

# Trinzik™ XFX Filters

*Improve yield in bulk chemical  
and point-of-tool applications using  
advanced, high-flow filtration*

Entegris has expanded the high-performance Trinzik™ filter portfolio to include advanced Trinzik XFX 10 nm filters, which combine a unique high-flow membrane, all-PFA and -PTFE construction, and specialized cleaning to improve chemical cleanliness.

Utilizing unique membrane morphology, the high-flow membrane offers industry-leading flow, ideal for recirculation of high-viscosity chemicals including sulfuric and phosphoric acids. Available in cartridge and disposable formats, Trinzik XFX high-flow filters enable lower cost of ownership in new installations, upgraded retention without capital improvement, and improved chemical cleanliness from increased tank turns.

## APPLICATIONS

- Advanced bulk chemical production and final filtration
- Single wafer and batch tools
- Chemical delivery systems



## FEATURES & BENEFITS

### Uniquely tailored PTFE membrane morphology

Enables the highest flow, 10 nm PTFE filter available in the market

Provides faster tank turns, increased compatibility with high-viscosity applications, and smaller filter footprint

### Small pore size membrane design

Advanced particle removal increases device yield

### PFA construction and advanced cleaning

Improved startup time with lower extractables

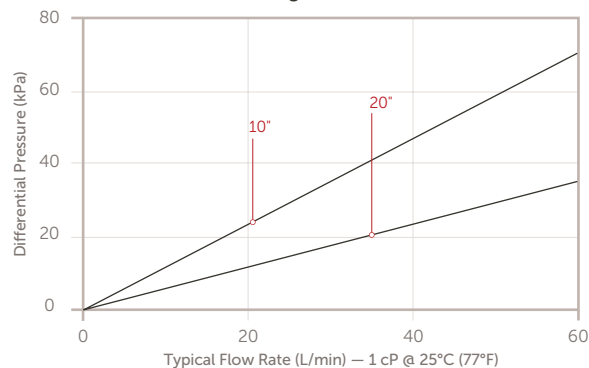
# Trinzik XFX Cartridge Filter

## SPECIFICATIONS

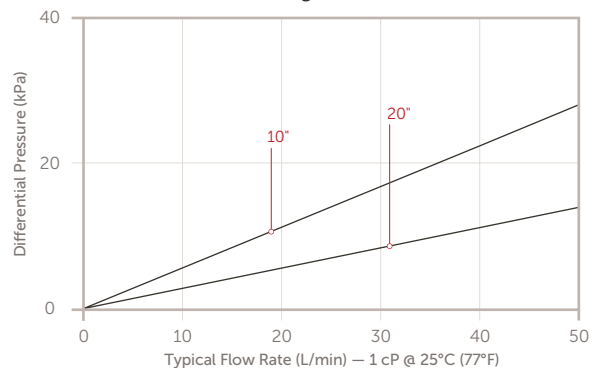
Materials of construction	Membrane	Prewet, nondewetting, PTFE
	Support, core, sleeve	PFA
	O-ring	E-ETP, Kalrez®, E-FKM
Membrane area	10", 20" ATE	~2.2 m <sup>2</sup> (23.68 ft <sup>2</sup> ), ~4.4 m <sup>2</sup> (47.36 ft <sup>2</sup> )
	10", 20" AT	~0.9 m <sup>2</sup> (9.69 ft <sup>2</sup> ), ~1.8 m <sup>2</sup> (19.37 ft <sup>2</sup> )
Cleanliness	Standard/UCM	
Maximum operating conditions	<p>Maximum operating pressure:</p> <p>0.58 MPa (5.8 bar; 84 psi) @ 25°C (77°F)</p> <p>0.097 MPa (0.97 bar; 14 psi) @ 200°C (392°F)</p> <p>Maximum forward differential pressure:</p> <p>0.44 MPa (4.4 bar; 64 psi) @ 25°C (77°F)</p> <p>0.05 MPa (0.5 bar; 7.3 psi) @ 200°C (392°F)</p> <p>Maximum reverse differential pressure:</p> <p>0.35 MPa (3.45 bar; 50 psi) @ 25°C (77°F)</p> <p>Maximum operating temperature:</p> <p>200°C (392°F)</p>	
Extractables	Metallic	UCM: Testing conducted for 16 metals

