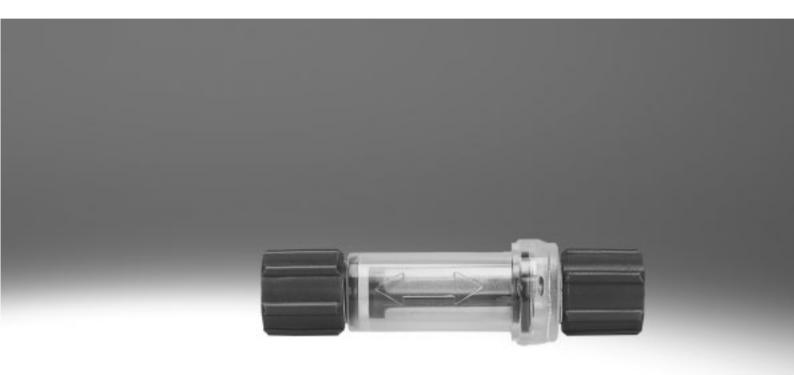
Vacuum filters

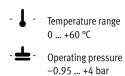




Vacuum filters ESF

Technical data





Accessory for the suction gripper ESG, mounted between suction cup holder and suction cup with connection attachments

→ Internet: esg



General technical data								
Classification of suction cup holders		Size 3	Size 4					
			For suction cup \varnothing 20 mm	For suction cup \varnothing 30/40/50 mm				
Pneumatic connection		M4	M6					
Vacuum port		M4	M6					
Mounting position		Any						
Type of mounting		With male thread via vacuum port	nread via vacuum port					
Grade of filtration	[µm]	10						
Flow rate ¹⁾	[l/min]	100	260	270				

1) At partial vacuum =-0.75 bar

Operating and environmental conditions

operating and environment										
Operating pressure	[bar]	-0.95 +4								
Operating medium		Atmospheric air based on ISO 8573-1:2010 [7:-:-]								
Ambient temperature	[°C]	0+60								
Corrosion resistance class CRC ¹⁾		1								

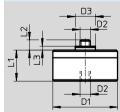
Corrosion resistance class CRC 1 to Festo standard FN 940070 1)

Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Matorials

materials							
Housing	Aluminium, nickel-plated brass						
Filters	PVF						
Seals	Nitrile rubber						
Note on materials	RoHS-compliant						
	Free of copper and PTFE						

Dimensions



Download CAD data → www.festo.com

Ordering data

oracimig aata									
Classification of suction cup holders	D1	D2	D3	L1	L2	L2	Weight	Part No.	Туре
	Ø		Ø				[g]		
Size 3	25	M4	7.8	10.5	4.5	3.1	9	191202	ESF-3
Size 4	25	M6	8.8	10.5	5.5	3.9	19	191203	ESF-4A
	40	M6	8.8	14	5.5	3.9	19	191204	ESF-4B

FESTO

1

1

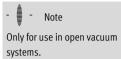
Vacuum filters VAF-PK

Technical data

FESTO

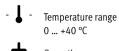
1





The vacuum filter is used to filter particles in the direction of suction. The vacuum filter is inserted as an inline filter in the tubing line. On initial

General technical data



Operating pressure
-0.95 ... 0 bar

installation any flow direction can be

chosen. After disassembly and install-

ation of the vacuum filter the original



flow direction must be kept. The fabric filter element is located in a transparent housing so that the degree of contamination of the filter cartridge can be identified. It is not possible to replace the filter.

