

CHEMEGA™ HIGH-EFFICIENCY PTFE FILTERS

PTFE FILTERS FOR LOW TEMPERATURE, HIGH-PURITY CHEMICAL FILTRATION

Cobetter Chemega™ filters are available with hydrophobic and hydrophilic highly efficient PTFE membranes to meet a wide range of high-purity chemical and solvent filtration applications.

This filter is highly compatible with most lower temperature, dilute semiconductor process chemistries and solvents. Chemega is available in a wide range of retention ratings and pore sizes to meet customer's requirements.

With its polypropylene cage, core, and high purity PTFE membrane, Chemega has low metal extractables and is a good filtration solution where high-purity and high particle removal is required. Chemega Hydrophilic PTFE membrane can be used to filter dilute acidic and alkaline chemistries, as well as polar solvents without pre-wetting.

FEATURE	BENEFIT
Polypropylene Cage/Core	Good chemical compatibility
	Low metal extractables
Hydrophilic PTFE membrane option	No prewetting
	Good performance in dilute HF solutions and some polar solvents
Prewet option	Reduces pre-operation time
	Easy start up with aqueous-based chemicals
100% integrity tested	Ensures highly efficient particle retention every time

SPECIFICATIONS

Filter media	Hydrophobic PTFE / Hydrophilic PTFE
Supports/core/cage/end caps	Polypropylene
O-rings (cartridge only)	TEV or EPDM
Shell (disposable only)	Polypropylene
Max. operating temperature	Cartridge: 90°C; Capsule: Please refer to ordering information
Capsule max. operating pressure	Please refer to ordering information
Cartridge max. differential pressure	Forward: 0.4 MPa (4.0 bar, 58 psi) at 25°C
	Reverse: 0.3 MPa (3.0bar, 43.5 psi) at 25°C



Typical Applications

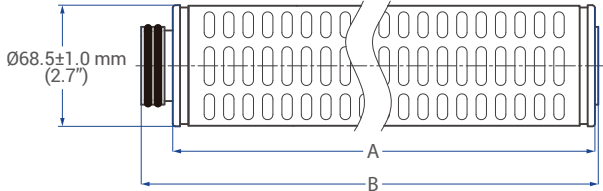
- PTFE Membrane: IPA and other solvents used in Flat Panel Display, Data Storage, and high-purity chemical manufacturing
- Hydrophilic PTFE Membrane: DI water, microelectronics wet etch and clean, and developer solutions

Effective filtration area

	X1	Z1
	ø68 mm (2.7")	ø83 mm (3.27")

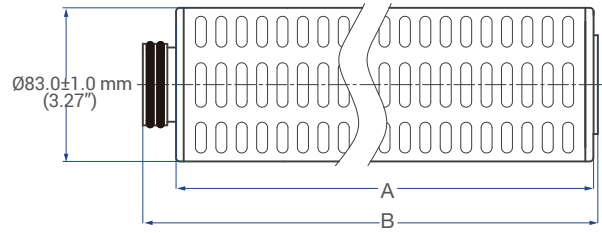
10"	0.8m ² (8.6ft ²)	1.4m ² (15.0ft ²)
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CHEMEGA X1 CARTRIDGE FILTERS (2-222/FLAT)



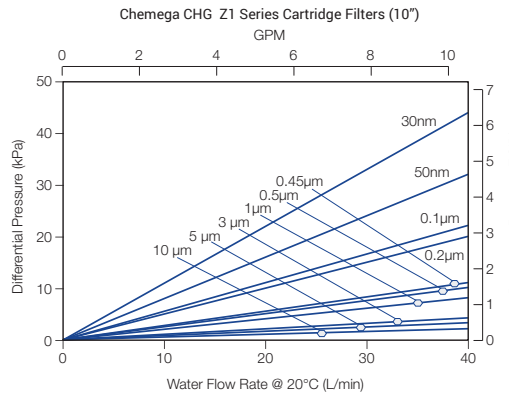
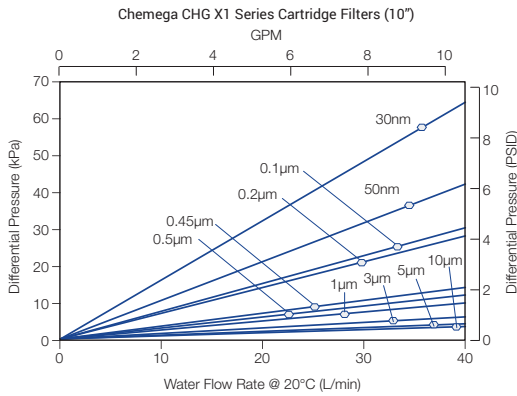
Length Code	A	B
04P	102.0 ±1 mm (4.0")	122.0 ±1 mm (4.8")
10	242.5 ±2 mm (9.5")	262.5 ±2 mm (10.3")
20	488.0 ±3 mm (19.2")	508.0 ±3 mm (20.0")
20C	478.0 ±3 mm (18.8")	498.0 ±3 mm (19.6")
30	731.5 ±4 mm (28.8")	751.5 ±4 mm (29.6")

