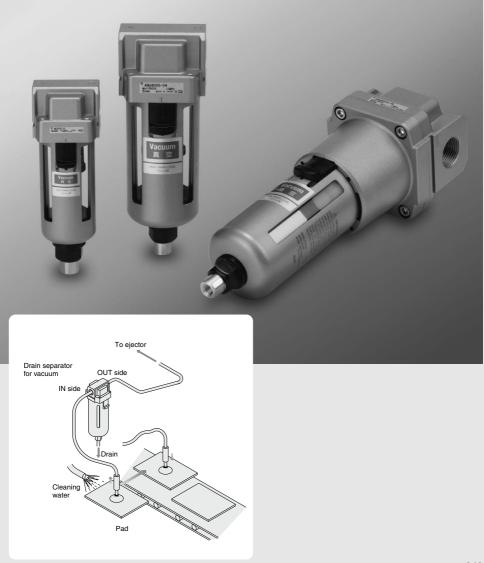
Drain Separator for Vacuum

AMJ Series

Removes water droplets from air by simply installing in vacuum lines. Prevents malfunction of vacuum pumps and ejectors.



Drain Separator for Vacuum **AMJ Series**



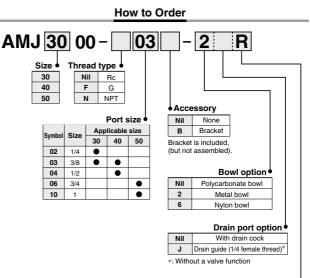
Over 90% of water droplets can be removed using a dedicated element.

The provision of a drain cock makes it possible to discharge the drain manually after breaking the vacuum.

Even when the element is saturated with water, there is almost no drop in pressure (increase in resistance).

The element can be replaced with a single touch.





Flow direction option •

Nil	Left to right			
R	Right to left			

Model

Model	AMJ3000	AMJ4000	AMJ5000
Recommended flow rate (L/min (ANR))	200	300	500
Port size	1/4, 3/8	3/8, 1/2	3/4, 1
Weight (kg)	0.3	0.6	1.1

Specifications

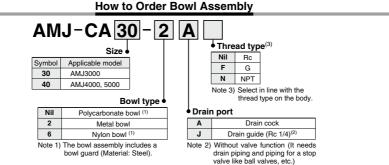
Fluid	Air
Operating pressure	-100 kPa to 1.0 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	5 to 60°C
Water drop removal ratio	90%
Element replacement period	2 years or when pressure drops to 0.02 MPa

Accessory Part No.

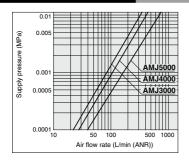
Applicable model	AMJ3000	AMJ4000	AMJ5000
Bracket assembly (With 2 mounting screws)	AF30P-050AS	AF40P-050AS	AF50P-050AS



Drain Separator for Vacuum **AMJ Series**

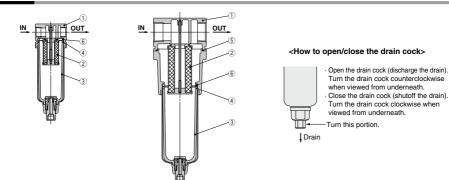


Flow Rate Characteristics



Fluid: Air Measured pressure: Downstream release to atmosphere

Construction



Component Parts

No.	Description	Material	Note
1	Body	Aluminum alloy	Platinum silver coated

Replacement Parts

No. Description		Material	Part no.							
INO.	Description	Material	AMJ3000	AMJ4000	AMJ5000					
2	Element assembly	_	AMJ-EL3000	AMJ-EL4000	AMJ-EL5000					
3	Bowl assembly Note)	_	AMJ-CA30-	AMJ-CA40-□	AMJ-CA40-D					
4	O-ring	NBR	C3SFP-260S	C4SFP-260S	C4SFP-260S					
5	O-ring	NBR	_	_	111710					
6	Spacer	NBR	AMJ-SA001	AMJ-SA002	AMJ-SA003					

Note) • Refer to the above for "How to Order Bowl Assembly".

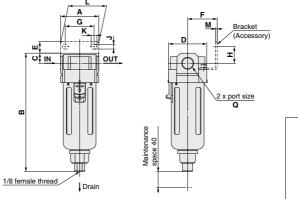
• The spacer (6) is not included in the bowl assembly.



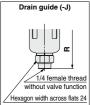
AMJ Series

Dimensions

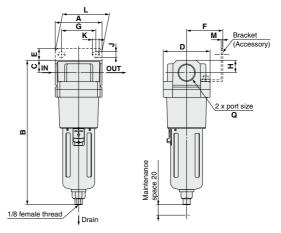
AMJ3000, 4000



Note) The figure shows the drain cock specification.



AMJ5000





														(mm)
Model	Port size		B Note)	~	СD		E	Bracket	mount	ing dim	ension	s		Drain guide
woder	Q	A	Brow	C		Е	F	G	н	J	К	L	М	R Note)
AMJ3000	1/4, 3/8	53	165 (166)	14	53	16	41	40	23	6.5	8	53	2.3	158 (159)
AMJ4000	3/8, 1/2	70	199 (202)	18	70	17	50	54	26	8.5	10.5	70	2.3	192 (195)
AMJ5000	3/4, 1	90	278 (280)	24	90	23	70	66	35	11	13	90	3.2	271 (273)

Note) () is the case for metal bowl.



AMJ Series Specific Product Precautions

Be sure to read this before handling the products. Refer to page 33 for safety instructions and pages 34 to 36 for vacuum equipment precautions.

Caution on Design

≜Caution

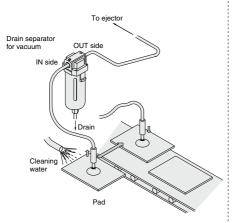
 When using with repeating positive pressure and negative pressure: Use at 0.1 MPa or less of positive pressure when the repeating tact is fast.

The vessel may be hotter depending on the pressure and repeating tact conditions.

Mounting

△ Caution

- 1. Air piping should be thoroughly flushed before mounting.
- 2. When piping and fittings, etc. are being screwed together, be certain that cutting chips from the pipe threads, sealing material, and other debris do not get inside the piping. Further, when pipe tape is used, leave 1.5 to 2 thread ridges exposed at the end of the pipe.
- 3. The unit should be mounted vertically.
- 4. When piping is being installed, connect IN for work side and OUT for ejector or vacuum pump side.



Operating Environment

A Warning

 Since the case material is polycarbonate, avoid using chemicals such as thinner, carbon tetrachloride, chloroform, aniline, cyclohexan, trichloroethylene, sulfric acid, lactic acid or water-miscible cutting fluid (alkaline), etc. Operation of the product in an atmosphere containing any of these chemicals should also be avoided.

A neutral detergent may be used for cleaning the bowl.

2. Avoid use exposed to direct sunlight.

Maintenance

▲ Caution

1. The element should be replaced after 2 years of use or when the pressure drop reaches 0.02 MPa.

The spacer and O-ring should also be replaced at the same time that the element is replaced.

Sometimes when the bowl is removed for a purpose other than replacing the element, the spacer may stick to the bowl and come off. In this case however, it may be returned to its installed position and used again.

2. Drainage should be discharged by the time it reaches the upper limit.

Furthermore, when drainage is to be discharged or the element replaced, first confirm that all equipment, etc is stopped, and return the interior of the bowl to atmospheric pressure before proceeding.

Bowl Capacity

AMJ3000	45 cm ³
AMJ4000, 5000	105 cm ³

