

Main Line Filter

SAFL

SAFL250~850 Series

- SAFL series installed in the main line improve the function of later drier, prolong the expected life span of precision filter and prevent the troubles of machinery by eliminating the impurities such as moisture, oil, other foreign substances from the compressed air.



How to order

SAFL 350 - 04 BD - MeP - S

① Main Line Filter

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	0.05MPa [0.5 kgf/cm ²]
Max. supply pressure	1.5MPa [15.3 kgf/cm ²]
Ambient and media temperature	5 ~ 60 °C
Filtration	3μm(95% possible filtration particle)
Filter material	Glass fiber
Life of element	When pressure drop reaches at 0.1MPa[1 kgf/cm ²]

Precautions

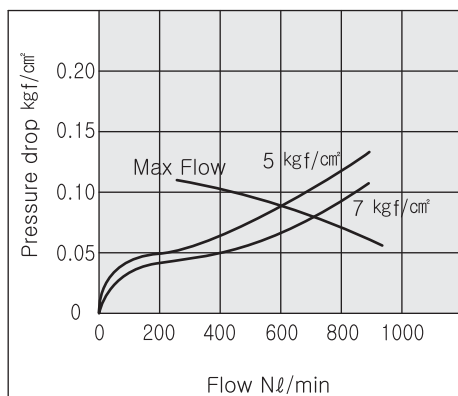
- Filter element should be changed after 2 years of using or when pressure drops to 1.0kgf/cm².
- When auto drain is used :
Drain piping should be both 4mm or greater in diameter and less than 1m in length.
Also should avoid setting drain piping upwards.
- When auto drain is out of order, it is possible 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.

● FLOW CHARACTERISTICS

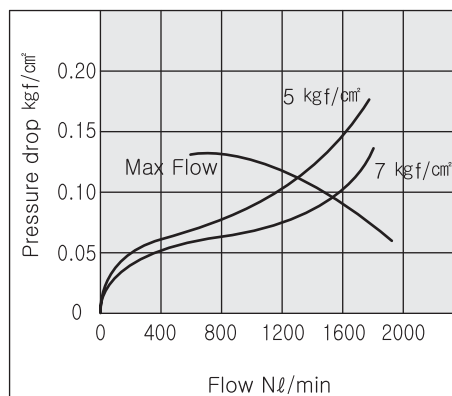
Oil saturated state of element

Note) If compressed air is over max. flow, main line filter cannot be operated well or element may be damaged.

