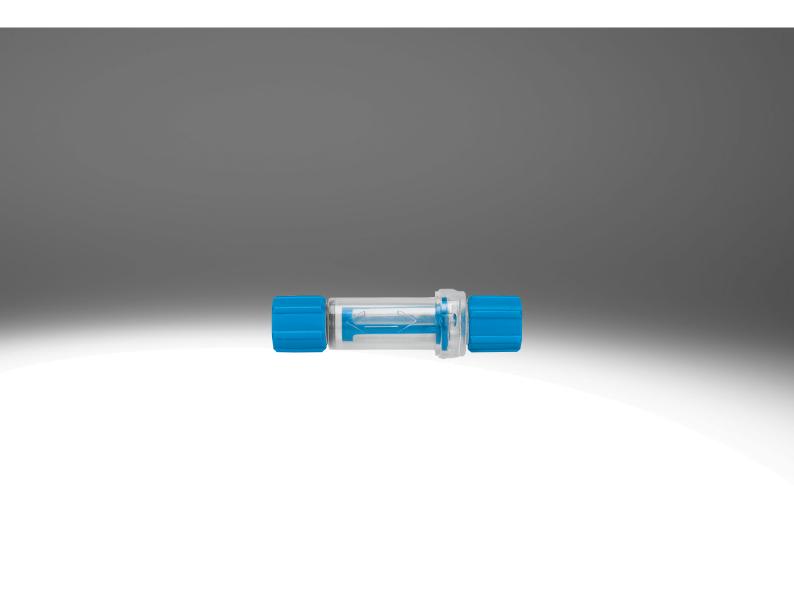
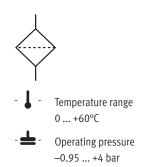
Vacuum filters

FESTO



Accessory for suction gripper ESG, mounting between suction cup holder and suction cup

→ Internet: esg





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

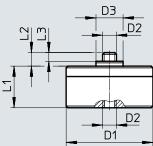
¹⁾ At negative pressure = -0.75 bar

Operating and environmental conditions					
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			

¹⁾ More information www.festo.com/x/topic/crc

Materials	
Housing	Aluminium, nickel-plated brass
Filter	PVF
Seals	NBR
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-A1-L

Dimensions

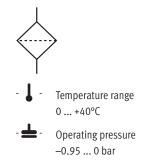


[3] [7]	D3 D2
A A †	
L	
<u> </u>	
	D1 D2

Ordering data									
Allocating suction cup holders	D1	D2	D3	L1	L2	L3	Weight	Part no.	Туре
	Ø		Ø				[g]		
Size 3	25	M4	7.8	10.5	4.5	3	9	191202	ESF-3
Size 4	25	M6	8.8	10.5	5.5	4	19	191203	ESF-4A
	40	M6	8.8	14	5.5	4	19	191204	ESF-4B

Download CAD data → www.festo.com

Vacuum filter with transparent housing for identifying the degree of contamination.



The vacuum filter is used to filter particles in the suction direction.

The vacuum filter is inserted as an inline filter in the tubing line. When first installed, any flow direction can be chosen. Once the vacuum filter has been removed and refitted, the original flow direction must be maintained.



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



Note

Only for use in open vacuum systems.

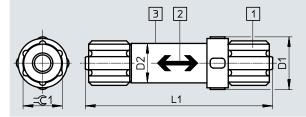
General technical data				
Pneumatic connection		PK-3 with union nut	PK-4 with union nut	PK-6 with union nut
Nominal width	[mm]	2	3	4.6
Mounting position		Any		
Type of mounting		In-line installation		
Grade of filtration	[µm]	50		
Flow rate ¹⁾	[l/min]	50.8	70	210
Ejector pulse suitability	[bar]	≤8		

1) At negative pressure = -0.75 bar

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]	0+40		

Materials	
Housing	PA PA
Filter	Fabric, PA
Union nut	POM
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Suitability for the production of Li-ion	Metals with more than 1% by mass of copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nick-
batteries	el-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.

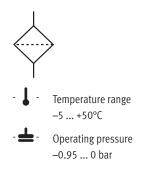
Dimensions



- Download CAD data → <u>www.festo.com</u>
- [1] Quick connector for plastic tubing
- [2] Flow direction indicated with arrow
- [3] Degree of contamination visible through the transparent housing

Ordering data								
Connection	For tubing O.D.	D1	D2	L1	= © 1	Weight	Part no.	Туре
		Ø	Ø			[g]		
PK-3	4	16	12	50.8	8	4	535883	VAF-PK-3
PK-3 PK-4	6	16 16	12 12	50.8 57	8 12	6	535883 15889	VAF-PK-3 VAF-PK-4

Vacuum filter with transparent bowl for identifying the degree of contamination.



