

Water Separator

SAMG

SAMG250~850 Series

- SAMG series filter aims at eliminating waterdrops.
- SAMG series eliminate waterdrops up to 99% at the area of inlet of pneumatic machinery equipment and at the last stage of using air in the workroom.
- SAMG series are effective to the place such as
 - which does not have to be dry as much as air drier.
 - which is not able to install air drier for its restriction.



How to order

SAMG 350 - 04 BD - MeP - S

① Water Separator

② Body Size

250 - 1/4

350 - 1/2

450 - 3/4

550 - 1

650 - 1 1/2

850 - 2

③ Port Size

	Body size					
	250	350	450	550	650	850
02 (Rc1/4)	●					
03 (Rc3/8)	●	●				
04 (Rc1/2)		●				
06 (Rc3/4)			●	●		
10 (Rc1)				●		
14 (Rc 1 1/2)					●	●
20 (Rc2)					●	●

④ Accessory(Optional)

Nil - None bracket / Manual Drain

B - Bracket

D - Auto Drain

Symbol	Drain connect	Material
D	One-touch fitting(Φ6mm)	Acetal
Dn	Nipple(PT 1/8)	Brass

⑤ Bowl

Nil - PC Bowl

MeP - Metal Bowl with pipe type sight glass

MeF - Metal Bowl with flat type sight glass

⑥ Option

Nil - None

S - Differential Pressure Indicator

Symbol



Specification

Fluid	Compressed air
Max. operating pressure	1.0MPa [10.2 kgf/cm ²]
Min. operating pressure	0.15MPa [1.5 kgf/cm ²]
Max. supply pressure	1.5MPa [15.3 kgf/cm ²]
Ambient and media temperature	5 ~ 60 °C
Removal rate of water	Eliminate waterdrops up to 99%
Filter material	Glass fiber
Life of element	When pressure drop reaches at 0.1MPa[1 kgf/cm ²]

Precautions

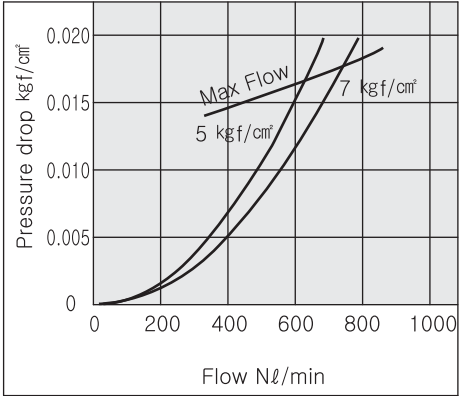
- Filter element should be changed after 2 years of using or when pressure drops to 1.0kgf/cm².
- When auto drain is used :
Drain piping should be both 4mm or greater in diameter and less than 1m in length.
Also should avoid setting drain piping upwards.
- When auto drain is out of order, it is possible to drain manually by operating one-touch-fitting vertically.
- With a drain cock attached, drain can be done when the head of liquid is shown at the glass indication tube.
- Place as much far as possible from a air compressor and use at low temperature.

