

Operation manual

PRODUCT NAME

AIR FILTER

MODEL/ Series

 $AF10-M5(C)(-2,6,R,Z)-A\\ AF20-(F,N)01\sim (F,N)02(B,C)(-2,6,C,J,R,Z)-A\\ AF30-(F,N)02\sim (F,N)03(B,C,D)(-2,6,8,J,R,W,Z)-A\\ AF40-(F,N)02\sim (F,N)04(B,C,D)(-2,6,8,J,R,W,Z)-A\\ AF40-(F,N)06(B,C,D)(-2,6,8,J,R,W,Z)-A\\ AF50-(F,N)06\sim (F,N)10(B,C,D)(-2,6,8,J,R,W,Z)-A\\ AF60-(F,N)10(B,C,D)(-2,6,8,J,R,W,Z)-A$

SMC Corporation

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AIR FILTER Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage.

These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC), Japan Industrial Standards (JIS)*1) and other safety regulations*2).

*1) ISO 4414: Pneumatic fluid power -- General rules relating to systems

ISO 4413: Hydraulic fluid power -- General rules relating to systems

IEC 60204-1: Safety of machinery -- Electrical equipment of machines (Part 1: General requirements)

ISO 10218-1992: Manipulating industrial robots -- Safety

JIS B 8370: General rules for pneumatic equipment.

JIS B 8361: General rules for hydraulic equipment.

JIS B 9960-1: Safety of machinery – Electrical equipment for machines. (Part 1: General requirements)

JIS B 8433-1993: Manipulating industrial robots - Safety. etc.

*2) Labor Safety and Sanitation Law, etc.



Caution

Operator error could result in injury or equipment damage.

Operator error could result in serious injury or loss of life.



Warning

A Warning

Danger

In extreme conditions, there is a possibility of serious injury or loss of life.

/ Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results.

The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product.

This person should also continuously review all specifications of the product referring to its latest catalog information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly.

The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

3. Do not service or attempt to remove product and machinery/equipment until safety is confirmed.The inspection and maintenance of machinery/equipment should only be performed after measures to prevent

falling or runaway of the driven objects have been confirmed.

When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.

Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

- 4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.
 - 1) Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2) Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalog.
 - 3) An application which could have negative effects on people, property, or animals requiring special safety analysis.
 - 4) Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.



! Caution

The product is provided for use in manufacturing industries.

The product herein described is basically provided for peaceful use in manufacturing industries. If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary.

If anything is unclear, contact your nearest sales branch.

Limited warranty and Disclaimer/Compliance Requirements

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".

Read and accept them before using the product.

Limited warranty and Disclaimer

The warranty period of the product is 1 year in service or 1.5 years after the product is delivered. Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.

For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided.

This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.

Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products.

Compliance Requirements

When the product is exported, strictly follow the laws required by the Ministry of Economy, Trade and Industry (Foreign Exchange and Foreign Trade Control Law).

Precautions for design

/\text{WARNING}

- ① Consult SMC if no leakage is allowed due to the environment, or operating fluid is not air.
- ② External parts including the handle (Material: polyacetal) and bowl (Material: polyacarbonate) are made of resin. Organic solvents including synthetic fluid, chemicals including acetone, alcohol, ethylene chloride, sulphuric acid, nitrate, hydrochrolic acid, cutting oil, kerosene, gasoline, lock material of screw are harmful. Do not use the filter regulator where containing those.

Effects organic solvents and chemicals, and where these elements are likely to adhere to the equipment.

Chemical data for substances causing degradation (Reference)

Typo	Chemical name	Application examples	mples Material Nulan	
Туре	Chemical name	Application examples	Polycarbonate	Nylon
Acid	Hydrochloric acid Sulphuric acid, Phosphoric acid Chromic acid	Acid washing liquid for metals	Δ	×
Alkaline	Sodium hydroxide (Caustic soda) Potash Calcium hydroxide (Slack lime) Ammonia water Carbonate of soda	Degreasing of metals Industrial salts Water-soluble cutting oil	×	0
Inorganic salts	Sodium sulphide Sulphate of potash Sulphate of soda	-	×	Δ
Chlorine solvents	Carbon tetrachloride Chloroform Ethylene chloride Methylene chloride	Cleaning liquid for metals Printing ink Dilution	×	Δ
Aromatic series	Benzene Toluene Paint thinner	Coatings Dry cleaning	×	Δ
Ketone	Acetone Methyl ethyl ketone Cyclohexane	Photographic film Dry cleaning Textile industries	×	×
Alcohol	Ethyl alcohol IPA Methyl alcohol	Antifreeze Adhesives	Δ	×
Oil	Gasoline Kerosene	-	×	0
Ester	Phthalic acid dim ethyl Phthalic acid diethyl Acetic acid	Synthetic oil Anti-rust additives	×	0
Ether	Methyl ether Ethyl ether	Brake oil additives	×	0
Amino	Methyl amino	Cutting oil Brake oil additives Rubber accelerator	×	×
Other	Thread -lock fluid Seawater Leak tester	-	×	Δ
С	\circ : Essentially safe $\qquad riangle$:	Some effects may occu	r × : Effects	s will occur

When the above factors are present, or there is some doubt, use a metal case for safety.

- ③ Avoid the application where charge and discharge of pressure to bowl is switched frequently. This may damage the bowl. A metal bowl is recommended in these cases.
- ④ Protect from ultra violet ray and radiation heat by shield.

!CAUTION

① AD17-A and AD27-A with auto drain may leak during exhaust of pressure. (This leakage is allowed in their constructions and not failure.) Be sure to connect piping for drain.

Selection

/ WARNING

- ① Mineral grease used on internal surfaces and packing may leak to the outlet. Please contact SMC if this is a problem.
- ② N.O. type auto drain should be used under the following requirements to avoid operating failure Output of compressor: 0.75kW or more.
 - Discharged flow rate: 100L/min (ANR) or more.
 - If multiple auto drains are used, confirm used compressor has capacity over the result of multiplying the above capacity and the number of used auto drains.
 - {For example, in case of two auto drain, the compressor need the capacity over 1.5kW [200L/min (ANR)].}
 - Operating pressure: 0.1MPa or more at min..
- ③ N.C. type auto drain should be used under the following requirements to avoid operating failure Operating pressure: 0.1MPa or more at min. for AD17-A and AD27-A, 0.15MPa or more at min. for AD37-A and AD47-A.

Installation

A CAUTION

- ① Do not drop nor apply impact during transportation or installation. This can cause damage to the product.
- ② Do not install in areas of high humid or high temperature. It causes damage of the product and malfunction.
- ③ Connect the air filter ensuring the direction of "□" (IN) and "□" (OUT) for air direction or an arrow. Wrong connection may cause malfunction.
- 4 Install vertically so that outlet of drain would turned downward. Use with the outlet of drain turned horizontal or upward causes malfunction.
- ⑤ Make a space to provide easy access at the bottom when replacing element or draining bowl. The required space is shown on 「11. Dimensions」 (P20).

Piping

MARNING

- ① Blow out or clean piping before piping to eliminate swarf, cutting oil, solid foreign material. Contamination of piping may cause damage or malfunction.
- When installing piping, avoid chips and sealing materials from piping screws entering the inside of equipment. Or malfunction may occur. When use sealing tapes, leave 1.5 ~ 2 threads of the end of thread exposed.
- ③ Hold the female screw side and screw in piping with recommended tightening torque. Insufficient tightening torque lead to cause loose piping or sealing failure. Excessive torque may lead to cause screw breakage. Tightening without holding female screw side applies excessive force to the piping bracket which lead to cause breakage.

Recommended torque unit: N·m

Screw	M5	1/8	1/4	3/8	1/2	3/4	1
Torque	*1	7~9	12~14	22~24	28~30	28~30	36~38

- *1: First, tighten it by hand, then give it an additional 1/6 turn with a wrench.
- ④ Do not apply any torsional moment, or bending moment except the weight of the air filter itself. External piping needs to be supported separately. Hard piping like steel tube is susceptible to excessive moment load or vibration. Insert the flexible tube to cancel the influence.
- ⑤ Drain guide is not equipped with valve function. Be sure to connect piping for drain. No piping for drain allows the drain and compressed air to exhaust freely. Also, the piping should be performed with drain guide held by spanner to prevent breakage of bowl.

⑥ The piping for drain from auto drain should be connected under the following requirements to avoid operating failure.

AD17-A, AD27-A: I.D. Φ 2.5 (Φ 3/32") at min., Length 5m (200") at max. AD37, 47(N)-A: I.D. f4 (Φ 3/16") at min., Length 5m (200") at max. AD38, 48(N)-A:: I.D. Φ 6.5 (Φ 1/4") at min., Length 5m (200") at max.

Air Source

! WARNING

- ① Use clean air. Compressed air containing chemicals, organic solvent, synthetic oil or corrosive gas may lead to cause breakage of parts or malfunction.
- ② Air containing too much moisture may cause malfunction. Install the air drier or the aftercooler before the air filter.

Maintenance

MARNING

- ① Maintenance and checks should be done by following the procedure in the operation manual. Incorrect handling of the product may cause breakage or malfunction of the equipment or device.
- ② Perform periodical check to find cracks, flaws or other deterioration on resin bowl. If any of them is seen, as malfunction is caused, replace with new bowl.
- ③ Check for dirt in resin bowl periodically. If any dirt is seen, replace with new bowl. And if removing off the dirt by washing instead of using a replacement, never use washing material other than neutral detergent. Otherwise, the bowl is damaged.
- ④ Open and close drain cock manually. Open and close too much may damage the drain cock.
- ⑤ Replace the element before 2 years passed since purchase or pressure drop from initial outlet pressure reaches 0.1MPa. Or the element is broken.
- (6) Drain the bowl by opening drain cock before the drain level in the bowl reaches baffle.

