Water Separator Series AMG

The AMG series water separator is installed on the air pressure line to remove water drops in the compressed air. It is suitable for use in cases where "water must be removed, but the air does not have to be as dry as when an air dryer is used" or "an air dryer cannot be

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

used because an electric power

supply is not available".

⚠ 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):

1.5 g/m³ (ANR)

Compressed air flow: Rated flow of each model

**Removed rate of water (%) =

Removed water (Water droplet) (g)
Inflowed water (Water droplet) (g) x 100

Various equipment for drain discharge



JIS Symbol



Made to Order Specifications (For details, refer to page 14-20-55.)

Be sure to read before handling.

Refer to pages 14-21-3 to 4 for Safety Instructions and Common Precautions on the products mentioned in this catalog, pages 14-14-6 to 8 for Precautions on every series, and pages 14-20-62 to 64 for more detailed precautions on every series.

Model

Model	AMG150	AMG250	AMG350	AMG450	AMG550	AMG650	AMG850
Rated flow (ℓ /min (ANR))	300	750	1500	2200	3500	6000	12000
Port size (Nominal size B)	1/8,1/4,3/8	1/4,3/8,1/2	3/8,1/2,3/4	1/2,3/4,1	3/4 ,1	1,11/2	11/2,2
Weight (kg)	0.38	0.55	0.9	1.4	2.1	4.2	10.5

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Note) Max. flow capacity at a pressure of 0.7 MPa.

Max. flow varies depending on operating pressure. Refer to page 14-20-4 for flow rate and page 14-20-4 for the max. flow line graph.

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
Removed rate of water	99%
Element life	2 years or when pressure drop reaches 0.1 MPa

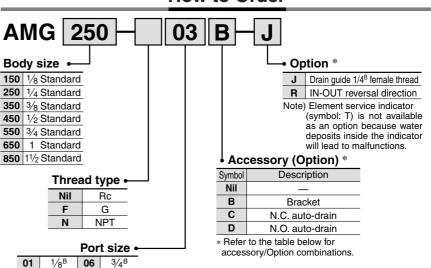
0.1 MPa (N.O. type) or 0.15 MPa (N.C. type) in the case of types with auto-drain.

Refer to "Made to Order Specifications" on page 14-20-55.

Accessory (Option)

Applicable model	AMG150	AMG250	AMG350	AMG450	AMG550	AMG650	AMG850
Bracket assembly (With cap bolt and spring washer)	BM51	BM52	BM53	BM54	BM55	BM56	BM57

How to Order



Accessory/	Option	Combina	tions
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1B

1 1/2B

10

20

1/4B

3/₈B

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03

on page 14-20-59.

Note) Refer to "How to Order Bowl Assembly"

Accessory (Option)			Accessory Option specifications		Applicable model								
			С	D	J	R	AMG150	AMG250	AMG350	AMG450	AMG550	AMG650	AMG850
	N.C. auto-drain	С				0	0	0	0	0	0		
Accessory	N.O. auto-drain	D				0	0	0	0	0	0	0	0
Option	Drain guide 1/4 B	-J				0	0	0	0	0	0	0	
	IN-OUT reversal direction	-R	0	0	0		0	0	0	0	0	0	0



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Misc.

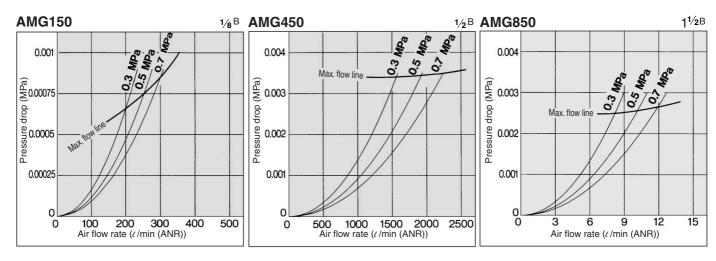
Series AMG

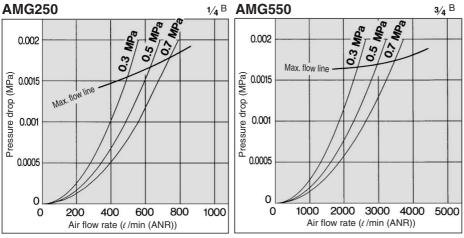
Flow Characteristics

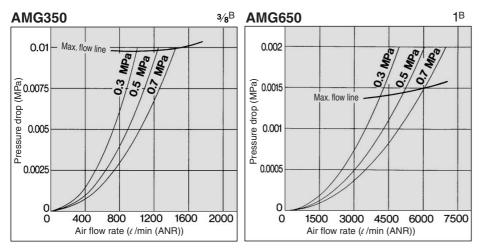
Element initial condition

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Note) Compressed air over max. flow line in the table below may not meet the specifications of the product. It may cause damage to the element.



