



FLUOROGARD® AT AND ATX CARTRIDGE FILTERS

Low COO all-PTFE filters with broad chemical and temperature range compatibility for a high flow and the highest cleanliness

Overview

Entegris Fluorogard® AT and ATX cartridge filters' all-fluoropolymer construction is designed to consistently remove particles from a wide range of acids, bases and other process chemicals. Ideal for medium- to high-flow applications, Fluorogard cartridge filters deliver a low cost of ownership (COO) as a dry device or prewet product ready for quick installation.

Superior Filtration Efficiency

High filtration area is provided to minimize pressure drop across the filter without compromising the enhanced particle removal characteristics of the design. The Teflon® fluoropolymer materials and thermally bonded construction minimize extractables and other contaminants that may be detrimental to process performance and yield. Fluorogard cartridges provide high-retention performance in a clean, durable filter.

High Quality and Reliability

All Fluorogard AT and ATX filters are manufactured in ISO 9001 certified facilities under cleanroom conditions and documentation control. All devices are fully tested for integrity to ensure product performance standards are met.



Cost-effective Filtration

Fluorogard prewet cartridges are shipped "water-wet" and are available in 0.2 µm and 0.1 µm ratings. Prewet cartridges prevent alcohol-chemical interactions, avoid potential contamination sources and minimize process downtime. The inconvenience of hazardous waste disposal of IPA is eliminated.

Features and Benefits

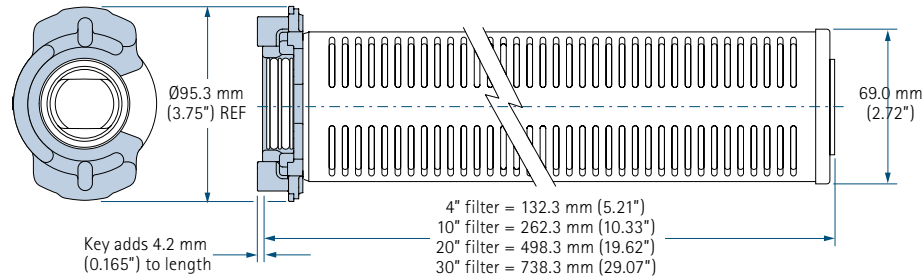
Features	Advantage	Benefits
Retention ratings from 10 µm down to 0.05 µm		Broad range of applications
All-fluoropolymer construction	Excellent chemical compatibility	
Low particle shedding	Improved chemical cleanliness	Increased yield
Low extractable level		Higher throughput
	High flow	Faster bath cleanup
High surface area using pleated structure	Long lifetime	
	Low pressure drop (less stress on other components like pumps, etc.)	Lower COO
Prewet version available	No solvent needed for prewetting	
	No flushing required	
	Quick/easy installation	

Specifications

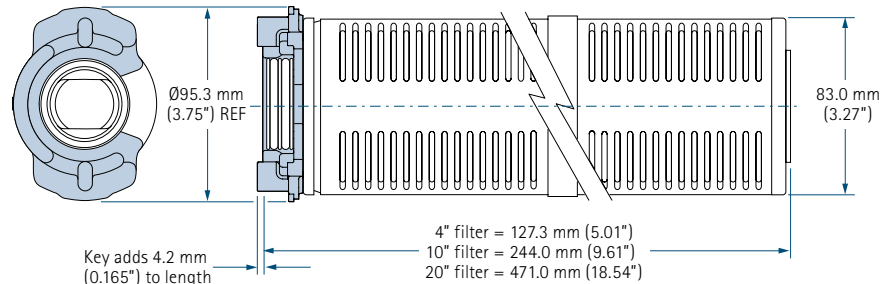
Materials:	Membrane	Pleated hydrophobic PTFE	
	Supports, core, sleeve, end caps	PFA	
	Code 0 double 2-222 o-rings	Teflon® Encapsulated Viton® (TEV), Chemraz®, Kalrez® 4079, Teflon Encapsulated Viton Extreme™ ETP (E-ETP) and Teflon Encapsulated EPDM/EPR (TEE)	
Membrane surface area:	AT	ATX	
	4"	0.36 m ²	4" 0.50 m ²
	10"	0.90 m ²	10" 1.30 m ²
	20"	1.80 m ²	20" 2.60 m ²
	30"	2.70 m ²	–
Maximum operating conditions:	Maximum forward differential pressure	4" filters	0.41 MPa (4.1 bar, 60 psid) @ 25°C
		10," 20" filters	0.51 MPa (5.1 bar, 75 psid) @ 25°C
		All filters	0.051 MPa (0.51 bar, 7.5 psid) @ 150°C
	Maximum reverse differential pressure	0.35 MPa (3.5 bar; 50 psid) @ 25°C	
	Maximum operating temperature	150°C (302°F) at the above conditions	
Particle cleanliness:	Filter contributes <2 particles/mL ≥ 0.20 µm after five-minute flush at 5 L/min.		
Metallic extractables level:	<40 µg/10" element		

