

# FSSTH High Pressure Filters

The **FSSTH** series of stainless steel filters has been developed to meet the demands of process air/gas and liquid filtration requirements. They are effective at removing solids from water, chemical, petroleum and other industrial processes via a specially selected ceramic element.

## Filter Elements

Filters are fitted with porous ceramic elements of controlled pore size in a range of grades as shown in the table below.

### Air / Gas Duties

Ceramic Element Grade	P3	P4	P5	P6	P8	P9	
	C3	C4	C5	C6	C8	C9	C0
Retention (microns)	50	30	20	10	3	1	0.3

### Liquid Duties

Ceramic Element Grade	P3	P4	P5	P6	P8	P9	
	C3	C4	C5	C6	C8	C9	C0
Retention (microns)	150	60	40	20	6	2	1

## Features

- High pressure capabilities
- All stainless steel construction
- Low pressure drop
- Controlled porosity within ceramic element
- Low maintenance cost
- Serviced without breaking pipe connections
- Elements capable of withstanding high pressure drops



Elements in all of these grades can be silicone treated (defined by suffix 'X' after the grade number). The pore diameter, and hence the retention rating, remains unaltered by the silicone treatment, but it improves the coalescing effect (for air/gas applications only).

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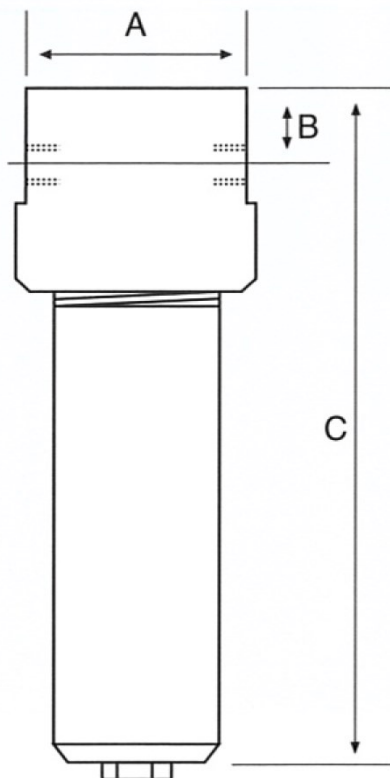
# FSSTH High Pressure Filters - Specifications

## Vessel Construction

All stainless steel consisting of a minimum number of parts for easy assembly and dismantling. They are designed for a working pressure of 700kg/cm<sup>2</sup> at 65°C and vertically mounted for use with horizontal in-line pipe connections. Servicing can be carried out from the top and bottom without breaking the pipeline connections.

## Sump Volume

The large volume sump capacity on all filters accommodates the impurity that is separated mechanically. This reduces the contaminant load on the filter element and increases filter life.



## Specifications

Filter Type	Dimensions (mm)			Inlet / Outlet BSP	Size & No. Of Element		Filtration Area cm <sup>2</sup>	Weight kg	Max Working Pressure kg/cm <sup>3</sup>
	A	B	C		Length	Dia			
FSSTH-010412-118	92	17.5	195	1/4"	114	28.5	97	6.4	460
FSSTH-0110-2	120	45	395	1/2"	254	50	400	21	700

## Capacities for Air / Gas Duties

Typical Flow Rates Nm <sup>3</sup> /hr for Free Air with a pressure differential of 0.07 kg/cm <sup>2</sup>								
Pipeline Pressures kg/cm <sup>2</sup>								
Filter Type	Ceramic Element Grade	70	105	140	175	210	280	350
FSSTH-010412-118	6	300	440	595	750	900	1205	1530
	0	85	135	185	230	270	365	460
FSSTH-0110-2	6	1460	2040	2890	3655	4420	5950	7310
	0	495	750	985	1240	1495	2040	2550

## Capacities for Water / Liquid Duties

Typical Flow Rates L/hr when clean with a pressure differential of 0.14 kg/cm <sup>2</sup>						
Filter Type	Ceramic Element Grades					
	0	9	8	6	5	4
FSSTH-010412-118	40	132	214	318	384	425
FSSTH-0110-2	80	363	547	2139	2623	3340