



## Steam Filter Station FS Series

### Description

- Line size separator & associated trap kit (Mod S1, S2 or S3)
- 3A certified steam filter (Mod CSF16 w/ 5 micron element)
- Pressure gauge assemblies up & downstream of the filter to provide visual indication of when elements need to be cleaned & replaced
- Sample cooler for sampling steam downstream of the filter
- Stainless steel pipe downstream of the filter
- Sanitary check valve and sanitary components downstream
- Isolation valves at key points to enable ease of maintenance of the separator, trap, and steam filter

### Sizes and pipe connections

NPT: ½", ¾", 1", 1½", and 2"

Note: Other sizes and connections available on request. Filter Station Compliant to 3A Accepted Practice 609-03.

### Standards

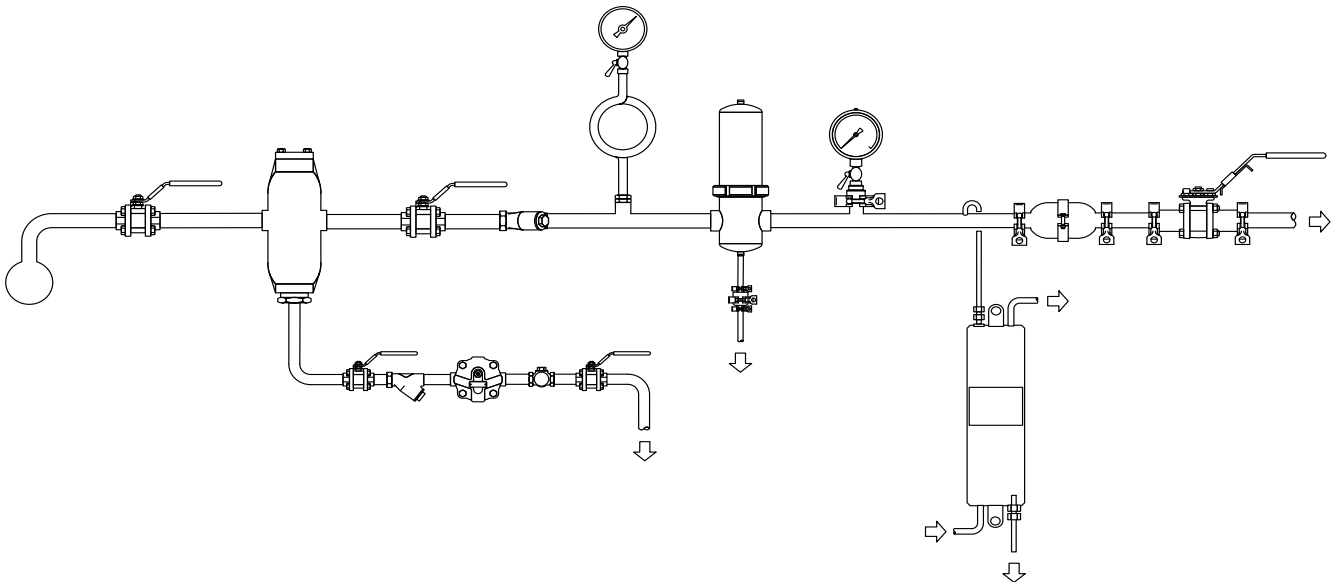
The CSF16, when fitted with a 5 micron element are capable of removing 95% of particles 2 microns and larger in size, in accordance with the requirements for the production of culinary steam to 3A accepted practice number 609-03. Accepted in the U.S. Department of Agriculture for use in federally inspected meat and poultry plants.

All materials meet the requirements as stipulated by the US FDA Regulations.

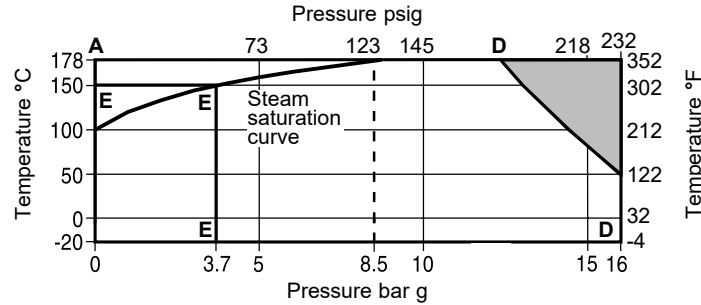
### Certification

These products can be supplied with a modified housing in order to provide certification to EN 10204 3.1.