Dimensions

Fluorogard AT Cartridge Filters

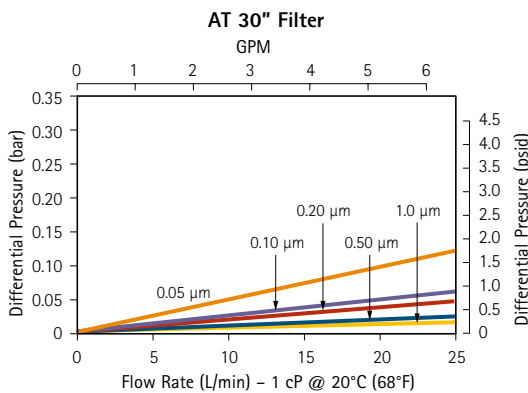
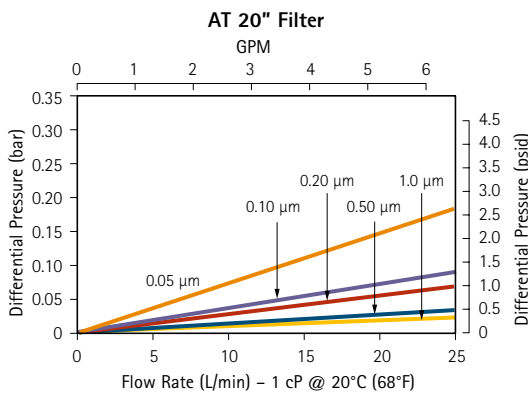
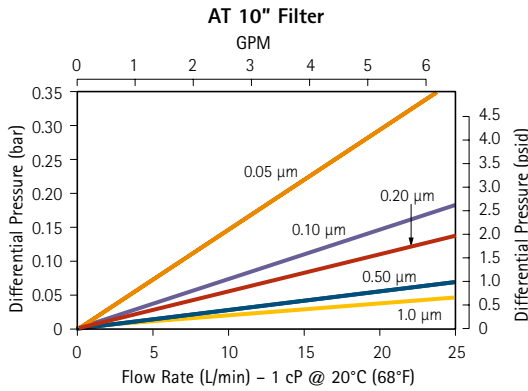
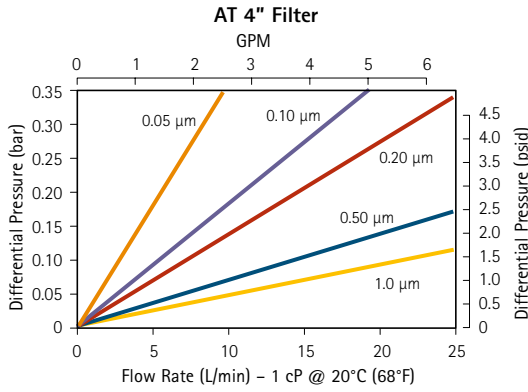