## PERFORMANCE DATA

Trinzik XFX 10 nm AT Cartridge Filter

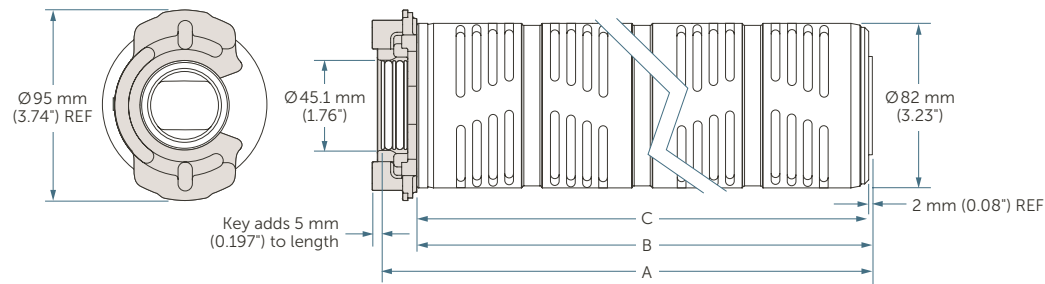


Trinzik XFX 10 nm ATE Cartridge Filter



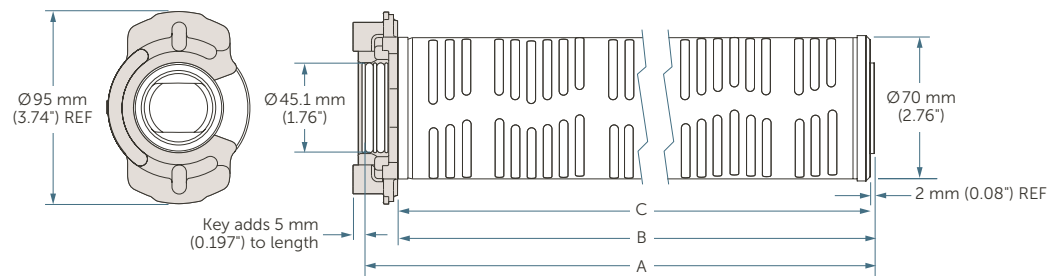
## DIMENSIONS

### Trinzik XFX ATE Cartridge Filters



Filter	A	B	C
10" ATE	244 mm (9.61")	227 mm (8.94")	225 mm (8.86")
20" ATE	471 mm (18.54")	454 mm (17.87")	452 mm (17.80")

