

## > All-Metal Steam Filters for Biotechnology Applications



In most Bioprocess applications, vessels, piping and filter housings are sterilized by steam-in-place (SIP) operations. Many applications also call for steam jacketing of vessels, filter housings and process lines to maintain process temperature.

The steam required to sterilize or operate these systems often contain a considerable amount of particulate in the form of rust or other pipe-scale. If contaminated by these impurities, it diminishes the life of the valves, filters, steam jackets and other ancillary equipment.

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 316L SS 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 40 µm
- Welded end caps either flat end or centering cone
- 226 with locking flanges or 222 adapters with double “O” ring

### Filter Cartridge Specifications

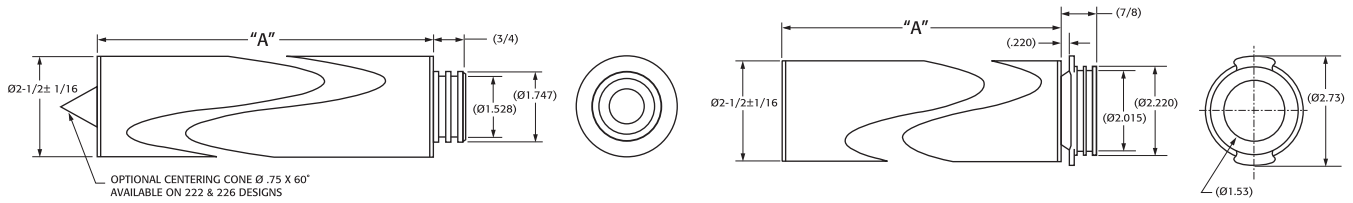
Nominal Dimensions	10 inch Cartridge	20 inch Cartridge	30 inch Cartridge	40 inch Cartridge
Overall Length	10.75 Inch/273 mm	20.75 Inch/527 mm	30.75 Inch/781 mm	40.75 Inch/1035 mm
Outside Diameter	2.5 Inch/63.5 mm	2.5 Inch/63.5 mm	2.5 Inch/63.5 mm	2.5 Inch/63.5 mm
Filtration Area	0.54 Ft <sup>2</sup> /0.05 m <sup>2</sup>	1.09 Ft <sup>2</sup> /0.10 m <sup>2</sup>	1.63 Ft <sup>2</sup> /0.15 m <sup>2</sup>	2.18 Ft <sup>2</sup> /0.20 m <sup>2</sup>
Filter Media	316L SS	316L SS	316L SS	316L SS
End-caps, Adapter	316L SS	316L SS	316L SS	316L SS
Maximum Forward Differential Pressure in Air, Oxygen or Nitrogen	250 psid (17.23 Bar)	250 psid (17.23 Bar)	250 psid (17.23 Bar)	250 psid (17.23 Bar)
Maximum Reverse Differential Pressure in Air, Oxygen or Nitrogen	250 psid (17.23 Bar)	250 psid (17.23 Bar)	250 psid (17.23 Bar)	250 psid (17.23 Bar)
Maximum Operating Temperatures	450°C (842°F) @ 125 PSIG	450°C (842°F) @ 125 PSIG	450°C (842°F) @ 125 PSIG	450°C (842°F) @ 125 PSIG
Cartridge Connections Double O-Ring	226 with Locking Flange or 222	226 with Locking Flange or 222	226 with Locking Flange or 222	226 with Locking Flange or 222
End caps	Flat end cap or centering cone end cap	Flat end cap or centering cone end cap	Flat end cap or centering cone end cap	Flat end cap or centering cone end cap

> high purity products

> [mottcorp.com](http://mottcorp.com)

## 222 Double O-Ring Cartridge

## 226 Double O-Ring Cartridge with Locking Flanges



### Bio-Pharm Steam Filter Cartridges Part Number

Code	Product Family
6840	Steam Filter Element
	<b>Code Connector Type</b>
	222 Double O-Ring Size 222 Connector
	226F Double O-Ring Size 226 Connector with Locking Flanges
	<b>Code Porous Tube Length (Dimension A above)</b>
	10 Porous Tube Length, 2.5 Inch OD
	20 Porous Tube Length, 2.5 Inch OD
	30 Porous Tube Length, 2.5 Inch OD
	40 Porous Tube Length, 2.5 Inch OD
	<b>Code Media Grade</b>
	10 10 µm Media Grade Porous
	20 20 µm Media Grade Porous
	40 40 µm Media Grade Porous
	<b>Code End Cap</b>
	A00 316L SS Flat End Cap
	F12 3/4 Inch Diameter, 60° Centering Cone
	<b>Code Porous Media</b>
	A 316L SS Porous Media
	<b>Code Hardware Material</b>
	A 316L SS Hardware

Example: 6840 226F- 10- 0.2- A00- A A

### Order O-Ring Separately

Code	O-Rings
2-222	Standard 222 size O-rings
2-226	Standard 226 size O-rings
	<b>Code Materials</b>
	63 Neoprene
	64 <i>Teflon</i> <sup>®</sup>
	65 Viton
	66 Buna-N
	71 Ethylene Propylene (EPDM)
	72 Silicone
	86 <i>Teflon</i> <sup>®</sup> Encapsulated-Silicone
	87 <i>Teflon</i> <sup>®</sup> Encapsulated-EPDM
	91 Kal Rez
	92 <i>Teflon</i> <sup>®</sup> Encapsulated Viton
	1A Viton Steam Resistant

Example: 2-222- 63



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