### **Water Separator**

# Series AMG

AM6 350

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 used because an electric power supply is not available".

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.

### Caution

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

### \*Condition of inlet air

Pressure: 0.7MPa Temperature: 25°C

Relative humidity: 100%

Liquid water content (Water droplet

content): 1.5g/m3 (ANR)

Compressed air flow: Rated flow of each model

\*\*Removed rate of water % = Removed water (Water droplet) g Inflowed water (Water droplet) g

#### Various equipment for drain discharge









### Model

Model	AMG150	AMG250	AMG350	AMG450	AMG550	AMG650	AMG850
Flow rate (e/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, 1 <sup>1</sup> / <sub>2</sub>	11/2, 2
Weight (kg)	0.38	0.55	0.9	1.4	2.1	4.2	10.5

Note 1) Max. flow is at 0.7MPa.

Max. flow depends on operating pressure. Please refer to p.4.4-2 for flow rate and to p.4.4-3 for graph of max. flow.

### **Specifications**

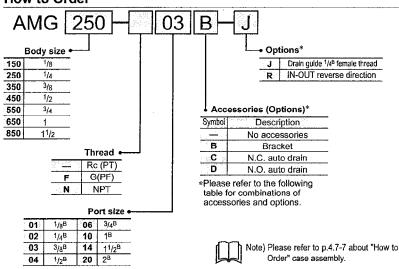
Fluid	Compressed air
Max. operating pressure	1.0MP
Min. operating pressure*	0.05MPa
Proof pressure	1.5MPa
Ambient/Fluid temperature	5 to 60°C
Removal rate of water	6 99%
Element life	2 years or when pressure drop reaches 0.1MPa

\*With N.O. auto drain: 0.15MPa

### **Accessories (Options)**

Ap	plicable model	AMG150	AMG250	AMG350	AMG450	AMG550	AMG650	AMG850
(W	racket assembly lith cap bolt lith spring washer	BM51	BM52	BM53	BM54	BM55	BM56	BM57

#### **How to Order**



Option	combination	าร	ØΑ	vailable		□Not available							
A ======	an/Ontional aposition	tion	Acces	ssories	Opt	ions	4.5	nodel	del				
Accessories/Optional specification				D	J	R	AMG150	AMG250	AMG350	AMG450	AMG550	AMG650	AMG850
A	N.C. auto drain	С				0	0	0	0	0	0	ź.	
Accessories	N.O. auto drain	D				0	0	0	0	0	0	0	0
Options	Drain guide 1/4 B	-J				0	0	0	0	0	0	0	
	IN-OUT reverse direction	0	0	0		0	0	0	0	0	0	0	

HA

ΑT

ID

**AMG** 

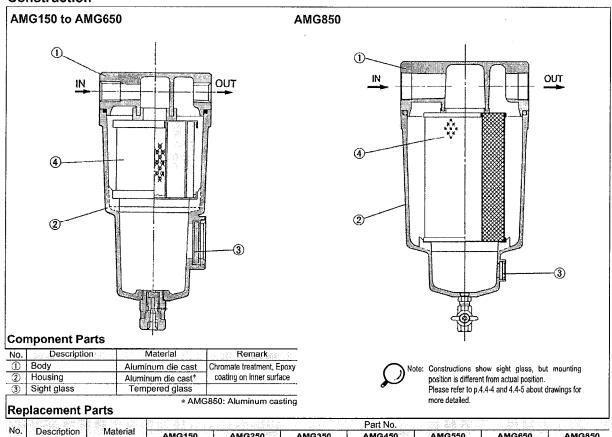
**AFF** 

 $AM\square$ 

products

### Water Separator Series AMG

#### Construction



AMG350

AMG-EL350

4	Element assembly	Resin NBR
* Wit	h gasket, With 0	O ring

### Max. Air Flow AMG850 10 AMG650 (m³/min(ANR)) AMG550 AMG450 **AMG350** flow ₩. AMG250 Max. 0.5 AMG150 0.2 0.4 Supply pressure (MPa)

AMG150

AMG-EL150

AMG250

AMG-EL250

#### **How to Select Model**

AMG450

AMG-EL450

Follow the procedure given below to select the model in accordance with the inlet pressure and maximum air flow rate requirements.

AMG550

AMG-EL550

(Example) Inlet pressure

(Example) Inlet pressure 1.0.6 MP3

Maximum air flow rate: 5m³/min (ANR)

(1)Using the "Max. air flow", find point A, at which the input pressure and the maximum air flow rate intersect.

(2)To select one with the maximum air flow rate line that is located above the obtained intersecting point A, the model will be

AMG650.

Note) Make sure to select a model with the maximum air flow rate line that is located above the obtained intersection point. A model with the maximum air flow rate line that is located below the obtained intersection point will have an excess flow rate, and will not satisfy the specifications.

