

SF10 Steam Filter

SF10-TB
08/02

Staitech

SF10 Steam Filter

The SF10 steam filter housing range are manufactured in 316L stainless steel and are designed to accept a pleated or sintered stainless steel element. Elements are available with 1, 5 or 25 micron absolute rating.

Housings can be supplied in a range of sizes with three standard connection types - threaded, flanged or Tri-Clamp compatible.

Both the pleated and sintered elements can be cleaned in a diluted acid solution or ultrasonic bath.

A steam filter will typically be fitted where a supply of plant steam is being used for non critical applications. Filtered steam is typically referred to as culinary grade, and is widely used in food and beverage applications.

The SF10 filter may also be used for liquid and gas applications.

Features offered by the SF10 include:

- All stainless steel construction - maximum corrosion resistance.
- Pleated and sintered 'cleanable' elements available - low cost of ownership.
- Offered with a wide range of connection types - allows unit to be integrated easily into overall steam system.

Product specification

Housing sizes 1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"

Connections BSPP, Flanged & Tri-Clamp® compatible

Vent & drain connection Plugged - 1/4" BSP

Element types Pleated or sintered

Available element ratings(absolute)

Pleated element	1 & 5 microns
Sintered element	1 & 25 microns

Element locking system 2-pin Bayonet lock

Maximum operating pressure 16 barg

Maximum differential pressure:

Pleated element	out-to-in 10 barg, in-to-out 2 barg
Sintered element	out-to-in 10 barg, in-to-out 5 barg

Maximum operating temperature 180°C

Internal housing finish 1.0 micron Ra and electropolished

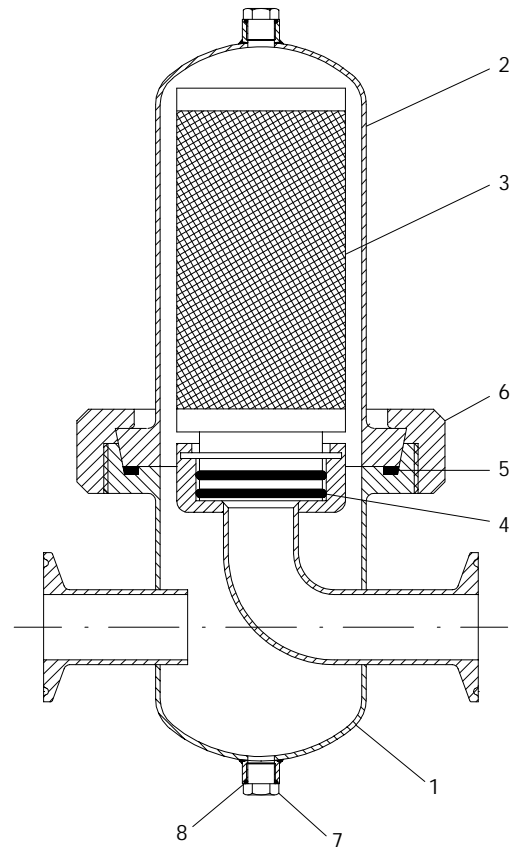
External housing finish Bright polish

Options: 2-1/2", 3 & 4" housings

Tri-Clamp vent and drain connections

Socket weld, butt weld & union connections

Capacities & dimensions - see over for filter capacities



Materials of construction

1.	Lower body	316L Stainless steel
2.	Upper body	316L Stainless steel
3.	Element - pleated	316 Stainless steel
	Element - sintered	316/304 Stainless steel
4.	Element O-rings	EPDM, AFLAS or Flouraz
5.	Body seal	EPDM or PTFE
6.	Body closure	304 Stainless steel
7.	Plug	316 Stainless steel
8.	Plug seal	EPDM or PTFE/Silicone

Capacities(kg/h saturated steam at 25 m/s with 100mbar differential across clean element)

1 micron sintered elements

Element size	Steam pressure(barg)					
	1	2	3	4	5	6
01	5	7.5	10	12.5	15	17.5
02	7	10	14	18	21	24
03	8	12	16	20	24	28
04	9	13	18	22	27	31
05	17	25	34	41	51	60
06	19	28	38	47	57	66
07	21	31	42	52	63	73
08	40	60	80	100	120	140
09	82	123	164	205	246	287

25 micron sintered elements

Element size	Steam pressure(barg)					
	1	2	3	4	5	6
01	3	4.5	6	7.5	9	10.5
02	12	18	24	30	36	42
03	17	25	34	42	51	59
04	21	31	42	52	63	73
05	37	55	74	93	110	130
06	41	61	82	102	123	143
07	45	67	90	112	135	157
08	160	240	320	400	480	560
09	280	420	560	700	840	980

1 & 5 micron pleated elements

Element size	Steam pressure(barg)					
	1	2	3	4	5	6
01	3	4.5	6	7.5	9	10.5
02	7	10	14	18	21	24
03	13	20	26	33	39	45
04	29	43	58	72	87	100
05	50	75	100	125	150	175
06	77	115	154	192	230	270
07	116	174	232	290	348	406
08	200	301	402	502	603	703

**size 09 not available in pleated form*

Dimensions(mm)

Size	Element size	A	B	C BSP	C Flanged	C Tri-Clamp
1/4"	01	148	52	128	-	-
3/8"	02	148	52	140	-	-
1/2"	03	148	52	153	180	116
3/4"	04	206	52	158	180	-
1"	05	206	52	170	200	147
1-1/4"	06	257	98	240	-	-
1-1/2"	07	257	98	240	240	203
2"	08	417	98	254	280	203
2"	09	666	98	254	280	203

Consult staitech for weights

