

Water Separator

Series AMG

Can remove water droplets in compressed air. Use this product in cases where “water must be avoided, but not so dry as when an air dryer is used”.

Through the adoption of an element that is exclusively used for removing water droplets and the ample housing interior space, a 99%* water removal rate** has been achieved.

⚠ Caution

Water separator can remove water droplets, but it cannot remove moisture.

* Condition of inlet air
 Pressure: 0.7 MPa
 Temperature: 25°C
 Relative humidity: 100%
 Liquid water content (Water droplet content): 15 g/m³ (ANR)
 Compressed air flow: Rated flow of each model

** Water removal rate (%) =

$$\frac{\text{Removed water (Water droplet) (g)}}{\text{Inflow water (Water droplet) (g)}} \times 100$$

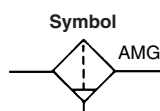
Modular connection is possible with AMG150C to 550C.
 (For details, refer to page 61.)



AMG150C to 550C



AMG650/850



Made to Order
 (For details, refer to page 67.)

Model

| Model | AMG150C | AMG250C | AMG350C | AMG450C | AMG550C | AMG650 | AMG850 |
|--|----------|----------|----------|----------|---------|----------|----------|
| Rated flow (l/min (ANR)) <small>Note)</small> | 300 | 750 | 1500 | 2200 | 3700 | 6000 | 12000 |
| Port size | 1/8, 1/4 | 1/4, 3/8 | 3/8, 1/2 | 1/2, 3/4 | 3/4, 1 | 1, 1 1/2 | 1 1/2, 2 |
| Mass (kg) | 0.38 | 0.55 | 0.9 | 1.4 | 2.1 | 4.2 | 10.5 |



Note) Max. flow at 0.7 MPa.

Max. flow varies depending on the operating pressure. Refer to “Flow Characteristics” (page 5) and “Maximum Air flow” (page 6).

Specifications

| | |
|-------------------------------|---|
| Fluid | Compressed air |
| Max. operating pressure | 1.0 MPa |
| Min. operating pressure* | 0.05 MPa |
| Proof pressure | 1.5 MPa |
| Ambient and fluid temperature | 5 to 60°C |
| Water removal rate | 99% |
| Element life | 2 years or when pressure drop reached 0.1 MPa |

* With auto drain: 0.1 MPa (N.O. type) or 0.15 MPa (N.C. type)

Accessory

| Applicable model | AMG150C | AMG250C | AMG350C | AMG450C | AMG550C | AMG650 | AMG850 |
|--|----------|----------|----------|----------|----------|--------|--------|
| Bracket assembly (with 2 mounting screws) | AM-BM101 | AM-BM102 | AM-BM103 | AM-BM104 | AM-BM105 | BM56 | BM57 |

⚠ Caution

Be sure to read this before handling.
 Refer to back pages 1 and 2 for Safety Instructions, “Precautions for Handling Pneumatic Devices” (M-03-E3A) for Common Precautions, and back pages 3 through to 7 for Specific Product Precautions.

How to Order



AMG150C to 550C

AMG **550C** - **10** - - - -

Body size

| |
|------|
| 150C |
| 250C |
| 350C |
| 450C |
| 550C |

Thread type

| Symbol | Type |
|--------|------|
| Nil | Rc |
| F | G*1 |
| N | NPT |

*1 Conforms to ISO1179-1.

Port size

| Symbol | Size | Applicable body size | | | | |
|--------|------|----------------------|------|------|------|------|
| | | 150C | 250C | 350C | 450C | 550C |
| 01 | 1/8 | ● | | | | |
| 02 | 1/4 | ● | ● | | | |
| 03 | 3/8 | | ● | ● | | |
| 04 | 1/2 | | | ● | ● | |
| 06 | 3/4 | | | | ● | ● |
| 10 | 1 | | | | | ● |

Accessory

| Symbol | Description |
|--------|-------------|
| Nil | — |
| B | Bracket *2 |

*2 Bracket is included, (but not assembled).

Made to Order

("How to Order" and the applicable models are different from those shown on this page. Be sure to refer to "Made to Order".)

| Symbol | Description | Page for details |
|--------|--|------------------|
| Nil | — | — |
| X15 | With IN-OUT flange | P.69 |
| X26 | N.C., N.O. auto drain, drain piping type | P.70 |

Option *3

| Symbol | Description |
|--------|------------------------------------|
| Nil | — |
| F | Rubber material: Fluororubber |
| H | For medium air pressure (1.6 MPa) |
| J | Drain guide 1/4 female threaded *4 |
| R | IN-OUT reversal direction |
| V | Degreasing wash, *5 white vaseline |

*4 Drain piping and piping for a stop valve such as ball valve are required.

*5 Only body/housing is degreasing washed.

Auto drain *3

| Symbol | Description |
|--------|---------------------------------|
| Nil | Drain cock (Without auto drain) |
| C | N.C. auto drain |
| D | N.O. auto drain |

*3 Refer to "Auto Drain Specifications/Option Combinations".

Auto Drain Specifications/Option Combinations

○ : Available □ : Not available

△ : Plural options cannot be selected.

(i.e. Combinations such as C-FV, D-FHV are not possible.)

| Symbol | F | H | R | V |
|---------------------------|---|---|---|---|
| Auto drain specifications | | | | |
| Nil | ○ | ○ | ○ | ○ |
| C | △ | □ | ○ | △ |
| D | △ | △ | ○ | △ |
| J | ○ | ○ | ○ | ○ |

Options

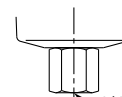
Symbol F: Rubber material: Fluororubber

Fluororubber is used for the parts such as O-ring and gasket.

Symbol H: For medium air pressure (1.6 MPa)

Can be used up to 1.6 MPa at maximum.

Symbol J: Drain guide 1/4 female threaded



Can be piped to the drain exhaust port.

1/4 female threaded

Symbol R: IN-OUT reversal direction

Air flow in the separator is changed to right to left.
(Air flow direction of the standard: Left to right.)

Symbol V: Degreasing wash, white vaseline

Body/housing is degreasing washed. The lubrication grease for O-ring and gasket is changed to white vaseline.