



Alfa Laval Streamline™ In-Line Filter/Strainer

Protect Your Process

Concept

Available in long and short models, Streamline™ filters and strainers provide versatile, cost-effective filtration. Designed for maximum application flexibility, the Streamline housing accepts a wide range of disposable filter and reusable strainer media. They are ideal for use in the dairy, food, beverage, meat and poultry, cosmetics, and pharmaceutical industries.

Standard Design

One of the industry's most enduring product designs, the Streamline™ offers an efficient free-flow design, corrosion resistant 316L stainless steel, hygienic design, and lightweight construction. The Streamline is available in two lengths to provide optimum filtration area for the application. Approved for use in USDA meat and poultry inspected plants, the Streamline™ is furnished with a single screen for straining large particles or with a backup tube and over screen with small perforations for removing finer particles.

Model SMS Strainers or FMS filters feature convenient side entry and a pullout top (similar to Mainstream® design) for easy servicing without removal from the process line.

Cleaning

The Streamline housing is approved for CIP (cleaned in place). All internal components must be removed for COP (Cleansed out of place).

Refer to Filter/Strainer instruction manual for complete cleaning instructions.

Warning: Reverse flow or back flushing can result in damage to the internal components.

TECHNICAL DATA

Temperature

Temperature range250°F max
(with fluorelastomer gaskets)

Pressure

Pressure range at 70°F300 PSI
Pressure range at 210°F180 PSI

Maximum Differential Pressure

Single strainer:- 50 PSI
Overscreen:- 25 PSI
Filter:- 15 PSI



PHYSICAL DATA

Materials

Product wetted steel parts: AISI 316/316L Stainless Steel
Other steel parts AISI 304 Stainless Steel
Finish on product contact surfaces . . . Ra 32 μ-inch (0.8mm)
Product wetted seals Buna, SFY (fluorelastomer)

Working principle

The Streamline™ filters and strainers are designed to promote product quality and sanitation, while protecting processing equipment such as homogenizers, meters, spray nozzles, needle valves, and pumps.



Filtration

Streamline filters can be furnished with any one of five filtering media, down to 40 microns, including woven and non-woven polypropylene and polyester materials and nylon mesh.



Fine or Medium Strainer

Complete with a backup tube and overscreen with small perforations for removing finer particles (838 to 1590 microns).

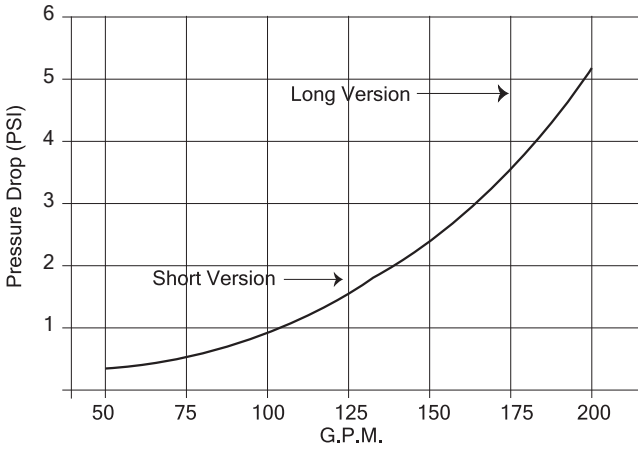


Coarse Strainer

Furnished with a single perforated screen for straining large particles.

Filter Pressure Drop Curves.

Streamline Filters Model 1 and 2



Curve is based on water.*.

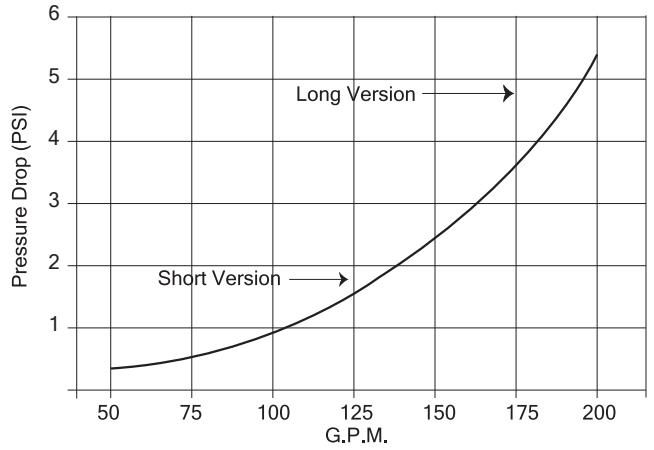
Max. flows for LONG and SHORT units shown.

