief Valve (Alum. Bronze handle)660-10M-40BR-½x½-C-316L04aRelief Valve Gasket (Buna)42MP-U-½04aRelief Valve Gasket (SFY)42MP-SFY-½04aRelief Valve Gasket (EPDM)42MP-E-½04bRelief Valve Clamp13MHHS-¾-S04cElbow FittingTL2CM-½-316L-FINISH05aEnd Cap Assembly (2" o 3" housing)SEB/FR-2-05-4.078-316L-FINISH05aEnd Cap Assembly (4" housing)SES-2-10A-31606bStrainer ClampSES-2-10A-31607HandleSES-2-10A-31608Cover Gasket (Buna)40MVF-U-809O-Ring, Buna (O.D.)17-324-USEBBHEN/X	01	Filter Body, short (4", 101.6mm) unpolished	SES1-4-01-316-I	40
OrFilter Body, short (4, forthermit pointedColor 4/01/310402Strainer Ring AssemblyRefer to Mainstream Media Options04Relief Valve (UHMW handle)660-10M-40HN-½x½-C-316L04Relief Valve Gasket (Buna)42MP-U-½04aRelief Valve Gasket (SFY)42MP-SFY-½04aRelief Valve Gasket (EPDM)42MP-E-½04bRelief Valve Clamp13MHHS-¾-S04cElbow FittingTL2CM-½-316L-PD05End Cap Assembly (2" o 3" housing)SEB/FR-2-05-4.078-316L-FINISH05aEnd Cap Assembly (2" o 3" housing)SEB/FR-2-05-5.062-316L-FINISH05aEnd Cap Assembly (4" housing)SES-2-06A-S10HandleSES-2-10A-31604Cover Gasket (Buna)40MVF-U-805Cover Gasket (SFY)40MVF-SFY-806Cover Gasket (SFY)40MVF-E-819O-Ring, Buna (O.D.)17-324-USEB/SEBHVA	01	Filter Body, long (4", 101.6mm) polished	SES2-4-01-316-P	
04Relief Valve (UHMW handle)660-10M-40HN-½x½-C-316L04Relief Valve (Alum. Bronze handle)660-10M-40BR-½x½-C-316L04aRelief Valve Gasket (Buna)42MP-U-½04aRelief Valve Gasket (SFY)42MP-SFY-½04aRelief Valve Gasket (EPDM)42MP-E-½04bRelief Valve Clamp13MHHS-¾-S04cElbow FittingTL2CM-½-316L-PD05End Cap Assembly (2" o 3" housing)SEB/FR-2-05-4.078-316L-FINISH05aEnd Cap Assembly (4" housing)SEB/FR-2-05-5.062-316L-FINISH06Strainer ClampSES-2-10A-31601HandleSES-2-10A-31602Urit Addition (SFY)40MVF-U-804Cover Gasket (SFY)40MVF-SFY-805Cover Gasket (SFY)40MVF-SFY-806Cover Gasket (SP)40MVF-SFY-807SEB/SES-2-10A-3160108Cover Gasket (SFY)40MVF-SFY-809O-Ring, Buna (O.D.)17-324-U00SEB/SEBHUV	01	Filter Body, short (4", 101.6mm) polished	SES1-4-01-316-P	
04Relief Valve (UHMW handle)660-10M-40HN-½x½-C-316L04Relief Valve (Alum. Bronze handle)660-10M-40BR-½x½-C-316L04aRelief Valve Gasket (Buna)42MP-U-½04aRelief Valve Gasket (SFY)42MP-SFY-½04aRelief Valve Gasket (EPDM)42MP-E-½04bRelief Valve Clamp13MHHS-¾-S04cElbow FittingTL2CM-½-316L-PD05End Cap Assembly (2" o 3" housing)SEB/FR-2-05-4.078-316L-FINISH06Strainer ClampSEB/FR-2-05-3.062-316L-FINISH06Strainer ClampSES-2-10A-31601Cover Gasket (SFY)40MVF-U-840Cover Gasket (SFY)40MVF-SFY-800Cover Gasket (EPDM)17-324-USEB/SEBHVV	02	Strainer Ring Assembly	Refer to Mainstream Media Options	
04Relief Valve Gasket (Buna)42MP-U-½04aRelief Valve Gasket (SFY)42MP-SFY-½04aRelief Valve Gasket (EPDM)42MP-E-½04bRelief Valve Gasket (EPDM)42MP-E-½04cElbow FittingTL2CM-½-316L-PD05End Cap Assembly (2" o 3" housing)SEB/FR-2-05-4.078-316L-FINISH05aEnd Cap Assembly (2" o 3" housing)SEB/FR-2-05-4.078-316L-FINISH05aEnd Cap Assembly (4" housing)SEB/FR-2-05-4.078-316L-FINISH06Strainer ClampSES-2-06A-S10HandleSES-2-10A-31601Cover Gasket (Buna)40MVF-U-804Cover Gasket (SFY)40MVF-SFY-805Cover Gasket (EPDM)17-324-U06Strainer (Long)SEB/SERHVA	04	Relief Valve (UHMW handle)	660-10M-40HN-½x½-C-316L	
04aRelief Valve Gasket (SFY)42MP-SFY-½04aRelief Valve Gasket (EPDM)42MP-E-½04bRelief Valve Clamp13MHHS-¾-S04cElbow FittingTL2CM-½-316L-PD05End Cap Assembly (2" o 3" housing)SEB/FR-2-05-5.062-316L-FINISH05aEnd Cap Assembly (4" housing)SEB/FR-2-05-5.062-316L-FINISH05aEnd Cap Assembly (4" housing)SES/2-06A-S06Strainer ClampSES-2-06A-S10HandleSES-2-10A-31640Cover Gasket (Buna)40MVF-U-840Cover Gasket (SFY)40MVF-SFY-840Cover Gasket (EPDM)40MVF-E-8190O-Ring, Buna (O.D.)17-324-U	04	Relief Valve (Alum. Bronze handle)	660-10M-40BR-1/2x1/2-C-316L	02
04aRelief Valve Gasket (EPDM)42MP-E-½SEBSEBHVV04bRelief Valve Clamp13MHHS-¾-S19004cElbow FittingTL2CM-½-316L-PD19005End Cap Assembly (2" o 3" housing)SEB/FR-2-05-4.078-316L-FINISH0105aEnd Cap Assembly (4" housing)SEB/FR-2-05-5.062-316L-FINISH0105aStrainer ClampSES/2-06A-S0106Strainer ClampSES-2-10A-3160107HandleSES-2-10A-3160108Cover Gasket (Buna)40MVF-U-80109O-Ring, Buna (O.D.)17-324-USEB/SEBHVV	04a	Relief Valve Gasket (Buna)	42MP-U-1/2	
04aRelief Valve Gasket (EPDM)42MP-E-½04bRelief Valve Clamp13MHHS-¾-S04cElbow FittingTL2CM-½-316L-PD05End Cap Assembly (2" o 3" housing)SEB/FR-2-05-4.078-316L-FINISH05aEnd Cap Assembly (4" housing)SEB/FR-2-05-5.062-316L-FINISH06Strainer ClampSEB/FR-2-05-5.062-316L-FINISH06Strainer ClampSES-2-06A-S10HandleSES-2-10A-31640Cover Gasket (Buna)40MVF-U-840Cover Gasket (SFY)40MVF-SFY-840Cover Gasket (EPDM)40MVF-E-8190O-Ring, Buna (O.D.)17-324-USEB/SEBHVA	04a	Relief Valve Gasket (SFY)	42MP-SFY-1/2	
04cElbow FittingTL2CM-½-316L-PD05End Cap Assembly (2" o 3" housing)SEB/FR-2-05-4.078-316L-FINISH05aEnd Cap Assembly (4" housing)SEB/FR-2-05-5.062-316L-FINISH06Strainer ClampSES-2-06A-S10HandleSES-2-10A-31640Cover Gasket (Buna)40MVF-U-840Cover Gasket (SFY)40MVF-SFY-840Cover Gasket (EPDM)40MVF-E-8190O-Ring, Buna (O.D.)17-324-U	04a	Relief Valve Gasket (EPDM)	42MP-E-1/2	SEB SEBHVW
04cElbow FittingTL2CM-½-316L-PD05End Cap Assembly (2" o 3" housing)SEB/FR-2-05-4.078-316L-FINISH05aEnd Cap Assembly (4" housing)SEB/FR-2-05-5.062-316L-FINISH06Strainer ClampSES-2-06A-S10HandleSES-2-10A-31640Cover Gasket (Buna)40MVF-U-840Cover Gasket (SFY)40MVF-SFY-840Cover Gasket (EPDM)40MVF-E-8190O-Ring, Buna (O.D.)17-324-U	04b	Relief Valve Clamp	13MHHS-¾-S	190
05aEnd Cap Assembly (4" housing)SEB/FR-2-05-5.062-316L-FINISH06Strainer ClampSES-2-06A-S10HandleSES-2-10A-31640Cover Gasket (Buna)40MVF-U-840Cover Gasket (SFY)40MVF-SFY-840Cover Gasket (EPDM)40MVF-E-8190O-Ring, Buna (O.D.)17-324-U	04c	Elbow Fitting	TL2CM-1/2-316L-PD	
06Strainer ClampSES-2-06A-S10HandleSES-2-10A-31640Cover Gasket (Buna)40MVF-U-840Cover Gasket (SFY)40MVF-SFY-840Cover Gasket (EPDM)40MVF-E-8190O-Ring, Buna (O.D.)17-324-U	05	End Cap Assembly (2" o 3" housing)	SEB/FR-2-05-4.078-316L-FINISH	
10HandleSES-2-10A-3160140Cover Gasket (Buna)40MVF-U-80140Cover Gasket (SFY)40MVF-SFY-80140Cover Gasket (EPDM)40MVF-SFY-801190O-Ring, Buna (O.D.)17-324-USEB/SEBHVA	05a	End Cap Assembly (4" housing)	SEB/FR-2-05-5.062-316L-FINISH	
40Cover Gasket (Buna)40MVF-U-840Cover Gasket (SFY)40MVF-SFY-840Cover Gasket (EPDM)40MVF-E-8190O-Ring, Buna (O.D.)17-324-U	06	Strainer Clamp	SES-2-06A-S	
40Cover Gasket (SFY)40MVF-SFY-840Cover Gasket (EPDM)40MVF-E-8190O-Ring, Buna (O.D.)17-324-USEB/SEBH//X	10	Handle	SES-2-10A-316	01
40 Cover Gasket (EPDM) 40MVF-E-8 190 O-Ring, Buna (O.D.) 17-324-U	40	Cover Gasket (Buna)	40MVF-U-8	
190 O-Ring, Buna (O.D.) 17-324-U SEB/SEBH//	40	Cover Gasket (SFY)	40MVF-SFY-8	
	40	Cover Gasket (EPDM)	40MVF-E-8	
190 O-Ring, SFY (O.D.) 17-324-SFY 3LD/3LDITY	190	O-Ring, Buna (O.D.)	17-324-U	
o , ()	190	O-Ring, SFY (O.D.)	17-324-SFY	

