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 (%) = Removed water (Water droplet) (g) x 100

Inflowed water (Water droplet) (g)

Modular connection is possible with AMG150C to 550C. (For details, refer to page 58.)





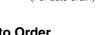
AMG150C to 550C

AMG650/850





(For drain cock)



Made to Order (For details, refer to page 63.)

Model

Model	AMG150C	AMG250C	AMG350C	AMG450C	AMG550C	AMG650	AMG850
Note) Rated flow (<i>c</i> /min (ANR))	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, 1½	1 ½, 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)

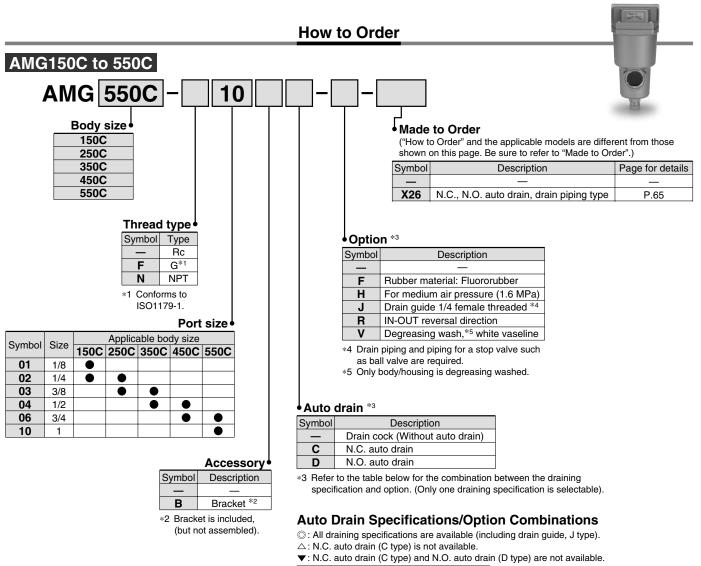
Accessorv

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. L
- Refer to back pages 1 and 2 for Safety Instructions, "Precautions for I L Handling Pneumatic Devices" (M-03-E3A) for Common Precautions, and back pages 3 through to 7 for Specific Product Precautions.





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: Not available												

Options

Symbol F: Rubber material: Fluororubber

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

Symbol R: IN-OUT reversal direction

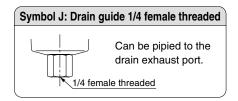
Air flow in the separator is changed to right to left. (Air flow direction of the standard: Left to right.)

Symbol H: For medium air pressure (1.6 MPa)

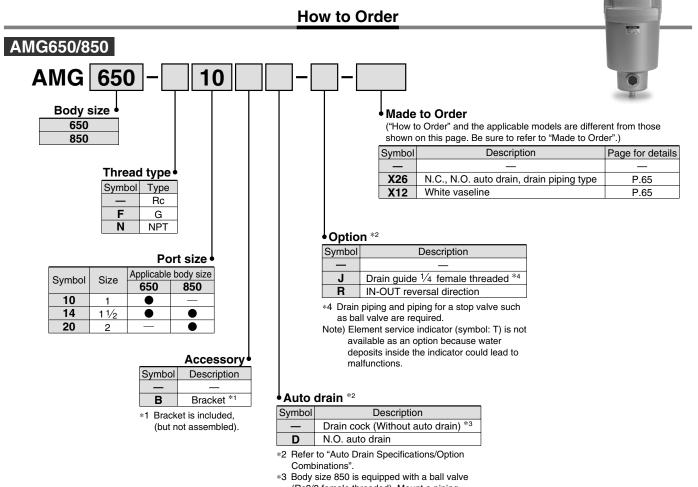
Can be used up to 1.6 MPa at maximum.

Symbol V: Degreasing wash, white vaseline

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



Water Separator Series AMG



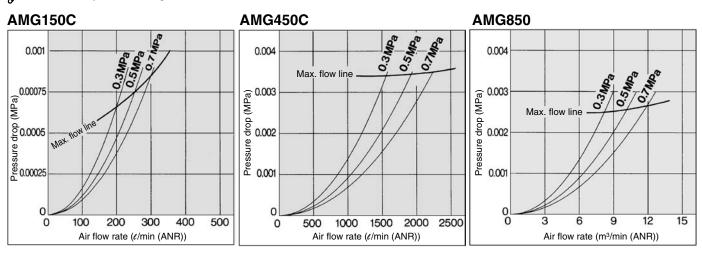
(Rc3/8 female threaded). Mount a piping adapter IDF-AP609 (page 58) to the ball valve if NPT3/8 female threaded is required.

