Air Suction Filter With One-touch Fittings Series ZFB

Prevents vacuum equipment trouble due to airborne contaminants.

Unrestricted 360° piping tube mounting

The connector for the IN side is a universal joint type that enables a tube to be connected in any direction within 360°.

Easily replaced filter element

The filter element can be replaced quickly through One-touch removal of the transparent cover without having to disconnect the tubing.

One-touch tube installation and removal

The metric size tube connector has a blue release bushing and the inch size tube connector has a red release bushing.

Lightweight and compact

It has been made compact with composite formed resin.



Part No. of Element

Part No.	Applicable filter model	Element size (mm)
I-34S	ZFB100	ø10 X ø6 X L33
1-345	ZFB101	Ø 10 X Ø6 X L33
I-35S	ZFB200	ø12 X ø8 X L42
1-333	ZFB201	Ø 12 A Ø 6 A L42
I-36S	ZFB300	ø14 X ø10 X L45
1-303	ZFB301	Ø14 X Ø10 X L45
I-39S	ZFB401	ø18 X ø14 X L60

Note) Place a "-A" at the end of the part number when ordering spare elements. 10 spare elements and 10 O rings are included in one set. Example) I-34S-A

Model

	Model	Port size (Applicable tube O.D.)	Recommended	Weight
	iviodei	IN side, OUT side	air flow e/min (ANR)(1)	g
	ZFB100-04	ø4	10	22
	ZFB100-06	ø6	20	22
Metric size	ZFB200-06	ø6	30	30
Metric Size	ZFB200-08	ø8	50	30
	ZFB300-08	ø8	75	39
	ZFB300-10	ø10	75	39
	ZFB101-05	ø ³ / ₁₆ "	20	22
	ZFB101-07	ø ¹ / ₄ "	20	22
Inch size (2)	ZFB201-07	ø ¹ / ₄ "	30	30
	ZFB301-11	ø ³ / ₈ "	75	40
	ZFB401-13	ø ¹ /2"	100	62

Note 1) Flow rate is less than 0.003MPa of the initial pressure drop.

Note 2) Will be manufactured upon receipt of order.

Note 3) Avoid use under pressurization.

Specifications

Fluid	Air/Nitrogen
Operating pressure	Negative pressure
Proof pressure	0.5MPa
Operating and ambient range	0 to 60°C (Non-freezing)
Filtration	30μm
Element proof pressure differential	0.15MPa
Applicable tube material (1)	Nylon/Soft Nylon/Polyurethane



Note 1) Refer to p.3.8-6 for applicable tube model.

How to Order

ZFB 100 04

Basic

Air suction filter with One-touch fittings

	Symbol	Flow &min (ANR)
Metric size	100	MAX.20
(Release button:)	200	MAX.50
Light grey	300	MAX.75
Inch size	101	MAX.20
	201	MAX.30
Release button: Orange	301	MAX.60
(button: Orange)	401	MAX.100

IN/OUT applicable tube O.D.

	Symbol	Tube size	Model
	04	ø4	ZFB100
ze	06	ø6	ZFB100
Si		ا مه	ZFB200
Metric size	08	ø8	ZFB200
		WO	ZFB300
	10	ø10	ZFB300
	05	ø ³ /16 ["]	ZFB101
ze	07	ø ¹ / ₄ "	ZFB101
Inch size	07	Ø·/4	ZFB201
	11	ø ³ / ₈ "	ZFB301
	13	ø ¹ / ₂ "	ZFB401

Component Parts

Material
Polyester
Transparent special nylon
Polyester
Brass (Electroless nickel plated)
PVF
NBR

Air Suction Filter with One-touch Fittings/Series **ZFB**

Application Example

Field Semiconductor/Electronics Related Industry, Automobile Assembly, Food Industry, Medical Instruments, General Assembly Machines