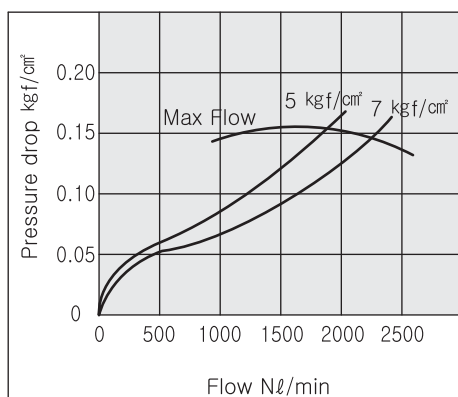
SAFL 250



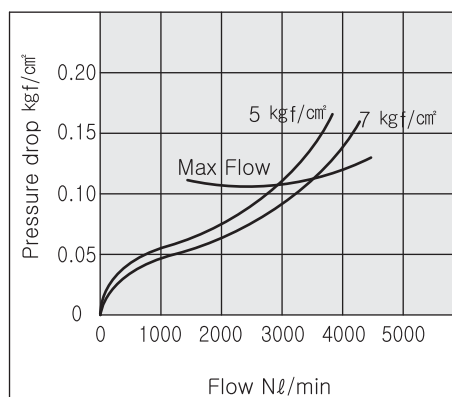
SAFL 350



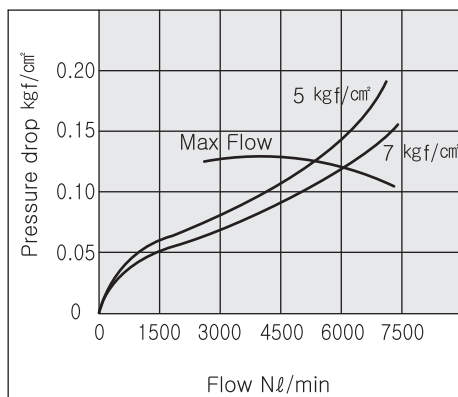
SAFL 450



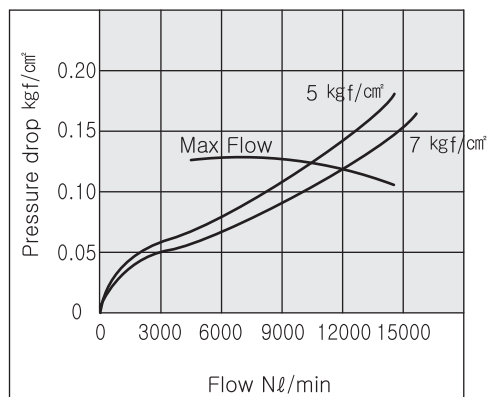
SAFL 550



SAFL 650

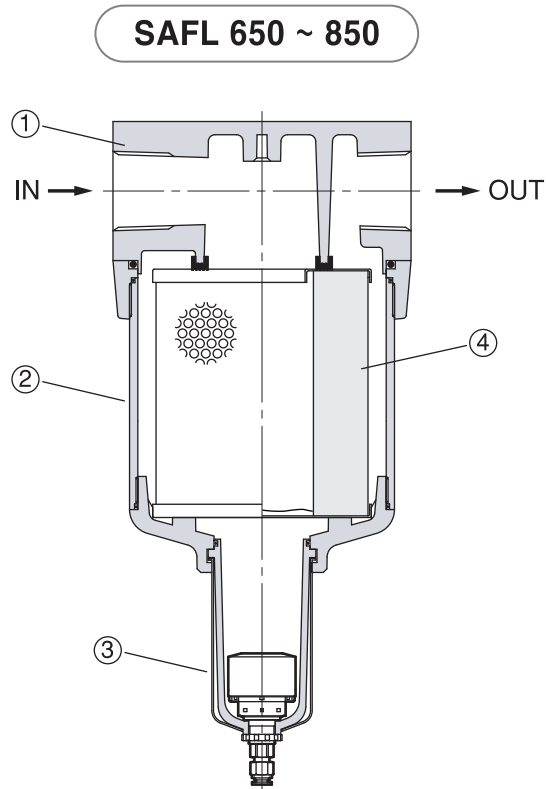
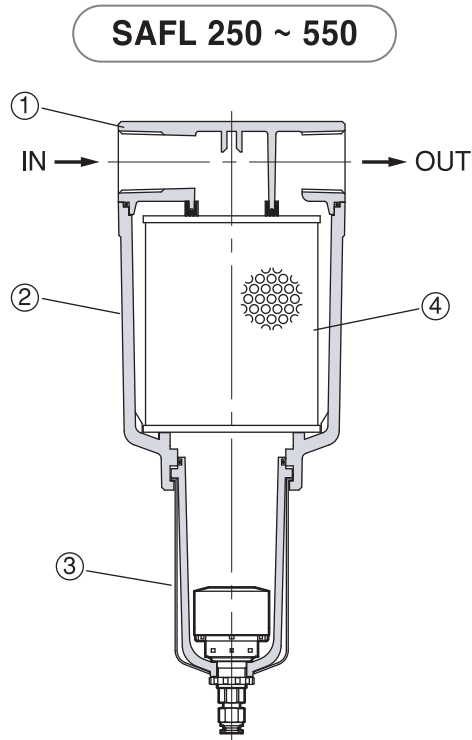


SAFL 850





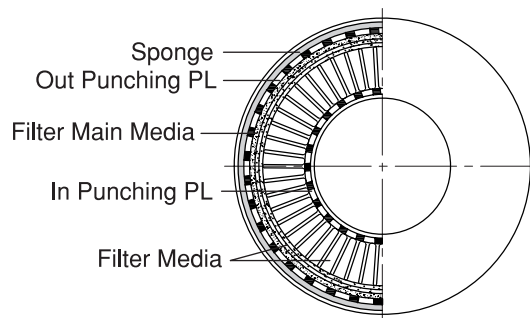
● STRUCTURE / PARTS



■ 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 (SAFL Filter)

