



Technical data

Filters ESF

Temperature range 0 ... +60 °C

Function



Pressure -0.95 ... +4 bar



for suction grippers ESG, between suction cup and suction cup holder → Internet: esg

General technical data						
Holder size		3	4 <i>P</i>	A	4B	
Assembly position Any						
Type of mounting		In-line installation with threaded connection				
Vacuum connection		M4x0.7	M4x0.7 M6x1			
Grade of filtration	[µm]	10				
Flow rate ¹⁾	[l/min]	100	26	60	270	0

1) At a vacuum pressure of -0.75 bar

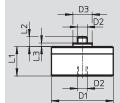
Operating and environmental conditions						
Holder size		3	4A	4B		
Operating pressure	[bar]	-0.95 +4				
Ambient temperature	[°C]	0 +60				
Corrosion resistance class CRC ¹⁾		1				

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/us/cad**

D1	D2	D3	L1	L2	L3	Part No. Type
Ø		Ø				
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

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Technical data

Vacuum filters VAF-PK

Function

Note



0 ... +40 °C

Temperature range

Pressure -0.9 ... 0 bar

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	РК-6		
Operating medium		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				

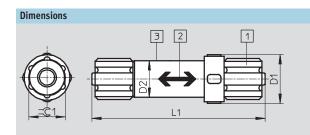
1) At vacuum pressure = -0.75 bar

Operating and environmental conditions						
Size		РК-3	PK-4	РК-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	РК-3	РК-4	РК-6			
VAF	4	6	10			

Technical data



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- 1 Quick connectors for plastic tubing
- 2 Flow direction indicated with arrow
- 3 Degree of contamination visible through the transparent
 - housing

Туре	D1 Ø	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.	Туре
РК-3	535883	VAF-PK-3
PK-4	15889	VAF-PK-4
РК-6	160239	VAF-PK-6

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Technical data

Vacuum filters VAF-DB

Function



Note

The vacuum filter must only be used in open vacuum systems.

Temperature range

−5 ... +50 °C

Pressure -0.95 ... 0 bar

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	G1⁄2			
Operating medium Compressed air in accordance with ISO 8573-1:2010 [7:-:-]							
Mounting position		Vertical	Vertical				
Type of mounting		In-line installation	In-line installation				
		With wall/surface brack	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			

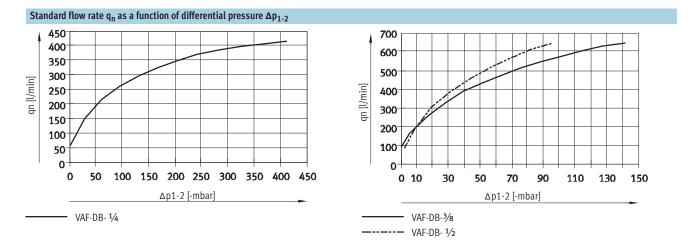
1) At vacuum =-0.75 bar

Operating and environmental conditions							
Pneumatic connection		G1/4 G3/8 G1/2					
Operating pressure	[bar]	-0.95 0					
Ambient temperature	[°C]	-5 +50					

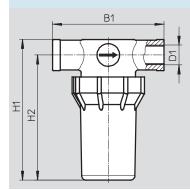
Materials	
Housing	Reinforced polypropylene
Bowl	Polyamide
Filter	Polyethylene
Seals	Nitrile rubber
Note on materials	RoHS-compliant
	Contains PWIS (paint-wetting impairment substances)

Weights [g]							
Pneumatic connection	G1⁄4	G3⁄8	G1⁄2				
VAF-DB	71	156	162				

Technical data



Dimensions and ordering data



Connection	B1	H1	H2	Part No. Type
D1				
1/4	75	94.5	84.5	547261 VAF-DB- ¼
3⁄8	90.5	125	113	553140 VAF-DB-3⁄8
1/2	90.5	129	115	553141 VAF-DB- 1/2

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Accessories

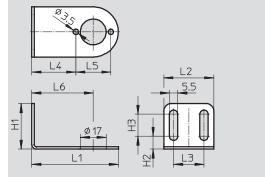
Mounting bracket VAF-DB-HR for vacuum filter VAF-DB

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

Dimensio												
L1	L2	L3	L4	L5	L6	H1	H2	H3	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

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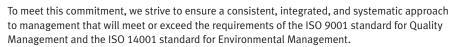
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