ACAUTION

- ① Rotate the handle counterclockwise (O←direction) to exhaust the condensate of the C1SF-A, C2SF(-C)-A.
 - Press the push button to exhaust the condensate of the C3SF(-W)-A and C4SF(-W)-A.
- ② Check the element periodically and replace it with a new one if necessary. If it is found that outlet pressure drops or the flow is restricted, check the condition of the element.
- ③ The manual exhaust for emergency case can be performed by counterclockwise rotation of the handle in AD17-A and AD27-A. (O←direction)
 - For AD37-A, AD38-A, AD47-A and AD48-A, rotate the drain cock counterclockwise in that case.(O←direction)

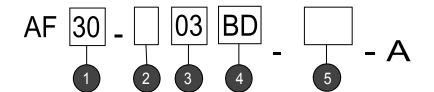
2. APPLICATION

This product aims at eliminating excess moisture and solid foreign material in the air line.

3. SPECIFICATIONS

Model	AF10-A	AF20-A	AF30-A	AF40-A	AF40-06-A	AF50-A	AF60-A		
Port size	M5	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		-5 ~ 60°C (Should be no freezing)							
temperature		-5 % 60 C (Should be no freezing)							
Proof pressure		1.5 MPa							
Max. operating pressure	1.0 MPa								
Filtration				5 µm					
Drain capacity (cm ³)	2.5	8	25		4	·5			
Bowl material				Polycarbonate	Э				
Bowl guard	-	Semi-standard (Steel plate)	0(/ /)						
Mass (kg)	0.06	0.08	0.18 0.36 0.41 0.87 1.00						

4. HOW TO ORDER

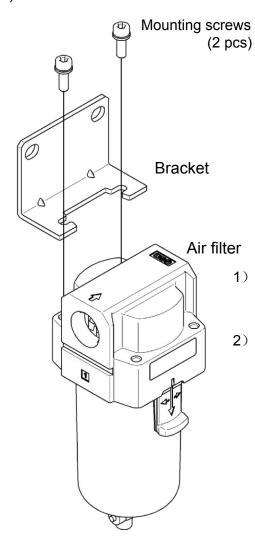


								1			
				Symbol	Description			Body	size		
						10	20	30	40	50	60
				Nil	Meter thread (M5)	•	_	-	-	-	-
2		Thr	and turns	1411	Rc	-	•	•	•	•	•
		Thread type		N	NPT	-	•	•	•	•	•
				F	G	-	•	•	•	•	•
				+							
				M5	M5	•	-	-	-	-	-
				01	1/8	-	•	-	-	-	-
				02	1/4	-	•	•	•	-	-
(3)		Port size		03	3/8	-	-	•	•	ı	-
				04	1/2	-	-	-	•	1	-
				06	3/4	-	-	-	•	•	-
				10	1	-	-	-	-	•	•
				+							
		а	Mounting	Nil	Without mounting option	•	•	•	•	•	•
		a	iviounting	В	With bracket	-	•	•	•	•	•
	Option			+		,					-
4) Dpt		Ele et true	Nil	Without auto drain	•	•	•	•	•	•
		b	Float type auto drain	С	With float type auto drain (N.C.)	•	•	•	•	•	•
			auto di airi	D	With float type auto drain (N.O.)	-	-	•	•	•	•
			•	+		•		•			
				Nil	Polycarbonate bowl	•	•	•	•	•	•
				2	Metal bowl	•	•	•	•	•	•
		С	Bowl	6	Nylon bowl	•	•	•	•	•	•
				8	Metal bowl with sight glass		-	•	•	•	•
				C 6C	With bowl guard (steel plate)	<u> </u>	•	-	-	-	
				+	With bowl guard (steel plate) Nylon bowl	_		-	-	_	
	ard		T	Nil	With drain cock	•	•	•	•		•
	pu			INII			•		•	•	
5	-sta	d	Drain port	J	Drain guide 1/8	-	•	-	-		-
	Semi-standard			14/	Drain guide 1/4	-	-	•		•	•
	Š		<u> </u>	W	Drain cock with barb fitting (For f6xf4 nylon tube)		-	•	•	•	•
			T	+ Niii	Elow direction : Left to right						
		е	Flow direction	Nil	Flow direction: Left to right	•	•	•	•	•	•
				R	Flow direction: Right to left	•	•	•	•	•	•
			1	+ Ni:i	Managara and an area of the second and the second a					_	
		f Pressure unit		Nil	Name plate and caution plate for bowl in imperial units : MPa	•	•	•	•	•	•
				Z	Name plate and caution plate for bowl in imperial units: psi, °F	•	•	•	•	•	•

[※] Please refer to the catalog when you select the model.

5. OPTIONAL BRACKET ASSEMBLY

1) Bracket



Installation of bracket
 Mount the bracket in the direction as shown in diagram.

2) Tightening of mounting screw

Two mounting screws are tightened by cross pointed driver or hexagon spanner for holding.

Refer to the table below for correct tool and the tightening torque required.

Air filter	Tools	Tightening torque
AF20-A	Cross pointed driver	0.75±0.2 N · m
AF30-A	Hexagon spanner: nominal 3	0.75±0.2 N · m
AF40-A	Hexagon spanner: nominal 4	1.5±0.2 N · m
AF50-A	Hayagan anannar naminal F	26102N - m
AF60-A	Hexagon spanner: nominal 5	2.6±0.3 N · m

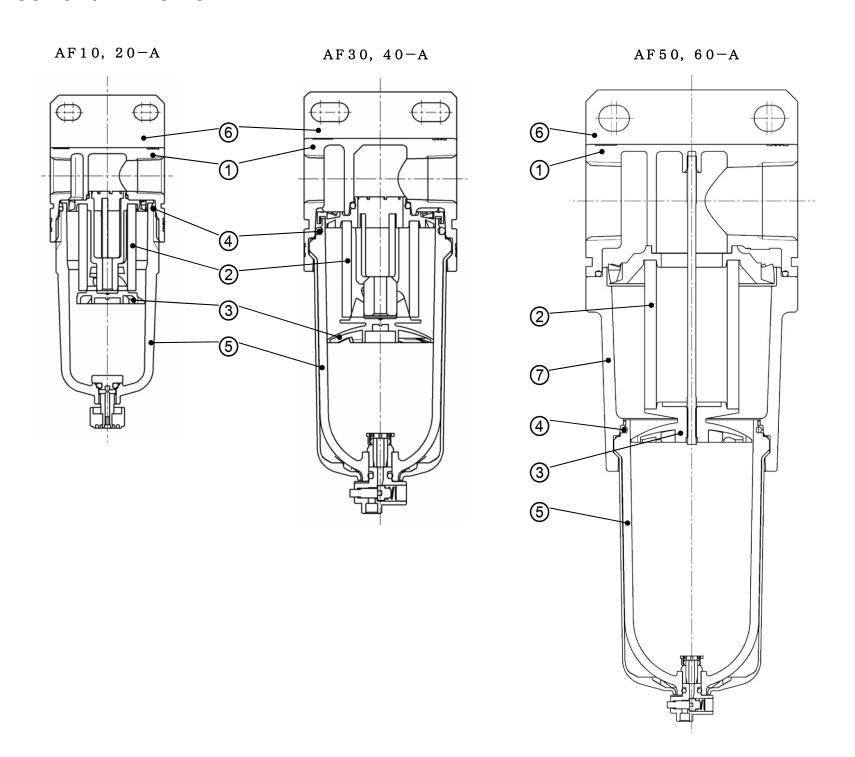
6. TROUBLESHOOTING

Refer to 「7. CONSTRUCTION / PARTS LIST」 (P10), 「10. DISASSEMBLY DRAWING」 (P18 to P19).

	OUBLE		,
DEMARCATION	PHENOMENON	POSSIBLE CAUSE	REMEDY
Flow rate	Large air resistance reduces flow rate.	1. Clog of the element.	1. Replace the element.
	Air leaks between the bowl and the body.	Breakage of bowl packing.	Replace the bowl packing. Grease up before assembling.
Air leaks	Air leaks from the bowl.	Breakage of bowl.	Replace the bowl assembly or with metal bowl.
	Air leaks from the drain cock.	 The foreign matter caught in the valve of the drain cock. 	Open the drain cock for a few seconds for blowing.
		Breakage of the seating part of the drain cock.	2. Replace the bowl assembly.
	No drainage when the drain cock is opened.	Blockage of outlet of the drain cock due to solid foreign matter etc.	Replace the bowl assembly.
Operational	Too much drain comes from the piping of outlet side.	1. Drain level reaches the baffle plate.	Open the drain cock for draining and replace the element.

Note) The grease used recommends fluorine grease.

