

STEAM FILTER - DS 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.

PMT™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 also offer the user the best opportunity for cost effective and reliable filtration.

Standard equipment includes;

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

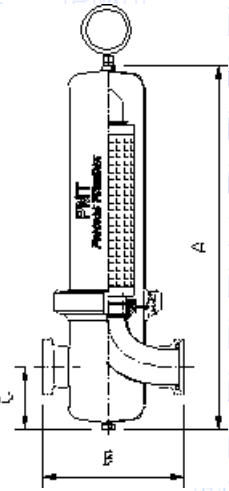
The PMT™steam filter housing is designed for upstream sampling, condensate draining / venting during steaming. *(Valves are an optional extra).*

HOUSING:

| | |
|-------------------------|----------------------|
| Material | Stainless steel 304 |
| Surface finish | High external polish |
| Vent & drain connection | ¼" BSP plug |
| Max operating pressure | 16 bar |
| Connections | DN15-DN80 DIN11851 |
| Seals | EPDM standard |
| | Others on request |

CARTRIDGE:

| | |
|----------------|--|
| Filter media | Sintered stainless steel 1.4301, regenerable |
| Retention rate | Available in 1µm and 25µm. Other micron sizes on request. Rates at η=99.99%. |
| Operating temp | 200°C max |
| Construction | Welded end caps |
| Connection | Bayonet with double O-ring |



| FILTER TYPE | Capacity (25 μ m) kg/h sat. steam 121°C Δ P 0.1 bar | Connection DIN11851 DN | Dimensions | | | Cartridge Length mm / Inch | Filter Area m ² | Cartridge Type | Max Pressure Housing Barg |
|-------------|--|------------------------------|------------|-----|-----|----------------------------------|----------------------------------|-------------------|------------------------------------|
| | | | A | B | C | | | | |
| P07DS | 38 | 15 | 256 | 115 | 55 | 65 / 2½ | 0.0104 | DS09T | 16 |
| P09DS | 38 | 20 | 256 | 115 | 55 | 65 / 2½ | 0.0104 | DS09T | 16 |
| P11DS | 70 | 25 | 312 | 155 | 75 | 125 / 5 | 0.0207 | DS13T | 16 |
| P12DS | 79 | 32 | 312 | 155 | 75 | 125 / 5 | 0.0207 | DS13T | 16 |
| P13DS | 79 | 40 | 312 | 155 | 75 | 125 / 5 | 0.0207 | DS13T | 16 |
| P14DS | 227 | 50 | 486 | 190 | 80 | 250 / 10 | 0.0597 | DS14T | 16 |
| P15DS | 454 | 50 | 792 | 190 | 80 | 500 / 20 | 0.1194 | DS18T | 16 |
| P18DS | 454 | 65 | 792 | 220 | 110 | 500 / 20 | 0.1194 | DS18T | 16 |
| P19DS | 682 | 80 | 1,056 | 220 | 110 | 750 / 13 | 0.1791 | DS19T | 16 |

| | | | | | |
|-----------------------------------|-----|-----|-----|-----|-----|
| 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 |

