

Did you know...

> Mott Steam Filters Protect Biotech SIP Systems?

High Purity Products News

In many areas of the biotechnology and pharmaceutical industries, vessels, piping and filter systems are sterilized by steam. If not properly filtered, the steam required to sterilize these systems may contain a considerable amount of rust, particulate or other pipe-scale. The resulting contaminated steam may cause serious faults in the system. If the steam is contaminated, the life of valves, filters and other ancillary equipment is shortened. Mott All Stainless Steel Filter Cartridges for clean steam applications in sanitary and sterile environments can withstand temperature up to 450°C with efficiency of 99.9% of particles 0.2µm and larger.

Available in a variety of connection types for retrofit into existing housings, Mott provides the flexibility to upgrade your existing systems with higher efficiency filter medium.

> All-Metal Steam Filters for Biotechnology Applications



Mott High Purity Steam Filters prevent SIP systems from being contaminated and help increase the life of adjoining equipment.

Mott High Purity Steam Filters incorporate sintered porous stainless steel filter media that ensures the effective retention of particles. The 316LSS filter elements provide excellent chemical resistance and mechanical stability due to their special design. Using Mott High Purity Steam Filters can considerably reduce the post-filtration costs of your system.

Cartridge Features

- Porous sintered stainless steel construction
- High flow rate with low differential pressure
- High mechanical stability
- High temperature range
- Available in media grades 10, 20, and 40µm
- Welded end caps either flat end or centering cone
- 226 with locking flanges or 222 adapters with double "O" ring

Filter Cartridge Specifications

Overall Length

10 inch cartridge: 10.75 Inch/273mm
 20 inch cartridge: 20.75 Inch/527mm
 30 inch cartridge: 30.75 Inch/781mm
 40 inch cartridge: 40.75 Inch/1035mm

Outside Diameter

2.5 Inch/63.5mm

Filtration Area

10 inch cartridge: 0.54 Ft²/0.05m²
 20 inch cartridge: 1.09 Ft²/0.10m²
 30 inch cartridge: 1.63 Ft²/0.15m²
 40 inch cartridge: 2.18 Ft²/0.20m²

Filter Media

316LSS

End-caps, Adapter

316LSS

Maximum Forward Differential Pressure in Air, Oxygen or Nitrogen

250 psid (17.23 Bar)

Maximum Reverse Differential Pressure in Air, Oxygen or Nitrogen

250 psid (17.23 Bar)

Maximum Operating Temperatures

450°C (842°F) @ 125 PSIG

For more information

Click on the images below to download our [Steam Filters for Biotechnology](#) data sheet, or watch our [company overview video](#). You may also contact us via email: quest@mottcorp.com, or at Mott Corporation, 84 Spring Lane, Farmington, CT 06032, 1-860-747-6333 or Toll-Free 1-800-BUY-MOTT.

AI-Metal Steam Filters for Biotechnology Applications

In most bioprocess applications, vessels, piping and filter housings are sterilized by steam. In certain CIP operations, large applications also call for steam pulsing of vessels, filter housings and process lines to maintain process temperature.

The steam required to sterilize or re-sterilize these systems often contains a considerable amount of particulate in the form of rust or other impurities. If contained by these impurities, it decreases the life of the vessels, filters, steam jackets and other auxiliary equipment.

Most High-Purity Steam Filters prevent CIP systems from being contaminated and help increase the life of auxiliary equipment.

Most High-Purity Steam Filters incorporate several unique features that make them the effective solution of choice. The 316LSS filter screens provide excellent chemical resistance and mechanical stability due to their special design. Using Most High-Purity Steam Filters can considerably reduce the post-sterile work of your system.

Cartridge Features:

- 316LSS screened stainless steel construction
- High flow rate with low differential pressure
- High mechanical stability
- High temperature range
- Available in metric grades 10, 20, and 40µm
- Welded end caps allow for end-to-end assembly
- 222 self-locking langes in 222 adapters with double O-ring

Filter Cartridge Specifications	10 inch cartridge	20 inch cartridge	30 inch cartridge	40 inch cartridge
Overall length	10.75 Inch/273mm	20.75 Inch/527mm	30.75 Inch/781mm	40.75 Inch/1035mm
Outside diameter	2.5 Inch/63.5mm	2.5 Inch/63.5mm	2.5 Inch/63.5mm	2.5 Inch/63.5mm
End caps	316LSS	316LSS	316LSS	316LSS
End cap adapter	316LSS	316LSS	316LSS	316LSS
Substrate material	316LSS	316LSS	316LSS	316LSS
Filter media	316LSS	316LSS	316LSS	316LSS
Maximum operating temperature	450°C (842°F)	450°C (842°F)	450°C (842°F)	450°C (842°F)
Maximum differential pressure	250 psid (17.23 Bar)	250 psid (17.23 Bar)	250 psid (17.23 Bar)	250 psid (17.23 Bar)
Maximum reverse differential pressure	250 psid (17.23 Bar)	250 psid (17.23 Bar)	250 psid (17.23 Bar)	250 psid (17.23 Bar)
Filtration area	0.54 Ft ² /0.05m ²	1.09 Ft ² /0.10m ²	1.63 Ft ² /0.15m ²	2.18 Ft ² /0.20m ²
Filter media	316LSS	316LSS	316LSS	316LSS
End cap	316LSS	316LSS	316LSS	316LSS
End cap adapter	316LSS	316LSS	316LSS	316LSS

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High Purity Products



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