7. CONSTRUCTION / PARTS LIST



Component Parts

No.	Description	Material Applicable model		Note
	Body	Zinc die cast	AF10-A	Urban white 1
		Aluminium die cast	AF20-A ~ AF40-06-A	Urban white 1
7	Housing	Aluminium die cast	AF50-A , AF60-A	Urban white 1

Option / Replacement Parts

No.	Description	Material	Part No.								
INO.	Description	Material	AF10-A	AF20-A	AF30-A	AF40-A	AF40-06-A	AF50-A	AF60-A		
2	Element	Polyolefin	AF10P-060S	AF20P-060S	AF30P-060S	AF40P-060S		AF50P-060S	AF60P-060S		
3	Baffle	PBT	Note1) AF10P-040S	AF22P-040S	AF32P-040S	AF42P-040S		AF50P-040S	AF60P-040S		
4	Bowl packing	NBR	C1SFP-260S		C32FP-260S	C42FP-260S					
	Bowl assembly	Polycarbonate									
(5)	Auto drain (N.C.)	Polycarbonate		Refer to "8 . S	PECIFICATIO	NS OF BOWL	ASSEMBLY"	(P11 to P19).			
	Auto drain (N.O.)	Polycarbonate									
6	Note2) Bracket		-	AF22P-050AS	AF32P-050AS	AF42P-050AS	AF42P-070AS	AF52P	-050AS		

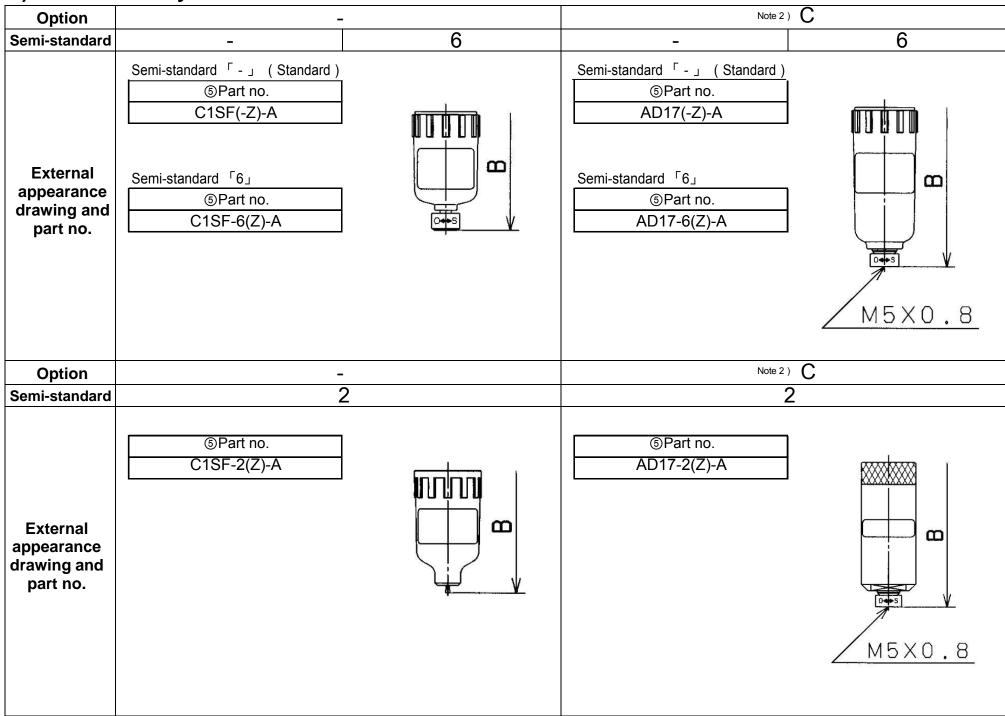
Note 1) For AF10 baffle material: POM (AF10P-040S only).

Note 2) Bracket with mounting screws.(2pcs)

Note 3) The number in the table is corresponding to the number in structural drawing (avobe-mentioned figure) and "8. SPECIFICATIONS OF BOWL ASSEMBLY" (P11 to P19), "10. DISASSEMBLY DRAWING" (P28 to P30).

8. SPECIFICATIONS OF BOWL ASSEMBLY

1) Bowl assembly / Auto drain for AF10-A



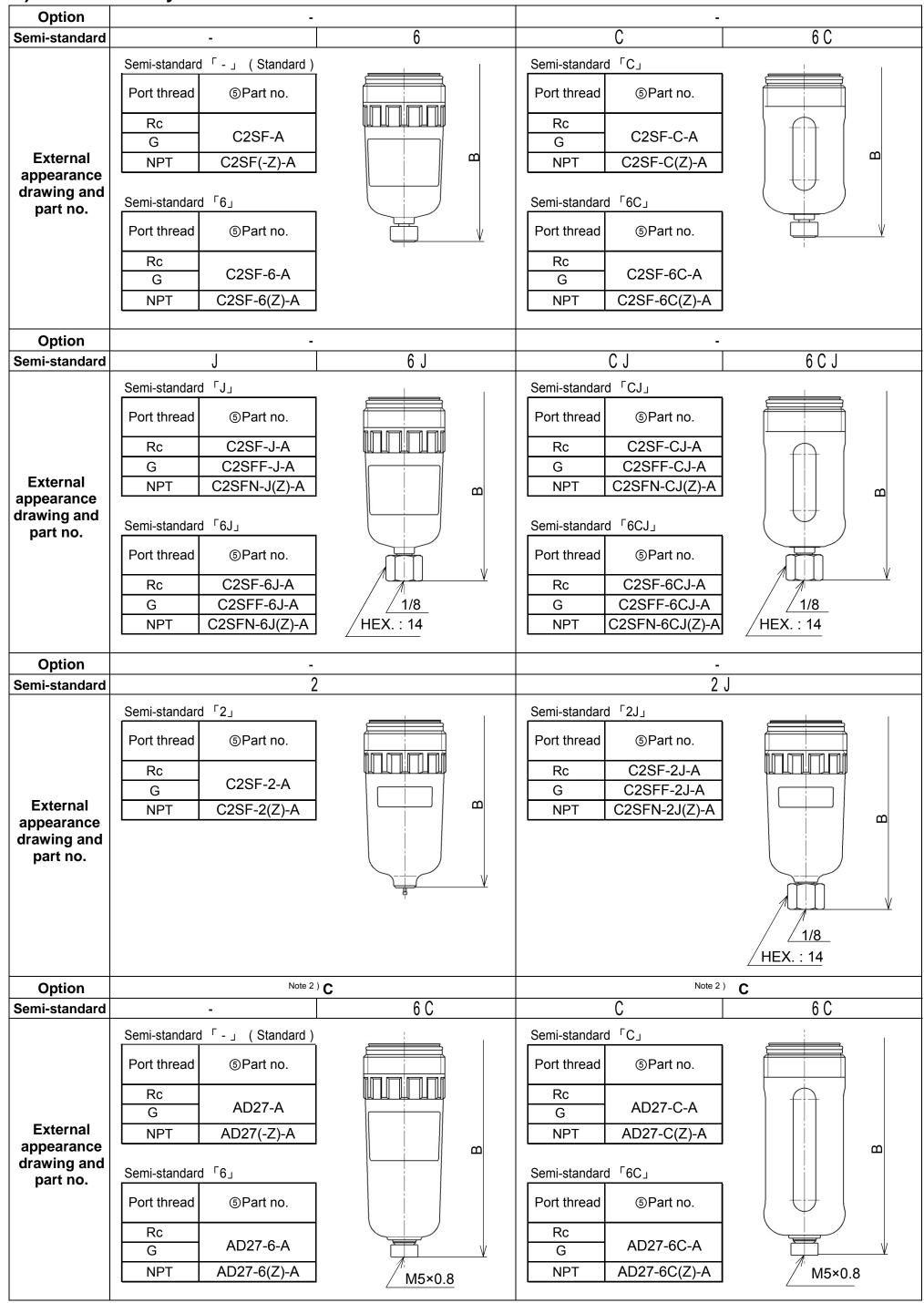
Note 1) B in the table shows full dimensions of the product. Refer to 「11. DIMENSIONS」 (P31).

Note 2) Min. operating pressure is 0.1MPa.

Note 3) "Z" of the part with no. ⑤ is semi-standard for indicated unit of pressure and temperature, which is psi and °F

Note 4) The symbol for option and semi-standard are described as 「4. HOW TO ORDER」 (P7).