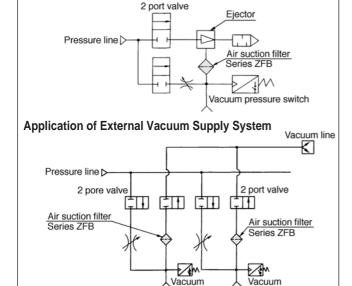
Machines Robeot Hand/Material Handing, Automatic Assembly machine, Automatic Transport Machine, Pick And Place,

Printing

Functions Vacuum Adsorption Transporting, Vacuum Adsorption

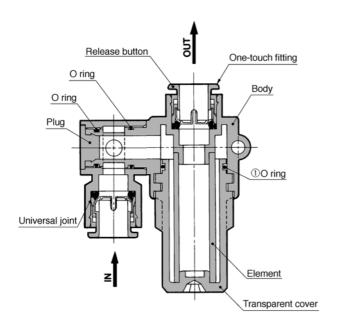
Affixing, Vacuum Generated Air Flow

Application of Ejector System



pressure swotch

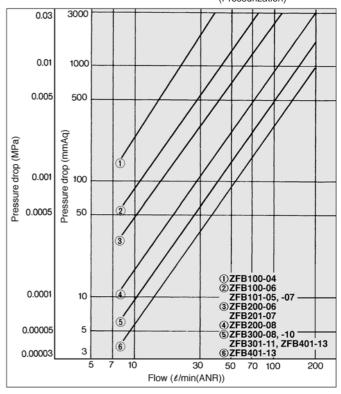
Construction



No	Description		Part	No.	
No.	Description	ZFB100/101	ZFB200/201	ZFB300/301	ZFB401
1)	O ring for trans parent cover	S11.2	S12.5	S16	S18

^{*}O ring is a set with spare element.

Flow Characteristics (Piping Tube: Metric size, Inch size)



⚠ Precaution

Be sure to read before handling.

Refer to p.0-20 and 0-21 for Safety Instructions and common precautions on the products mentioned in this catalogue, and refer to p.3.0-2 for precautions on every series.

Mounting

①To connect the tube to the IN and OUT One-touch fitting, observe the precautions that are provided for using One-touch fittings.

⚠ Caution

①Verify the ">" marks for IN and OUT that are indicated on the body to ensure a proper connection. It is not possible to ensure the sealing performance of the filter element if the connections are reversed.

Maintenance

① If the filter element becomes clogged, stop operation. After the internal pressure in the filter has reached atmospheric pressure, clean or replace the filter element

🔼 Caution

Replace the filter element when the pressure drops approximately 0.02 MPa. During disassembly or reassembly, make sure that the O ring is not cut or damaged.

Selection

⚠ Warning

① Do not use it in a line that is kept pressurized because it could cause the body to break.



