Doc. No. AF*-OMR0020-C



Operation Manual

PRODUCT NAME

MIST SEPARATOR

MODEL / Series / Product Number

AFM20-(F,N)01~(F,N)02(B,C)(-2,6,C,J,R,Z)-A AFM30-(F,N)02~(F,N)03(B,C,D)(-2,6,8,J,R,W,Z)-A AFM40-(F,N)02~(F,N)04(B,C,D)(-2,6,8,J,R,W,Z)-A AFM40-(F,N)06(B,C,D)(-2,6,8,J,R,W,Z)-A

SMC Corporation

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Safety Instructions

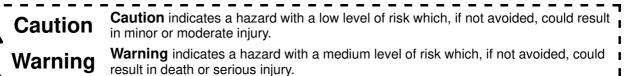
These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards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

*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: Manipulating industrial robots -Safety.

Dander

etc.



Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

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.
 - 2. 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.

3. 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.



Safety Instructions

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

1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first.*2)

Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.

- 2. 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.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products.
 - *2) Vacuum pads are excluded from this 1 year warranty.

A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction(WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulation of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

▲ Caution

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country.

Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

Precautions for design

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

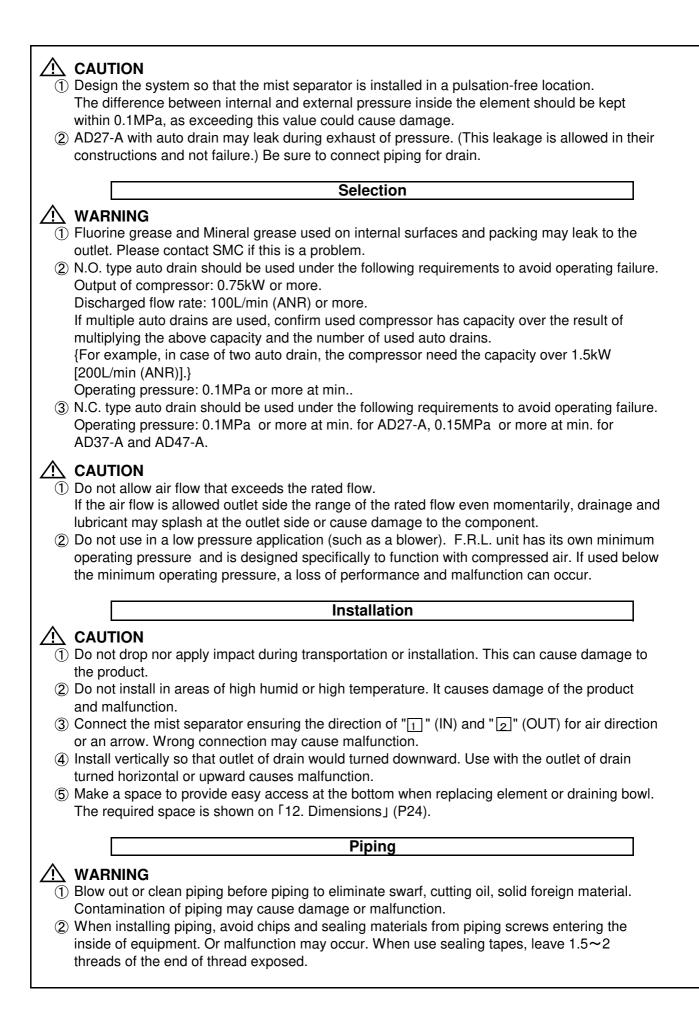
Effects organic solvents and chemicals, and where these elements are likely to adhere to the equipment.

Chemical data for substances causing degradation (Reference)

Туре	Chemical name	Application examples	Material			
туре		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		
	△:Some effects m	ay occur × : Effects v	vill occur			

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

- 3 Avoid the application where charge and discharge of pressure to bowl is switched frequently.
- This may damage the bowl. For this kind of application, the metal bowl is recommended.
- (4) Protect from ultra violet ray and radiation heat by shield.



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) Before using an SMC fitting and S coupler, please refer to "Tightening the threaded portion of the connection thread" of the Fittings & Tubing Precautions.
- (6) 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.
- ⑦ The piping for drain from auto drain should be connected under the following requirements to avoid operating failure.

AD27-A: I.D. Φ2.5 (Φ3/32") at min., Length 5m (200") at max.

AD37, 47(N)-A: I.D. Φ4 (Φ3/16") at min., Length 5m (200") at max.

AD38, 48(N)-A:: I.D. Φ6.5 (Φ1/4") at min., Length 5m (200") at max.

Air Source

- 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 mist separator.

- 1 Do not install on the inlet side of the dryer as this can cause premature clogging of the element.
- (2) Install an air filter (Series AF) as a preliminary filter on the inlet side of the mist separator to prevent premature clogging.

Maintenance

- 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.

- $\overline{(1)}$ Drain the bowl by opening drain cock before the drain level in the bowl reaches element assembly.
- ② Rotate the handle counterclockwise (O←direction) to exhaust the condensate of the C2SF(-C)-A. Press the push button to exhaust the condensate of the C3SF(-W)-A and C4SF(-W)-A.
- (3) 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.

