

Mist Separator

SAM

SAM250~850 Series

- SAM series eliminate micro-particle like rust, carbon Of $0.3\mu\text{m}$ or greater, etc. by separating oil mist that is difficult to be removed by normal air filters.
- SAM series are the optimal filter for the air source that drives solenoid valves of pilot type, and metal seal type.



How to order

SAM 350 - 04 BD - MeP - S

① Mist 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
Filtration	0.3μm(95% possible filtration particle)
Filter material	Glass fiber
Life of element	When pressure drop reaches at 0.1MPa[1 kgf/cm ²]

Precautions

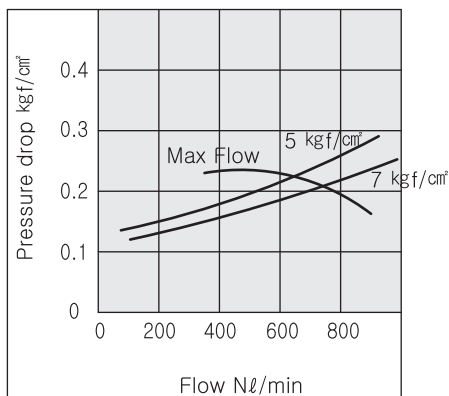
- ① Filter element should be changed after 2 years of using or when pressure drops to 1.0kgf/cm².
- ② When auto drain is used :
Drain piping should be both 4mm or greater in diameter and less than 1m in length.
Also should avoid setting drain piping upwards.
- ③ When auto drain is out of order, it is possible to drain manually by operating one-touch-fitting vertically.
- ④ With a drain cock attached, drain can be done when the head of liquid is shown at the glass indication tube.