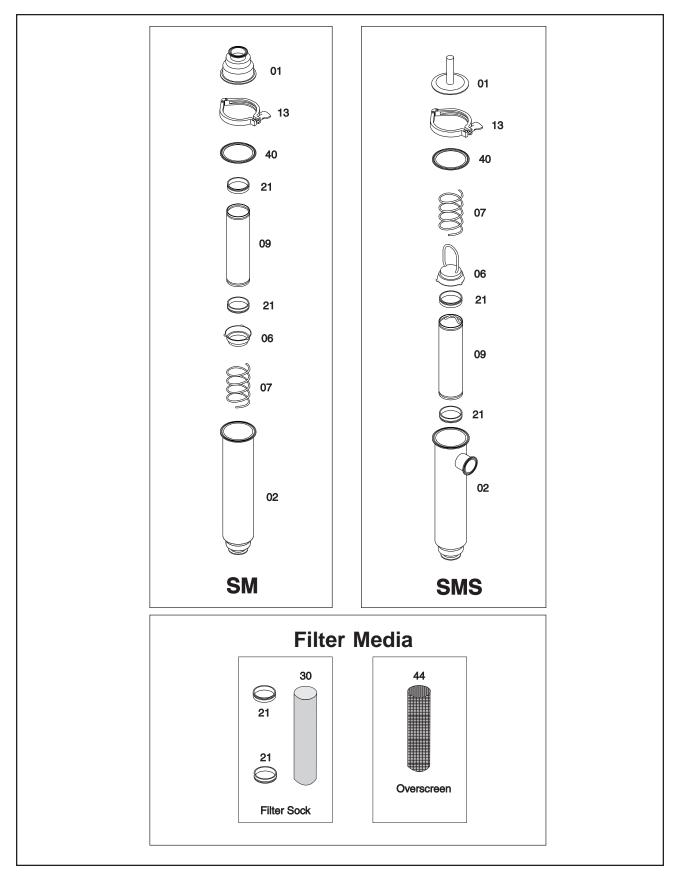
STREAMLINE - REPLACEMENT PARTS

ORDERING INFORMATION

The exploded view and parts key facilitate ordering repair parts from Tri-Clover. All parts for Mainstream Filter/Strainers are keyed to the parts list.