Fluorogard ATX Cartridge Filters

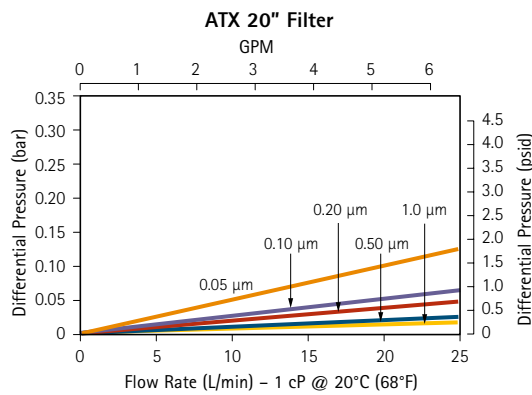
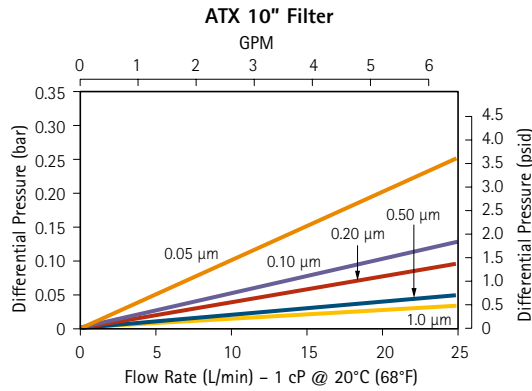
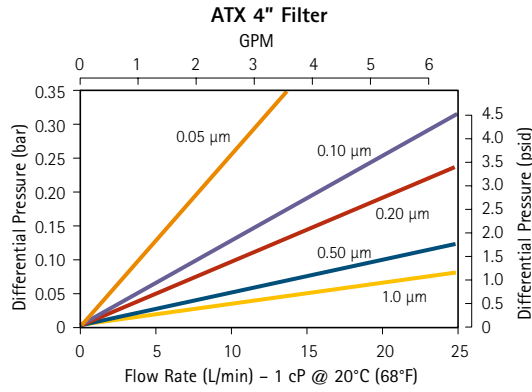


Performance Data

Fluorogard AT Filters



Fluorogard ATX Filters

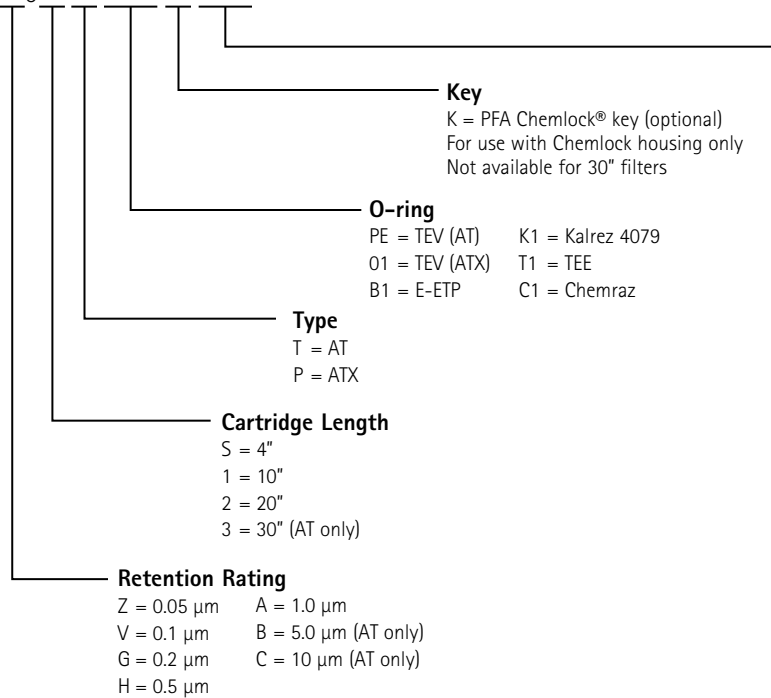


Ordering Information

Fluorogard AT/ATX Cartridge Filters

Part Number

CTF 0



Prewet Option
PW = Prewet option
0.2 and 0.1 µm available (prewetted with DI water and delivered in wet environment); contact your local representative for more retention ratings options

Key
K = PFA Chemlock® key (optional)
For use with Chemlock housing only
Not available for 30" filters

O-ring
PE = TEV (AT) K1 = Kalrez 4079
O1 = TEV (ATX) T1 = TEE
B1 = E-ETP C1 = Chemraz

Type
T = AT
P = ATX

Cartridge Length
S = 4"
1 = 10"
2 = 20"
3 = 30" (AT only)

Retention Rating
Z = 0.05 µm A = 1.0 µm
V = 0.1 µm B = 5.0 µm (AT only)
G = 0.2 µm C = 10 µm (AT only)
H = 0.5 µm

Note: Use of Fluorogard prewet cartridges within one year of shipment date is recommended. To maintain optimal performance, the product should be kept in its original packaging and stored according to product handling specifications.

For More Information

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit www.entegris.com and select the Customer Service link for the center nearest you.

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