ZX

ZR

ZM

ZY

ZH

ZU

ZL

ZP

ZCU

CYV

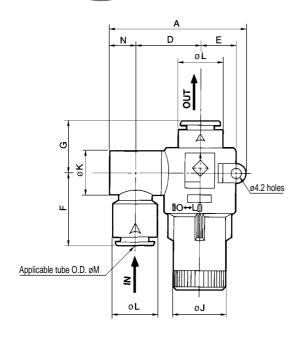
Vacuum

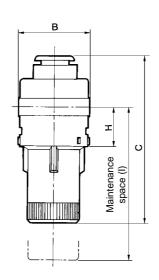
related

Series **ZFB**



Dimensions



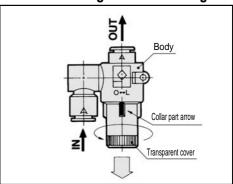


	Model	Α	В	С	D	E	F	G	Н	ı	J	K	L	M	N
	ZFB100-04	48	26	53	22.5	12.5	24	17.5	15	ΕO	15.5	14.4	12.8	4	0.5
ze	ZFB100-06	40	20	55	22.5	12.5	24	17.5	15	50	15.5	14.4	12.0	6	8.5
Metric size	ZFB200-06	52	28	65	24 5	13.5	27	19.5	16	61	17 5	16.6	15.2	6	9.5
Ĕ	ZFB200-08	52	20	00	24.5	13.5	21	19.5	10	01	17.5	10.0	15.2	8	9.5
ž	ZFB300-08	57	30	69.5	27	14.5	29.5	21	17	65	21.5	18	18.5	8	11
	ZFB300-10	57	30	69.5	21	14.5	29.5	21	17	00	21.5	10	10.5	10	
	ZFB101-05	40	00	53	00.5	40.5	24	17.5	45	50	45.5	444	40.0	3/16"	0.5
ze	ZFB101-07	48	26	54	22.5	12.5	24.2	17.7	15	50	15.5	14.4	12.8	1/4"	8.5
-S	ZFB201-07	52	28	65	24.5	13.5	27.2	19.7	16	61	17.5	16.6	15.2	1/4"	9.5
Inch size	ZFB301-11	57	30	70	27	14.5	30.2	21.7	17	65	21.5	18	18.5	3/8"	11
	ZFB401-13	64.5	34	87.5	30.5	16.5	34	24	21.5	81	25.6	23	21.7	1/2"	13.5

Element Changing Procedure

- 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 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 the operation.

Element Exchange Procedure Diagram



Related Products/Tubing: Nylon, Soft Nylon, Polyurethane

How to Order/Tubing

Use the kind of tubing indicated at the right for suction filter with One-touch fitting (Series ZFB).



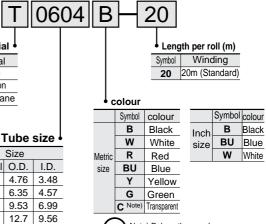
Refer to p.2.4-1 to 2.4-3 in Best Pneumatics 4 for details.



				Tu	be Material
	Symbol	Material		Symbol	Material
Matria	Т	Nylon	Inch	TI	Nylon
Metric size	TS	Soft nylon	size	TIS	Soft nylon
3126	TU	Polyurethane	3126	TIU	Polyurethane

		Size		
	Symbol	_	<u> </u>	
	Cymbol	O.D.	I.D	
	0425	ø4	ø2.5	
	0604	ø6	ø4	
Metric	0805	ø8	ø5	
size	0806	ø8	ø6	
	1065	ø10	ø6.5	
	1075	ø10	ø7.5	

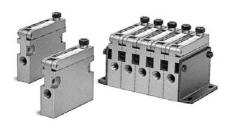
		Cumbal	Size						
		Symbol	Nominal	O.D.	I.D.				
5		A05	3/16"	4.76	3.48				
_		A07	1/4"	6.35	4.57				
_		A11	3/8"	9.53	6.99				
;	Inch	A13	1/2"	12.7	9.56				
5	size	B05	3/16"	4.76	3.18				
5		B07	1/4"	6.35	4.23				
		B11	3/8"	9.53	6.35				
		B13	1/2"	12.7	8.46				



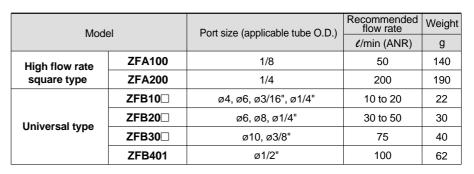
Air Suction Filter

Series **ZFA/ZFB**

Models



ZFA100



Specifications



Note) Do not use series ZFB in a line where a pressurized condition is maintained, since the body may be damaged.

Fluid	Air, Nitrogen
Operating pressure	Negative pressure
Withstand pressure	0.5MPa
Operating and ambient temperature range	0 to 60°C (with no freezing)
Filtration degree	30μm
Element differential pressure resistance	0.15MPa
Applicable tubing material	Nylon, Soft nylon, Polyurethane, Soft polyurethane

ZFB