AMG650

AMG-EL650

AMG850

AMG-EL850

HA

AT  $\mathsf{ID}\square$ 

AMG

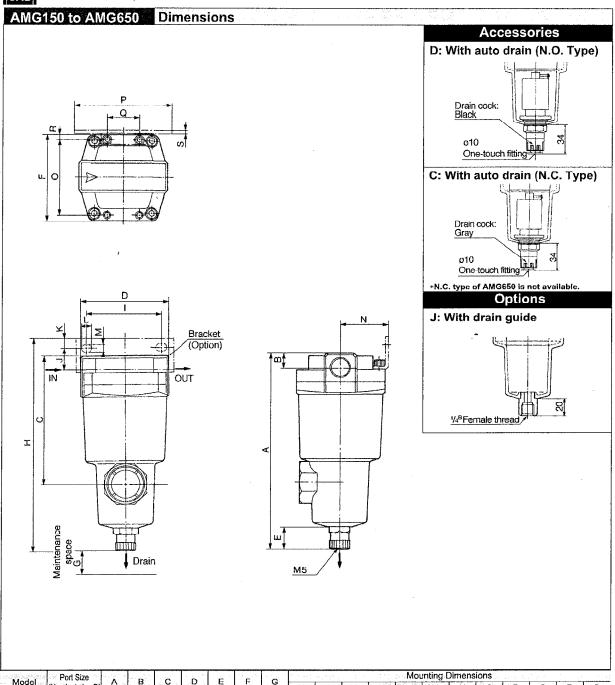
**AFF** 

 $AM\square$ 

Related products

### Series AMG





	Port Size	Port Size A B C							0.00	Mounting Dimensions										
Model	(Nominal size B)	∍B) ^`	<b>B</b>	٠.	<b>5</b>	Ŀ		G	Н	Į.	7 <b>3</b> 5	K	L	M	N	0	Р	Q	R	S
AMG150	1/8, 1/4, 3/8	159	13	100	63	20	63	10	166	56	15	5	9	5.5	35	54	70	26	4.5	1.6
AMG250	1/4, 3/8	172	13	113	76	20	76	10	187	66	20	8	12	6	40	66	84	28	5	2.0
AWIGZOU	1/2	178	16	119	76	20	76	10	187	66	17	8	12	6	40	66	84	28	5	2.0
AMG350	3/8, 1/2	204	16	145	90	20	90	10	218	80	22	8	14	7	50	80	100	34	5	2.3
MMG330	3/4	210	19	151	90	20	90	10	218	80	19	8	14	7	50	80	100	34	5	2.3
AMG450	1/2, 3/4	225	19	166	106	20	106	10	241	90	25	10	14	9	55	88	110	50	9	3.2
AMG45U	1	232	22	173	106	20	106	10	241	90	.21	10	14	9	. 55	88	110	50	9	3,2
AMG550	3/4, 1	259	22	200	122	20	122	10	277	100	30	10	16	9	65	102	130	60	10	4.5
AMG650	1, 1 <sup>1</sup> /2	311	32	253	160	20	160	10	334	150	40	15	20	11	85	136	180	76	12	4.5

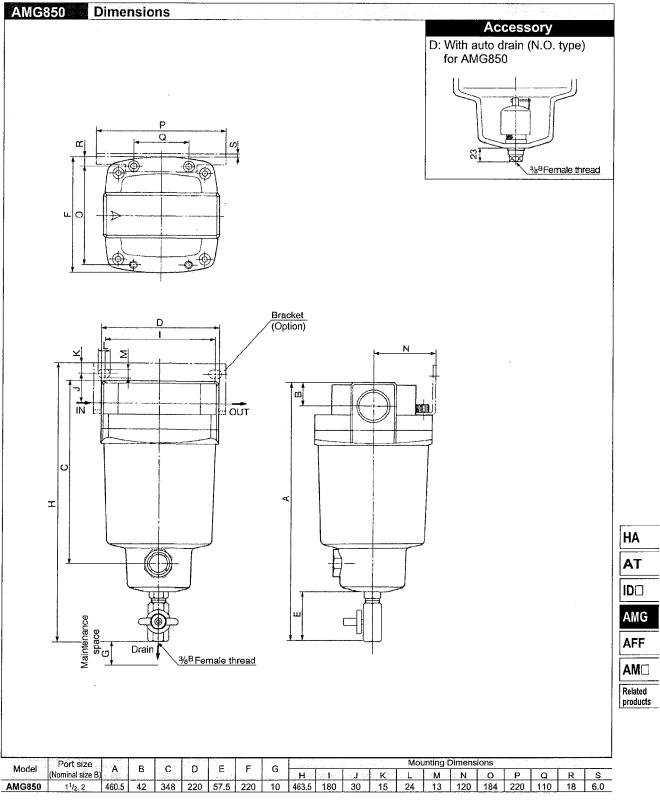


AMG150 ....... SAM, #1 AMG450 ..... SAM, #4
AMG250 ..... SAM, #2 AMG650 .... SAM, #5

AMG350 ...... SAM, #3 AMG650 ..... SAM, #6

### Water Separator Series AMG





CAD

AMG850.....SAM, #7

## Series AMG

## **Made to Order Specifications**



Consult SMC for detailed specifications, size and delivery.