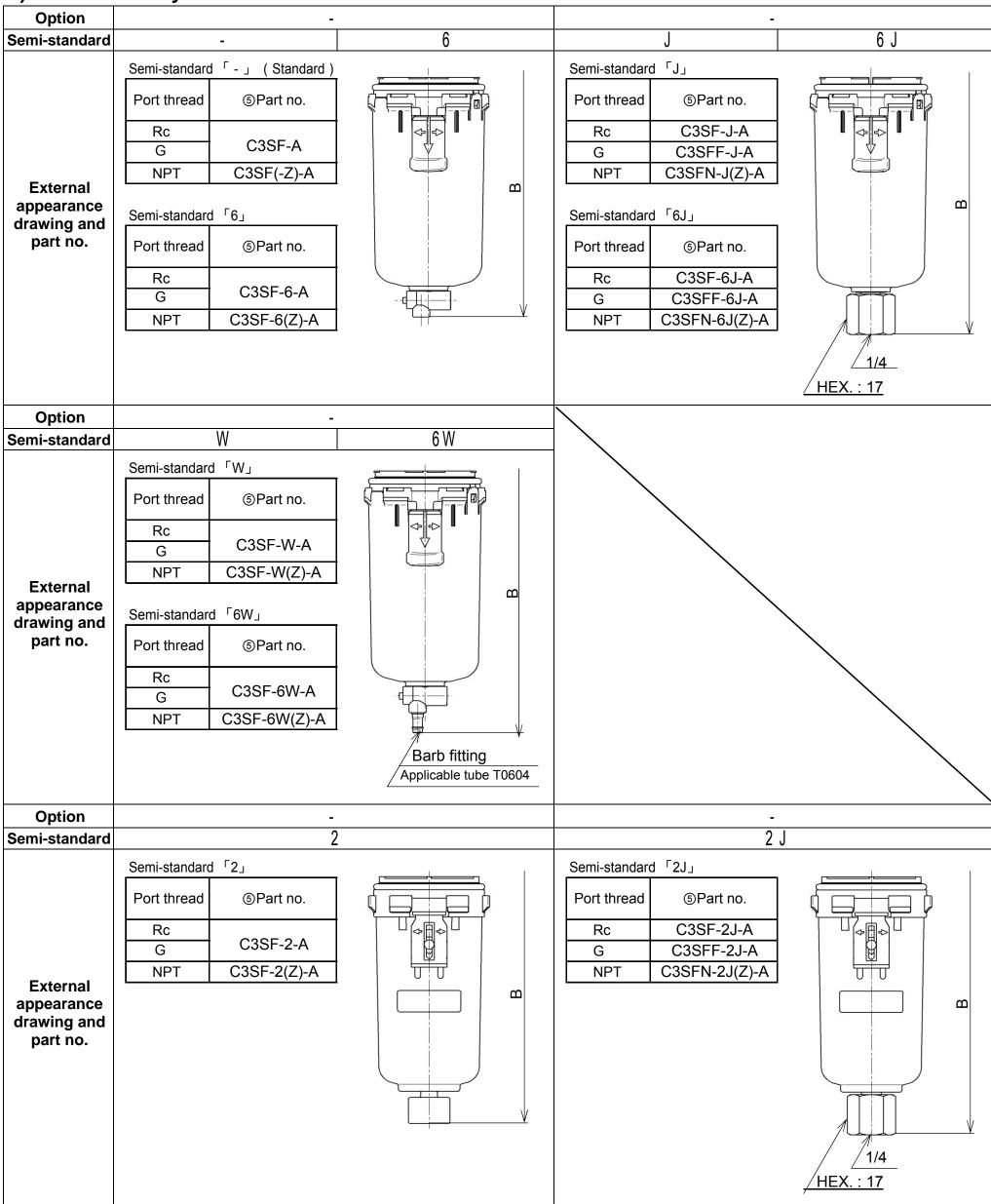
2) Bowl assembly / Auto drain for AF20-A

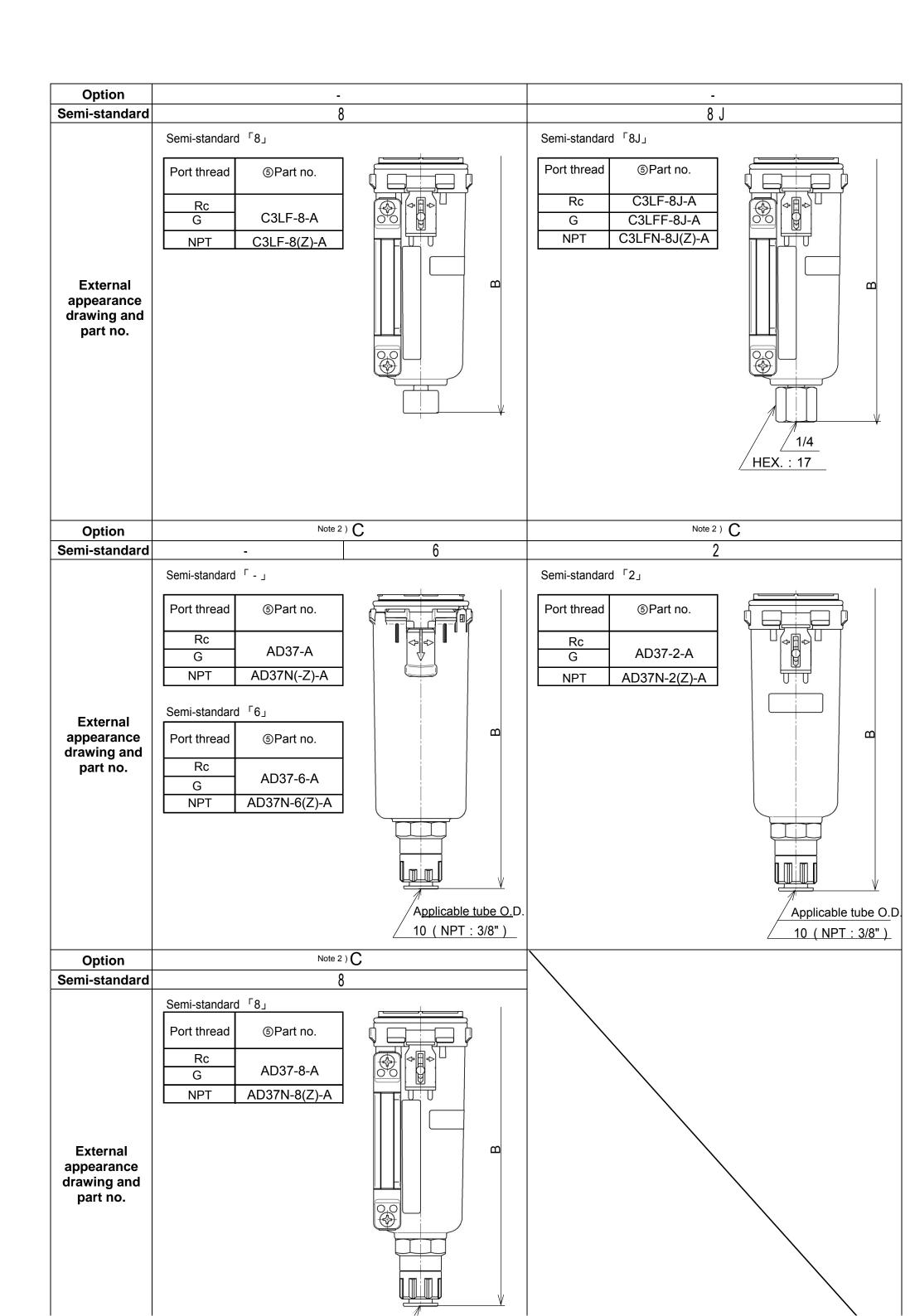


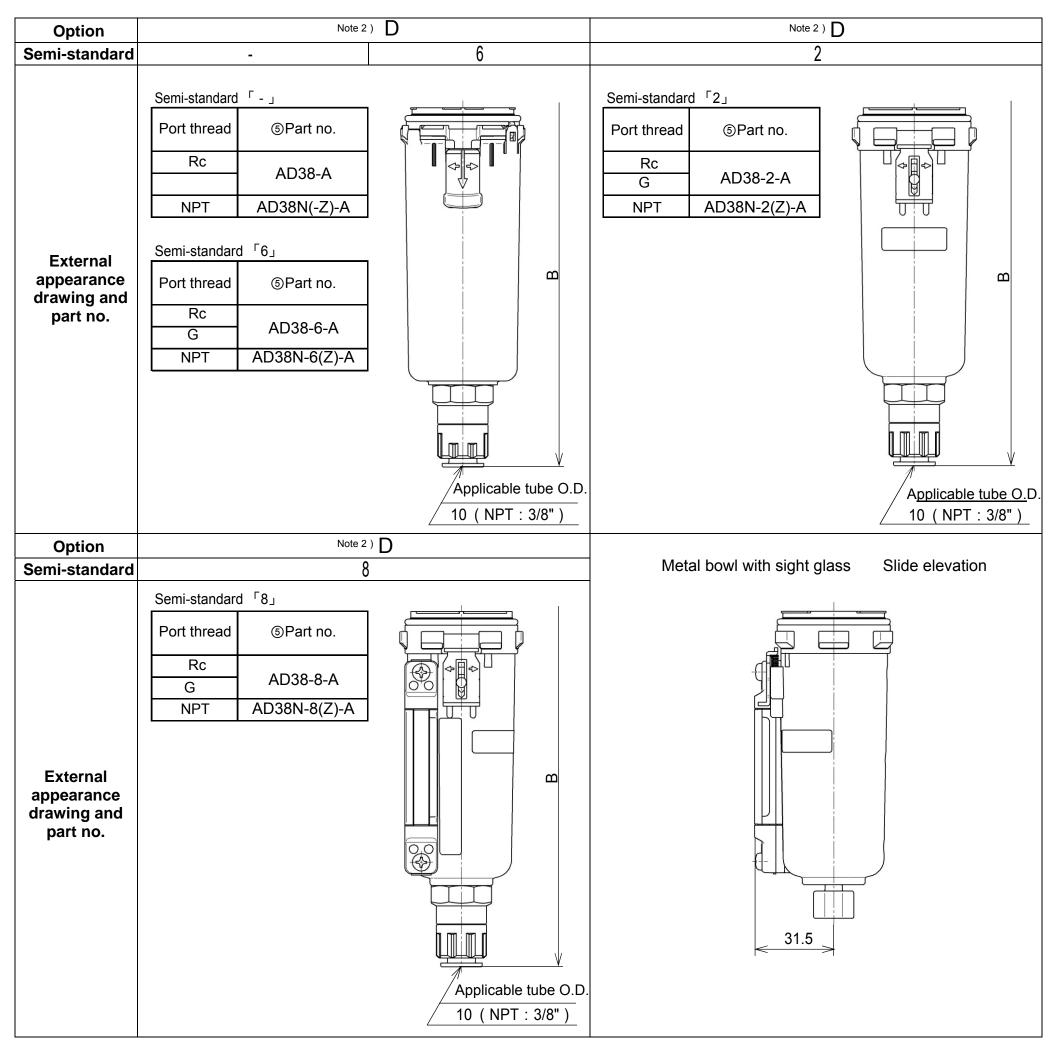
Option	Note 2)	C	
Semi-standard	2		
	Semi-standard 「2」		
	Port thread ⑤Part no.		
External	Rc AD27-2-A		
appearance	NPT AD27-2(Z)-A		
drawing and part no.		Δ	
part nor			
		/M5×0.8	

- Note 1) B in the table shows the distance from inlet piping centreline to drain port. Refer to "11. DIMENTIONS" (P31) .
- Note 2) Min. operating pressure is 0.1MPa.
- Note 3) The part with no. ⑤ includes ④ Bowl packing. Refer to "10. DISASSEMBLY DRAWING" (P28 to P30).
- Note 4) "Z" of the part with no. ⑤ is semi-standard for indicated unit of pressure and temperature, which is psi and °F.
- Note 5) The symbol for option and semi-standard are described as "4. HOW TO ORDER" (P7).

