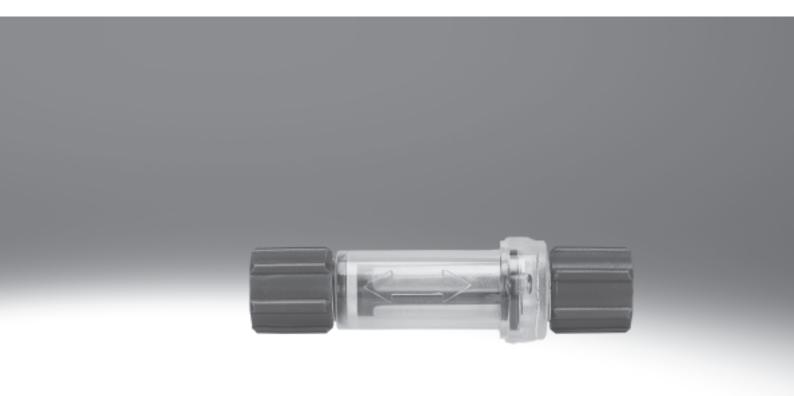
Vacuum filters

FESTO

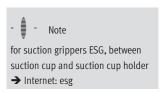


Technical data

Filters ESF

Function











General technical data							
Holder size		3	4A	4B			
Assembly position		Any					
Type of mounting	mounting In-line installation with threaded connection						
Vacuum connection		M4x0.7	M6x1				
Grade of filtration	[µm]	10					
Flow rate ¹⁾	[l/min]	100	260	270			

1) At a vacuum pressure of -0.75 bar

Operating and environmental conditions							
Holder size		3	4A	4B			
Operating pressure	[bar]	-0.95 +4					
Ambient temperature	[°C]	0 +60					
Corrosion resistance class CF	(C ¹⁾	1					

1) Corrosion resistance class 1 as per Festo standard 940 070 Components requiring low corrosion resistance Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Materials				
Housing	Aluminium, nickel-plated brass			
Filters	Polyvinylfluoride			
Seals	Nitrile rubber			
Material note	Free of copper and PTFE			

Weights [g]						
Holder size	3	4A	4B			
ESF	9	19	19			

Dimensions and ordering data Download CAD data → www.festo.com

D1	D2	D3	L1	L2	L3	Part No. Type
Ø		Ø				
25	M4x0.7	7.8	10.5	4.5	3.1	191 202 ESF-3
25	M6x1	8.8	10.5	5.5	3.9	191 203 ESF-4A
40	M6x1	8.8	14	5.5	3.9	191 204 ESF-4B

Technical data

Vacuum filters VAF-PK

Function



Note



The vacuum suction filter may only be used in open vacuum systems.





The vacuum suction filter serves for filtering dirt in the direction of suction.

It is inserted in the tubing as an inline filter.



General technical data						
Size		PK-3	PK-4	PK-6		
Operating medium		Atmospheric air				
Mounting position		Any				
Type of mounting	e of mounting In-line installation					
Pneumatic connection		PK-3 with locknut	PK-4 with locknut	PK-6 with locknut		
Grade of filtration	[µm]	50				
Vacuum filter flow	[l/min]	50.8	70	210		
Nominal size	[mm]	2	3	4.6		
Ejector pulse possibility	[bar]	≤8				

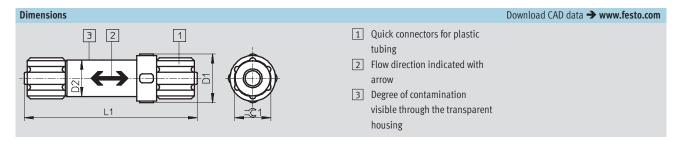
¹⁾ At vacuum pressure = -0.75 bar

Operating and environmental conditions							
Size		PK-3	PK-4	PK-6			
Operating pressure	[bar]	-0.95 0					
Ambient temperature	[°C]	0 +40					

Materials				
Housing	Polyamide			
Filter	Mesh / Polyamide			
Union nut	Polyacetate			
Note on materials	RoHS-conform			