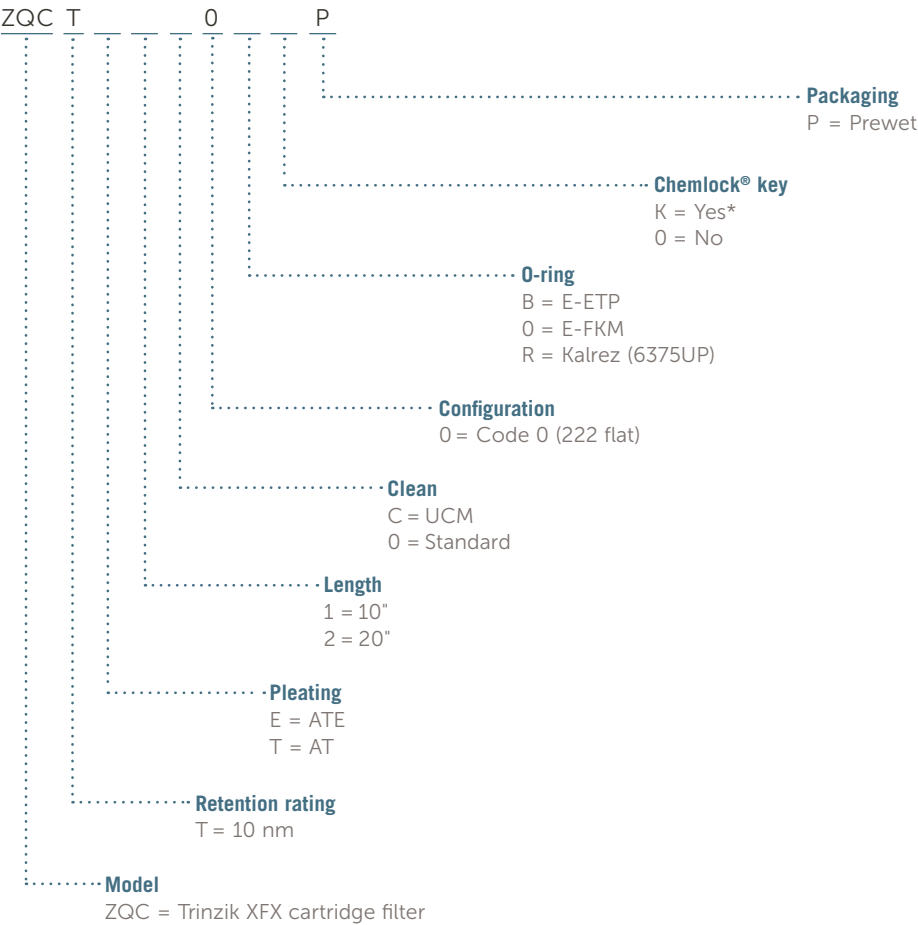
### Trinzik XFX AT Cartridge Filters



Filter	A	B	C
10" AT	262.3 mm (10.33")	245 mm (9.65")	243 mm (9.57")
20" AT	498.3 mm (19.62")	481 mm (18.94")	479 mm (18.86")

ORDERING INFORMATION

Trinzik XFX Cartridge Filters: part number



*\*Optional Chemlock key attached to cartridge for use with Chemlock housing only. Additional configurations may be available upon request. Contact your local Entegris sales representative for details.*

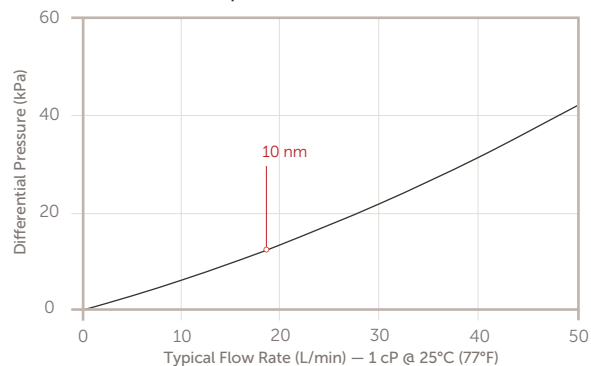
# Trinzik XFX Chem-Line™ I and Chem-Line II Disposable Filters

## SPECIFICATIONS

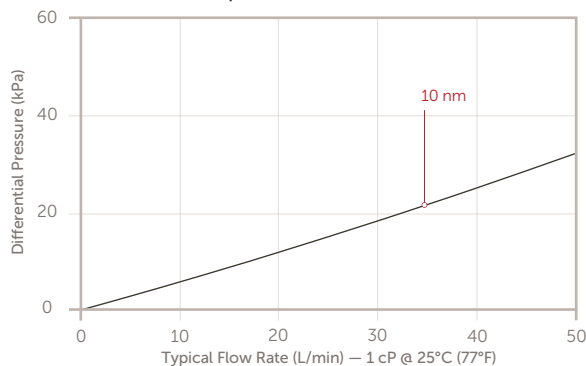
<b>Materials of construction</b>	Membrane	Prewet, nondewetting, PTFE
	Support, core, sleeve, shell	PFA
<b>Membrane area</b>	10" ATE	~2.2 m <sup>2</sup> (23.68 ft <sup>2</sup> )
<b>Cleanliness</b>	Standard/UCM	
<b>Connections</b>	Chem-Line I T-line, rotated vent	Super 300 Type Pillar® ¾" or 1" inlet/outlet; ½" vent/drain
	Chem-Line II In-line	Flaretek® ¾" or 1" inlet/outlet; ¼" vent/drain
<b>Maximum operating conditions</b>	<p>Maximum operating pressure:</p> <p>0.58 MPa (5.8 bar; 84 psi) @ 25°C (77°F)</p> <p>0.097 MPa (0.97 bar; 14 psi) @ 200°C (392°F)</p> <p>Maximum forward differential pressure:</p> <p>0.44 MPa (4.4 bar; 64 psi) @ 25°C (77°F)</p> <p>0.05 MPa (0.5 bar; 7.3 psi) @ 200°C (392°F)</p> <p>Maximum reverse differential pressure:</p> <p>0.34 MPa (3.4 bar; 49 psi) @ 25°C (77°F)</p> <p>Maximum operating temperature:</p> <p>200°C (392°F)</p>	
<b>Extractables</b>	Metallic	UCM: Testing conducted for 16 metals

