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 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



Symbol



Model

11100101							
Model	AMG150	AMG250	AMG350	AMG450	AMG550	AMG650	AMG850
Flow rate (e/min (ANR)) ⁽¹⁾	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 ¹ /2	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

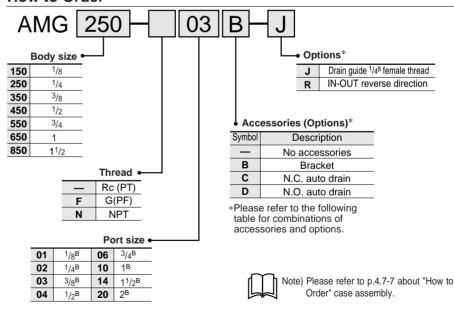
Fluid	Compressed air					
Max. operating pressure	1.0MP					
Min. operating pressure*	0.05MPa					
Proof pressure	1.5MPa					
Ambient/Fluid temperature	5 to 60°C					
Removal rate of water	99%					
Element life	2 years or when pressure drop reaches 0.1MPa					

*With N.O. auto drain: 0.15MPa

Accessories (Options)

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

How to Order



Option			O Available				■Not available						
Assessment (Ontional an adjustica			Acces	sories	Opt	Options Applicable mod					odel		
Accessories/Optional specification		С	D	J	R	AMG150	AMG250	AMG350	AMG450	AMG550	AMG650	AMG850	
Accessories	N.C. auto drain	С				0	0	0	0	0	0		
	N.O. auto drain	D				0	0	0	0	0	0	0	0
Ontione	Drain guide 1/4 B	–J				0	0	0	0	0	0	0	
	IN-OLIT reverse direction	-R	0	0	0		0	0	0	0	0	0	\bigcirc

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AMG

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Related

products

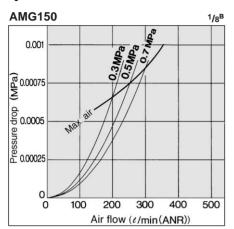
Series AMG

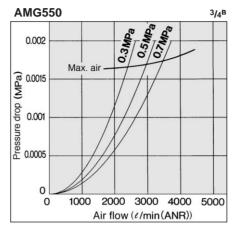
Flow Rate

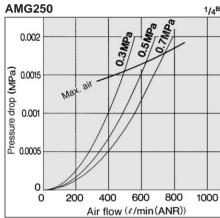
Initial condition of element

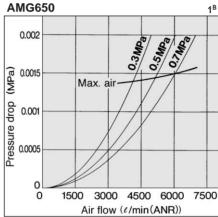


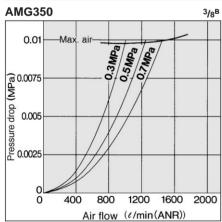
Note) If compressed air is above max. flow, water separator cannot operate well.

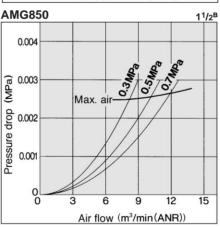


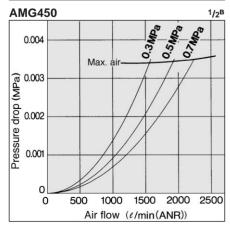












⚠ Precautions

Be sure to read before handling. Refer to p.0-26 and 0-27 for Safety Instructions and common precautions on the products mentioned in this catalog, and refer to p.4.0-5 to 4.0-7 for more detailed precautions of every series.

Design

Caution

①Place this product in a location that is not likely to create pulsations. If the internal/external pressure difference exceeds 0.1 MPa, the element could break.

2When using an auto drain, drain pipes must be connected within the following range:
Normally closed (N.C.)
Normally open (N.O.)

Tube fittings are provided. Therefore, use a 10mm external tube, and keep the pipe

length within 5m.

AMG850 type (N.O.)

Use a tube with a minimum bore of 9mm,

and keep its length within 2.8m.

When using a normally open (N.O.) auto drain, because the valve does not close until the air pressure becomes higher than 0.15MPa, the air could keep discharging from the drain discharge section of an air compressor with a small air discharge volume. Therefore, make sure to use a normally closed (N.C.) auto drain with a compressor under 3.7kW.

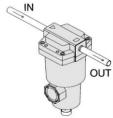
3The bracket that is provided with the product is for supporting the product itself. Separate supports must be provided for piping and

other connection devices.

Installation

Caution

1) Verify the direction of the compressed air flow and the ">" mark that indicates the inlet side of the product before connecting. It cannot be used with its direction reversed.



2 Make sure to install this product horizontally. If it is installed diagonally, sideways, or upside down, the drainage that was separated by the element will splash to the secondary side.

Maintenance



Caution

1)The element replacement period is when the pressure drop has reached 0.1MPa or 2 years have elapsed after it has been

put into use, whichever comes first.

When it is time to replace the element, immediately replace it with a new element. Also replace the O ring and the

gasket.

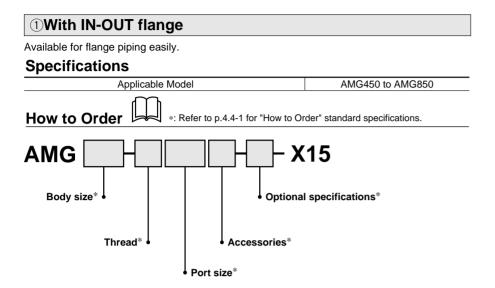
3When using a product equipped with a drain valve, drain guide, or a ball valve, discharge the drainage before the drain fluid surface reaches the center of the sight glass. If it is not discharged properly, the drainage will flow out to the secondary side. secondary side.

Series AMG

Made to Order Specifications



Consult SMC for detailed specifications, size and delivery.



Dimensions