Weights [g]						
Size	PK-3	PK-4	PK-6			
VAF	4	6	10			

Vacuum filters Technical data **FESTO**



Туре	D1 ∅	D2 Ø	L1	= ©1
VAF-PK-3	16	12	50.8	8
VAF-PK-4	16	12	57	12
VAF-PK-6	24	19	64	14

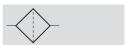
Ordering data	
Pneumatic connection	Part No. Type
PK-3	535 883 VAF-PK-3
PK-4	15 889 VAF-PK-4
PK-6	160 239 VAF-PK-6

3

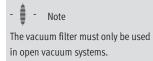
Technical data

Vacuum filters VAF-DB

Function











The vacuum filter is used to remove particles in the direction of suction. The filter cartridge is located in a transparent bowl in order to identify the degree of contamination of the $\,$ $filter\ cartridge.\ The\ filter\ cartridge\ can$ be replaced.



General technical data	General technical data							
Pneumatic connection		G½4	G3/8	G ¹ / ₂				
Operating medium		Atmospheric air						
Mounting position		Vertical						
Type of mounting		In-line installation						
		With wall/surface bracket						
Vacuum port		G1/4	G3/8	G ¹ / ₂				
Grade of filtration	[µm]	80						
Ejector pulse suitability	[bar]	<u> </u>						
Max. tightening torque	[Nm]	8.7	15.3	20.5				

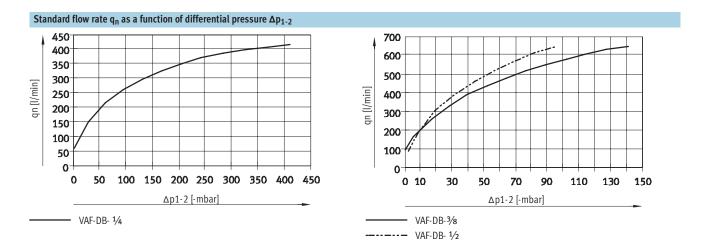
1) At vacuum =-0.75 bar

Operating and environmental conditions						
Pneumatic connection		G ¹ / ₄	G3/8	G ¹ / ₂		
Operating pressure	[bar]	-0.95 0				
Ambient temperature	[°C]	−5 +50				

Materials	
Housing	Reinforced polypropylene
Bowl	Polyamide
Filter	Polyethylene
Seals	Nitrile rubber
Note on materials	RoHS-compliant
	Contains PWIS (paint-wetting impairment substances)

Weights [g]			
Pneumatic connection	G ¹ / ₄	G3/8	G ¹ / ₂
VAF-DB	71	156	162

Technical data





Connection	B1	H1	H2	Part No. Type
D1				
1/4	75	94.5	84.5	547 261 VAF-DB- 1/4
3/8	90.5	125	113	553 140 VAF-DB-3/8
1/2	90.5	129	115	553 141 VAF-DB- ½

Accessories

Mounting bracket VAF-DB-HR

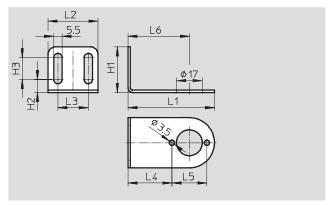
for vacuum filter VAF-DB

Type of mounting: Threaded Max. tightening torque: 0.63 Nm

Material: High-alloy stainless steel

Note on materials: RoHS-compliant Contains PWIS (paint-wetting impairment substances)





Dimensions and ordering data												
L1	L2	L3	L4	L5	L6	H1	H2	Н3	CRC ¹⁾	Weight	Part No.	Туре
										[g]		
57	33	20	29	23	40.5	30	8.5	14.5	2	27	553 144	VAF-DB-HR-1/8-1/4
80	53	35	37	33	53.5	50	13.5	24.5	2	92	553 145	VAF-DB-HR-3/8-1/2

1) Corrosion resistance class 2 according to Festo standard 940 070 Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Filter cartridge VAF-DB-P

for vacuum filter VAF-DB

Type of mounting: Plug-in

Material: Polyethylene

Note on material: RoHS-compliant Contains PWIS (paint-wetting impairment substances)



Ordering data	
	Part No. Type
Filter cartridge	553 142 VAF-DB-P-1/8-1/4
	553 143 VAF-DB-P-3/8-1/2