# Air Suction Filter With One-touch Fittings **ZFB** Series

Madal

Prevents vacuum equipment trouble due to solid foreign objects

Unrestricted 360° piping tube mounting on the IN side

Easily replaced filter element

Easy installation and removal with One-touch fittings

Light and compact molded resin parts

Cartridge type allows element replacement



Tubing size	Model	Port size (Applicable tubing O.D.)	Recommended air flow	Weight	Internal capacity
		IN side, OUT side	(L/min (ANR)) (1)	(g)	(cm <sup>3</sup> )
Metric size	ZFB100-04	ø4	10	22	7
	ZFB100-06	ø6	20	22	7
	ZFB200-06	ø6	30	30	12
	ZFB200-08	ø8	50	30	12
	ZFB300-08	ø8	75	39	16
	ZFB300-10	ø10	75	39	16
Inch size <sup>(2)</sup>	ZFB101-05	ø 3⁄16"	20	22	7
	ZFB101-07	ø 1⁄4"	20	22	7
	ZFB201-07	ø 1/4"	30	30	12
	ZFB301-11	ø 3/8"	75	40	16
	ZFB401-13	ø 1/2"	100	62	19

Note 1) Flow rate when initial pressure drop is 3 kPa or less Note 2) Will be manufactured upon receipt of order.

#### Specifications

Fluid Note 1)	Air, Nitrogen		
Operating pressure range Note 2)	-100 to 0 kPa		
Vacuum release pressure	Max. 0.5 MPa (Unable to hold when pressurized)		
Operating and ambient temperature range	0 to 60°C (No freezing)		
Filtration accuracy	30 µm (Filtration efficiency 95%)		
Element replacement differential pressure	20 kPa		
Applicable tubing material	Nylon/Soft Nylon/Polyurethane		

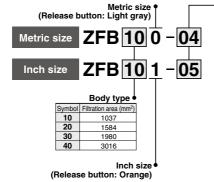
Note 1) Do not use the product in an atmosphere and place where there is direct contact with chemicals. It may cause damage to the body. (Alcohol, acetone, etc. also cause damage, so be sure for the product not to be close to them.)

Note 2) Do not use it in a line that is kept pressurized because it could cause the body to break.

ZFA
ZFB
ZFC

RoHS

#### How to Order



#### Applicable tubing size

#### Metric size

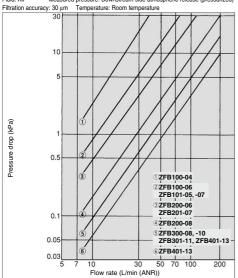
Symbol	Bore	Applicable model				
Symbol	size	ZFB10	ZFB20	ZFB30		
04	ø4	•	_	—		
06	ø6	•	•	—		
08	ø8	—	•	•		
10	ø10	_	-	•		

Inch size

Symbol	Bore	Applicable model			
Symbol	size	ZFB10	ZFB20	ZFB30	ZFB40
05	ø 3⁄16"	•	_	—	-
07	ø 1⁄4"	•	•	_	_
11	ø 3⁄8"	—	—	•	_
13	ø 1/2"	_	_	—	•

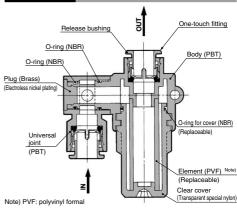
# ZFB Series

#### **Flow Rate Characteristics**



Fluid: Air Measured pressure: Downstream side atmospheric release (pressurized)

## Construction

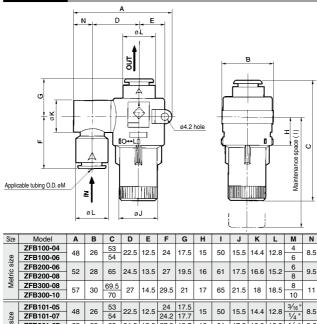


#### **Replacement Element Part No.**

Part	Applicable filter	Element size	Set description		
no.	model	mm	Element	O-ring for cover	
I-34S-A	ZFB100, ZFB101	ø10 x ø6 x L33	10 pcs.	10 pcs.	
I-35S-A	ZFB200, ZFB201	ø12 x ø8 x L42	10 pcs.	10 pcs.	
I-36S-A	ZFB300, ZFB301	ø14 x ø10 x L45	10 pcs.	10 pcs.	
I-39S-A	ZFB401	ø16 x ø14 x L60	10 pcs.	10 pcs.	

Note) Elements and O-rings for the cover are sold in sets of 10 pieces each.

#### Dimensions



27.2 19.7

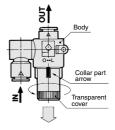
16 61

34 87.5 30.5 16.5 34 24 21.5 81 25.6 23 21.7 1/2 13.5

#### Element Replacement

- 1. Stop the operation and reduce the internal pressure of the filter to atmospheric pressure.
- 2. Turn the transparent cover in counterclockwise direction and position the arrowhead of the collar in the transparent cover from the protruding in the "L" (LOCK) side to the protruding portion in the "O" (OPEN) side.
- 3. Pull the transparent cover downward to take out the element. Eliminate any dust in the transparent cover by blowing air. (Make sure there is no damage of the O-ring.)
- 4. Insert a new element into the body.
- 5. Set the arrowhead on the collar of the transparent cover to the protruding portion on the "O" side, push the transparent cover into the body and set the arrowhead from the protruding portion on the "O" side to the protruding portion on the "L" side to make the LOCK complete.
- 6. Restart operation.

## **Element Replacement Procedure**



Inch 280

ZFB201-07

ZFB301-11

ZFB401-13

52 28 65 24.5 13.5

57 30 70 27 14.5 30.2 21.7 17 65 21.5

64.5

**SMC** 

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

17.5 16.6 15.2

18 18.5 1/4 " 9.5

3/8

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