

Modular Type Air Filters *Series AF*

Air Filter Series AF  Page 328 through to 336	Model	Port size	Filtration (μm)	Options
	AF10	M5 x 0.8	5	Bracket Float type auto drain
	AF20	1/8, 1/4		
	AF30	1/4, 3/8		
	AF40	1/4, 3/8, 1/2		
	AF40-06	3/4		
	AF50	3/4, 1		
	AF60	1		
Mist Separator Series AFM  Page 338 through to 344	AFM20	1/8, 1/4	0.3	Bracket Float type auto drain
	AFM30	1/4, 3/8		
	AFM40	1/4, 3/8, 1/2		
	AFM40-06	3/4		
Micro Mist Separator Series AFD  Page 338 through to 344	AFD20	1/8, 1/4	0.01	Bracket Float type auto drain
	AFD30	1/4, 3/8		
	AFD40	1/4, 3/8, 1/2		
	AFD40-06	3/4		

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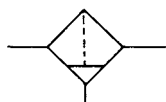
AV

**AF800
AF900**

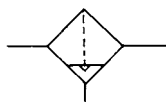
Air Filter

AF10 to AF60

JIS Symbol
Air Filter



Air Filter with Auto Drain



AF20



AF40

How to Order

AF **30** - **03** **BD** - **5** - **1**

① ② ③ ④ ⑤

Made to Order

(Refer to page 334 through to 336 for details.)

- Option/Semi-standard: Select one each for a to f.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
Example) AF30-03BD-2R

		Symbol	Description	1							
				Body size							
				10	20	30	40	50	60		
2	Thread type	Nil	Metric thread (M5)	●	—	—	—	—	—		
		Rc	—	●	●	●	●	●			
		N ^{Note 1)}	NPT	—	●	●	●	●	●		
		F ^{Note 2)}	G	—	●	●	●	●	●		
+											
3	Port size	M5	M5	●	—	—	—	—	—		
		01	1/8	—	●	—	—	—	—		
		02	1/4	—	●	●	—	—	—		
		03	3/8	—	—	●	●	—	—		
		04	1/2	—	—	—	●	—	—		
		06	3/4	—	—	—	●	●	—		
		10	1	—	—	—	—	●	●		
+											
4	Option	a	Mounting	Nil	Without mounting option	●	●	●	●	●	●
				B ^{Note 3)}	With bracket	—	●	●	●	●	●
	+										
	b	Float type auto drain	Nil	Without auto drain	●	●	●	●	●	●	
			C	Float type auto drain (N.C.)	●	●	●	●	●	●	
			D	Float type auto drain (N.O.)	—	—	●	●	●	●	
+											
5	Semi-standard	c	Bowl ^{Note 4)}	Nil	Polycarbonate bowl	●	●	●	●	●	●
				2	Metal bowl	●	●	●	●	●	●
				6	Nylon bowl	●	●	●	●	●	●
				8	Metal bowl with level gauge	—	—	●	●	●	●
				C	With bowl guard	—	●	—	—	—	—
				6C	Nylon bowl with bowl guard	—	●	—	—	—	—
	+										
	d	Drain port ^{Note 5)}	Nil	With drain cock	●	●	●	●	●	●	
			J ^{Note 6)}	Drain guide 1/8	—	●	—	—	—	—	
				Drain guide 1/4	—	—	●	●	●	●	
			W ^{Note 7)}	Drain cock with barb fitting: For ø6 x ø4 nylon tube	—	—	●	●	●	●	
	+										
	e	Flow direction	Nil	Flow direction: Left to right	●	●	●	●	●	●	
			R	Flow direction: Right to left	●	●	●	●	●	●	
+											
f	Pressure unit	Nil	Name plate and caution plate for bowl in imperial units: MPa	●	●	●	●	●	●		
		Z ^{Note 8)}	Name plate and caution plate for bowl in imperial units: psi, °F	○ ^{Note 9)}	○ ^{Note 9)}	○ ^{Note 9)}	○ ^{Note 9)}	○ ^{Note 9)}	○ ^{Note 9)}		

Note 1) Drain guide is NPT1/8 (applicable to the AF20) and NPT1/4 (applicable to the AF30 to AF60). The auto drain port comes with ø3/8" one-touch fitting (applicable to the AF30 to AF60).

Note 2) Drain guide is G1/8 (applicable to the AF20) and G1/4 (applicable to the AF30 to AF60).

Note 3) A bracket is not assembled and supplied loose at the time of shipment. Including 2 mounting screws

Note 4) Refer to Chemical Data on page 287 when selecting a case material.

Note 5) Float type auto drain: The combination of C and D is not possible.