General technical uata							
Pneumatic connection		PK-3 with union nut	PK-4 with union nut	PK-6 with union nut			
Nominal width	nal width [mm] 2		3	4.6			
Mounting position		Any					
Type of mounting		In-line installation					
Grade of filtration	[µm]	50					
Flow rate ¹⁾	[l/min.]	50.8	70	210			
Ejector pulse suitability	[bar]	≤8	·				

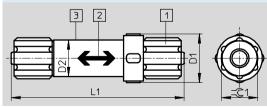
1) At partial vacuum =-0.75 bar

Operating and environmental conditions

- F										
Operating pressure	[bar]	-0.95 0								
Note on operating pressure		Only for use in open vacuum systems								
Operating medium		Compressed air to ISO 8573-1:2010 [7:-:-]								
Ambient temperature	[°C]	0 +40								

Materials						
Housing	PA					
Filters	Fabric, PA					
Union nut	POM					
Note on materials	RoHS-compliant					

Dimensions



1 Quick connector for plastic

tubing

2 Flow direction indicated with arrow

Download CAD data → www.festo.com

3 Degree of contamination visible through the transparent housing

Ordering data

Connection	D1	D2	L1	=© 1	Weight	Part No.	Туре
	Ø	Ø			[g]		
PK-3	16	12	50.8	8	4	535883	VAF-PK-3
PK-4	16	12	57	12	6	15889	VAF-PK-4
PK-6	24	19	64	14	10	160239	VAF-PK-6

Vacuum filters VAF-DB

Technical data

FESTO





Only for use in open vacuum systems.

The vacuum filter is used to filter particles in the direction of suction. The filter cartridge is located in a transparent bowl so that the degree of contamination of the filter cartridge can be identified. The filter cartridge can be replaced \rightarrow 6.

Temperature range −5 … +50 °C

Operating pressure -0.95 ... 0 bar

-

General technical data

General technical data								
Pneumatic connection		G1⁄4	G3⁄8	G1⁄2				
Vacuum port		G1⁄4	G1⁄2					
Mounting position		Vertical						
Type of mounting		In-line installation						
		Via wall/surface bracket → 6						
Grade of filtration	[µm]	80						
Ejector pulse suitability	[bar]	≤7						
Max. tightening torque	[Nm]	8.7	15.3	20.5				

Operating and environmental conditions

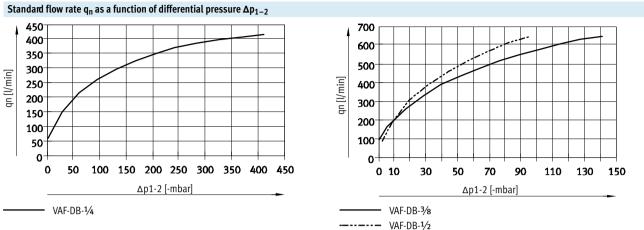
Operating pressure	[bar]	-0.95 0
Note on operating pressure		Only for use in open vacuum systems
Operating medium		Compressed air to ISO 8573-1:2010 [7:-:-]
Ambient temperature	[°C]	-5 +50

Materials

Housing	PP reinforced
Bowl	PA
Filters	PE
Seals	Nitrile rubber
Note on materials	RoHS-compliant
	Contains PWIS (paint-wetting impairment substances)

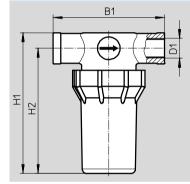
Vacuum filters VAF-DB

Technical data



Dimensions

1/2



90.5

Ordering data Weight H1 H2 Part No. Connection Β1 Туре D1 [g] 1/4 75 94.5 84.5 VAF-DB-1/4 71 547261 3⁄8 90.5 125 113 156 553140 VAF-DB-3/8

115

162

553141

VAF-DB-1/2

129

Download CAD data → www.festo.com

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Vacuum filters VAF-DB

Accessories

Mounting bracket VAF-DB-HR

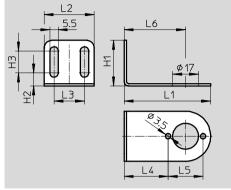
for vacuum filter VAF-DB

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

Materials: 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	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 CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmo-sphere typical for industrial applications.

Filter cartridge VAF-DB-P

for vacuum filter VAF-DB

Type of mounting: plug-in

Material: PE

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



Ordering data		
	Part No.	Туре
For vacuum filters VAF-DB	553142	VAF-DB-P-1/8-1/4
	553143	VAF-DB-P-3/8-1/2

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