## PERFORMANCE DATA

Trinzik XFX ATE 10" disposable filters ¾" I/O



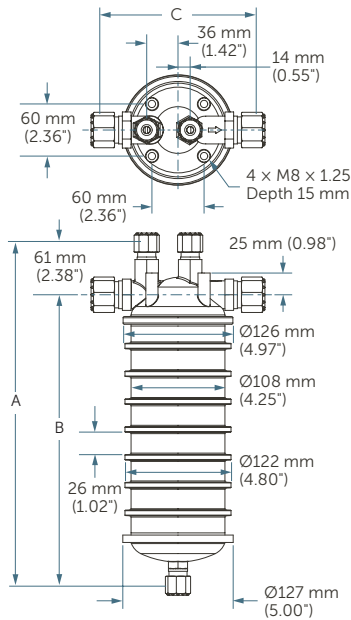
Trinzik XFX ATE 10" disposable filters 1" I/O



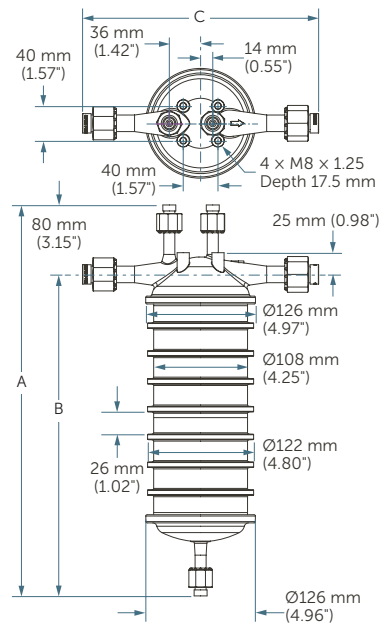
## DIMENSIONS

### Trinzik XFX 10 nm, 10" Chem-Line I Disposable Filter

**Chem-Line I T-line with Standard Vent  
(T02H, T42H)**



**Chem-Line I T-tube with Standard Vent  
(B02H, B02S, B02W, B022)**



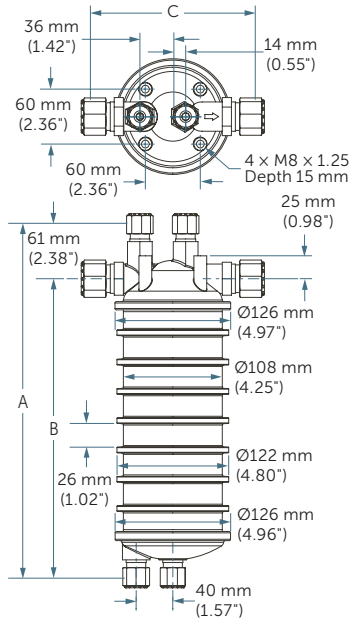
Disposable type	Length	Length A (overall height)	Length B (bottom fitting to centerline inlet fitting)	Length C (inlet to outlet)
<b>Nominal dimensions for Chem-Line I with standard vent (10" ATE) – T-line</b>				
T02H: 3/4" inlet/outlet; 1/2" vent/drain; Super Type Pillar® fittings	10"	396 mm (15.58")	335 mm (13.19")	180 mm (7.09")
<b>Nominal dimensions for Chem-Line I with standard vent (10" ATE) – B-line</b>				
B02S: 3/4" inlet/outlet; 1/2" vent/drain Super 300 Type Pillar fittings	10"	449 mm (17.69")	369 mm (14.53")	268 mm (10.55")