Streamline (FM or SM)		1" (25.4mm)	1½" (38.1mm)	2" (50.8mm)	21⁄2" (63.5mm)	3" (76.2mm)
Key						
No.	Description	Part Number	Part Number	Part Number	Part Number	Part Number
01	Outlet Assembly	FM1-1-01-316L	FM1-1½-01-316L	FM1-2-01B-316L	FM1-2½-01-316L	FM1-3-01-316L
02	Body (short body)	FM1-1-02A-316L	FM1-1½-02A-316L	FM1-2-02A-316L	FM1-2½-02A-316L	FM1-3-02A-316L
02	Body (long body)		FM2-1½-02A-316L	FM2-2-02A-316L	FM2-21/2-02A-316L	FM2-3-02A-316L
06	Distributor Cap	F1-1-06-316L	F1-1-06-316L	F1-1-06-316L	F1-2½-06-316L	F1-2½-06-316L
07	Spring	F1-1-07A-316L	F1-1-07A-316L	F1-1-07A-316L	F1-21/2-07A-316L	F1-2½-07A-316L
09	Back Up Tube (short body)	F1-1-09-X*	F1-1-09-X*	F1-1-09-X*	F1-2½-09-X*	F1-2½-09-X*
09	Back Up Tube (long body)		F2-1-09-X*	F2-1-09-X*	F2-21/2-09-X*	F2-2½-09-X*
13	Clamp	13MHHM-4-S	13MHHM-4-S	13MHHM-4-S	13MHHVM-4-S	13MHHVM-4-S
21	Retainer Ring (FM only)	F1-1-21-Mat'l	F1-1-21-Mat'l	F1-1-21-Mat'l	F1-2½-21-Mat'l	F1-2½-21-Mat'l
40	Gasket (Buna)	40MP-U-4	40MP-U-4	40MP-U-4	40MP-U-4	40MP-U-4
40	Gasket (SFY)	40MP-SFY-4	40MP-SFY-4	40MP-SFY-4	40MP-SFY-4	40MP-SFY-4
40	Gasket (EPDM)	40MP-E-4	40MP-E-4	40MP-E-4	40MP-E-4	40MP-E-4
Stre	amline (FMS or SMS)	1" (25.4mm)	1½" (38.1mm)	2" (50.8mm)	21⁄2" (63.5mm)	3" (76.2mm)
Key						
No.	Description	Part Number	Part Number	Part Number	Part Number	Part Number
01	Сар	FMS11/2-03-316L	FMS11/2-03-316L	FMS11/2-03-316L	FMS21/2-03-316L	FMS21/2-03-316L
02	Body (short body)	FMS1-1-02-316L	FMS1-1½-02-316L	FMS1-2-02-316L	FMS1-2½-02-316L	FM1-3-02-316L
02						
	Body (long body)		FMS2-1½-02-316L	FMS2-2-02-316L	FMS2-2½-02-316L	FMS2-3-02-316L
06	Body (long body) Distributor Cap	 FS-1½-06-316L	FMS2-1½-02-316L FS-1½-06-316L	FMS2-2-02-316L FS-1½-06-316L	FMS2-2½-02-316L FS1-2½-06-316L	FMS2-3-02-316L FS1-2½-06-316L
06 07		 FS-1½-06-316L FS-1½-07-316L				
	Distributor Cap		FS-1½-06-316L	FS-1½-06-316L	FS1-2½-06-316L	FS1-2½-06-316L
07	Distributor Cap Spring	FS-1½-07-316L	FS-1½-06-316L FS-1½-07-316L	FS-1½-06-316L FS-1½-07-316L	FS1-2½-06-316L FS1-2½-07-316L	FS1-2½-06-316L FS1-2½-07-316L
07 09	Distributor Cap Spring Back Up Tube (short body)	FS-1½-07-316L	FS-1½-06-316L FS-1½-07-316L FS1-1½-09-X*	FS-1½-06-316L FS-1½-07-316L FS1-1½-09-X*	FS1-2½-06-316L FS1-2½-07-316L FS1-2½-09-X*	FS1-2½-06-316L FS1-2½-07-316L FS1-2½-09-X*
07 09 09	Distributor Cap Spring Back Up Tube (short body) Back Up Tube (long body)	FS-1½-07-316L FS1-1½-09-X* 	FS-1½-06-316L FS-1½-07-316L FS1-1½-09-X* FS2-1½-09-X*	FS-1½-06-316L FS-1½-07-316L FS1-1½-09-X* FS2-1½-09-X*	FS1-2½-06-316L FS1-2½-07-316L FS1-2½-09-X* FS2-2½-09-X*	FS1-2½-06-316L FS1-2½-07-316L FS1-2½-09-X* FS2-2½-09-X*
07 09 09 13	Distributor Cap Spring Back Up Tube (short body) Back Up Tube (long body) Clamp	FS-1½-07-316L FS1-1½-09-X* 13MHHM-4-S	FS-1½-06-316L FS-1½-07-316L FS1-1½-09-X* FS2-1½-09-X* 13MHHM-4-S	FS-1½-06-316L FS-1½-07-316L FS1-1½-09-X* FS2-1½-09-X* 13MHHM-4-S	FS1-2½-06-316L FS1-2½-07-316L FS1-2½-09-X* FS2-2½-09-X* 13MHHVM-4-S	FS1-2½-06-316L FS1-2½-07-316L FS1-2½-09-X* FS2-2½-09-X* 13MHHVM-4-S
07 09 09 13 21	Distributor Cap Spring Back Up Tube (short body) Back Up Tube (long body) Clamp Retainer Ring (FMS only)	FS-1½-07-316L FS1-1½-09-X* 13MHHM-4-S F1-1-21-Mat'l	FS-1½-06-316L FS-1½-07-316L FS1-1½-09-X* FS2-1½-09-X* 13MHHM-4-S F1-1-21-Mat'l	FS-1½-06-316L FS-1½-07-316L FS1-1½-09-X* FS2-1½-09-X* 13MHHM-4-S F1-1-21-Mat'l	FS1-2½-06-316L FS1-2½-07-316L FS1-2½-09-X* FS2-2½-09-X* 13MHHVM-4-S F1-2½-21-Mat'l	FS1-2½-06-316L FS1-2½-07-316L FS1-2½-09-X* FS2-2½-09-X* 13MHHVM-4-S F1-2½-21-Mat'l
07 09 13 21 40	Distributor Cap Spring Back Up Tube (short body) Back Up Tube (long body) Clamp Retainer Ring (FMS only) Gasket (Buna)	FS-1½-07-316L FS1-1½-09-X* 13MHHM-4-S F1-1-21-Mat'l 40MP-U-4	FS-1½-06-316L FS-1½-07-316L FS1-1½-09-X* FS2-1½-09-X* 13MHHM-4-S F1-1-21-Mat'l 40MP-U-4	FS-1½-06-316L FS-1½-07-316L FS1-1½-09-X* FS2-1½-09-X* 13MHHM-4-S F1-1-21-Mat'I 40MP-U-4	FS1-2½-06-316L FS1-2½-07-316L FS1-2½-09-X* FS2-2½-09-X* 13MHHVM-4-S F1-2½-21-Mat'l 40MP-U-4	FS1-2½-06-310 FS1-2½-07-310 FS1-2½-09-X FS2-2½-09-X 13MHHVM-4- F1-2½-21-Mai 40MP-U-4

