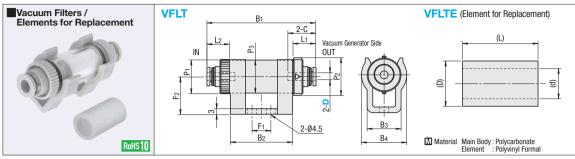
Vacuum Filters

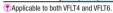
Vacuum Generators / Special Vacuum Filters / Fall Prevention Valves

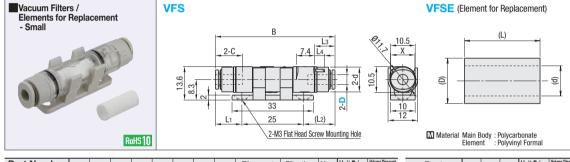
With Vacuum Release Function



Part Num	ber	Б	D.	Вз	В	L ₁	1.0	D,	Da	Do		E.	E	Filtration	Mass	Unit Price	Volume Discoun Rate
Туре	D	D1	D2	D 3	D 4	Li	L2	F1	F 2	F3	C	г	F2	Filtration Area (cm²)	(g)	1 ~ 9 pc(s).	10~20
VFLT	4	58	33	10	24	11.9	11.9	10 2	20	17.5	14.9	10	20	7.5	18		
VFLI	6	60	33	10	24	13	13	18.2	20	17.5	16	10	20	7.5	19		

t	Part Number	(D)	(d)	(L)	Unit Price 1 ~ 9 pc(s).	Volume Discoun Rate 10~20	
	VFLTE	12	8	20			





	Part Number		В	_	14	(L2)	1.0	L4	Ч	_	Element	Filtration	Mass	Unit Price	Volume Discount Rate	Part
	Type	D	В	٥	Li	(L2)	L3	L4	u	^	Length	Area (cm²)	(g)	1 ~ 9 pc(s).	10~20	Number
	VFS	4	48.5	11	10.8	12.7	8.2	4	10	9.8	15	2.0	5.1			VFSE
		6	53.4	11.6	13.2	15.2	10.6	4.5	10.5	11.8	10	2.8	6			VFSE

Part Number	(D)	(d)	(L)	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
VFSE	6	4	15		



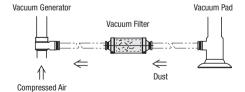
Ordering Part Number



Example

Plumbing Example

Plumbing between Vacuum Generator and Vacuum Pad removes dusts entering from



■ Specifications

Applicable Fluid	Air
Operating Temperature Range	0~60°C
Operating Pressure Range	-100~0kPa
Filtration Accuracy	10µm

Element Replacement

1)Turn plastic body B 45° counterclockwise*

How to Remove

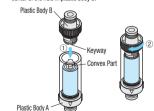
- 2 Pull out plastic body B.
- damage the plastic body.
- *Do not turn the plastic body B beyond 45°. It may
- ②Turn plastic body B 45° clockwise *1 to lock. *1.Do not turn the plastic body B beyond 45°. It may damage the plastic body.

How to Lock

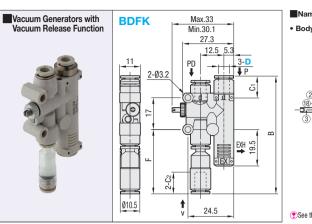
• When locking, be sure that the lug of plastic body A comes to the center of the hole in plastic body B.

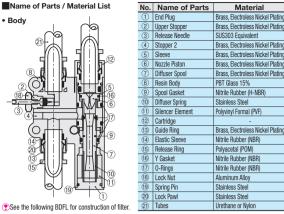
The Press-fit plastic body B completely to plastic body A. Be sure that

the lug of plastic body A aligns with the key slot in plastic body B.

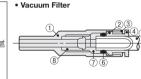


*2. Be sure that the vacuum generator is installed in the same direction as pointed by the \triangle mark. If installed reversely, the element inside will become dirty, making it impossible to know the proper time for maintenance.