**Note:** All certification/inspection requirements must be stated at the time of order placement.



## Pressure/temperature limits



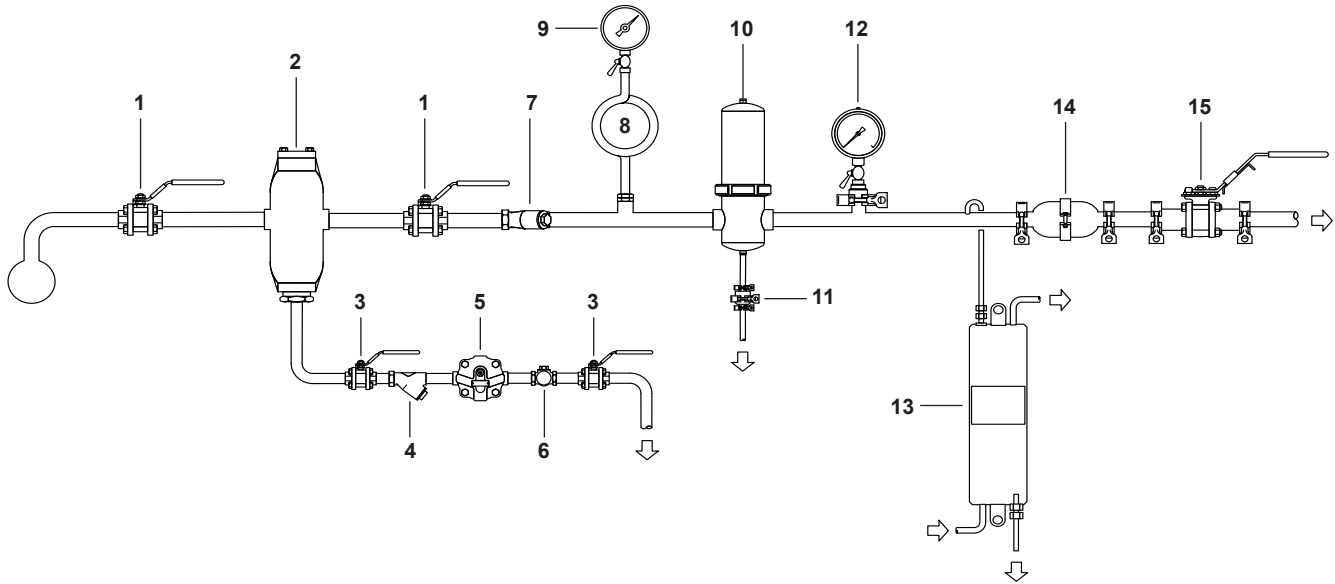
Steam Filter Station	FS- $\frac{1}{2}$	FS- $\frac{3}{4}$	FS-1	FS-1 $\frac{1}{2}$	FS-2
Line Size	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{2}$ "	2"
Steam Supply Pressure (psi g)	Saturated Steam Cap a city (lb/hr)				
10	35	65	110	270	445
20	50	90	150	370	615
30	60	110	190	470	780
40	75	135	230	565	945
50	90	160	270	660	1105
60	100	185	310	755	1265
70	115	210	350	850	1420
80	125	230	385	950	1580
90	140	255	425	1040	1740
100	150	280	460	1130	1895
110	165	300	500	1230	2050
120	175	325	540	1320	2210

The use of any steam filter without adequate preconditioning of the steam will reduce performance, resulting in frequent element cleanings or replacement, and subsequent high maintenance costs. Spirax Sarco steam filter station kits include a line size separator with an associated strainer and steam trap. These components will remove residual condensate and water droplets carried in suspension within the steam. Installed prior to the CSF16 steam filter, a line size pipeline strainer will remove larger solid particles, thus prolonging periods between filter cleaning. Each steam filter station kit also includes an isolating ball valve and a thermostatic steam trap for the steam filter drain.

The selection table gives a description of the included components. If pressure regulation is required, product information is available upon request.

Note: Interconnecting pipework is not supplied. All system components are threaded NPT. Full technical details for each product contained in a Steam Filter Station Kit are available upon request.

# Materials



No.	Part	½" line size item	¾" line size item	1" line size item	1½" line size item	2" line size item
1	Ball valves	½" M10S2FB (QTY 2)	¾" M10S2FB (QTY 2)	1" M10S2FB (QTY 2)	1½" M10S2FB (QTY 2)	2" M10S2FB (QTY 2)
2	Separator	½" S1	¾" S2	1" S1	1½" S2	2" S2
3	Ball valves	½" M10S2RB (QTY 2)				
4	Separator strainer	½" IT				
5	Separator trap	½" FTI-125				
6	Separator check valve	½" LCV1				
7	Main line strainer	½" IT 100 mesh	¾" IT 100 MESH	1" IT 100 MESH	1½" IT 100 MESH	2" IT 100 MESH
8	PG syphon	Pigtail black syphon				
9	Pressure gauges	SS Singlescale PG 0-100 psi g				
10	Filter	½" CSF16	¾" CSF16	1" CSF16	1½" CSF16	2" CSF16
10	Filter element	½" 5 MICRON ELEMENT	¾" 5 MICRON ELEMENT	1" 5 MICRON ELEMENT	1½" 5 MICRON ELEMENT	2" 5 MICRON ELEMENT
11	Filter trap	¼" MST21				
12	Pressure gauges	Sanitary PG, 0-100 PSI				
13	Sample cooler	SC20				
14	Sanitary check valve	½" CVS10	¾" CVS10	1" CVS10	1½" CVS10	2" CVS10
15	Ball valves	½" M70i	¾" M70i	1" M70i	1½" M70i	2" M70i