* Specify code G, D, E, or V. Note: All strainers using overscreens and filters utilize the type G Back Up tube. Not all codes are available for all sizes.



Part Number

MAINSTREAM MEDIA OPTIONS

Mainstream Strainer Media (SES)

Code Description	
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Α	Short Body, Perforateed Metal, 0.033 dia/24 ga., Micron Rating 838, Open Area 20.0 %	SES1-2-02A-A-316L
А	Long Body, Perforateed Metal, 0.033 dia/24 ga., Micron Rating 838, Open Area 20.0 %	SES2-2-02A-A-316L
С	Short Body, Perforateed Metal, 0.062 dia/22 ga., Micron Rating 1590, Open Area 30.0 %	SES1-2-02A-C-316L
С	Long Body, Perforateed Metal, 0.062 dia/22 ga., Micron Rating 1590, Open Area 30.0 %	SES2-2-02A-C-316L
В	Short Body, Perforateed Metal, 0.05 dia/22 ga., Micron Rating 1270, Open Area 22.5 %	SES1-2-02A-B-316L
В	Long Body, Perforateed Metal, 0.05 dia/22 ga., Micron Rating 1270, Open Area 22.5 %	SES2-2-02A-B-316L
U	Short Body, Perforateed Metal, 0.04 dia/22 ga., Micron Rating 1015, Open Area 22.0 %	SES1-2-02A-U-316L
U	Long Body, Perforateed Metal, 0.04 dia/22 ga., Micron Rating 1015, Open Area 22.0 %	SES2-2-02A-U-316L
Р	Short Body, Wire Mesh, Sq. Mesh Size 20, Space btw Wire 0.034", Micron Rating 864, Open Area 46.2	SES1-2-02-P-316L
Р	Long Body, Wire Mesh, Sq. Mesh Size 20, Space btw Wire 0.034", Micron Rating 864, Open Area 46.2	SES2-2-02-P-316L
J	Short Body, Wire Mesh, Sq. Mesh Size 40, Space btw Wire 0.015", Micron Rating 381, Open Area 36.0	SES1-2-02-J-316L
J	Long Body, Wire Mesh, Sq. Mesh Size 40, Space btw Wire 0.015", Micron Rating 381, Open Area 36.0	SES2-2-02-J-316L
F	Short Body, Wire Mesh, Sq. Mesh Size 60, Space btw Wire 0.009", Micron Rating 229, Open Area 30.3	SES1-2-02-F-316L
F	Long Body, Wire Mesh, Sq. Mesh Size 60, Space btw Wire 0.009", Micron Rating 229, Open Area 30.3	SES2-2-02-F-316L
L	Short Body, Wire Mesh, Sq. Mesh Size 80, Space btw Wire 0.007", Micron Rating 178, Open Area 31.4	SES1-2-02-L-316L
L	Long Body, Wire Mesh, Sq. Mesh Size 80, Space btw Wire 0.007", Micron Rating 178, Open Area 31.4	SES2-2-02-L-316L
Κ	Short Body, Wire Mesh, Sq. Mesh Size 100, Space btw Wire 0.006", Micron Rating 140, Open Area 30.3	SES1-2-02-K-316L
K	Long Body, Wire Mesh, Sq. Mesh Size 100, Space btw Wire 0.006", Micron Rating 140, Open Area 30.3	SES2-2-02-K-316L
М	Short Body, Wire Mesh, Sq. Mesh Size 150, Space btw Wire 0.034", Micron Rating 104, Open Area 37.4	SES1-2-02-M-316L
М	Long Body, Wire Mesh, Sq. Mesh Size 150, Space btw Wire 0.004", Micron Rating 104, Open Area 37.4	SES2-2-02-M-316L
S	Short Body, Wire Mesh, Sq. Mesh Size 200, Space btw Wire 0.004", Micron Rating 73, Open Area 33.6	SES1-2-02-S-316L
S	Long Body, Wire Mesh, Sq. Mesh Size 200, Space btw Wire 0.003", Micron Rating 73, Open Area 33.6	SES2-2-02-S-316L
Other s	sizes available upon request.	