CHEMEGA Z1 CARTRIDGE FILTERS (2-222/FLAT)



Length Code	A	B
10	225.0 ±2 mm (8.9")	245.5 ±2 mm (9.7")
20	452.0 ±3 mm (17.8")	472.5 ±3 mm (18.6")

CARTRIDGE FLOW RATES



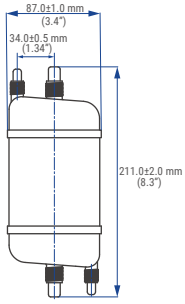
CARTRIDGE ORDERING INFORMATION¹

EXAMPLE: **CHGTZ1NM15OTC10PMW** = hydrophobic PTFE, 3.27"W, 15nm, 10" length, TEV O-rings, M grade, pre-wet

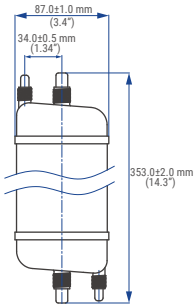
CHG	<input type="text"/>	<input type="text"/>	<input type="text"/>	OTC	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Membrane		Diameter		Removal Rating		Nominal Length	O-ring	Cleanliness	Package
T = Hydrophobic		X1 = ø68 (2.7")		NM07 = 7 nm		04 = 04"	P = TEV	M = < 25 µg/device	D = Dry
H = Hydrophilic		Z1 = ø83 (3.27")		NM10 = 10 nm		10 = 10"	E = EPDM	H = < 40 µg/device	W = Prewet, UPW
				NM15 = 15 nm		20 = 20"		E = Electronic grade	
				NM20 = 20 nm		20C = 20"			
				NM30 = 30 nm		30 = 30" (only X1 diameter)			
				NM50 = 50 nm					
				0010 = 0.1 µm					
				0020 = 0.2 µm					
				0050 = 0.5 µm					
				0100 = 1.0 µm					
				0300 = 3.0 µm					
				0500 = 5.0 µm					
				1000 = 10 µm					

¹Not all combinations of surface area options and removal ratings are available. Please contact Banner Industries with any questions about part number availability.

