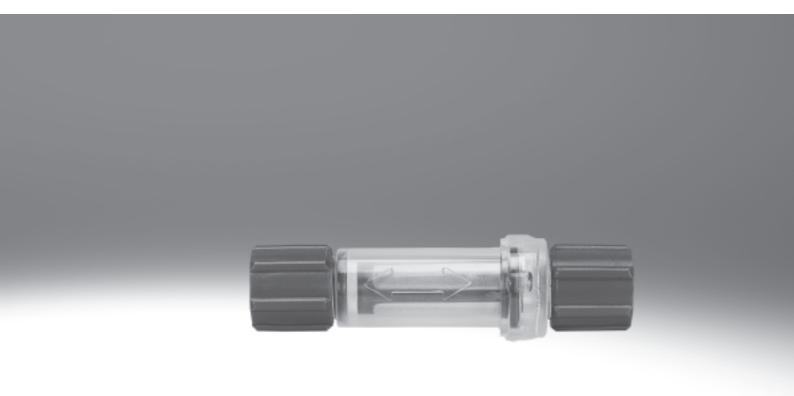
Vacuum filters

FESTO

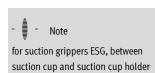


Technical data

Filters ESF

Function





→ Internet: esg







General technical data	General technical data						
Holder size		3	4A	4B			
Assembly position		Any					
Type of mounting In-line installation with threaded con			nection				
Vacuum connection M		M4x0.7	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 CRC ¹⁾		1				

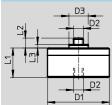
1) Corrosion resistance class 1 as per Festo standard 940 070 Components requiring low corrosion resistance Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Materials	
Housing	Aluminium, nickel-plated brass
Filters	Polyvinylfluoride
Seals	Nitrile rubber
Note on materials	RoHS-compliant
	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 Ø	D2	D3 Ø	L1	L2	L3	Part No. Type
25	M4x0.7	7.8	10.5	4.5	3.1	191202 ESF-3
25	M6x1	8.8	10.5	5.5	3.9	191203 ESF-4A
40	M6x1	8.8	14	5.5	3.9	191204 ESF-4B

Technical data

Vacuum filters VAF-PK

Function





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	General technical data						
Size		PK-3	PK-4	PK-6			
Operating medium		Compressed air in accordance with I	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]				
Mounting position		Any					
Type 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 ¹⁾	[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

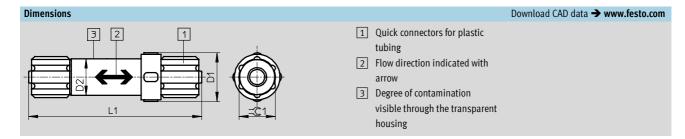
Operating and environmental conditions						
Size		PK-3	PK-4	PK-6		
Operating pressure	[bar]	-0.95 0				
Ambient temperature	[°C]	0 +40				

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

3

Technical data



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

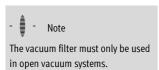
Ordering data	
Pneumatic connection	Part No. Type
PK-3	535883 VAF-PK-3
PK-4	15889 VAF-PK-4
PK-6	160239 VAF-PK-6

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						
Pneumatic connection		G1⁄4	G3/8	G ¹ / ₂		
Operating medium		Compressed air in accordance v	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]			
Mounting position		Vertical				
Type of mounting		In-line installation				
		With wall/surface bracket				
Vacuum port		G1//4	G3/8	G1/2		
Grade of filtration	[µm]	80				
Ejector pulse suitability	[bar]	≤7				
Max. tightening torque	[Nm]	8.7	15.3	20.5		

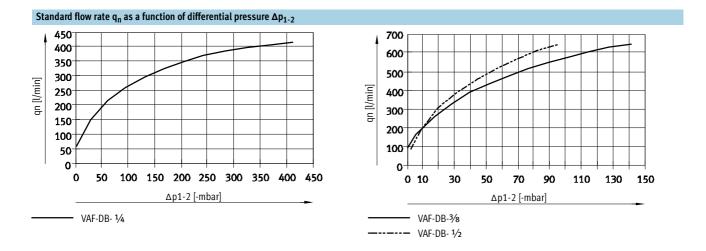
1) At vacuum =-0.75 bar

Operating and environmental conditions							
Pneumatic connection		G1/4	G3/8	G½			
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	G1/4	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	547261 VAF-DB- 1/4
3/8	90.5	125	113	553140 VAF-DB-3/8
1/2	90.5	129	115	553141 VAF-DB- ½

Accessories

Mounting bracket VAF-DB-HR

for vacuum filter VAF-DB

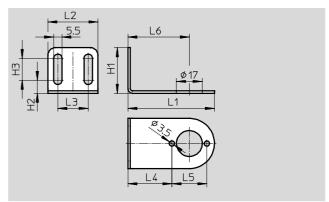
Type of mounting: Threaded Max. tightening torque: 0.63 Nm

Material:

High-alloy stainless steel

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





Dimen	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	553144	VAF-DB-HR-1/8-1/4
80	53	35	37	33	53.5	50	13.5	24.5	2	92	553145	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.	Туре
Filter cartridge	553142	VAF-DB-P-1/8-1/4
	553143	VAF-DB-P-3/8-1/2