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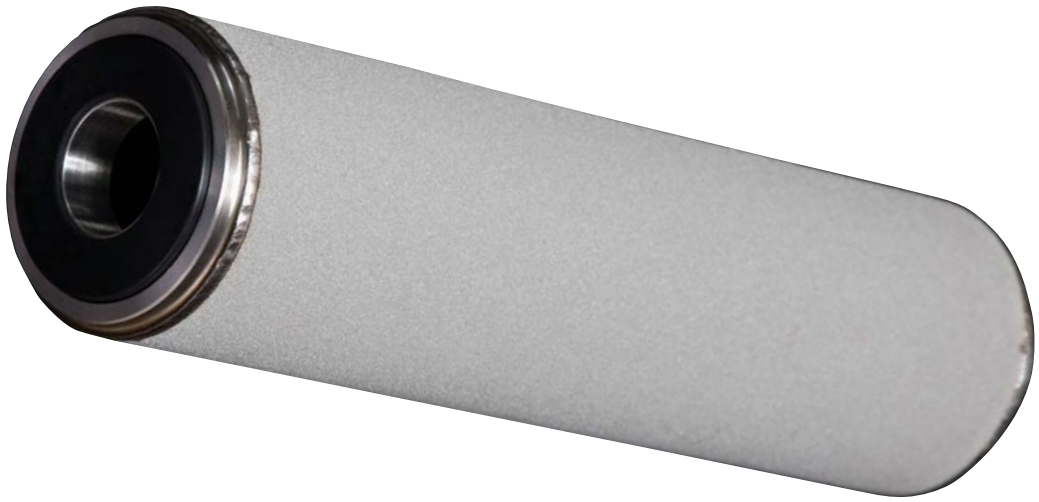

Stainless Steel Filters

Sinterflo® Sintered

The SMART choice for filtration

Hall Pyke

Sinterflo® Sintered

Stainless Steel Filter Elements

Our steam filters are available in a selection of grades to meet the particular requirements demanded throughout the production process.

Culinary Steam

We supply a range of filters for the production of particulate free culinary steam for critical applications that come in direct contact with food, beverages, pharmaceuticals or product contact surfaces. These filters exceed the 3A Sanitary Standards 609-03, constructed to remove more than 95% of 2 micron particles.

Process Steam

Our process steam filters are used where clean, dry steam is critical for plant performance and continuous operation, but where there is no direct contact with the manufactured product.

The Sinterflo® stainless steel filter elements are available in high quality 316L sintered metal fibre, metal mesh and sintered metal powder media. Our elements have an exceptional dirt holding capacity and are designed to withstand demanding temperature and pressure conditions.

All components used in the construction of our elements are FDA approved to 21CFR, manufactured according to DIN EN ISO 9001 and meet or exceed the latest EC Directives for Food Contact.

Features and Benefits

- Sinterflo® stainless steel elements
  The Sinterflo® range of filter elements are constructed in stainless steel 316L as standard. These filters are available in a cylindrical element configuration (giving 0.05m2 (0.55ft2) of active filtration area per 10” length) and pleated element configuration (giving 0.13m2 (1.40ft2) of filtration area).

- Robustness of design
  Our high quality stainless steel Sinterflo® F Fibre, Sinterflo® M Mesh and Sinterflo® P Powder cartridges have a fully welded construction ensuring an excellent resistance to high temperature environments.

- High tensile strength
  The method of construction and materials used guarantees cartridge integrity allowing for a typical operation in steam from -51°C (-60°F) to 204°C (400°F), seal dependant, and up to 5bar (72psi) differential pressure in normal flow direction.

Applications

Sterilisation, particulate entrainment and purification using filtered steam is used throughout the production process in applications such as:

- Sterile Packaging
  For the sterilisation of product packaging for the food, beverage and pharmaceutical industries.
- Pharmaceuticals
  Used in the purification of product and manufacturing equipment and the prevention of contaminants.
- Breweries
  For bottling lines, sterilising equipment, removing pipe-scale and prevention of fouling of valves and injectors.
- Dairies
  For the sterilisation of process equipment and direct/indirect thermal processing of foodstuffs.
- Food and Beverages
  For bottling and canning processes.
- Chemical Production
  For the removal of bacteria and contaminants in fermentation and sanitisation processes in fermentors and bioreactors.

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Materials of Manufacture

316L stainless steel as standard.

Cartridge Dimensions

Diameter*: 66mm (2.6") as standard.
Lengths*: 125mm (5"), 250mm (10"), 498mm (20"), 745mm (30") and 1012mm (40").
*Other diameters and non-standard lengths available on request.

Effective Filtration Area (per 10" length)

Pleated element: 0.13m2 (1.40ft2)
Cylindrical element: 0.05m2 (0.54ft2)

Gaskets and O-Rings

EPDM as standard. Nitrile, PTFE, Silicone, Viton® and PTFE coated Viton® available on request or by process selection.

Maximum Differential Pressure* (all lengths)

Normal flow direction: up to 5bar (72psi)
Reverse flow direction: up to 3bar (44psi)

Stainless Steel Media Grades

Stainless Steel Grades	Micron Rating (µm) (micron code)	Liquids (µm) (99.9% efficiency)	Gases (µm) (99.9% efficiency)
Sinterflo® F Stainless Steel Media Grades			
F3	3 (0003)	3*	1
F5	5 (0005)	5*	1.5
F10	10 (0010)	10*	3
F15	15 (0015)	15*	4
F20	20 (0020)	20*	6
F30	30 (0030)	30*	8
F40	40 (0040)	40*	11
F60	60 (0060)	60*	16

Stainless Steel Grades	Micron Rating (µm) (micron code)	Liquids (µm) (99.9% efficiency)	Gases (µm) (99.9% efficiency)
Sinterflo® M Stainless Steel Media Grades			
M3	3 (0003)	10**	2
M5	5 (0005)	18**	13
M10	10 (0010)	25**	18
M15	15 (0015)	35**	25
M25	25 (0025)	30**	20
M30	30 (0030)	40**	30
M35	35 (0035)	50**	45
M70	70 (0070)	75**	60

Stainless Steel Grades	Micron Rating (µm) (micron code)	Liquids (µm) (99.9% efficiency)	Gases (µm) (99.9% efficiency)
Sinterflo® P Stainless Steel Media Grades			
S10	6 (0006	6*	0.7
S20	10 (0010)	10*	0.8
S30	15 (0015)	15*	4
S36	25 (0025)	25*	5
S40	30 (0030)	30*	6
S41	40 (0040)	40*	8
S50	60 (0060)	60*	15

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www.hallpyke.ie

Head Office, 3A Sunbury Industrial Estate, Ballymount Road, Walkinstown, Dublin 12.
T. +353-1-4501411 **F.** +353-1-4507960 **E.** info@hallpyke.ie **W.** www.hallpyke.ie