● FLOW CHARACTERISTICS

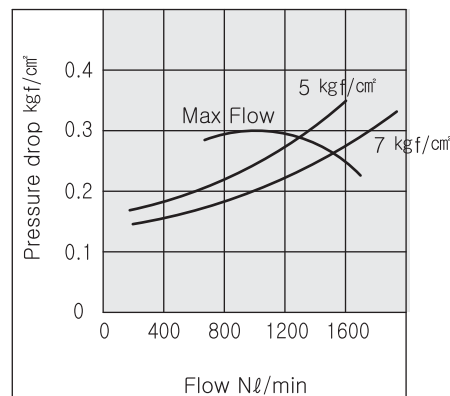
Element oil saturation

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

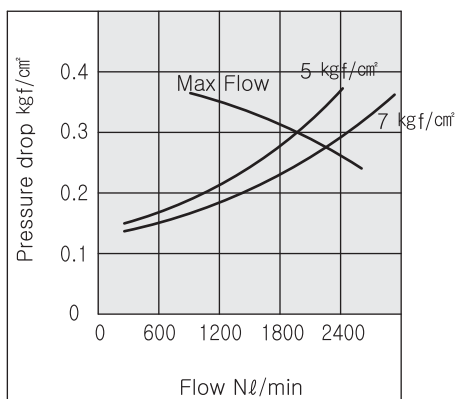
SAM 250



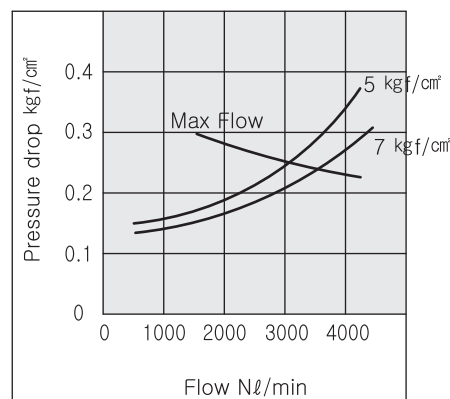
SAM 350



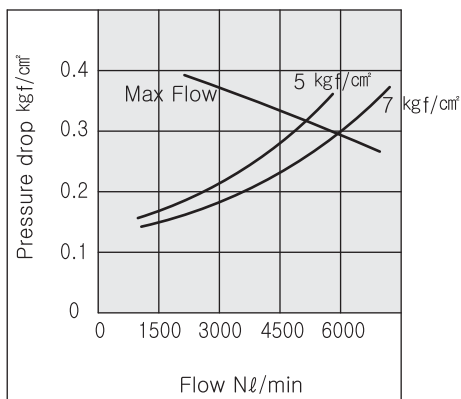
SAM 450



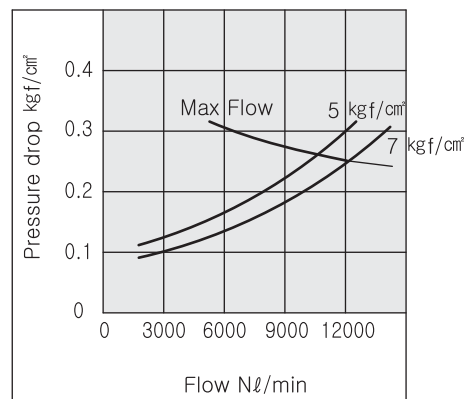
SAM 550



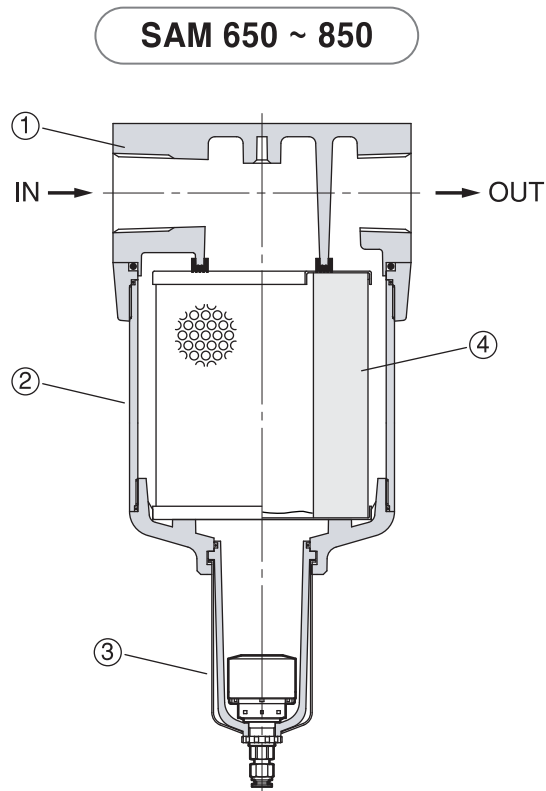
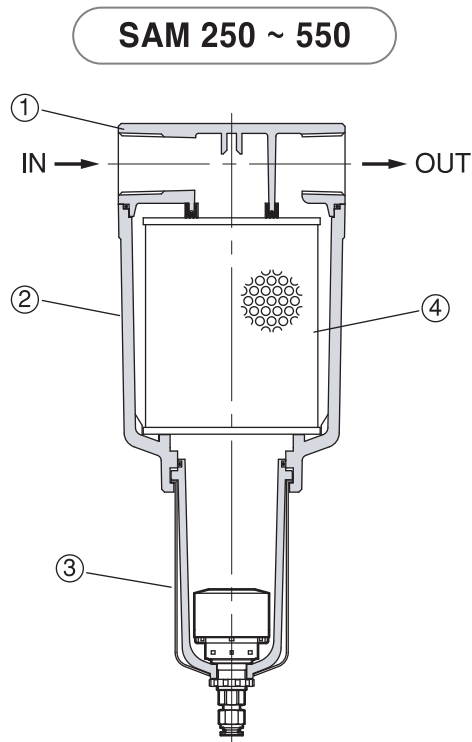
SAM 650



SAM 850



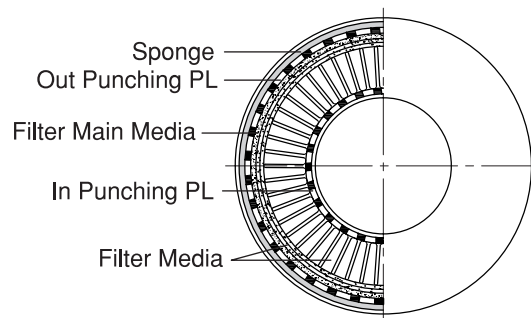
STRUCTURE / PARTS



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 (SAM Filter)