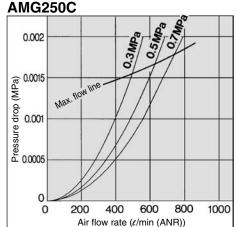
Note) Refer to "How to Order Bowl Assembly" on page 63.

Auto Drain Specifi	🔘 : Available 🛛 🗌 : Not available							
Auto drain specifi	actions/Ontion	Auto drain specifications	Op	tion	Applicable model			
Auto drain specifi	cations/Option	D	J	R	AMG650	AMG850		
Auto drain specifications	N.O. auto drain	D			0	0	0	
	Drain guide 1/4	J			0	0		
Option	IN-OUT reversal direction	R	0	0		0	0	

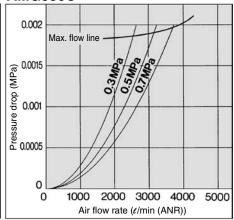
Flow Characteristics

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.



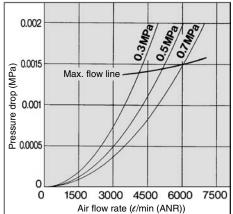


AMG550C

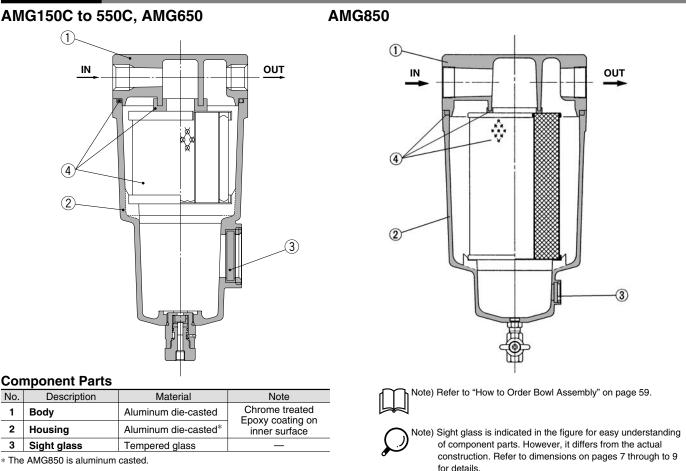


AMG350C Max. flow line 0.01 0.002 0.3MPa 0.5Mpa -O.7Mpa Bressnre drop (MPa) 0.005 0.005 0.0025 Pressure drop (MPa) 0.001 0.000 0.0005 0.0015 0 0 0 400 800 1200 1600 2000 0 Air flow rate (*ℓ*/min (ANR))

AMG650



Construction



Replacement Parts

1

2

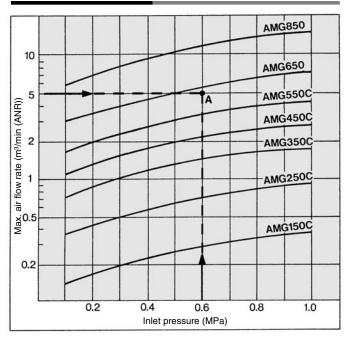
No	Description		Applicable	Model											
INO.	Description	Material	model	AMG150C	AMG250C	AMG350C	AMG450C	AMG550C	AMG650	AMG850					
Λ	Element	Resin,	Except option F	AMG-EL150	AMG-EL250	AMG-EL350	AMG-EL450	AMG-EL550	AMG-EL650	AMG-EL850					
4	assembly	others	For option F	AMG-EL150-F	AMG-EL250-F	AMG-EL350-F	AMG-EL450-F	AMG-EL550-F	_	_					
-															

* Element assembly: With gasket (1 pc.) and O-ring (1 pc.)

* Refer to back page 6 for replacement of auto drain.

* Element assemblies for Made to Order (X12, X20, X26) are same as those for standard (see the above table).

Maximum Air Flow



Model Selection

Select a model in accordance with the following procedure taking the inlet pressure and the max. air flow rate into consideration. (Example) Inlet pressure: 0.6 MPa

Max. air flow rate: 5 m3/min (ANR)

- 1. Obtain the intersecting point A of inlet pressure and max. air flow rate in the graph.
- 2. The AMG650 is obtained when the max. flow line is above the interecting point A in the graph.

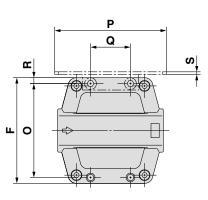


Note) Make sure to select a model that has the max. flow line above the obtained intersecting point. With a model that has the max. flow line below the obtained intersecting point, the flow rate will be exceeded, thus leading to a problem such as being unable to satisfy the specifications.