3) Bowl assembly / Auto drain for AF30-A







Note 1) B in the table shows the distance from inlet piping centreline to drain port. Refer to "11. DIMENTIONS" (P31) .

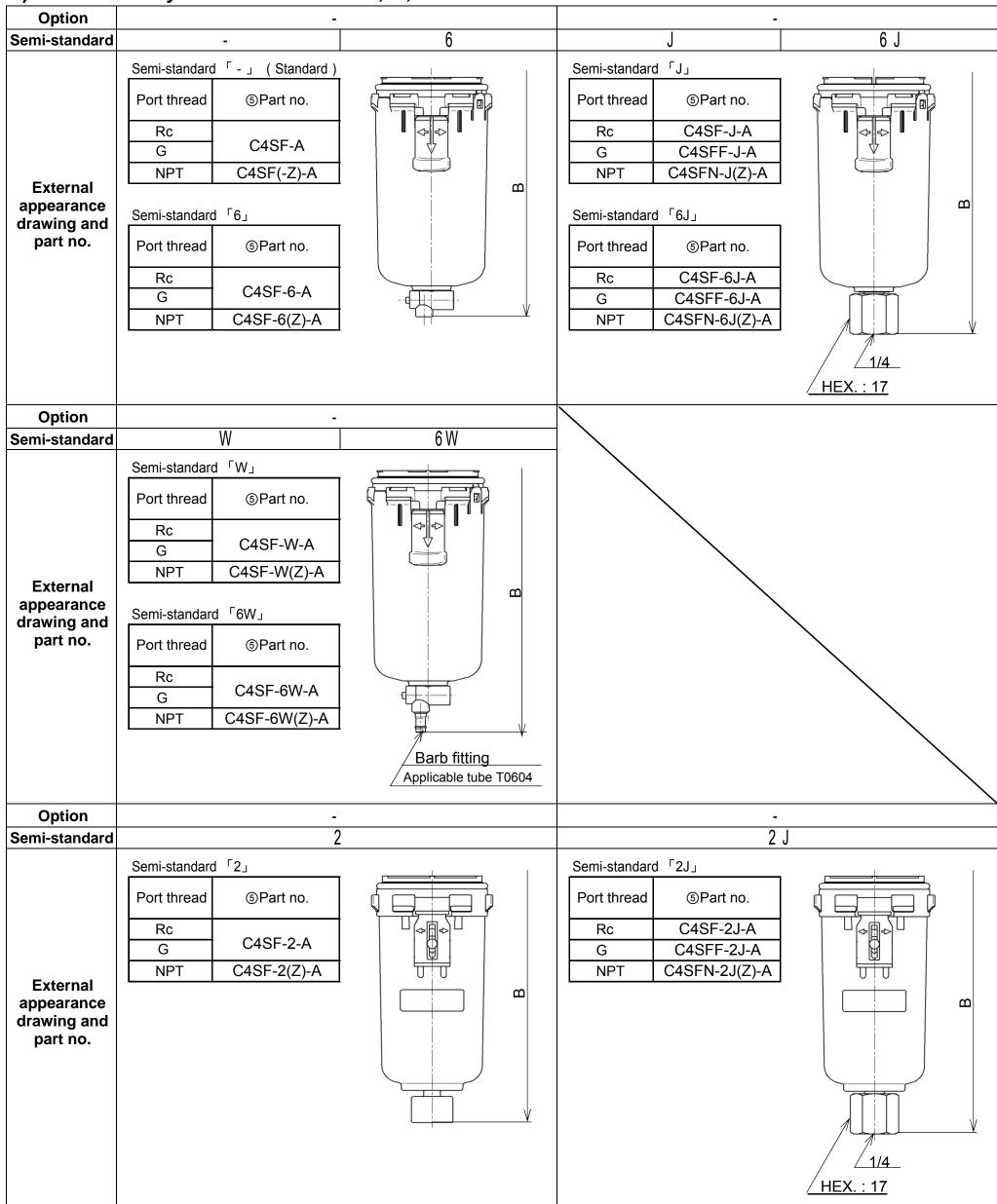
Note 2) Min. operating pressure is 0.15MPa for N.C. type and 0.1MPa for N.O. type.

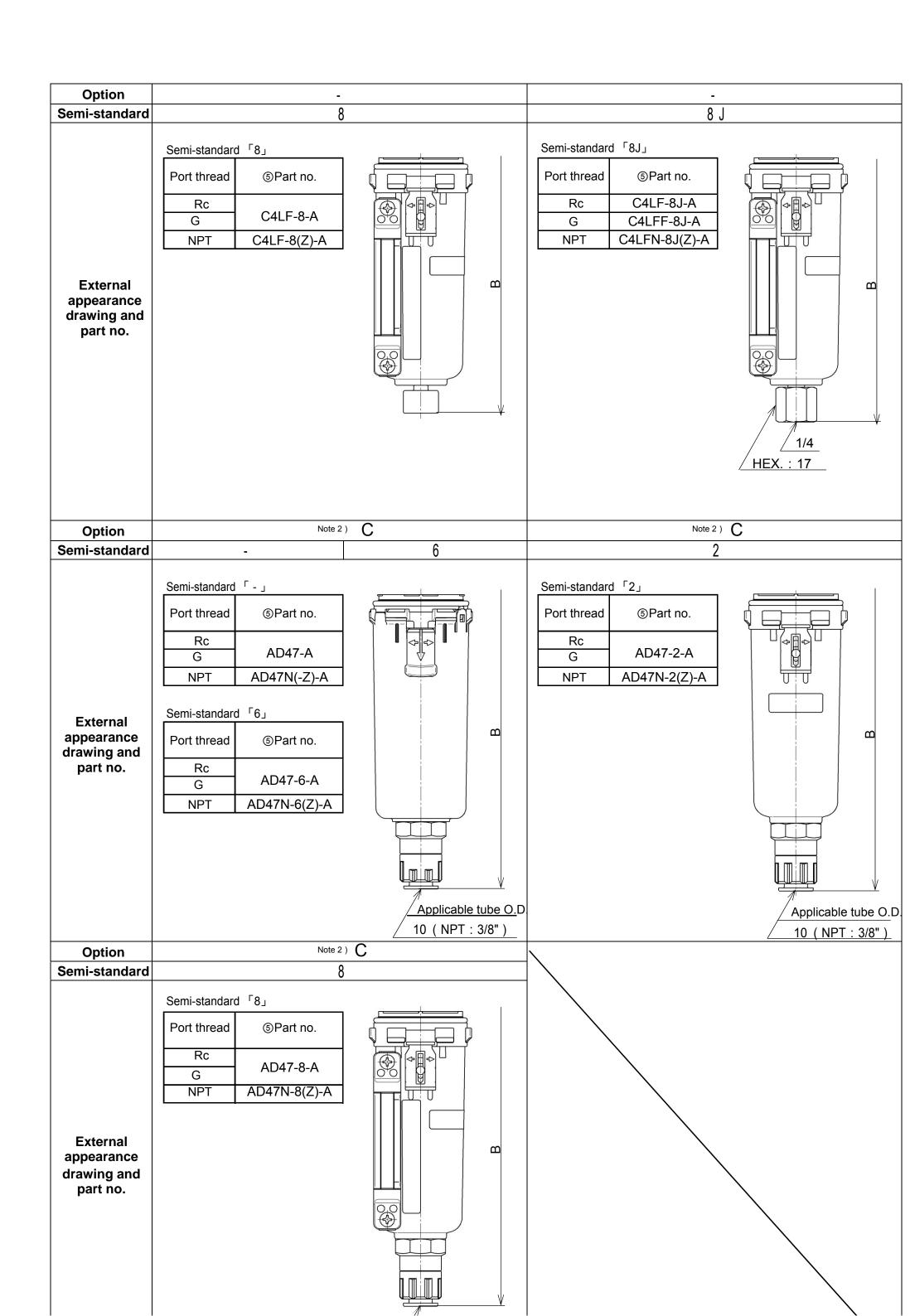
Note 3) The part with no. ⑤ includes ④ Bowl packing. Refer to "10. DISASSEMBLY DRAWING" (P28 to P30).

