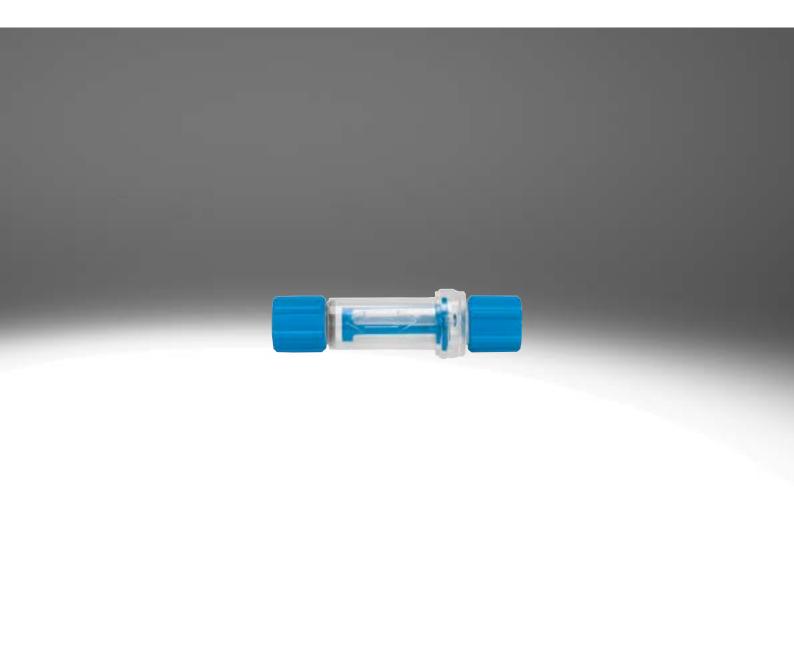
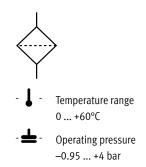
Vacuum filters

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			

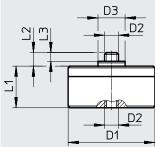
¹⁾ At negative pressure = -0.75 bar

Operating and environmental co	perating 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



] 1	D1 D2									
- 1	ering data cating suction cup holders	D1	D2	D3	L1	L2	L3	Weight	Part no.	Туре
70	cating saction cap notacis	ø	52	ø				[g]	- dit iioi	.,,,,

7.8

8.8

8.8

10.5

10.5

14

4.5

5.5

5.5

3

4

4

9

19

19

191202

191203

191204

ESF-3

ESF-4A

ESF-4B

25

25

40

M4

M6

M6

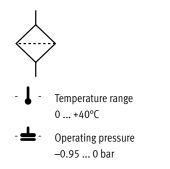


Download CAD data → www.festo.com

Size 3

Size 4

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.

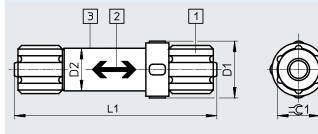
General technical data							
Pneumatic connection		PK-3 with union nut	PK-4 with union nut	PK-6 with union nut			
Nominal width	[mm]	2	3	4.6			
Mounting position		Any	·	·			
Type of mounting		In-line installation					
Grade of filtration	[µm]	50					
Flow rate ¹⁾	[l/min]	50.8	70	210			
Ejector pulse 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
Filter	Fabric, PA
Union nut	POM
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Dimensions



- [1] Quick connector for plastic tubing
- [2] Flow direction indicated with arrow

Download CAD data → www.festo.com

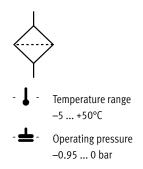
[3] Degree of contamination visible through the transparent housing

Ordering data	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-4	6	16	12	57	12	6	15889	VAF-PK-4		
PK-6	8	24	19	64	14	10	160239	VAF-PK-6		

Vacuum filter VAF-DB

Datasheet

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

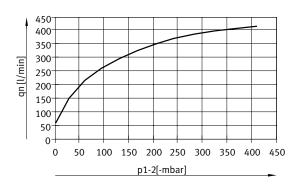
Only for use in open vacuum systems.

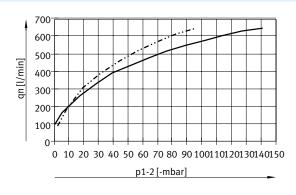
General technical data						
Pneumatic connection		G1/4	G3/8	G1/2		
Vacuum connection		G1/4	G3/8	G1/2		
Mounting position		Vertical	Vertical			
Type of mounting		In-line installation				
		Via wall/surface bracket → page 7				
Grade of filtration	[µm]	80	80			
Ejector pulse suitability	[bar]	≤7				
Max.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

Operating and environmental co	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 RoHS-compliant
LABS (PWIS) conformity	VDMA24364 zone III

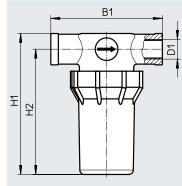
Standard flow rate q_n as a function of differential pressure $\Delta p_{1\text{--}2}$





Dimensions

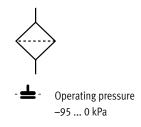
Download CAD data → www.festo.com



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	129	115	162	553141	VAF-DB-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		7				
	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				- 1
	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

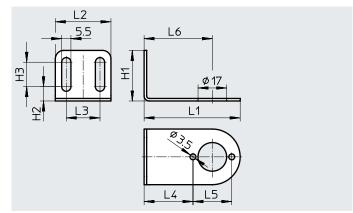
Accessories

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	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⁾ 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 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