Mainstream (SEF) Filter - Code A

Description	Short Body Part Number	Long Body Part Number
Polypropylene, Micron Size 1.0	SEF-03-1.0-PPR-01-A	SEF-03-1.0-PPR-02-A
Polypropylene, Micron Size 2.5	SEF-03-2.5-PPR-01-A	SEF-03-2.5-PPR-02-A
Polypropylene, Micron Size 5.0	SEF-03-5.0-PPR-01-A	SEF-03-5.0-PPR-02-A
Polypropylene, Micron Size 10.0	SEF-03-10.0-PPR-01-A	SEF-03-10.0-PPR-02-A
Polypropylene, Micron Size 25.0	SEF-03-25.0-PPR-01-A	SEF-03-25.0-PPR-02-A

MAINSTREAM MEDIA OPTIONS

Mainstream (SEF) Filter - Code B

Description	Short Body Part Number	Long Body Part Number
Polypropylene, Micron Size 177.0	SEF-03-177.0-PPR-01-B	SEF-03-177.0-PPR-02-B
Polyester, Micron Size 180.0	SEF-03-180.0-PES-01-B	SEF-03-180.0-PES-02-B
Polyester, Micron Size 200.0	SEF-03-200.0-PES-01-B	SEF-03-200.0-PES-02-B
Nylon, Micron Size 210.0	SEF-03-210.0-NYL-01-B	SEF-03-210.0-NYL-02-B
Polypropylene, Micron Size 210.0	SEF-03-210.0-PPR-01-B	SEF-03-210.0-PPR-02-B
Nylon, Micron Size 250.0	SEF-03-250.0-NYL-01-B	SEF-03-250.0-NYL-02-B
Polyester, Micron Size 250.0	SEF-03-250.0-PES-01-B	SEF-03-250.0-PES-02-B
Polypropylene, Micron Size 250.0	SEF-03-250.0-PPR-01-B	SEF-03-250.0-PPR-02-B
Polypropylene, Micron Size 297.0	SEF-03-297.0-PPR-01-B	SEF-03-297.0-PPR-02-B
Nylon, Micron Size 300.0	SEF-03-300.0-NYL-01-B	SEF-03-300.0-NYL-02-B
Polyester, Micron Size 300.0	SEF-03-300.0-PES-01-B	SEF-03-300.0-PES-02-B
Nylon, Micron Size 420.0	SEF-03-420.0-NYL-01-B	SEF-03-420.0-NYL-02-B
Polyester, Micron Size 420.0	SEF-03-420.0-PES-01-B	SEF-03-420.0-PES-02-B
Polypropylene, Micron Size 420.0	SEF-03-420.0-PPR-01-B	SEF-03-420.0-PPR-02-B
Nylon, Micron Size 500.0	SEF-03-500.0-NYL-01-B	SEF-03-500.0-NYL-02-B
Polyester, Micron Size 500.0	SEF-03-500.0-PES-01-B	SEF-03-500.0-PES-02-B
Polypropylene, Micron Size 500.0	SEF-03-500.0-PPR-01-B	SEF-03-500.0-PPR-02-B
Nylon, Micron Size 590.0	SEF-03-590.0-NYL-01-B	SEF-03-590.0-NYL-02-B
Polyester, Micron Size 590.0	SEF-03-590.0-PES-01-B	SEF-03-590.0-PES-02-B
Polypropylene, Micron Size 590.0	SEF-03-590.0-PPR-01-B	SEF-03-590.0-PPR-02-B
Nylon, Micron Size 840.0	SEF-03-840.0-NYL-01-B	SEF-03-840.0-NYL-02-B
Polyester, Micron Size 840.0	SEF-03-840.0-PES-01-B	SEF-03-840.0-PES-02-B
Polypropylene, Micron Size 840.0	SEF-03-840.0-PPR-01-B	SEF-03-840.0-PPR-02-B

MAINSTREAM MEDIA OPTIONS

Mainstream (SEF) Filter - Code C

Description	Short Body Part Number	Long Body Part Number
Polypropylene, Micron Size 1.0	SEF-03-1.0-PPR-01-C	SEF-03-1.0-PPR-02-C
Polypropylene, Micron Size 3.0	SEF-03-3.0-PPR-01-C	SEF-03-3.0-PPR-02-C
Nylon-Nomex*, Micron Size 5.0	SEF-03-5.0-NOM-01-C	SEF-03-5.0-NOM-02-C
Nylon Monofillement, Micron Size 5.0	SEF-03-5.0-NMO-01-C	SEF-03-5.0-NMO-02-C
Polypropylene, Micron Size 5.0	SEF-03-5.0-PPR-01-C	SEF-03-5.0-PPR-02-C
Nylon-Nomex*, Micron Size 10.0	SEF-03-10.0-NOM-01-C	SEF-03-10.0-NOM-02-C
Nylon Monofillement, Micron Size 10.0	SEF-03-10.0-NMO-01-C	SEF-03-10.0-NMO-02-C
Polypropylene, Micron Size 10.0	SEF-03-10.0-PPR-01-C	SEF-03-10.0-PPR-02-C
Nylon-Nomex*, Micron Size 25.0	SEF-03-25.0-NOM-01-C	SEF-03-25.0-NOM-02-C
Nylon Monofillement, Micron Size 25.0	SEF-03-25.0-NMO-01-C	SEF-03-25.0-NMO-02-C
Polypropylene, Micron Size 25.0	SEF-03-25.0-PPR-01-C	SEF-03-25.0-PPR-02-C
Nylon-Nomex*, Micron Size 50.0	SEF-03-50.0-NOM-01-C	SEF-03-50.0-NOM-02-C
Polypropylene, Micron Size 50.0	SEF-03-50.0-PPR-01-C	SEF-03-50.0-PPR-02-C
Nylon Monofillement, Micron Size 55.0	SEF-03-55.0-NMO-01-C	SEF-03-55.0-NMO-02-C
Polyester, Micron Size 75.0	SEF-03-75.0-PES-01-C	SEF-03-75.0-PES-02-C
Polyester, Micron Size 100.0	SEF-03-100.0-PES-01-C	SEF-03-100.0-PES-02-C
Nylon-Nomex*, Micron Size 100.0	SEF-03-100.0-NOM-01-C	SEF-03-100.0-NOM-02-C
Polypropylene, Micron Size 100.0	SEF-03-100.0-PPR-01-C	SEF-03-100.0-PPR-02-C
Polyester, Micron Size 125.0	SEF-03-125.0-PES-01-C	SEF-03-125.0-PES-02-C
Polyester, Micron Size 150.0	SEF-03-150.0-PES-01-C	SEF-03-150.0-PES-02-C
Polyester, Micron Size 175.0	SEF-03-175.0-PES-01-C	SEF-03-175.0-PES-02-C
Polyester, Micron Size 200.0	SEF-03-200.0-PES-01-C	SEF-03-200.0-PES-02-C
Polypropylene, Micron Size 200.0	SEF-03-200.0-PPR-01-C	SEF-03-200.0-PPR-02-C
Polypropylene, Micron Size 300.0	SEF-03-300.0-PPR-01-C	SEF-03-300.0-PPR-02-C
Polyester, Micron Size 400.0	SEF-03-400.0-PES-01-C	SEF-03-400.0-PES-02-C
Polypropylene, Micron Size 600.0	SEF-03-600.0-PPR-01-C	SEF-03-600.0-PPR-02-C
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Mainstream (SEF) Filter - Code D