## DIMENSIONS (CONTINUED)

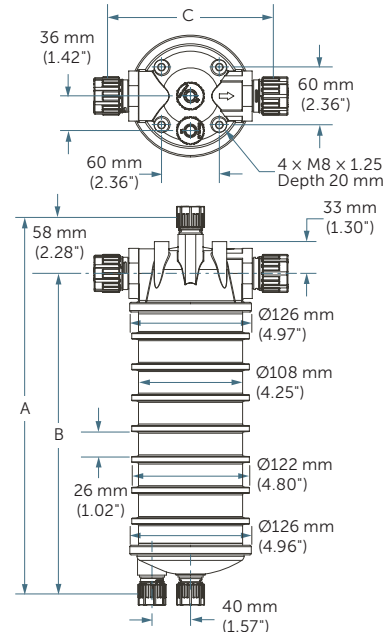
### Chem-Line I Disposable Filters with Core Vent and Core Vent (Rotated)

These drawings represent the Chem-Line I disposable filters with Core Vent and Core Vent (Rotated). Refer to the accompanying tables for specific dimensional information.

**Chem-Line I T-line with Core Vent  
(T02H, T42H, T02S)**



**Chem-Line I T-line with Core Vent (Rotated)  
(902S, 942S, 902L, 942L)**



Disposable type	Length	Length A (overall height)	Length B (bottom fitting to centerline inlet fitting)	Length C (inlet to outlet)
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#### Nominal dimensions for Chem-Line I with core vent (10" ATE) – T-line

T02S: 3/4" inlet/outlet; 1/2" vent/drain; Super 300 Type Pillar fittings	10"	383 mm (15.06")	324 mm (12.76")	172 mm (6.77")
T02H: 3/4" inlet/outlet, 1/2" vent/drain; Super Type Pillar fittings	10"	396 mm (15.58")	335 mm (13.19")	180 mm (7.09")

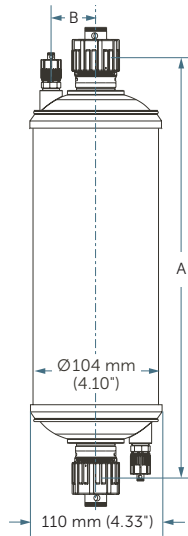
#### Nominal dimensions for Chem-Line I with core vent (rotated) (10" ATE) – T-line

902S: 3/4" inlet/outlet; 1/2" vent/drain; Super 300 Type Pillar fittings	10"	391 mm (15.37")	333 mm (13.11")	172 mm (6.77")
942S: 1" inlet/outlet; 1/2" vent/drain; Super 300 Type Pillar fittings	10"	391 mm (15.37")	333 mm (13.11")	182 mm (7.17")

## DIMENSIONS (CONTINUED)

### Chem-Line II Disposable Filters

This drawing represents the Chem-Line II disposable filters. Refer to the accompanying table for specific dimensional information.



Note:  
A = Overall height  
B = Centerline fitting length

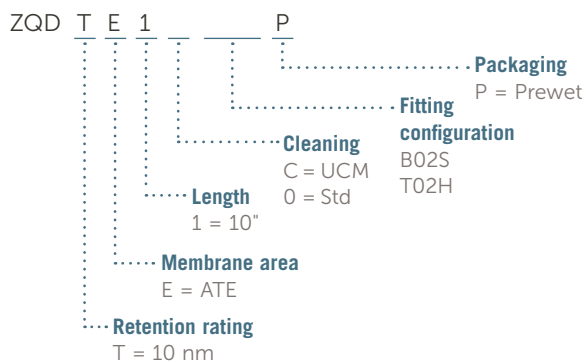
Nominal dimensions for Chem-Line II disposable filters

