

Vacuum Filter

AFJ Series

RoHS

Prevents vacuum equipment trouble!

Nominal
filtration
rating

5,40,80 μm

Large
flow
capacity

Max. **660** L/min
(ANR)

* Large flow type ($\Delta P=4 \text{ kPa}$)

- Elements can be reused by washing them.
 - For 40 μm and 80 μm
- Water drops can be removed.*
 - Water drop removal ratio: 80%. At recommended flow rate (representative values).
 - For water drop removal type



Better environmental resistance
with 2 layer construction



Material: Polycarbonate

Model	Flow rate [L/min (ANR)]						Nominal filtration rating [μm]
	100	200	300	400	500	600	
	1/8	1/4	3/8	1/2			
AFJ20							5, 40, 80
AFJ30							5, 40, 80
AFJ40							5, 40, 80

Large flow type ($\Delta P=4 \text{ kPa}$)

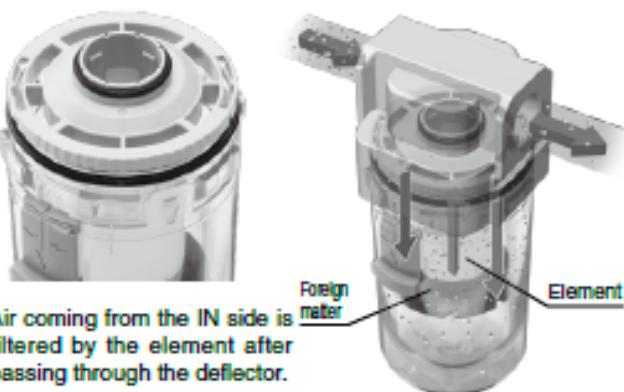
SMC

* Body size 30 or more

There are no windows on the bowl guard and the inner bowl is instead covered with a polycarbonate transparent bowl guard. Now, even if the environment changes and the bowl is exposed to corrosive chemical or oil splash, the foreign matter will not stick directly to the pressurized bowl. This can reduce risk of bowl breakage.

2 types are available for different applications.

Large flow type



Water drop removal type



Selectable filtration rating



Easy to handle

The element and the bowl are in one piece.
Replacement can be done in hand.



Superior visibility: 360°

Use of a transparent bowl guard makes it possible to check the element inside the case from the entire periphery.



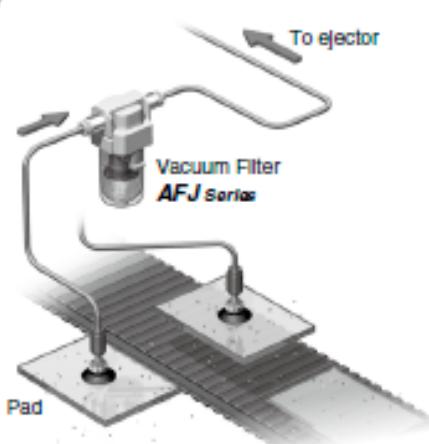
Metal related corrosion does not occur.

Resin body does not rust.

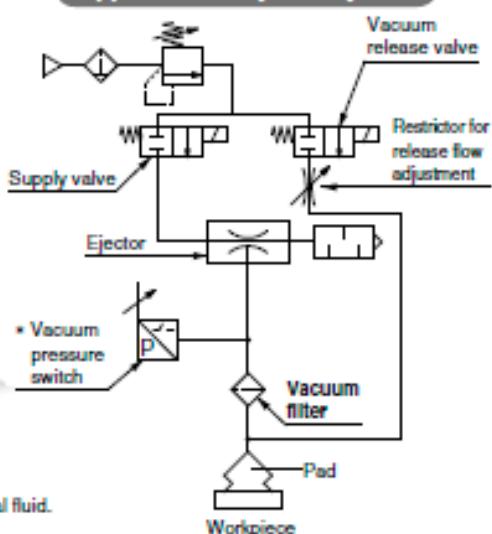


Application Examples

- Collect particles before the ejector to lengthen the ejector life.
- To prevent cleaning water left on the workpiece from entering into the ejector when the pad picks up the workpiece.



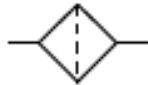
Application to ejector system



* If water droplets enter to the vacuum pressure switch, use a vacuum pressure switch for general fluid.
For handling, refer to Common Precautions and the Operation Manual.

Vacuum Filter AFJ20 to AFJ40

Symbol
Vacuum filter



How to Order

AFJ **[30]** - **[]** **[03]** **[B]** - **[80]** - **[T]** - **[]**

- Option/Nominal filtration rating/Type/Semi-standard: Select one of each for a lot.
- Semi-standard: When more than one specification is required, indicate in alphanumeric order.

		Symbol	Description			①	Body size		
			20	30	40				
②	Pipe thread type	Nil	Rc	●	●	●			
		N	NPT	●	●	●			
		F	G	●	●	●			
+									
③	Port size	01	1/8	●	—	—			
		02	1/4	●	●	●			
		03	3/8	—	●	●			
		04	1/2	—	—	●			
+									
④	Option	a	Mounting	Nil	Without mounting option			●	●
				B <small>Note 1)</small>	With bracket			●	●
+									
⑤	Nominal filtration rating	b	Element	5	5 µm	●	●	●	●
				40	40 µm	●	●	●	●
				80	80 µm	●	●	●	●
+									
⑥	Type	c	Water drop removal type/ Large flow type	S	Water drop removal type	●	●	●	●
				T	Large flow type	●	●	●	●
+									
⑦	Semi-standard	d	Bowl <small>Note 2)</small>	Nil	Polycarbonate bowl	●	●	●	●
				6	Nylon bowl	●	●	●	●
+									
e	Flow direction			Nil	Flow direction: Left to right	●	●	●	●
				R	Flow direction: Right to left	●	●	●	●
+									
f	Pressure unit			Nil	Name plate and caution plate in imperial units: MPa°C	●	●	●	●
				Z <small>Note 3)</small>	Name plate and caution plate in imperial units: psi°F	○ <small>Note 4)</small>	○ <small>Note 4)</small>	○ <small>Note 4)</small>	○ <small>Note 4)</small>

Note 1) Option B is not assembled and supplied loose at the time of shipment.

Assembly of a bracket and 2 mounting screws.

Note 2) Refer to Chemical data on page 786 for chemical resistance of the bowl.

Note 3) For pipe thread type NPT. This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.)

Note 4) ○: For pipe thread type NPT only