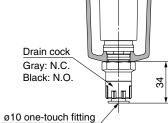


Dimensions

AMG150C to 550C



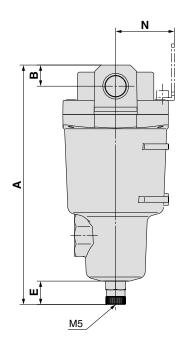
Auto drain C: With auto drain (N.C.) D: With auto drain (N.O.)

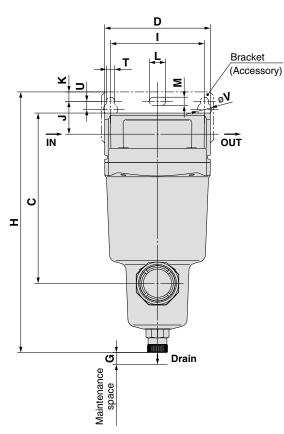


Combination of D: With auto drain (N.O.) and H: For medium air pressure

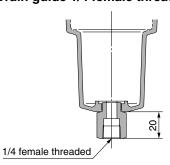
20

1/4 female threaded





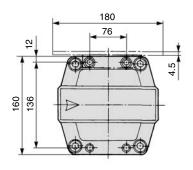
Option J: Drain guide 1/4 female threaded

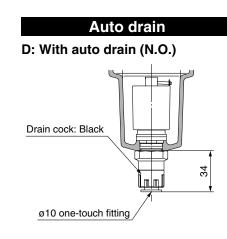


																							(mm)
Model	Port size		в	~	n	E	F	6						Brack	ket re	lated	dime	nsior	IS				
		A	P			E		G	Н	I	J	κ	Т	U	L	М	V	Ν	0	Р	Q	R	S
AMG150C	1/8, 1/4	158	10	99	63	20	63	10	173	56	20	5	6	6	12	6	10	35	54	70	26	4.5	1.6
AMG250C	1/4, 3/8	172	14	113	76	20	76	10	190	66	24	8	6	6	12	6	10	40	66	80	28	5	2
AMG350C	3/8, 1/2	204	18	145	90	20	90	10	222	80	28	8	7	7	14	7	12	50	80	95	34	5	2.3
AMG450C	1/2, 3/4	225	20	166	106	20	106	10	246	90	31	10	9	9	18	9	15	55	88	111	50	9	3.2
AMG550C	3/4, 1	259	24	200	122	20	122	15	278	100	33	10	9	9	18	9	15	65	102	126	60	10	3.2

Dimensions

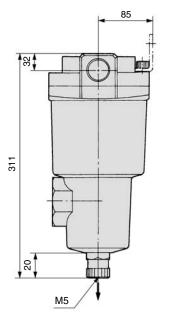
AMG650

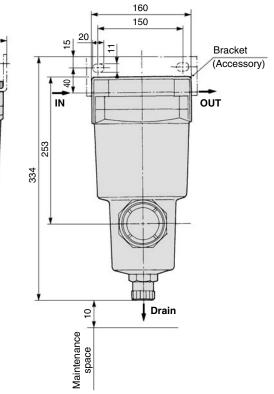


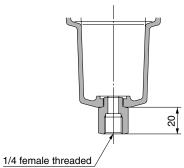


Option

J: Drain guide 1/4 female threaded

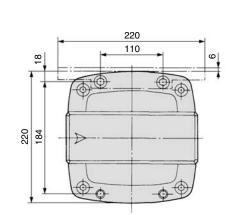


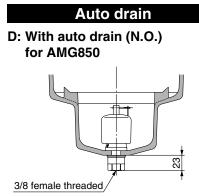


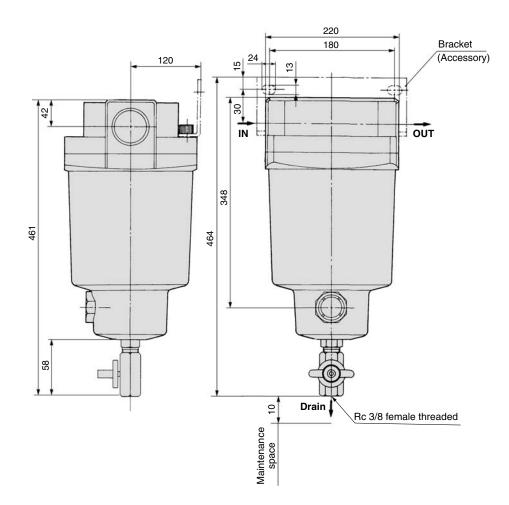


Dimensions

AMG850







SMC