Note 6) Without a valve function

Note 7) Metal bowl: The combination of 2 and 8 is not possible.

Note 8) For thread type: M5 and NPT. This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.)

Note 9) ○: For thread type: M5 and NPT only

Standard Specifications

Model	AF10	AF20	AF30	AF40	AF40-06	AF50	AF60
Port size	M5 x 0.8	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4	3/4, 1	1
Fluid	Air						
Ambient and fluid temperature	−5 to 60°C (with no freezing)						
Proof pressure	1.5 MPa						
Maximum operating pressure	1.0 MPa						
Nominal filtration rating	5 μm						
Drain capacity (cm³)	2.5	8	25	45			
Bowl material	Polycarbonate						
Bowl guard	—	Semi-standard	Standard				
Mass (kg)	0.06	0.18	0.22	0.45	0.49	0.99	1.05

Options/Part No.

Optional specifications		Model						
		AF10	AF20	AF30	AF40	AF40-06	AF50	AF60
Bracket assembly ^{Note 1)}		—	AF20P-050AS	AF30P-050AS	AF40P-050AS	AF40P-070AS	AF50P-050AS	AF50P-050AS
Float type auto drain ^{Note 2) Note 3)}	N.C.	AD17	AD27	AD37	AD47			
	N.O.	—	—	AD38	AD48			

Semi-standard/Bowl Assembly Part No.

Semi-standard specifications						Model						
Bowl material	Note 2) Note 3) Float type auto drain		Note 3) With drain guide	With barb fitting	With bowl guard	AF10	AF20	AF30	AF40	AF40-06	AF50	AF60
	N.C.	N.O.										
Polycarbonate	—	—	—	—	●	—	C2SF-C	—	—			
	●	—	—	—	●	—	AD27-C	—	—			
	—	—	●	—	—	—	C2SF-J	C3SF-J	C4SF-J			
	—	—	—	●	—	—	—	C3SF-W	C4SF-W			
	—	—	●	—	●	—	C2SF-CJ	—	—			
Nylon	—	—	—	—	—	C1SF-6	C2SF-6	C3SF-6	C4SF-6			
	—	—	—	—	●	—	C2SF-6C	—	—			
	●	—	—	—	—	AD17-6	AD27-6	AD37-6	AD47-6			
	—	●	—	—	—	—	—	AD38-6	AD48-6			
	●	—	—	—	●	—	AD27-6C	—	—			
	—	—	●	—	—	—	C2SF-6J	C3SF-6J	C4SF-6J			
	—	—	—	●	—	—	—	C3SF-6W	C4SF-6W			
Metal	—	—	●	—	●	—	C2SF-6CJ	—	—			
	—	—	—	—	—	C1SF-2	C2SF-2	C3SF-2	C4SF-2			
	●	—	—	—	—	AD17-2	AD27-2	AD37-2	AD47-2			
	—	●	—	—	—	—	—	AD38-2	AD48-2			
Metal bowl with level gauge	—	—	●	—	—	—	C2SF-2J	C3SF-2J	C4SF-2J			
	—	—	—	—	—	—	—	C3LF-8	C4LF-8			
	●	—	—	—	—	—	—	AD37-8	AD47-8			
	—	●	—	—	—	—	—	AD38-8	AD48-8			
	—	—	●	—	—	—	—	C3LF-8J	C4LF-8J			

Note 1) Assembly of a bracket and 2 mounting screws

Note 2) Minimum operating pressure: N.O. type—0.1 MPa; N.C. type—0.1 MPa (AD17/27) and 0.15 MPa (AD37/47). Please contact SMC for psi and °F unit specifications.

Note 3) Please consult with SMC for details on drain piping to fit NPT or G port sizes.

Note) • Bowl O-ring is included for the AF20 to AF60.

• Bowl assembly for the AF30 to AF60 models comes with a bowl guard (steel band material). (except when the bowl material is metal)

