



-> TO THE PRODUCT

CF34-BP-APB filter elements are used for the filtration of air and gases and are equipped with a hydrophobic PVDF membrane. Optionally, these elements can be supplied in a gamma-radiation-resistant version. Thanks to the wide range of capsule combinations with regard to sizes and connection types, a broad spectrum of applications is possible.

In addition to capsules, this product range also includes cartridge filter elements.

This membrane can therefore be used in a wide variety of applications and filter housings.

#### Key features

- Absolute retention rating
- Low differential pressure
- Effective removal of particles and bacteria
- Gamma-radiation resistant

#### Applications

- Venting and degassing of tanks and fermentation vessels
- Sterile filtration of compressed air, oxygen, and nitrogen

#### Biological safety

#### Endotoxins

The aqueous extract of the autoclaved filter contains <0.25 EU/ml, determined by Limulus Amebocyte Lysate (LAL), USP <85>.

#### Biocompatibility

- Complies with USP <87> in vitro cytotoxicity test
- Meets the criteria of USP <88> biological reactivity test for plastics, Class VI-121 °C

#### Food contact

The materials comply with the relevant requirements of FDA 21 CFR Part 177.2510 and 177.1520 for plastics, Class VI-121 °C.

#### Bacterial retention

These filter elements are validated in accordance with ASTM F838-05 for complete retention of 10<sup>7</sup> organisms/cm<sup>2</sup> of Brevundimonas diminuta.

#### TECHNICAL DATA

Filter medium:	Hydrophobe PVDF Membrane
Cage, end caps, housing:	Polypropylene
Gasket cartridges:	EPDM, Viton, Silikon, FEP coated
Gasket vent S / I / T:	Silicone
Micron rating:	0,2 µm
max. Working temperature:	80°C
max. differential pressure:	5,5 bar at 25°C 1 bar at 80°C

#### SURFACE AREA

S-Capsule		I-Capsule		T-Capsule		Cartridges	
SC01	0,029 m <sup>2</sup>	IC03	0,25 m <sup>2</sup>	TC10	0,75 m <sup>2</sup>	5"	0,375 m <sup>2</sup>
SC02	0,064 m <sup>2</sup>	IC05	0,375 m <sup>2</sup>	TC20	1,5 m <sup>2</sup>	10"	0,75 m <sup>2</sup>
SC03	0,1 m <sup>2</sup>	IC10	0,75 m <sup>2</sup>	D33	2,25 m <sup>2</sup>	20"	1,5 m <sup>2</sup>
SCD01	0,045 m <sup>2</sup>	IC20	1,5 m <sup>2</sup>			30"	2,25 m <sup>2</sup>
		IC30:	2,25 m <sup>2</sup>			40"	3,0 m <sup>2</sup>

#### INTEGRITÄTSTEST

	Bubble-Point	Water Flow Test
S, I		1,8 bar
D42, D50A, D50D	≥ 1,1 bar	1,8 bar
Cartridges		≤ 0,75L/min. at 1,8 bar

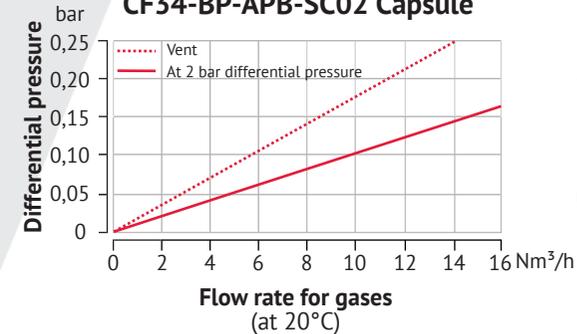
Wetting medium: 60% IPA, 40% Water | Test conditions: 20°C