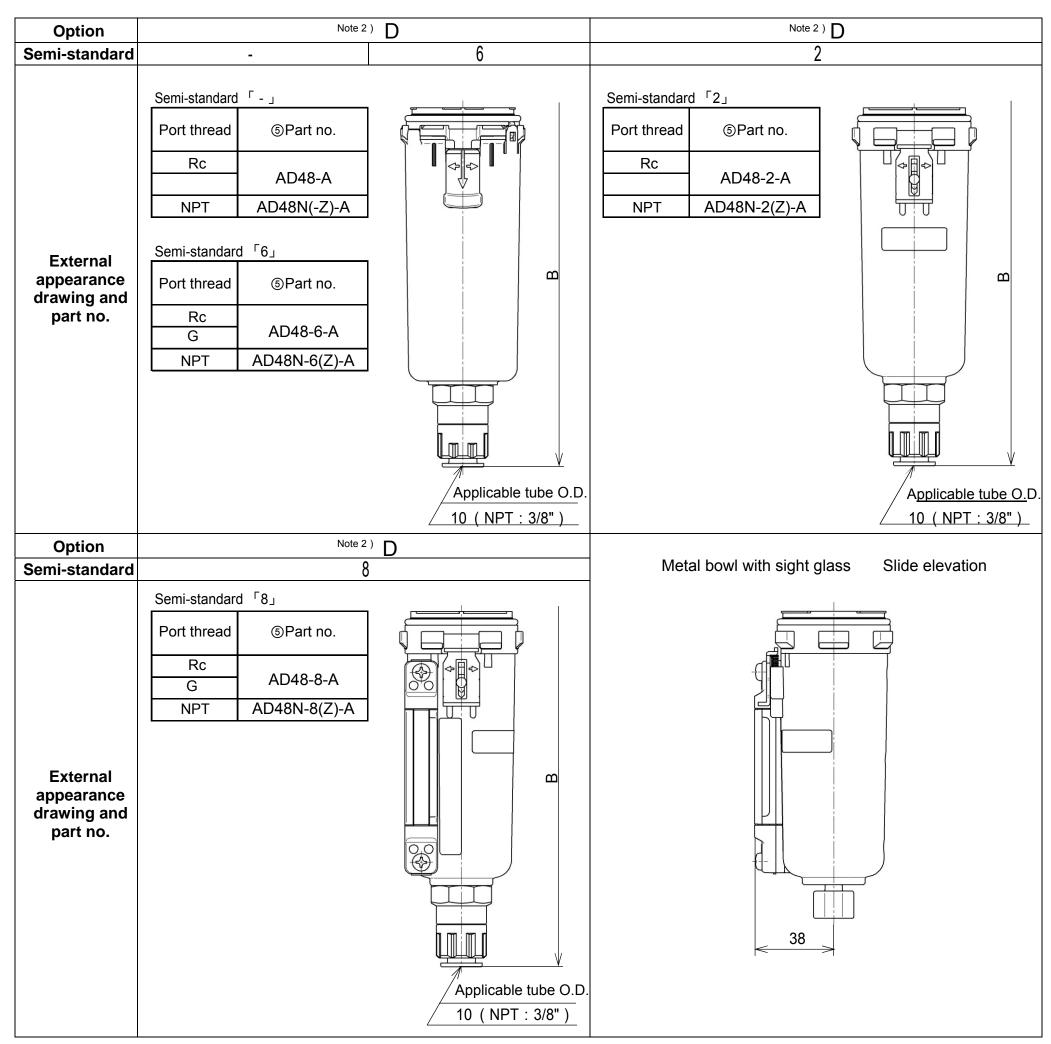
Note 4) "Z" of the part with no. ⑤ is semi-standard for indicated unit of pressure and temperature, which is psi and °F.

Note 5) The symbol for option and semi-standard are described as "4. HOW TO ORDER" (P7).

4) Bowl assembly / Auto drain for AF40,50,60-A







Note 1) B in the table shows the distance from inlet piping centreline to drain port. Refer to "11. DIMENTIONS" (P31) .

Note 2) Min. operating pressure is 0.15MPa for N.C. type and 0.1MPa for N.O. type.

Note 3) The part with no. ⑤ includes ④ Bowl packing. Refer to "10. DISASSEMBLY DRAWING" (P28 to P30).

Note 4) "Z" of the part with no. ⑤ is semi-standard for indicated unit of pressure and temperature, which is psi and °F.

Note 5) The symbol for option and semi-standard are described as "4. HOW TO ORDER" (P7).

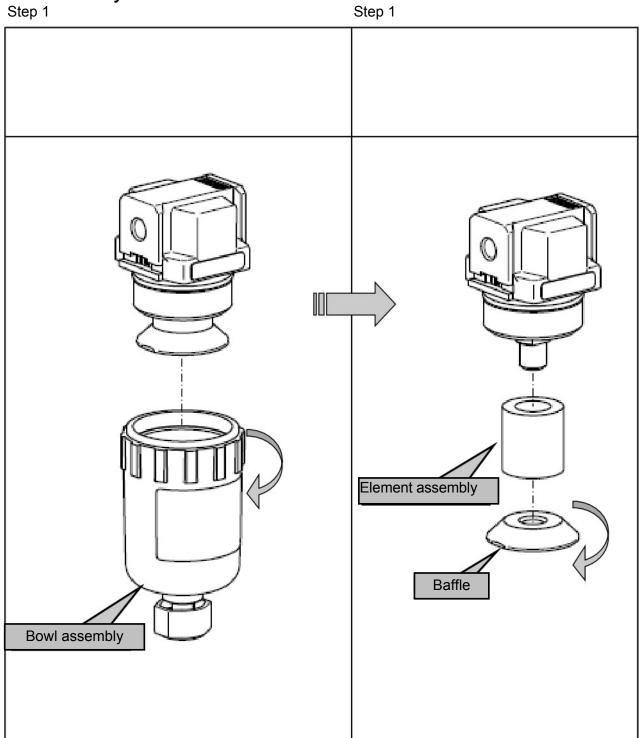
9. REPLACEMENT PROCEDURE

- ★ WARNING
 Before replacement, ensure that the air filter is not pressurized.
 Replace refering to "10. DISASSEMBLY DRAWING" (P28 to P30) .
- · After replacement, ensure that specified function is satisfied and external leakage is not found before starting operation.

1) Bowl assembly / element

[AF10 - A]

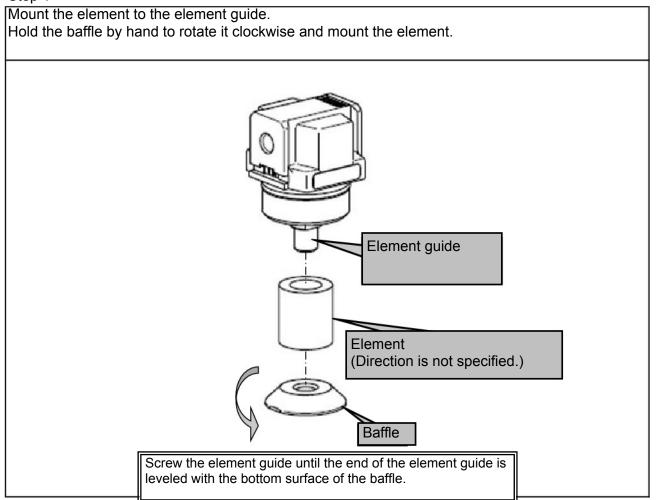
<Disassembly>

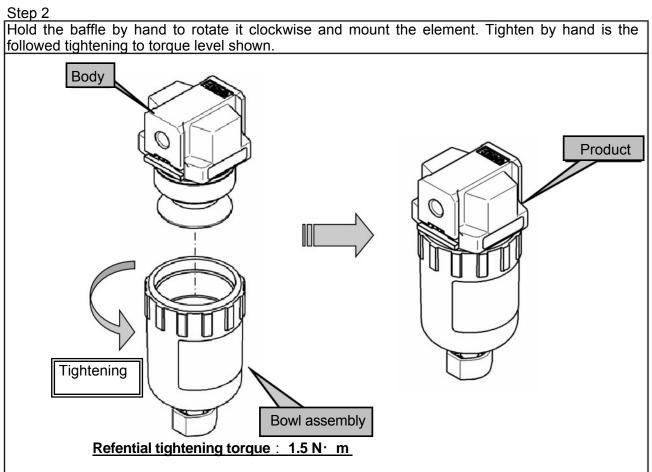


[AF10 - A]