● **FLOW CHARACTERISTICS**

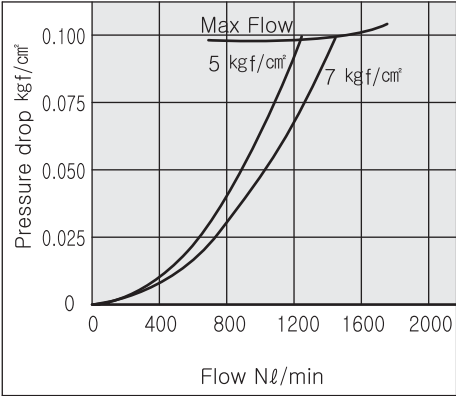
Initial condition

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

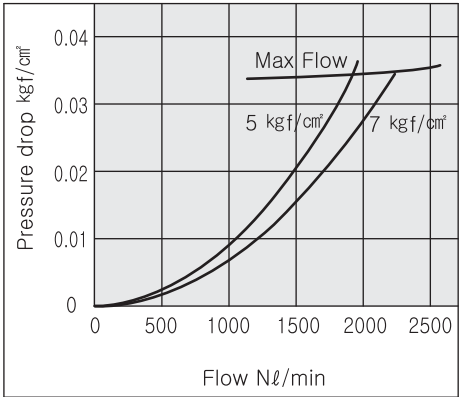
SAMG 250



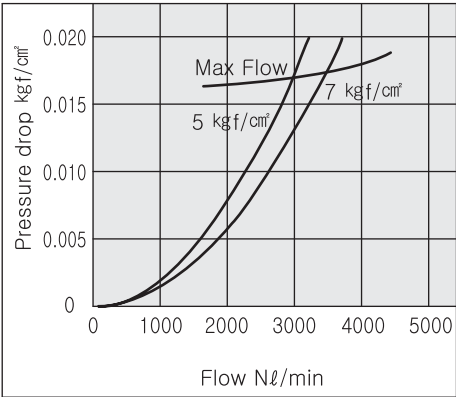
SAMG 350



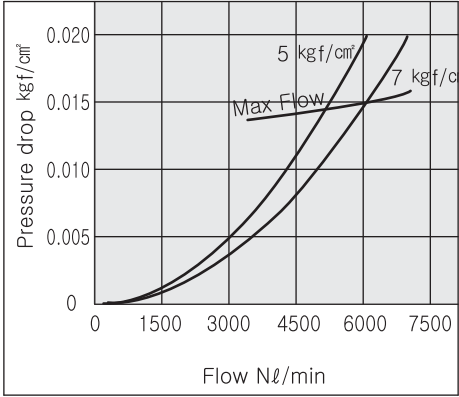
SAMG 450



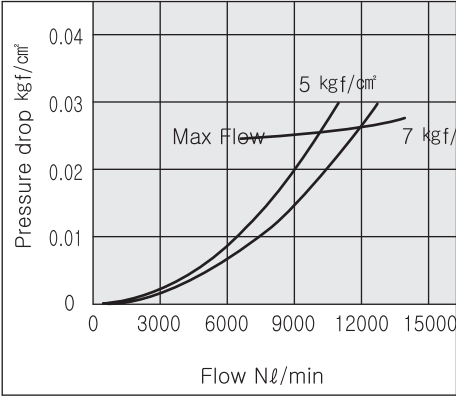
SAMG 550



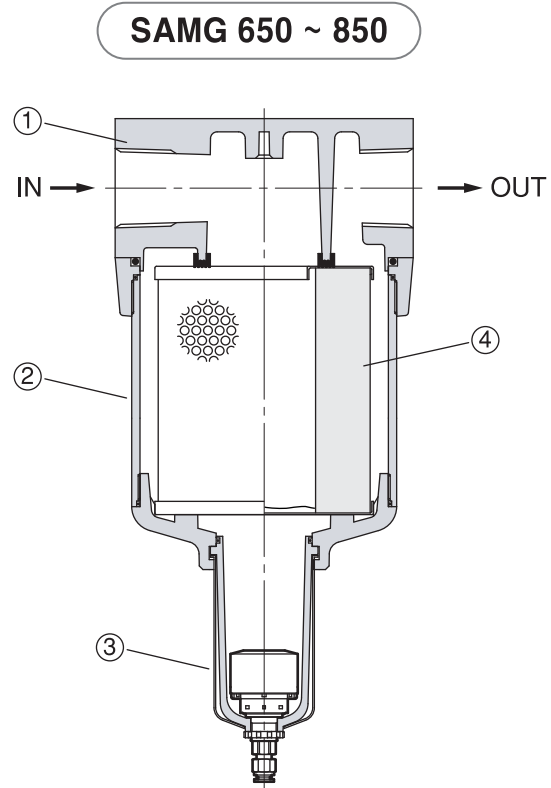
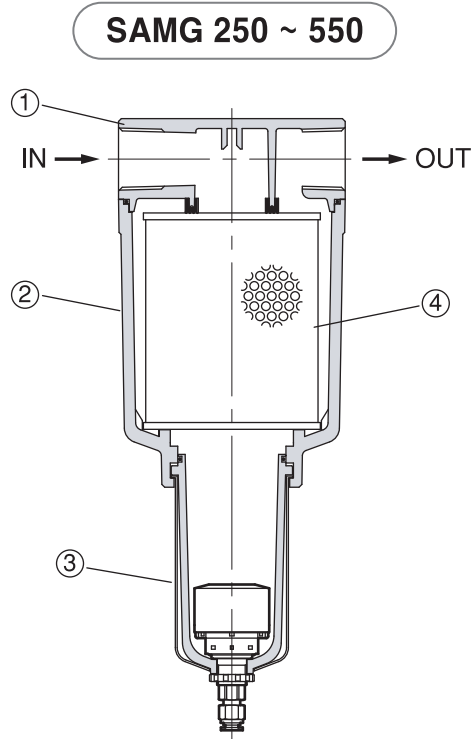
SAMG 650



SAMG 850



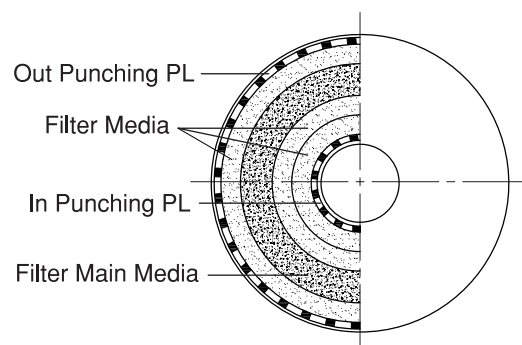
STRUCTURE / PARTS



Component Parts

No.	PARTS	MATERIAL
①	Body	Aluminum die cast
②	Housing	Aluminum die cast
		Pipe
③	Bowl	PC + Guard
		ALDC (MeF type)
		ALDC(MeP type)

Sectional drawing (SAMG Filter)

