

HS SERIES



# STEAM FILTER - HS SERIES

Demands for clean steam for solid impurity removal during steam filtration within the food, beverage, dairy, brewery and pharmaceutical industries are continuously increasing. In addition standard characteristics / requirements that a filter must meet are, high flow rates, largest possible filter area, low differential pressure and cost effectiveness.

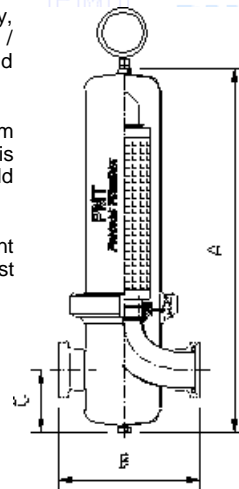
Clean steam is required for in-situ pipe, tank / vessel and filter system sterilisation. Generally this steam contains a considerable amount of debris, rust and pipe scale which are all quality negatives. Hence it is essential that the steam be cleaned for process. Coupled with this, a shortened life of filters, valves etc could be experienced if the steam is not filtered.

**PMTJ** series DS sintered stainless steel filter cartridges revolutionise steam filtration and also offer excellent chemical resistance and mechanical stability due to their special design. They offer the user the best opportunity for cost effective and reliable filtration.

Standard equipment includes;

- \* Stainless steel filter housing
- \* Sintered stainless steel cartridge
- \* Stainless steel glycerine filled and temperature resistant pressure gauge

The **PMTJ** steam filter housing is designed for upstream sampling, condensate draining / venting during steaming. (Valves are an optional extra).



## HOUSING

Material: Stainless steel 304

Surface finish: High external polish  
Internal electro polish

Vent & drain connection: 3 @ BSP plug

Max operating pressure: 16 bar

Connections: DN15 - DN 100 DIN11851

*Others on request*

Seals: EPDM standard

*Others on request*

## CARTRIDGE

Filter media: Sintered stainless steel 1.4404, regenerable.

Retention rate: Available in 1µm

Operating temp.: 200°C max

Construction: Welded end caps

Connection: Bayonet with double O-ring



FILTER TYPE	Capacity (1µm) kg/h sat. steam 1341C Δp 0.25 mbar	Connection DIN11851 DN	Dimensions			Cartridge Length mm / Inch	Filter Area m <sup>2</sup>	Cartridge Type	Max. Pressure Housing bar
			A	B	C				
P07HS	35	15	220	130	55	55 / 22	0.0104	ZCHS-BT	16
P09HS	55	20	220	130	55	55 / 22	0.0104	ZCHS-BT	16
P11HS	95	25	312	155	75	110 / 5	0.0207	ZCHS-AT	16
P12HS	125	32	312	155	75	110 / 5	0.0207	ZCHS-AT	16
P13HS	200	40	312	155	75	110 / 5	0.0207	ZCHS-AT	16
P14HS	340	50	486	190	80	250 / 10	0.0597	ZCHS-1C	16
P15HS	360	50	792	190	80	500 / 20	0.1194	ZCHS-2C	16
P18HS	620	65	792	220	110	500 / 20	0.1194	ZCHS-2C	16
P19HS	950	80	1,056	220	110	750 / 30	0.1791	ZCHS-3C	16
P19DPL	1,100	100						DPL19	
P20DPL	1,450	100						DPL20	

Working pressure, bar absolute	1	2	4	6	10
Saturated steam temperature °C	100	121	140	160	180
Conversion factor	0.5	1	2	3	4