Inlet/ outlet	Vent/ drain	DIMENSIONS (10" FILTER)	
		A	B
Flaretek® fittings			
3/4"	1/4"	359 mm (14.13")	37 mm (1.46")
1"	1/4"	368 mm (14.47")	37 mm (1.46")
Super 300 Type Pillar fittings (male)			
3/4"	1/4"	341 mm (13.41")	37 mm (1.46")
3/4"	1/2"	349 mm (13.74")	41 mm (1.63")
1"	1/4"	383 mm (15.07")	37 mm (1.46")
1"	1/2"	380 mm (14.97")	41 mm (1.63")

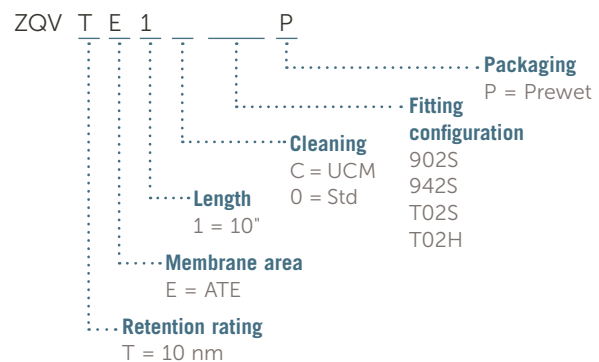
Note: A = Overall height; B = Centerline fitting length

## ORDERING INFORMATION

### Trinzik XFX Chem-Line I Disposable Filters with Standard Vent: part number



### Trinzik XFX Chem-Line I Disposable Filters with Core Vent and Core Vent (Rotated): part number



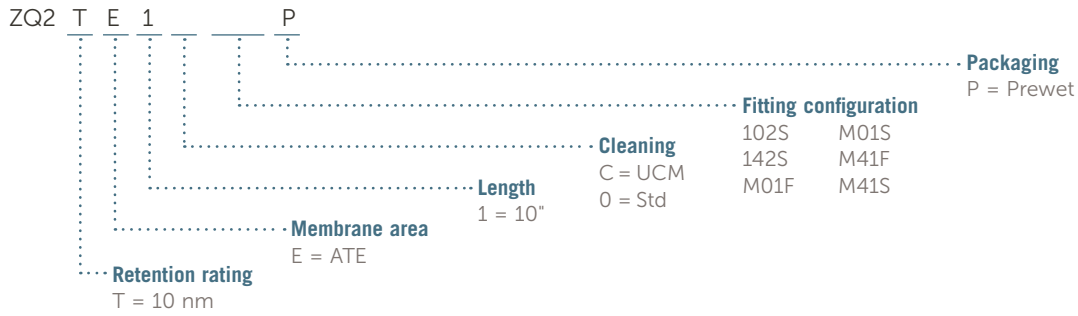
### Fitting key

Key	Configuration	Inlet/outlet	Vent/drain	Fitting
T02H	T-line standard vent/T-line core vent	3/4"	1/2"	Super Type Pillar
B02S	T-tube standard vent	3/4"	1/2"	Super 300 Type Pillar
T02S	T-line core vent	3/4"	1/2"	Super 300 Type Pillar
902S	T-line core vent (rotated)	3/4"	1/2"	Super 300 Type Pillar
942S	T-line core vent (rotated)	1"	1/2"	Super 300 Type Pillar



## ORDERING INFORMATION

Trinzik XFX Chem-Line II Disposable Filters: part number



\*Additional configurations may be available upon request.  
Contact your local Entegris sales representative for details.

### Fitting key

Key	Configuration	Inlet/outlet	Vent/drain	Fitting
102S	In-line offset	3/4"	1/2"	Super 300 Type Pillar
142S	In-line offset	1"	1/2"	Super 300 Type Pillar
M01F	In-line	3/4"	1/4"	Flaretek
M01S	In-line	3/4"	1/4"	Super 300 Type Pillar
M41F	In-line	1"	1/4"	Flaretek
M41S	In-line	1"	1/4"	Super 300 Type Pillar

### FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you.  
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