FSSTH Multi Stage High Pressure Filters

The **FSSTH** Multi Stage high pressure filter range of units consists of a pre-filter, carbon adsorber and after-filter. The range is based on a number of standard units designed for pressures up to 700 kg/cm2 at 65°C.

Details of the pre-filter and after-filter units are given separately. These units are capable of removing oil and water droplets, and solid particles of 0.3 micron and above with 99.999% efficiency, and hydrocarbon vapours including odour to 99.999% efficiency.

Pre-filter

The pre-filter is fitted with a silicone treated ceramic element grade P8X. This effectively removes solids and liquid impurities from the air stream and so extends the useful life of the adsorber unit.

Carbon Adsorber

The carbon adsorber unit provides a deep bed of activated carbon. This ensures an evenly distributed flow, and removes organic flavours and vapours from the air or gas stream. Activated carbon is specially selected for its highly adsorbent qualities.

Other adsorbents available

- Molecular Sieve
- Activated Alumina
- Moleculite

After-Filter

The after-filter is fitted with a grade C0 ceramic element, efficiently removing solid particulates down to 0.3 micron thereby preventing the passage of both airborne bacteria and traces of carbon dust carried over from the adsorber section.

The air or gas exiting the three stage filter is of purity suitable for breathing air, fermentation tanks and processes requiring the highest standard.

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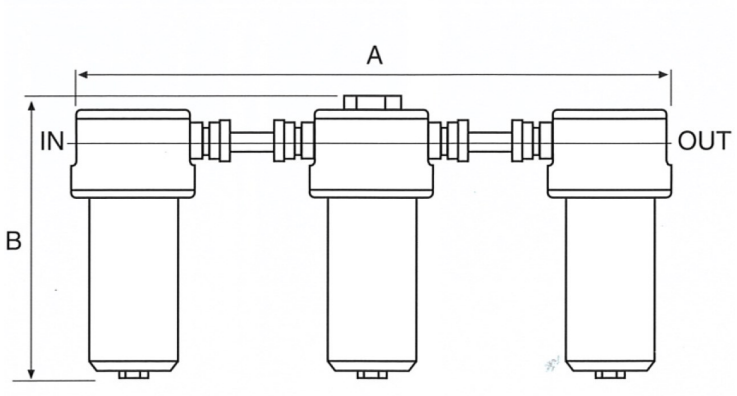
FSSTH
High Pressure Filters - Specifications

Available Filters

Filter Type	Dimensions mm		Inlet / Outlet Connections BSP	Quantity of Carbon Charge kg	Net Weight kg	Max Working Pressure kg/cm2
	A	B				
FSSTH-P-A025-A	473	260	1/4"	0.11	17.7	350
FSSTH-P-A1-A	575	500	1/2"	0.45	55	700

Capacities for Air / Gas Duties

Filter Type	Typical Flow Rates Nm3/hr Free Air with a Pressure Differential of 0.14 kg/cm2		
	70 kg/cm2	210 kg/cm2	350 kg/cm2
FSSTH-P-A025-A	90	267	443
FSSTH-P-A1-A	228	677	1126



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.

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 700 kg/cm2 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 into the pipeline.

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