Description	Short Body Part Number	Long Body Part Number
Polypropylene, Micron Size 50.0	SEF-03-50.0-PPR-01-D	SEF-03-50.0-PPR-02-D
Cotton, Micron Size 300.0	SEF-03-300.0-COT-01-D	SEF-03-300.0-COT-02-D

Mainstream (SEF) Filter - Code E

Description	Short Body Part Number	Long Body Part Number
Polypropylene, Micron Size 10.0	SEF-03-10.0-PPR-01-B	SEF-03-10.0-PPR-02-E
Polypropylene, Micron Size 25.0	SEF-03-25.0-PPR-01-B	SEF-03-25.0-PPR-02-E
* Nomex is a registered trademark of Dup	ont.	

MAINSTREAM MEDIA OPTIONS

Mainstream (SEF) Filter - Code F

Description	Short Body Part Number	Long Body Part Number
Polyester, Micron Size 0.5	SEF-03-0.5-PES-01-C	SEF-03-0.5-PES-02-C
Polyester, Micron Size 1.0	SEF-03-1.0-PES-01-C	SEF-03-1.0-PES-02-C
Rayon, Micron Size 1.0	SEF-03-1.0-RAY-01-C	SEF-03-1.0-RAY-02-C
Polyester, Micron Size 3.0	SEF-03-3.0-PES-01-C	SEF-03-3.0-PES-02-C
Polypropylene, Micron Size 3.0	SEF-03-3.0-PPR-01-C	SEF-03-3.0-PPR-02-C
Polyester, Micron Size 5.0	SEF-03-5.0-PES-01-C	SEF-03-5.0-PES-02-C
Rayon, Micron Size 5.0	SEF-03-5.0-RAY-01-C	SEF-03-5.0-RAY-02-C
Rayon, Micron Size 10.0	SEF-03-10.0-RAY-01-C	SEF-03-10.0-RAY-02-C
Polyester, Micron Size 15.0	SEF-03-15.0-PES-01-C	SEF-03-15.0-PES-02-C
Rayon, Micron Size 15.0	SEF-03-15.0-RAY-01-C	SEF-03-15.0-RAY-02-C
Polyester, Micron Size 25.0	SEF-03-25.0-PES-01-C	SEF-03-25.0-PES-02-C
Rayon, Micron Size 25.0	SEF-03-25.0-RAY-01-C	SEF-03-25.0-RAY-02-C
Nylon Monofillement, Micron Size 45.0	SEF-03-45.0-NMO-01-C	SEF-03-45.0-NMO-02-C
Polyester, Micron Size 50.0	SEF-03-50.0-PES-01-C	SEF-03-50.0-PES-02-C
Polypropylene, Micron Size 50.0	SEF-03-50.0-PPR-01-C	SEF-03-50.0-PPR-02-C
Rayon, Micron Size 50.0	SEF-03-50.0-R-01-C	SEF-03-50.0-RAY-02-C
Nylon Monofillement, Micron Size 55.0	SEF-03-55.0-NMO-01-C	SEF-03-55.0-NMO-02-C
Nylon Monofillement, Micron Size 65.0	SEF-03-65.0-NMO-01-C	SEF-03-65.0-NMO-02-C
Nylon Monofillement, Micron Size 75.0	SEF-03-75.0-NMO-01-C	SEF-03-75.0-NMO-02-C
Polyester, Micron Size 75.0	SEF-03-75.0-PES-01-C	SEF-03-75.0-PES-02-C
Nylon Monofillement, Micron Size 800.0	SEF-03-80.0-NMO-01-C	SEF-03-80.0-NMO-02-C
Nylon Monofillement, Micron Size 100.0	SEF-03-100.0-NMO-01-C	SEF-03-100.0-NMO-02-C
Polyester, Micron Size 100.0	SEF-03-100.0-PES-01-C	SEF-03-100.0-PES-02-C
Polypropylene, Micron Size 100.0	SEF-03-100.0-PPR-01-C	SEF-03-100.0-PPR-02-C
Rayon, Micron Size 100.0	SEF-03-100.0-RAY-01-C	SEF-03-100.0-RAY-02-C
Nylon Monofillement, Micron Size 125.0	SEF-03-125.0-NMO-01-C	SEF-03-125.0-NMO-02-C
Nylon Monofillement, Micron Size 150.0	SEF-03-150.0-NMO-01-C	SEF-03-150.0-NMO-02-C
Nylon Monofillement, Micron Size 175.0	SEF-03-175.0-NMO-01-C	SEF-03-175.0-NMO-02-C
Nylon Monofillement, Micron Size 200.0	SEF-03-200.0-NMO-01-C	SEF-03-200.0-NMO-02-C
Polyester, Micron Size 200.0	SEF-03-200.0-PES-01-C	SEF-03-200.0-PES-02-C
Nylon Monofillement, Micron Size 250.0	SEF-03-250.0-NMO-01-C	SEF-03-250.0-NMO-02-C
Nylon Monofillement, Micron Size 300.0	SEF-03-300.0-NMO-01-C	SEF-03-300.0-NMO-02-C
Nylon Monofillement, Micron Size 400.0	SEF-03-400.0-NMO-01-C	SEF-03-400.0-NMO-02-C
Nylon Monofillement, Micron Size 600.0	SEF-03-600.0-NMO-01-C	SEF-03-600.0-NMO-02-C
Nylon Monofillement, Micron Size 800.0	SEF-03-800.0-NMO-01-C	SEF-03-800.0-NMO-02-C

MAINSTREAM MEDIA OPTIONS

Mainstream Filter Media (SEB)