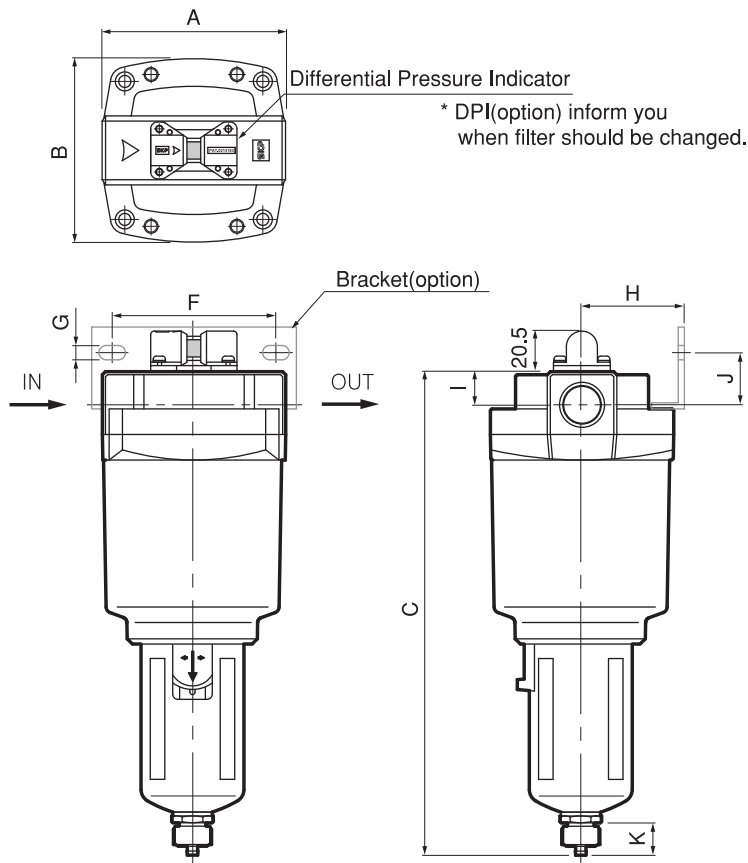


■ Replacement Parts

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

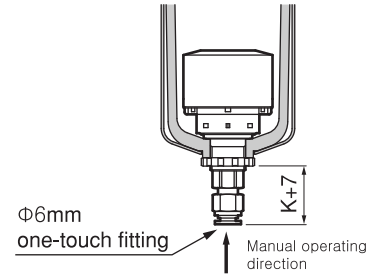
● DIMENSIONS (mm)

SAFL 250~850

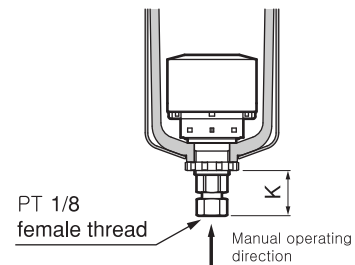


Accessory(option)

D : With auto drain (N.O.)

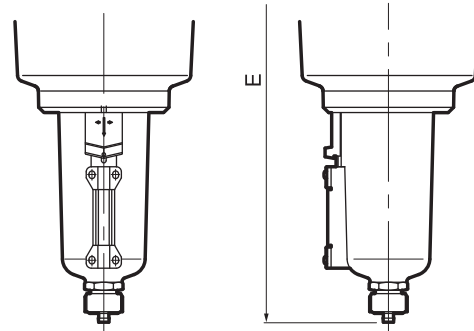
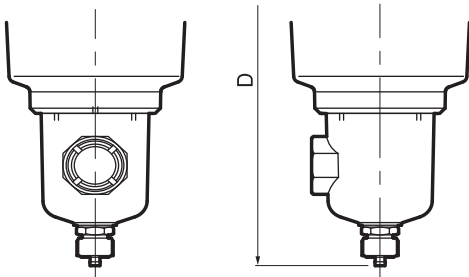


Dn : With auto drain (N.O.)



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