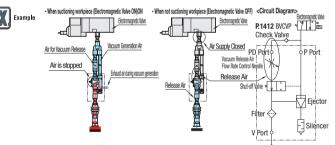
	No.	Name of Parts	Material
	1	Resin Body	Polypropylene (PP)
10	2	Lock Pawl	Stainless Steel
(5)	3	Guide Ring	Brass, Electroless Nickel Plating
6	4	Release Ring	Polyacetal (POM)
_	(5)	Tubes	Urethane or Nylon
	6	Elastic Sleeve	Nitrile Rubber (NBR)
	7	Element Presser	Polyacetal (POM)
	8	Filter Element	Polyvinyl Formal (PVF)

Part Num	ber	Suction Flow Rate	Б	-	C ₁	C ₂	Nozzle	Pressure	Ultimate	Flow Consumption	Mass	Unit Price	Volume Discount Rate	P
Type	D	(ℓ/min (ANR)) Selection	В	-	C1	C2	Dia. (mm)	Rating (MPa)	Vacuum (-kPa)	(ℓ / min(ANR))	(g)	1 ~ 9 pc(s).	10~20	Ope
BDFK	4	7	59.7	34.1	10.9	11	0.5	0.5	90	11.5	20.5			Оре
DUFK	6	12.5	62.9	34.4	11.7	11.6	0.7	0.5	92	23	21.5			_

unt	Applicable Fluid	Air
0	Operating Pressure Range	0.3~0.7MPa
ŭ	Operating Temperature Range	5 ~ 50°C
	Lubrication	Not Required

Part Nu	Part Number							Filtration	Unit Price	Volume Discount Rate
Туре	Tube Outer Dia. D	Applicable Fitting Dia. D ₁	В	L	С	Р	Mass (g)	Area (cm²)	1 ~ 9 pc(s).	10~20
BDFL	4	4	34.7	21.5	11.0	8.0	1.5	0.8		
DUFL	6	6	35.2	21.8	11.6	10.5	2.5	1.1		

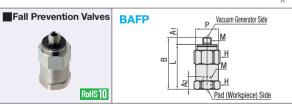
ount	Applicable Fluid	Air
	Operating Pressure Range	-100~0kPa
0	Filtration Accuracy	10µm
_	Operating Temperature Range	0~60°C
	Filtration Area	Joint Size 44: 0.8cm ²
	Filtration Area	Joint Size 66: 1.1cm ²











Name of Parts	M	Material								
Name of Parts	M4	M6								
Metal Body A	Stainless Steel	Brass, Electroless Nickel Plating								
Metal Body B	Brass, Electroless Nickel Plating	Aluminum, Electroless Nickel Plating								
Valve Body	Aluminum Alloy									
Stopper	Brass, Elect	roless Nickel Plating								
Spring		SUS304								
Filter	Polyvin	yl Formal (PVF)								
0-Rings	Nitrile	Nitrile Rubber (NBR)								
Gasket	SUS304 + I	Nitrile Rubber (NBR)								

				Thread Size	A1	A 2	Ь	Ī.	_	Width	Valve Operation Suction Flow Rate	Non-attached	Effective Secti	onal Area (mm²)	Mass	Unit Price	Volume Discount Rate	
Type	No.	М	AI	H2		_	_	H	(ℓ / min(ANR))		Free Flow	Control Flow	(g)	1 ~ 9 pc(s).	10~20			
BAFP	4	M4x0.7	3	4.5	19.9	16.9	10	10	5	2	1.63	0.09	7.9					
DAFP	6	M6x1 0	4	49	28 1	24 1	12	12	13	2	4.06	0.09	124					

ount	Specifications	
0	Applicable Fluid	Air
	Operating Pressure Range	Positive Pressure: 0 ~ 0.7MPa
		Negative Pressure: 0 ~ -100kPa
	Min. Operating Pressure	-7kPa
	Operating Temperature Range	0~60°C

■ Description of Fall Prevention Valve • Fall Prevention Valve Operating Condition



When a workpiece is detached from the vacuum pad, airflow pushes up the valve and shuts the air passage. During operation, the valve sucks small amount of air through a small

· While Holding Workpiece



When a workpiece is tightly stuck to vacuum pad, the suction flow is reduced and the spring inside pushes down the valve. As the result, the air passage between the valve and body opens.