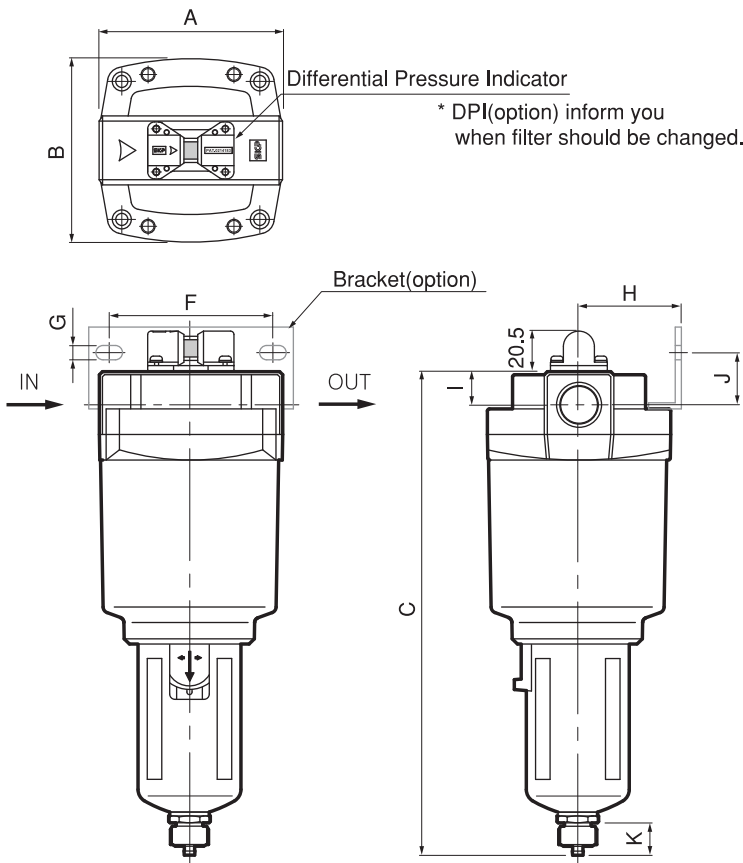


Replacement Parts

No.	PARTS	MATERIAL	Part No.	Size (Φ x height) (mm)
④	Element	with Fiber Glass	AMG-EL250	58 x 52.5
			AMG-EL350	70 x 77
			AMG-EL450	82 x 87
			AMG-EL550	95 x 117
			AMG-EL650	130 x 150
			AMG-EL850	130 x 260

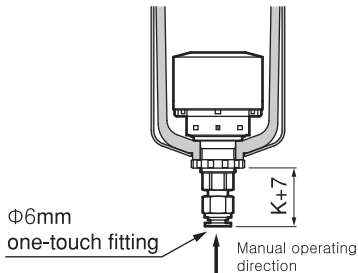
● DIMENSIONS (mm)

SAMG 250~850

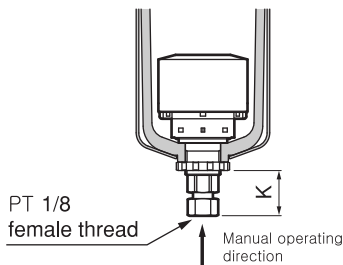


Accessory(option)

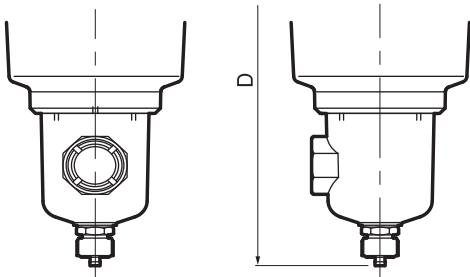
D : With auto drain (N.O.)



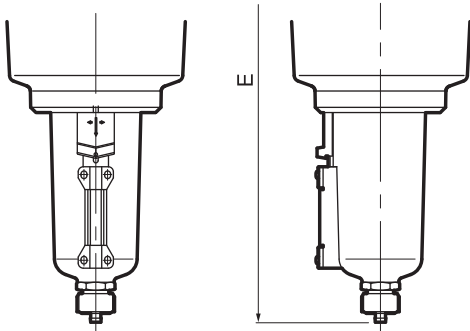
Dn : With auto drain (N.O.)



● **MeF** : Metal Bowl with flat type sight glass



● **MeP** : Metal Bowl with pipe type sight glass



* MeF type bowl not available for all 250 series.

Model	Port size (PT)	A	B	Height (without auto drain)			F	G	H	I	J
				C	D(MeF)	E(MeP)					
SAMG 250	1/4	76	76	202	-	225	66	6	40	13	20
SAMG 350	3/8, 1/2	90	90	250	217	252	80	7	50	16	22
SAMG 450	3/4	106	106	283	250	285	90	9	55	19	25
SAMG 550	3/4, 1	122	122	320	287	322	100	9	65	22	30
SAMG 650	1 1/2	180	180	396	363	398	150	13	100	42	30
SAMG 850	1 1/2, 2	180	180	507	474	509	150	13	100	42	30