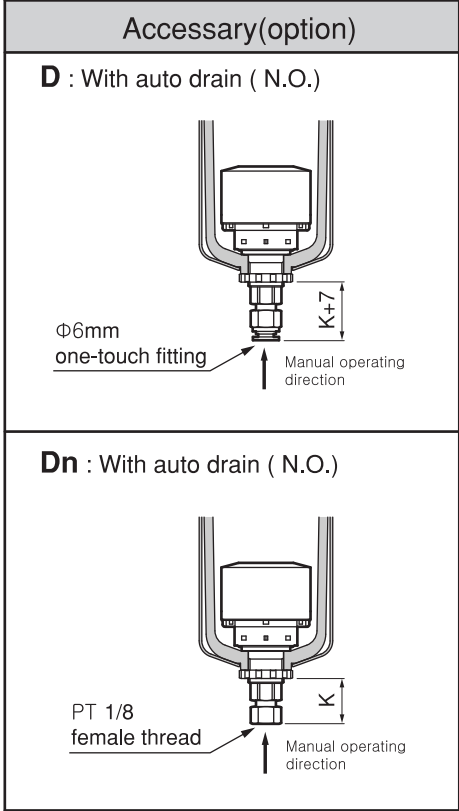
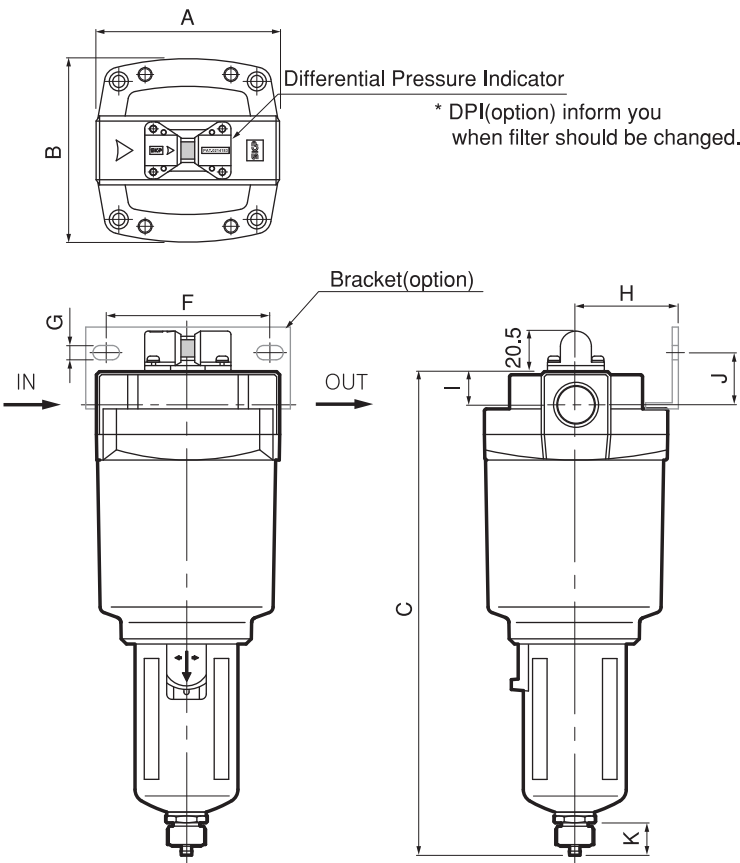


Replacement Parts

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

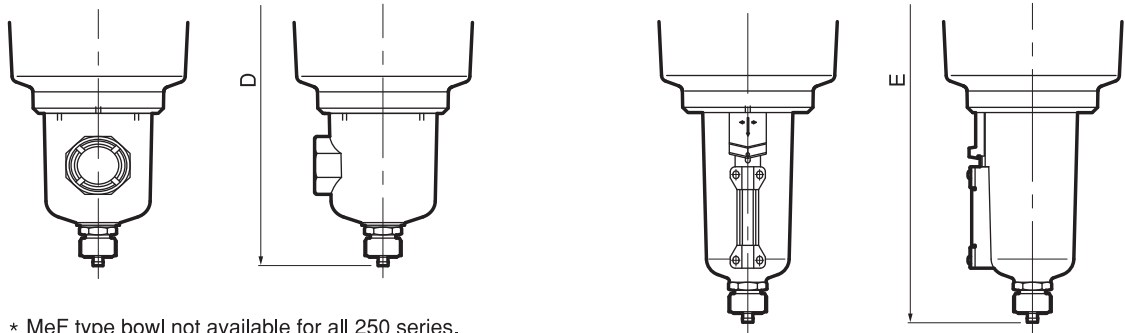
● DIMENSIONS (mm)

SAM 250~850



● **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)					
SAM 250	1/4	76	76	202	-	225	66	6	40	13	20
SAM 350	3/8, 1/2	90	90	250	217	252	80	7	50	16	22
SAM 450	3/4	106	106	283	250	285	90	9	55	19	25
SAM 550	3/4, 1	122	122	320	287	322	100	9	65	22	30
SAM 650	1 1/2	180	180	396	363	398	150	13	100	42	30
SAM 850	1 1/2, 2	180	180	507	474	509	150	13	100	42	30