Code	Description	Part Number Short Body	Part Number Long Body
G	0.250 dia./18 ga., % of open area 58.0	SEB1-2-02A-G-316L	SEB2-2-02A-G-316L
Е	0.125 dia./18 ga., % of open area 58.0	SEB1-2-02A-E-316L	SEB2-2-02A-E-316L
W	0.500 dia./18 ga., % of open area 58.0	SEB1-2-02A-W-316L	SEB2-2-02A-W-316L
D	0.09375 dia./18 ga., % of open area 58.0	SEB1-2-02A-D-316L	SEB2-2-02A-D-316L

Mainstream Filter Media (SEBHVW)

Code	Description	Part Number Short Body	Part Number Long Body
А	Space btw 0.005, Pressure Differential, 100, Micron Equivelent 127	SEBHVW1-02-A-316L	SEBHVW2-02-A-316L
В	Space btw 0.0075, Pressure Differential, 100, Micron Equivelent 190	SEBHVW1-02-B-316L	SEBHVW2-02-B-316L
С	Space btw 0.010, Pressure Differential, 85, Micron Equivelent 254	SEBHVW1-02-C-316L	SEBHVW2-02-C-316L
D	Space btw 0.015, Pressure Differential, 85, Micron Equivelent 381	SEBHVW1-02-D-316L	SEBHVW2-02-D-316L
Е	Space btw 0.020, Pressure Differential, 70, Micron Equivelent 508	SEBHVW1-02-E-316L	SEBHVW2-02-E-316L
F	Space btw 0.025, Pressure Differential, 70, Micron Equivelent 635	SEBHVW1-02-F-316L	SEBHVW2-02-F-316L
G	Space btw 0.030, Pressure Differential, 55, Micron Equivelent 762	SEBHVW1-02-G-316L	SEBHVW2-02-G-316L
Н	Space btw 0.035, Pressure Differential, 55, Micron Equivelent 889	SEBHVW1-02-H-316L	SEBHVW2-02-H-316L

STREAMLINE MEDIA OPTIONS

Streamline Filter Media

Code	Description	Part Number
А	Short Body (1", 11/2", 2") Filter, non-woven rayon, Micron Rating 38*	F1-1-30-A
А	Short Body (2½", 3") Filter, non-woven rayon, Micron Rating 38*	F1-2½-30-A
А	Long Body (11/2", 2") Filter, non-woven rayon, Micron Rating 38*	F2-1½-30-A
А	Long Body (2½", 3") Filter, non-woven rayon, Micron Rating 38*	F2-2½-30-A
В	Short Body (1", 1½", 2") Filter, woven knapped cotton flannel, Micron Rating 513*	F1-1-30-B
В	Short Body (2½", 3") Filter, woven knapped cotton flannel, Micron Rating 513*	F1-2½-30-B
В	Long Body (11/2", 2") Filter, woven knapped cotton flannel, Micron Rating 513*	F2-1½-30-B
В	Long Body (21/2", 3") Filter, woven knapped cotton flannel, Micron Rating 513*	F2-2½-30-B
С	Short Body (1", 11/2", 2") Filter, cheese cloth single thickness cotton, Micron Rating 300*	F1-1-30-C
С	Short Body (2½", 3") Filter, cheese cloth single thickness cotton, Micron Rating 300*	F1-2½-30-C
С	Long Body (11/2", 2") Filter, cheese cloth single thickness cotton, Micron Rating 300*	F2-1½-30-C
С	Long Body (21/2", 3") Filter, cheese cloth single thickness cotton, Micron Rating 300*	F2-2½-30-C
D	Short Body (1", 11/2", 2") Filter, nylon 26/29 mesh, rectangular opening, Micron Rating 765*	F1-1-30-D
D	Short Body (2½", 3") Filter, nylon 26/29 mesh, rectangular opening, Micron Rating 765*	F1-2½-30-D
D	Long Body (11/2", 2") Filter, nylon 26/29 mesh, rectangular opening, Micron Rating 765*	F2-1½-30-D
D	Long Body (21/2", 3") Filter, nylon 26/29 mesh, rectangular opening, Micron Rating 765*	F2-2½-30-D
Е	Short Body (1", 11/2", 2") Filter, non-woven rayon, Micron Rating 40-42*	F1-1-30-E
Е	Short Body (21/2", 3") Filter, non-woven rayon, Micron Rating 40-42*	F1-2½-30-E
Е	Long Body (11/2", 2") Filter, non-woven rayon, Micron Rating 40-42*	F2-1½-30-E
Е	Long Body (21/2", 3") Filter, non-woven rayon, Micron Rating 40-42*	F2-2½-30-E
F	Short Body (1", 11/2", 2") Filter, non-woven rayon, Micron Rating <40*	F1-1-30-F
F	Short Body (2½", 3") Filter, non-woven rayon, Micron Rating <40*	F1-2½-30-F
F	Long Body (1½", 2") Filter, non-woven rayon, Micron Rating <40*	F2-1½-30-F
F	Long Body (21/2", 3") Filter, non-woven rayon, Micron Rating <40*	F2-2½-30-F
G	Short Body (1", 11/2", 2") Filter, woven rayon, 40 mesh, Micron Rating 420*	F1-1-30-G
G	Short Body (2½", 3") Filter, woven rayon, 40 mesh, Micron Rating 420*	F1-2½-30-G
G	Long Body (11/2", 2") Filter, woven rayon, 40 mesh, Micron Rating 420*	F2-1½-30-G
G	Long Body (21/2", 3") Filter, woven rayon, 40 mesh, Micron Rating 420*	F2-2½-30-G
Micror	Ratings are estimated.	