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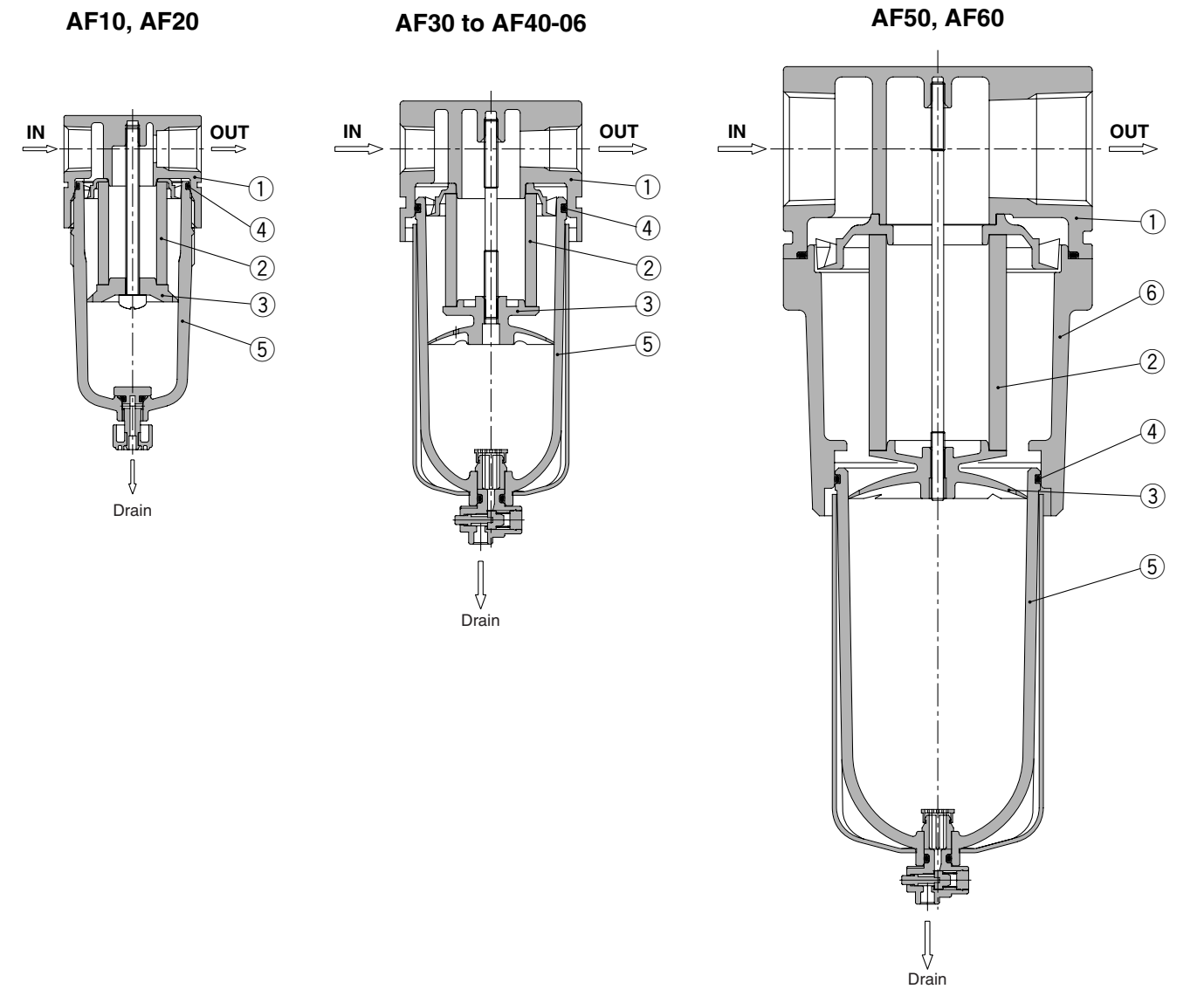
A□G

AV

AF800
AF900

Series AF10 to AF60

Construction



Component Parts

No.	Description	Material	Model	Color
1	Body	Zinc die-cast	AF10, AF20	Platinum silver
		Aluminum die-cast	AF30 to AF60	
6	Housing	Aluminum die-cast	AF50, AF60	Platinum silver

Replacement Parts

No.	Description	Material	Part no.						
			AF10	AF20	AF30	AF40	AF40-06	AF50	AF60
2	Filter element	Non-woven fabric	AF10P-060S	AF20P-060S	AF30P-060S	AF40P-060S		AF50P-060S	AF60P-060S
3	Baffle	PBT	AF10P-040S ^{Note 1)}	AF20P-040S	AF30P-040S	AF40P-040S		AF50P-040S	AF60P-040S
4	Bowl O-ring	NBR	C1SFP-260S	C2SFP-260S	C3SFP-260S	C4SFP-260S			
5	Bowl assembly ^{Note 2)}	Polycarbonate	C1SF	C2SF	C3SF ^{Note 3)}	C4SF ^{Note 3)}			

Note 1) The material of the baffle for the AF10 (AF10P-040S) only is polyacetal.
 Note 2) Bowl O-ring is included. Please contact SMC regarding the bowl assembly supply for psi and °F unit specifications.
 Note 3) Bowl assembly for the AF30 to AF60 models comes with a bowl guard (steel band material).