<Assembly>

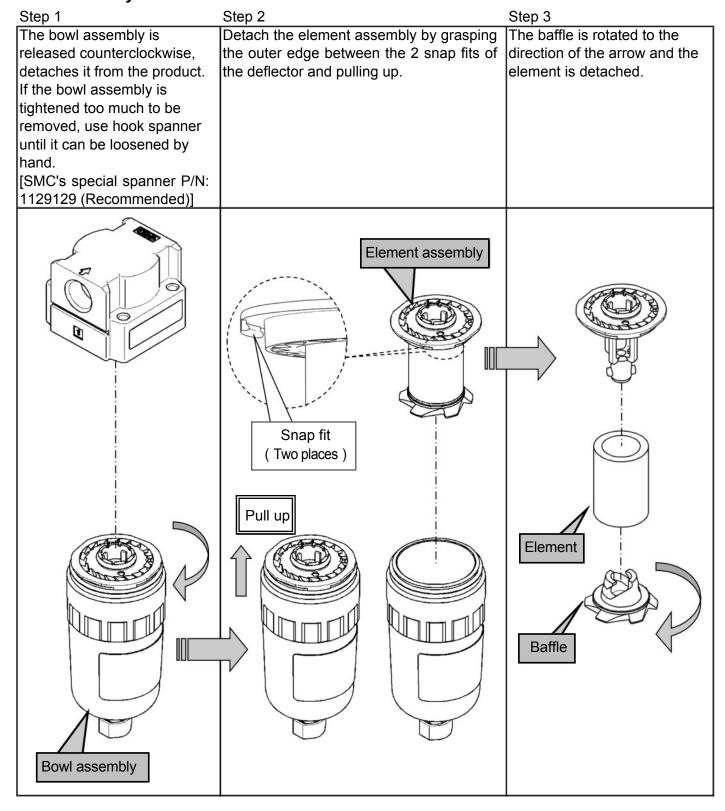
Step 1





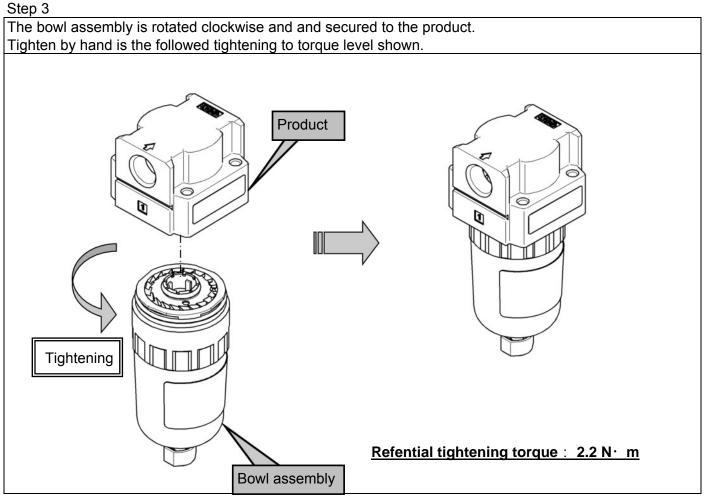
[AF20 - A]

<Disassembly>

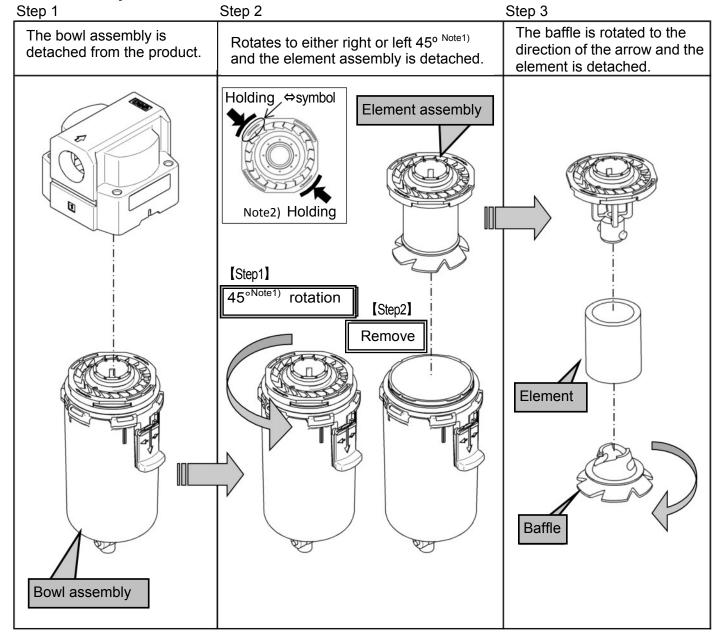


<Assembly>

Step 1 Step 2 The element is attached to the deflector, and fixed into position When the element assembly is attached to the case assembly, the snap fit of the deflector is attached to the bowl assembly. (Until a 'pop' is in the direction shown. heard) Element assembly Deflector Snap fit (Two places) Deflector Mouting in groove Bowl assembly Element Baffle 90° rotation



<Disassembly>

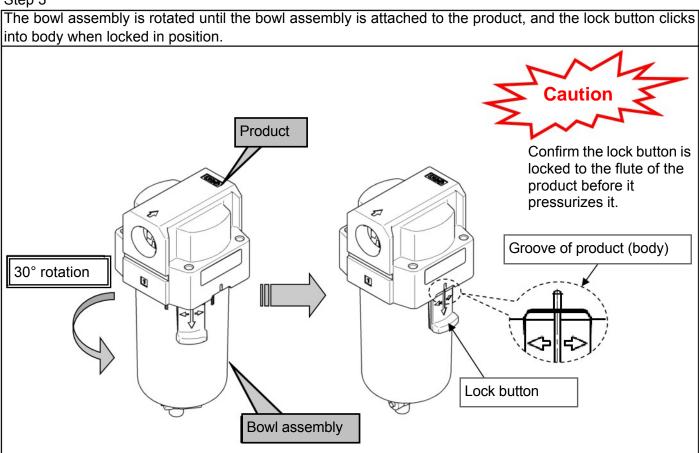


Note 1) Rotate 90 degrees to remove when -2 (Metal bowl), -8 (Metal bowl with level gauge). Note 2) Rotate the element assembly holding the outer surface of the ⇔ symbol.

<Assembly>

Step 2 Step 1 The element is attached to the To attach element assembly to the bowl assembly. Concave of the bowl deflector, and fixed into assembly is combined with convex of the element assembly. Rotate to position in the direction shown. either right and left by 45°. Holding ⇔symbol Deflector Note2) Holding Convex Element assembly [Step1] 45°Note1) rotation [Step2] Insert Concave Element Baffle 90° rotation Bowl assembly

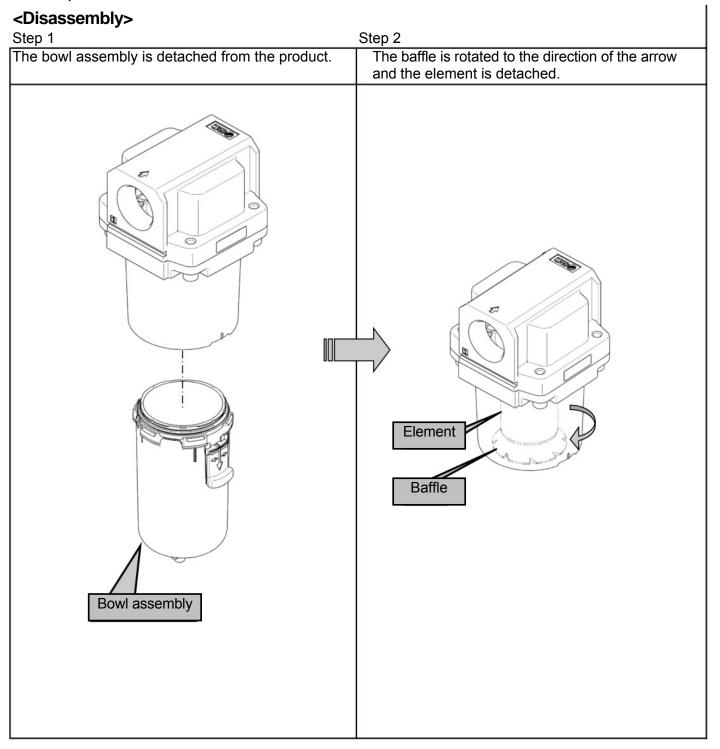
Step 3



Note 1) Rotate 90 degrees to remove when -2 (Metal bowl), -8 (Metal bowl with level gauge).

Note 2) Rotate the element assembly holding the outer surface of the ⇔ symbol.

[AF50, 60 - A]

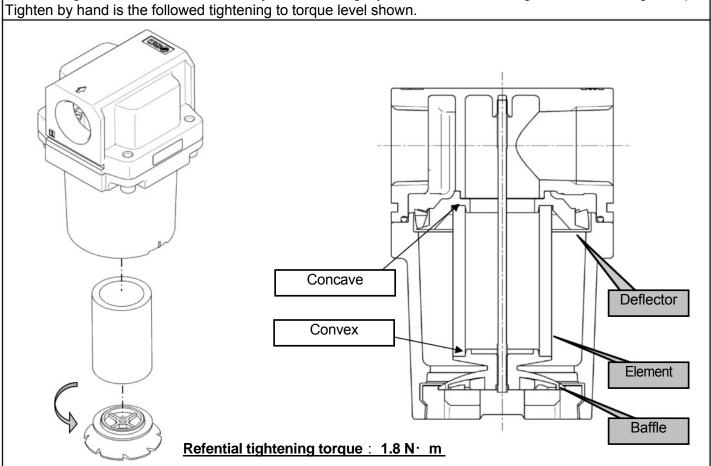


[AF50, 60 - A]