#### STERILIZATION

	Autoklave (126°C) mit Option Gamma-Bestrahlung		Autoklave (130°C) mit Option Autoklavierbar		Gamma- irradiation	Steam-in-Place (SIP) 135°C	
	Cycles	Time	Cycles	Time		Cycles	Time
S / I / T	5	60 min	25	30 min	25-45kGy	-	-
SCD01	-	-	25	30 min	-	-	-
Cartridges	-	-	50	30 min	-	50	30 min



#### CF34-BP-APB-SC02 Capsule





#### Order information S-Capsule (Small)

CF34-BP-APB - [ ] - [ ] - [ ] - [ ]

Length		Inlet		Outlet		Sterilizing	
SC01	106 mm	K	14mm (9/16") TriClamp	K	14mm (9/16") TriClamp	A	Autoklave
SC02	136 mm	T	19mm (3/4") TriClamp	T	19mm (3/4") TriClamp	G	Gamma-Resistent
SC03	173 mm	F	31mm (1 1/4") TriClamp	F	31mm (1 1/4") TriClamp	S	Sterile
SCD01*	110 mm	B	6-13mm stepped hose barb	B	6-13mm stepped hose barb		
		L	3,2mm Hose barb	L	3,2mm hose barb		
		Y	9,6mm Hose barb	Y	9,6mm hose barb		
		H	13mm Hose barb	H	13mm hose barb		
		V	14mm Hose barb	V	14mm hose barb		

Note: TriClamp acc. to ISO 2852, Vent and drain: 6mm hose barb  
\* Only available with connection type BB

Order example: CF34-BP-APB-SC02-LL-G

#### Order information I-Capsule (Inline)

CF34-BP-APB - [ ] - [ ] - [ ] - [ ]

Length		Inlet		Outlet		Sterilizing	
IC02	142 mm	K	14mm (9/16") TriClamp	K	14mm (9/16") TriClamp	A	Autoklave
IC03	190 mm	T	19mm (3/4") TriClamp	T	19mm (3/4") TriClamp	G	Gamma-Resistent
IC05	233 mm	S	38mm (1 1/2") TriClamp	S	38mm (1 1/2") TriClamp	S	Sterile
IC10	347 mm	Y	9,6mm Hose barb	Y	9,6mm Hose barb		
IC20	585 mm	H	13mm Hose barb	H	13mm Hose barb		
IC30	838 mm	V	14mm Hose barb	V	14mm Hose barb		
		X	16mm Hose barb	X	16mm Hose barb		
		M	19mm Hose barb	M	19mm Hose barb		
		D	25mm Hose barb	D	25mm Hose barb		

Note: TriClamp acc. to ISO 2852, Vent and drain: 6mm hose barb

Order example: CF34-BP-APB-IC05-TT-S

#### Order information T-Capsule

CF34-BP-APB - [ ] - [ ] - [ ] - [ ]

Length		Inlet / Outlet		Gauge port		Sterilizing	
TC01	345 mm	SS	38mm (1 1/2") TriClamp	S	38mm (1 1/2") TriClamp	A	Autoklave
TC02	592 mm			T	19mm (3/4") TriClamp	G	Gamma-Resistent
TC03	845 mm	SM	Inlet 38mm (1 1/2") TriClamp Outlet 19mm Schlauchtülle	N	none	S	Sterile

Note: TriClamp acc. to ISO 2852, Vent and drain: 6mm hose barb

Order example: CF34-BP-APB-TC02-SS-N-A



Notes for „Sterilizing“

A = Elements autoclavable

G = Elements autoclavable and are Gamma-Resistent

S = Elements are delivered Gamma-sterilized

(They can not be sterilized again!)

#### Order information cartridges

CF34-BP-APB - [ ] - [ ] - [ ] - [ ]

Adapter		Length		Micron rating		Gasket	
1	DOE	05	5"	002	0,2 µm	1	EPDM
2	226/Flach	10	10"			2	Silicone
3	222/Flach	20	20"			4	Viton
7	226/Fin	30	30"			5	FEP coated
8	222/Fin	40	40"				

Order example: CF34-BP-APB-710-002-2