STREAMLINE MEDIA OPTIONS

Streamline Overscreens

ode	Description	Part Number
R	(1",11/2", 2") Short Body, Square Mesh size 16, Space Btw Wire 0.045", Micron Rating 1130, Open Area 50.7%	F1-1-44-R
R	(21/2",3") Short Body, Square Mesh size 16, Space Btw Wire 0.045", Micron Rating 1130, Open Area 50.7%	F1-2½-44-R
R	(11/2", 2") Long Body, Square Mesh size 16, Space Btw Wire 0.045", Micron Rating 1130, Open Area 50.7%	F2-1½-44-R
R	(2½",3") Long, Body, Square Mesh size 16, Space Btw Wire 0.045", Micron Rating 1130, Open Area 50.7%	F2-2½-44-R
Р	(1",1½", 2") Short Body, Square Mesh size 20, Space Btw Wire 0.034", Micron Rating 864, Open Area 46.2%	F1-1-44-P
Р	(2½",3") Short Body, Square Mesh size 20, Space Btw Wire 0.034", Micron Rating 864, Open Area 46.2%	F1-2½-44-P
Ρ	(11/2", 2") Long Body, Square Mesh size 20, Space Btw Wire 0.034", Micron Rating 864, Open Area 46.2%	F2-1½-44-P
Ρ	(21/2",3") Long Body, Square Mesh size 20, Space Btw Wire 0.034", Micron Rating 864, Open Area 46.2%	F2-2½-44-P
Т	(1",1½", 2") Short Body, Square Mesh size 30, Space Btw Wire 0.021", Micron Rating 533, Open Area 40.8%	F1-1-44-T
Т	(2½",3") Short Body, Square Mesh size 30, Space Btw Wire 0.021", Micron Rating 533, Open Area 40.8%	F1-2½-44-T
Т	(1½", 2") Long Body, Square Mesh size 30, Space Btw Wire 0.021", Micron Rating 533, Open Area 40.8%	F2-1½-44-T
Т	(2½",3") Long Body, Square Mesh size 30, Space Btw Wire 0.021", Micron Rating 533, Open Area 40.8%	F2-2½-44-T
J	(1",1½", 2") Short Body, Square Mesh size 40, Space Btw Wire 0.015", Micron Rating 381, Open Area 36.0%	F1-1-44-J
J	(2½",3") Short Body, Square Mesh size 40, Space Btw Wire 0.015", Micron Rating 381, Open Area 36.0%	F1-2½-44-J
J	(11/2", 2") Long Body, Square Mesh size 40, Space Btw Wire 0.015", Micron Rating 381, Open Area 36.0%	F2-1½-44-J
J	(2½",3") Long Body, Square Mesh size 40, Space Btw Wire 0.015", Micron Rating 381, Open Area 36.0%	F2-2½-44-J
Ν	(1",1½", 2") Short Body, Square Mesh size 50, Space Btw Wire 0.011", Micron Rating 279, Open Area 30.3%	F1-1-44-N
Ν	(21/2",3") Short Body, Square Mesh size 50, Space Btw Wire 0.011", Micron Rating 279, Open Area 30.3%	F1-2½-44-N
Ν	(11/2", 2") Long Body, Square Mesh size 50, Space Btw Wire 0.011", Micron Rating 279, Open Area 30.3%	F2-1½-44-N
N	(2½",3") Long Body, Square Mesh size 50, Space Btw Wire 0.011", Micron Rating 279, Open Area 30.3%	F2-2½-44-N
F	(1",1½", 2") Short Body, Square Mesh size 60, Space Btw Wire 0.009", Micron Rating 229, Open Area 30.3%	F1-1-44-F
F	(21/2",3") Short Body, Square Mesh size 60, Space Btw Wire 0.009", Micron Rating 229, Open Area 30.3%	F1-2½-44-F
F	(11/2", 2") Long Body, Square Mesh size 60, Space Btw Wire 0.009", Micron Rating 229, Open Area 30.3%	F2-1½-44-F
F	(21/2",3") Long Body, Square Mesh size 60, Space Btw Wire 0.009", Micron Rating 229, Open Area 30.3%	F2-2½-44-F
L	(1",1½", 2") Short Body, Square Mesh size 80, Space Btw Wire 0.007", Micron Rating 178, Open Area 31.4%	F1-1-44-L
L	(21/2",3") Short Body, Square Mesh size 80, Space Btw Wire 0.007", Micron Rating 178, Open Area 31.4%	F1-2½-44-L
L	(11/2", 2") Long Body, Square Mesh size 80, Space Btw Wire 0.007", Micron Rating 178, Open Area 31.4%	F2-1½-44-L
L	(21/2",3") Long Body, Square Mesh size 80, Space Btw Wire 0.007", Micron Rating 178, Open Area 31.4%	F2-2½-44-L
K	(1",1½", 2") Short Body, Square Mesh size 100, Space Btw Wire 0.006", Micron Rating 140, Open Area 30.3%	F1-1-44-K
Κ	(21/2",3") Short Body, Square Mesh size 100, Space Btw Wire 0.006", Micron Rating 140, Open Area 30.3%	F1-2½-44-K
K	(11/2", 2") Long Body, Square Mesh size 100, Space Btw Wire 0.006", Micron Rating 140, Open Area 30.3%	F2-1½-44-K
Κ	(21/2",3") Long Body, Square Mesh size 100, Space Btw Wire 0.006", Micron Rating 140, Open Area 30.3%	F2-2½-44-K
Н	(1",11/2", 2") Short Body, Square Mesh size 120, Space Btw Wire 0.005", Micron Rating 117, Open Area 30.7%	F1-1-44-H
Н	(21/2",3") Short Body, Square Mesh size 120, Space Btw Wire 0.005", Micron Rating 117, Open Area 30.7%	F1-2½-44-H
Н	(11/2", 2") Long Body, Square Mesh size 120, Space Btw Wire 0.005", Micron Rating 117, Open Area 30.7%	F2-1½-44-H
Н	(21/2",3") Long Body, Square Mesh size 120, Space Btw Wire 0.005", Micron Rating 117, Open Area 30.7%	F2-2½-44-H
М	(1",11/2", 2") Short Body, Square Mesh size 150, Space Btw Wire 0.004", Micron Rating 104, Open Area 37.4%	F1-1-44-M
М	(21/2",3") Short Body, Square Mesh size 150, Space Btw Wire 0.004", Micron Rating 104, Open Area 37.4%	F1-2½-44-M
М	(11/2", 2") Long Body, Square Mesh size 150, Space Btw Wire 0.004", Micron Rating 104, Open Area 37.4%	F2-1½-44-M
М	(21/2",3") Long Body, Square Mesh size 150, Space Btw Wire 0.004", Micron Rating 104, Open Area 37.4%	F2-2½-44-M

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This warranty is expressly in lieu of any other warranties, express or implied, including but not limited to, any implied warranty of merchantability or fitness for a particular purpose. All claims must be in writing and must be mailed or delivered by purchaser within thirty (30) days after purchaser learns of the facts upon which such claim is based. Any claim not made in writing and within the time period specified above shall be deemed waived.

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Alfa Laval Inc. 9560 58th Place, Suite 300 Kenosha, WI 53144 Phone: +1 800 558 4060 Fax: +1 800 781 2777

E-mail: usa-ese.techsupport@alfalaval.com Visit our web site at www.alfalaval.us