Curve is typical for all filter socks.

* Contact AL for sizing of non-water applications.

Strainer Pressure Drop Curves.

Streamline Strainers Model 1 and 2

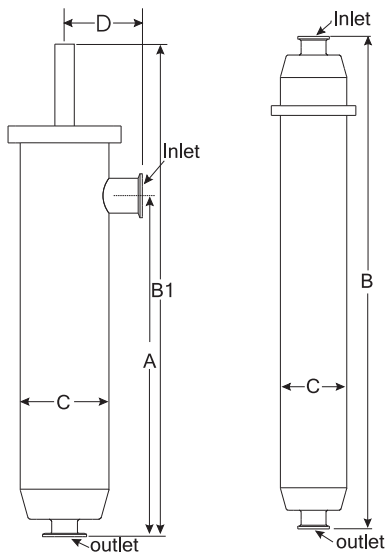


Curve is based on water.*.

Max. flows for LONG and SHORT units shown.

Curve is typical for all perforations.

Streamline Dimensions (inches)



Side-Entry Streamline Standard Streamline

Connection Size	Tri-Clamp® Connections				Outer Assembly Diameter (in.)	Effective Filter Area (ft. ²)	
	Length (in.)	Length (in.)	Length (in.)	Length (in.)			
	A	B	B1	D			
Short	1	15 ^{3/8}	15 ^{3/4}	22 ^{1/4}	3 ^{1/2}	4	0.65
	1½	15 ^{3/8}	15 ^{3/4}	22 ^{1/4}	3 ^{1/2}	4	0.65
	2	15 ^{3/8}	15 ^{3/4}	22 ^{1/4}	3 ^{1/2}	4	0.65
	2½	15 ^{3/8}	15 ^{3/4}	22 ^{1/4}	5	4½	0.75
	3	15 ^{3/8}	15 ^{3/4}	22 ^{1/4}	5	4½	0.75
Long	1½	35	35 ^{3/8}	41 ^{7/8}	3 ^{1/2}	4	1.95
	2	35	35 ^{3/8}	41 ^{7/8}	3 ^{1/2}	4	1.95
	2½	35	35 ^{3/8}	41 ^{7/8}	5	4½	2.25
	3	35	35 ^{3/8}	41 ^{7/8}	5	4½	2.25

Replacement Strainer Selection

Perforated Metal Strainer Single Screens						Perforated Metal Over Screens					
Screen Part No.	Port Connections	Gauge	Hole Diameter (in.)	Holes Per Square Inch	Percent of Open Area	Screen Part No.	Gauge	Hole Diameter (in.)	Micron Rating	Holes Per Square Inch	Percent of Open Area
09G*	1, 1½, 2 2½, 3	14 12	1/4 / .250 1/4 / .250	9 9	58 58	44A	26	.033	838	236	20
09D	1, 1½, 2	16	3/32 / .093	47	33	44B	26	.050	1270	132	26
09E	1, 1½, 2	14	1/8 / .125	33	40	44C	26	.062	1590	97	30
	2½, 3	12	1/8 / .125	33	40	44U**	26	.040	1015	179	23
09V	2½, 3	12	3/16 / .187	18	51						

* Note: All strainers using over screens require a backup tube — the recommended type G screen will be furnished as standard backup tube in all Alfa Laval filters and strainers.

** Available only in long units.

Replacement Filter Media Schedule

Media	Micron Rating*	Description
30B	513	100% polyester multifilament
30C	300	Polypropylene and polyester
30D	765	Nylon, 26/29 mesh, rectangular opening, (.025" x .030")
30E	40 - 42	Polypropylene
30G	420	Woven nylon, 40 mesh

* Estimated

Ordering

Please state the following when ordering:

- Filter or strainer
- In-line or side-inlet
- Long or short unit
- Connection size
- Filter or strainer choice



Streamline units with filters or perforated metal strainers are authorized to carry the 3A symbol.

Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit www.alfalaval.us to access the information direct.