

## > Mott High Purity Vent Filters



### All-Metal Vent Filters for Pressurized Air or Gases in Extreme Environments

Biopharmaceutical processes that require air filtration or venting applications in high temperature environments provide a serious challenge for traditional PTFE, PVDF and polypropylene filter products. Mott all-metal 316L SS or Nickel alloy filter cartridges provide superior safety and long service life in biotech environments with elevated temperatures and oxidation stress.

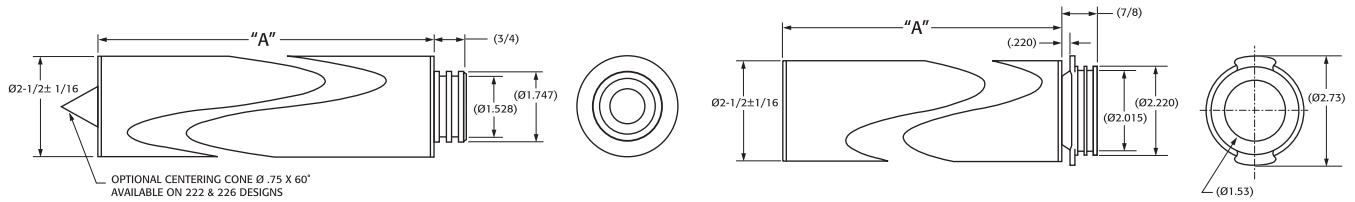
Mott's all-metal filter cartridges provide a robust solution to these extreme environments. With differential pressure capabilities above 250 psid and operating temperature up to 450°C (842°F), Mott all-metal vent filters provide superior performance, longer life and more effective filtration than competing plastic membrane technologies.

### Other Metal Filter Membranes Available

Mott metal filter cartridges are available in all 316L SS, Hastelloy® C-22, Monel® and Nickel 200. Mott High Purity all-metal filter cartridges are designed, developed and manufactured in accordance with ISO-9001 quality systems standards.

### 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



Bio-Pharm Vent Filter Cartridges Part Number

Code	Product Family
6840	Vent 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>
	0.2 0.2 $\mu\text{m}$ Media Grade Porous
	0.5 0.5 $\mu\text{m}$ Media Grade Porous
	2 2 $\mu\text{m}$ Media Grade Porous
	5 5 $\mu\text{m}$ 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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Monel is a registered trademark of Special Metals Corporation.  
*Teflon*<sup>®</sup> is a registered trademark of E. I. DuPont Nemours & Co., Inc.