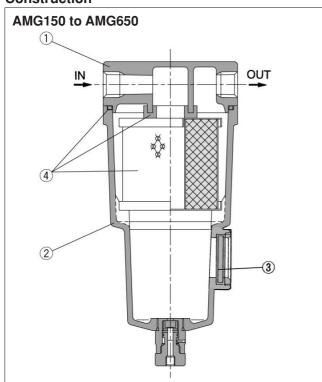




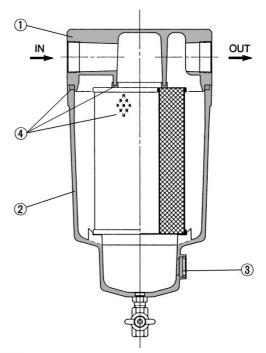


Water Separator Series AMG

Construction



AMG850



Component Parts

No.	Description	Material	Note		
1	Body	Aluminum die-casted	Chrome treated		
2	Housing	Aluminum die-casted*	Epoxy coating on inner surface		
(3)	Sight glace	Tompored alace			

Note) Refer to page 14-20-59 for "How to Order Bowl Assembly".



Note) Sight glass is indicated in the figure above for easy understanding of parts, however mounting position is different.

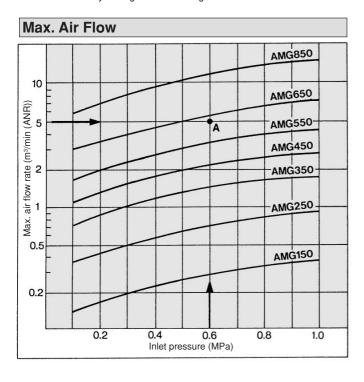
Refer to dimensions on pages 14-20-6 to 7 for details.

Replacement Parts

No.	Description	Material	Model							
INO.			AMG150	AMG250	AMG350	AMG450	AMG550	AMG650	AMG850	
4	Element assembly	Resin Others	AMG-EL150	AMG-EL250	AMG-EL350	AMG-EL450	AMG-EL550	AMG-EL650	AMG-EL850	

* AMG850 is aluminum casted

^{*} Element assembly: With gasket and O-ring



Model Selection

Select the model in accordance with the following procedure taking the inlet pressure and max. air flow into consideration.

(Example) Inlet pressure: 0.6 MPa

Maximum air flow rate: 5 m³/min (ANR)

- 1. Select the point of contact A of inlet pressure and max. air capacity
- 2. AMG650 is obtained when the max. flow line is above the point of intersection A in the graph.



Note) Make sure to select a model that has the maximum flow rate line above the obtained intersecting point. With a model that has the maximum flow rate line below the obtained intersecting point, the flow rate will be exceeded, thus leading to \ddot{a} problem such as being unable to satisfy the specifications.

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AMG

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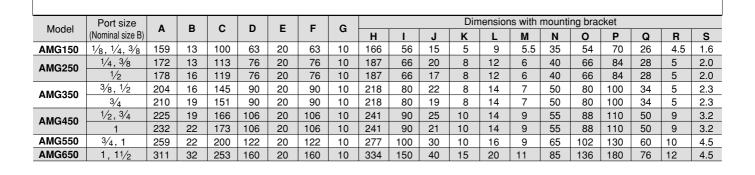


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Drain

Series AMG

AMG150 to AMG650 Dimensions **Accessory** D: With auto-drain (N.O.) Drain cock: Black Q One-touch fitting C: With auto-drain (N.C.) 0 Drain cock: Gray ø10 One-touch fitting * N.C. auto-drain not available for AMG650. **Option** D J: With drain guide Bracket (Option) <u>†</u> ĪŃ OUT 8 ¼B female thread



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М5



Water Separator Series AMG