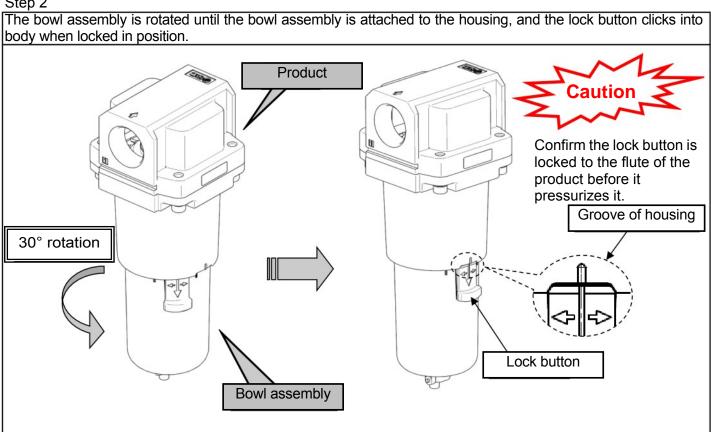
<Assembly>

Step 1

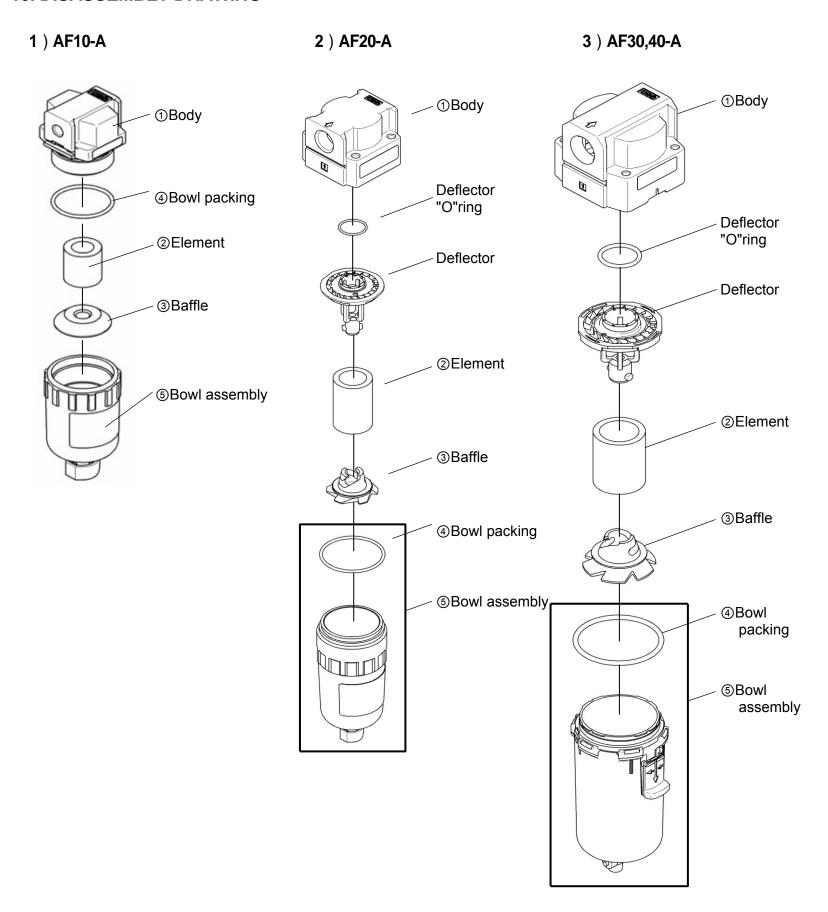
Insert the element to the concave of the deflector. Careful to the direction (convex to the element side) of mount and insert the baffle to the element. Rotate it right with a hand till baffle will join element lightly. After that, rotate it right about 1/2 to tight it up.

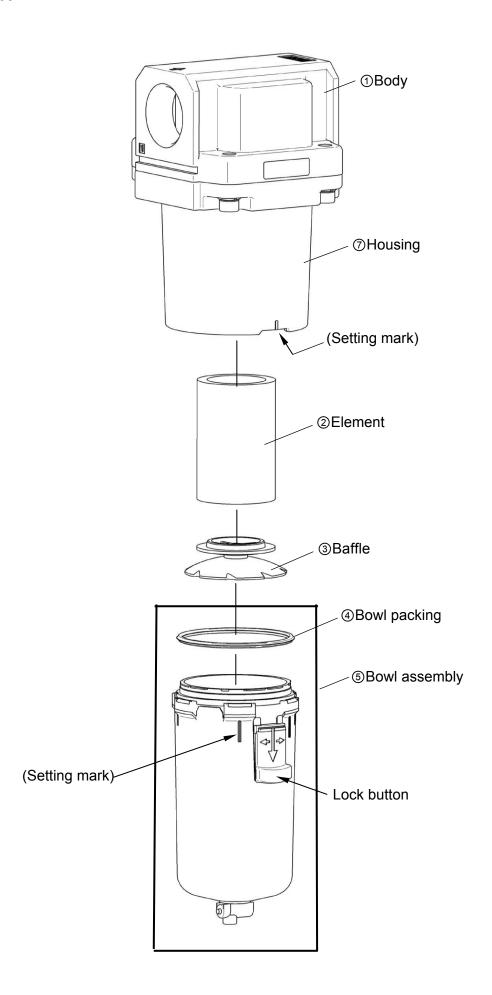


Step 2

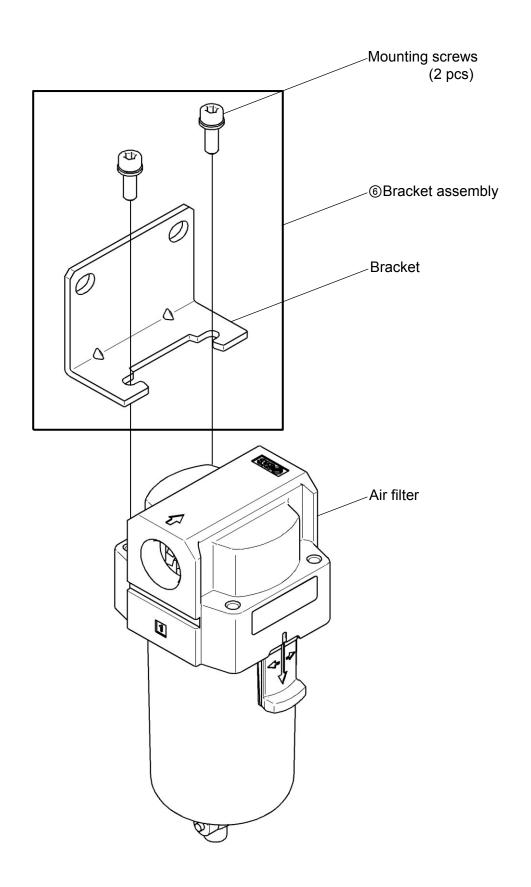


10. DISASSEMBLY DRAWING

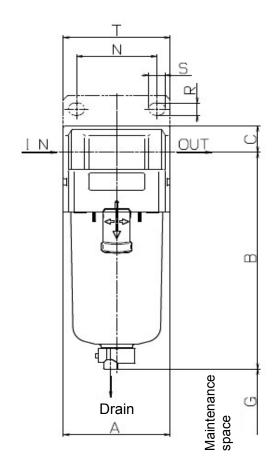


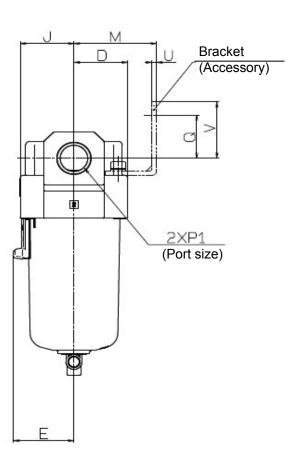


5) AF20-A ~ AF60-A Bracket assembly disassembly drawing



11. DIMENSIONS





Model		Standard specifications								
	P 1	Α	В	С	D	Е	G	J		
AF10-A	M5	25	59.9	7	12.5	-	25	12.5		
AF20-A	1/8 · 1/4	40	87.6	9.8	20	-	25	20		
AF30-A	1/4 · 3/8	53	115.1	14	26.7	30	35	26.7		
AF40-A	1/4 · 3/8 · 1/2	70	147.1	18	35.5	38.4	40	35.5		
AF40-06-A	3/4	75	149.1	20	35.5	38.4	40	35.5		
AF50-A	3/4⋅ 1	90	220.1	24	45	38.4	30	45		
AF60-A	1	95	234.1	24	47.5	38.4	30	47.5		

		Optional / semi-standard specifications										
Model	With auto drain	Drain cock With barb fitting	With drain guide	Metal bowl	Metal bowl, drain guide	Metal bowl with sight glass	Metal bowl with sight glass, drain guide					
	В	В	В	В	В	В	В					
AF10-A	77.9	-	-	59.3	-	-	•					
AF20-A	104.9	-	91.4	87.4	93.9	-	•					
AF30-A	156.8	123.6	121.9	117.6	122.1	137.6	142.1					
AF40-A	186.9	155.6	153.9	149.6	154.1	169.6	174.1					
AF40-06-A	188.9	157.6	155.9	151.6	156.1	171.6	176.1					
AF50-A	259.9	228.6	226.9	222.6	227.1	242.6	247.1					
AF60-A	273.9	242.6	240.9	236.6	241.1	256.6	261.1					

Model	Bracket mount dimensions							
	М	N	Q	R	S	T	U	V
AF10-A	-	-	-	-	-	-	-	-
AF20-A	30	27	22	5.4	8.4	40	2.3	28
AF30-A	41	40	23	6.5	8	53	2.3	30
AF40-A	50	54	26	8.5	10.5	70	2.3	35
AF40-06-A	50	54	25	8.5	10.5	70	2.3	34
AF50-A	70	66	35	11	13	90	3.2	47
AF60-A	70	66	35	11	13	90	3.2	47

Note 1) The specifications of auto-drain and optional bowl assembly are described in ⁷8. SPECIFICATIONS OF BOWL ASSEMBLY」 (P11 to P19).

Revision history	
Model (AF10-A,AF50-A,AF60-A) and option (-2,-6,-8) addition. Jun, 2015	

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Note: Specifications are subject to change without prior notice and any obligation on the part of the manufacturer. © 2008 SMC Corporation All Rights Reserved