The vacuum filter is used to filter particles in the suction direction.

The filter cartridge is located in a transparent bowl so that the degree of contamination of the filter cartridge can be determined. The filter cartridge can be replaced → page 7



- 🏺 - Note

Only for use in open vacuum systems.

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

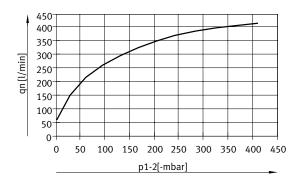
Operating and environmental conditions					
Operating pressure	[bar]	-0.95 0			
Note on operating pressure		Only for use in open vacuum systems			
Operating medium		Compressed air to ISO 8573-1:2010 [7:-:-]			
Ambient temperature	[°C]	-5 +50			

Materials	
Housing	Reinforced PP
Bowl	PA
Filter	PU
Seals	NBR
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364 zone III

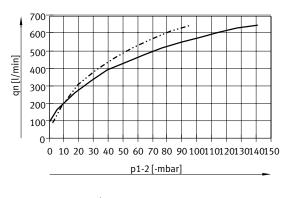
Download CAD data → www.festo.com

Datasheet

Standard flow rate q_n as a function of differential pressure $\Delta p_{1\text{--}2}$

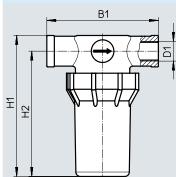


VAF-DB-1/4



VAF-DB-3/8 VAF-DB-1/2

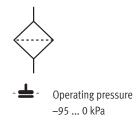
Dimensions

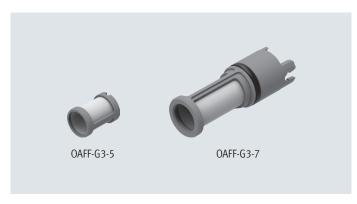


1 1						
Ordering data						
Connection D1	B1	H1	H2	Weight [g]	Part no.	Туре
1/4	75	94.5	84.5	71	547261	VAF-DB-1/4
3/8	90.5	125	113	156	553140	VAF-DB-3/8
1/2	90.5	120	115	162	5531/1	VAF-DR-1/2

Accessories for vacuum generators OVEL

→ Internet: ovel





General technical data						
Type of mounting		Push-on				
		Snap-in				
Grade of filtration	[µm]	40				
Ejector pulse suitability	[bar]	≤7				

Operating and environmental conditions						
Operating pressure [kPa]		-95 0				
	[bar]	-0.95 0				
	[psi]	-13.775 0				
Operating medium		Atmospheric air based on ISO 8573-1:2010 [7:-:-]				
Ejector pulse suitability [MPa]		0.7				
	[bar]	7				
	[psi]	101.5				

Materials		
Туре	OAFF-G3-5	OAFF-G3-7
Housing	POM	
Filter	Fabric, PA	
Seals	-	NBR
Note on materials	RoHS-compliant	
LABS (PWIS) conformity	VDMA24364-B1/B2-L	

Ordering data				
	Weight	Part no.	Туре	PU ¹⁾
	[g]			
For vacuum generator OVEL-5	1	8068944	OAFF-G3-5	10
For vacuum generator OVEL-7/10	1.5	8068945	OAFF-G3-7	10

¹⁾ Packaging unit

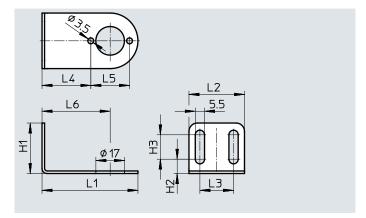
Accessories

Mounting bracket VAF-DB-HR

For vacuum filter VAF-DB

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





Dimension	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⁾ More information www.festo.com/x/topic/crc

Materials						
Mounting bracket	High-alloy stainless steel					
Note on materials	RoHS-compliant					
LABS (PWIS) conformity	VDMA24364 zone III					

Filter cartridge VAF-DB-P

For vacuum filter VAF-DB

Type of mounting: plug-in



Materials						
Filter	PU					
Note on materials	RoHS-compliant					
LABS (PWIS) conformity	VDMA24364 zone III					

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