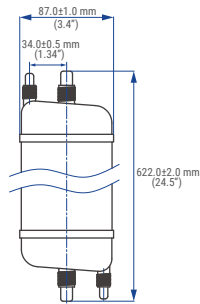
CHEMEGA CAPSULE FILTERS



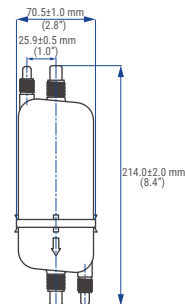
BFL64-4



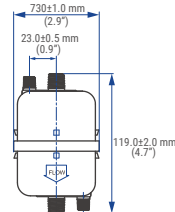
BFL64-10



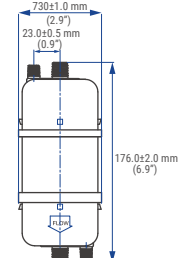
BFL64-20



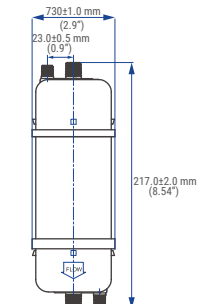
FL64



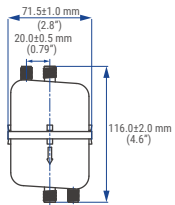
NPT42



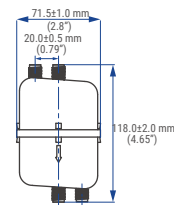
NPT742



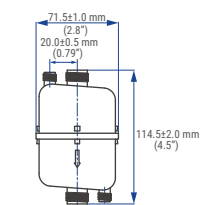
NPT942



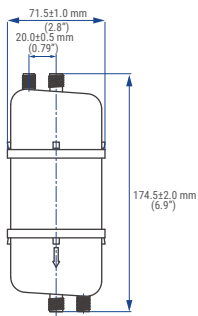
SW43



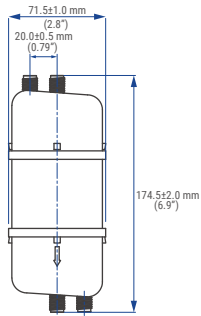
SW44



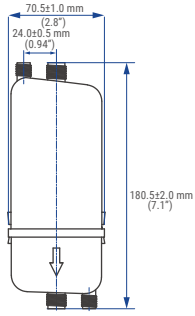
SW84



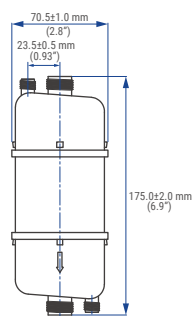
SW743



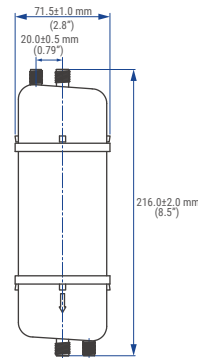
SW744



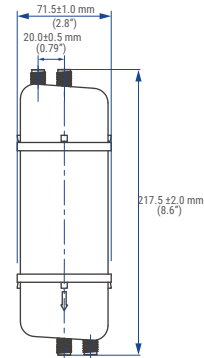
SW764



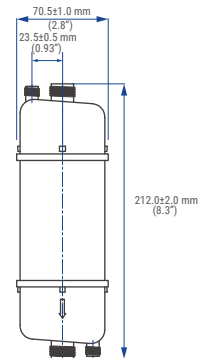
SW784



SW943



SW944



SW984

CHEMEGA CAPSULE ORDERING INFORMATION¹

EXAMPLE: **CHGHNM50SW44ED** = Hydrophilic, 50 nm, compression 1/4" IO, 1/4" VD, electronics grade, dry

CHG



Membrane

T = Hydrophobic
H = Hydrophilic 50 nm/0.1/0.2/0.5/1.0/3.0/5.0/10 µm



Removal Rating

NM07 = 7 nm 0010 = 0.1 µm
NM10 = 10 nm 0020 = 0.2 µm
NM15 = 15 nm 0050 = 0.5 µm
NM20 = 20 nm 0100 = 1.0 µm
NM30 = 30 nm 0300 = 3.0 µm
NM50 = 50 nm 0500 = 5.0 µm
 1000 = 10 µm



Cleanliness

M = < 25 µg/device
H = < 40 µg/device
E = Electronic grade



Package

D = Dry
W = Prewet, UPW

Connection Type	Inlet/Outlet	Vent/Drain	Lengths	Max. Operating Temp.	Max Operating Pressure
BFL64-4 = Flare Type	3/8"	1/4"	211 mm (8.3")	40°C	0.41 MPa@40°C
BFL64-10 = Flare Type	3/8"	1/4"	363 mm (14.3")		
BFL64-20 = Flare Type	3/8"	1/4"	622 mm (24.5")		
FL64 = Flare Type	3/8"	1/4"	214 mm (8.4")	60°C	0.51 MPa@38°C
NPT42 = NPT	1/4"	1/8"	119 mm (4.7")		
NPT742 = NPT	1/4"	1/8"	176 mm (6.9")		
NPT942 = NPT	1/4"	1/8"	217 mm (8.5")		
SW43 = Compression	1/4"	4 mm	116 mm (4.6")		
SW743 = Compression	1/4"	4 mm	174.5 mm (6.9")		
SW943 = Compression	1/4"	4 mm	216 mm (8.5")		
SW44 = Compression	1/4"	1/4"	118mm (4.6")		
SW744 = Compression	1/4"	1/4"	174.5 mm (6.9")		
SW944 = Compression	1/4"	1/4"	217.5 mm (8.6")		
SW84 = Compression	1/2"	1/4"	114.5 mm (4.5")		
SW784 = Compression	1/2"	1/4"	175 mm (6.9")		
SW984 = Compression	1/2"	1/4"	212 mm (8.3")		
SW764 = Compression	3/8"	1/4"	180.5 mm (7.1")		

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