④ The manual exhaust for emergency case can be performed by counterclockwise rotation of the handle in AD27-A. (O←direction)

For AD37-A, AD38-A, AD47-A and AD48-A, rotate the drain cock counterclockwise in that case. (O-direction)

(5) For the N.C. type auto drain, when there is no pressure, condensate which does not operate the auto drain mechanism will remain in the bowl. It is recommended to release the residual condensate manually at the end of the working day.

2. APPLICATION

This instrument aims at, eliminating oil of the air line and solid foreign material of air lines.

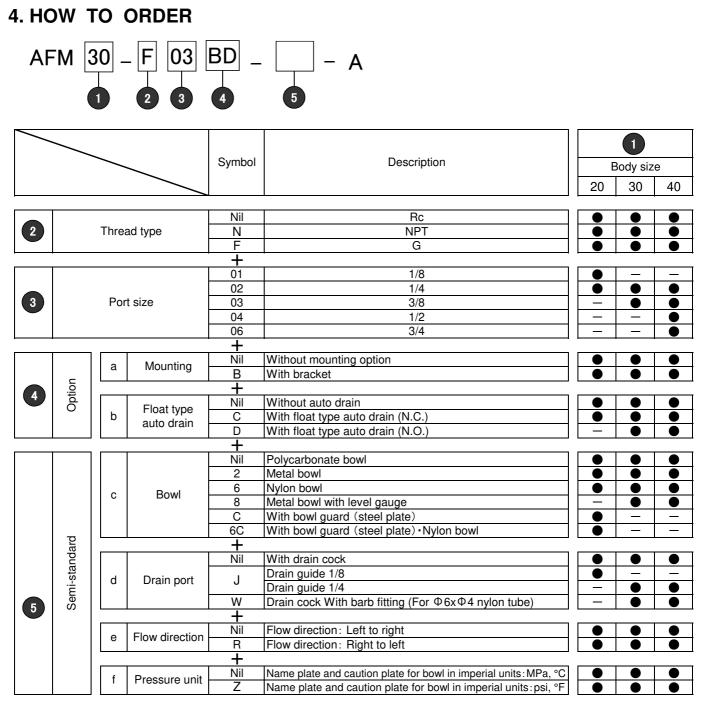
3. SPECIFICATIONS

Model	AFM20-A	AFM30-A	AFM40-A	AFM40-06-A
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4
Fluid		A	ir	
Ambient and fluid		5 ~ 60°C (Shou	ld be no freezing	x)
temperature	-,			<i>))</i>
Proof pressure		1.5	MPa	
Max. operating pressure		1.0	MPa	
Min. operating pressure		0.05	MPa	
Filtration	0.3 µ	m (FILTRATION	EFECIENCY 9	'
Oil mist density at the out side	MAX.1	.0 mg/m ³ (ANR)(≒0.008ppm) ^{Note}	e1) Note2)
Flow rate[L/min(ANR)] Note3)	200	450	11	00
Drain capacity (cm ³)	8	25	4	-5
Bowl material		Polyca	rbonate	
Bowl guard	Semi-standard	Stan	dard (Polycarbo	nato)
	(Steel plate)	Stario		
Mass (kg)	0.09	0.19	0.38	0.43

Note1) When the compressor oil mist discharge concentration is 30mg/Nm³(ANR).

Note2) Bowl O ring and other O rings are slightly lubricated.

Note3) Conditions: Inlet pressure: 0.7MPa; The rated flow varies depending on the inlet pressure. Keep the air flow within the rated flow to prevent an outflow of lubricant to the outlet side.

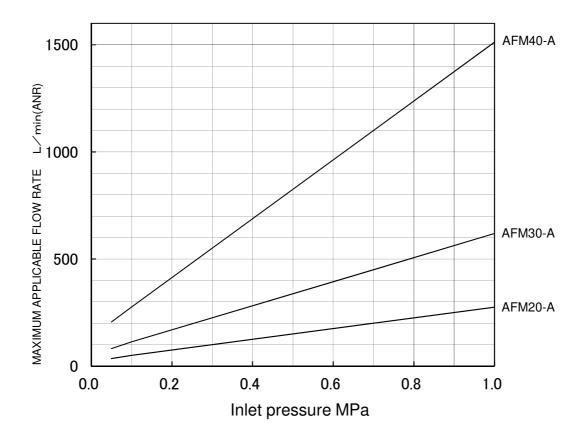


 $\ensuremath{\mathbbmm{X}}$ Please refer to the catalog when you select the model.

5. OPTIONAL BRACKET ASSEMBLY

1) Bracket -Mounting screws (2 pcs) 1) Installation of bracket Mount the bracket in the direction as shown in diagram. **⑤**Bracket 2) Tightening of mounting screw assembly 0 Two mounting screws are tightened by cross pointed driver or hexagon spanner for holding. Bracket Refer to the table below for correct tool and the tightening п torque required. I Air filter Tools Tightening torque AFM20-A Cross pointed driver 0.75±0.2 N•m I AFM30-A 0.75±0.2 N•m I Hexagon spanner: nominal 3 AFM40-A Hexagon spanner: nominal 4 1.5±0.2 N•m Mist separator 1 0

6. MAXIMUM APPLICABLE FLOW RATE



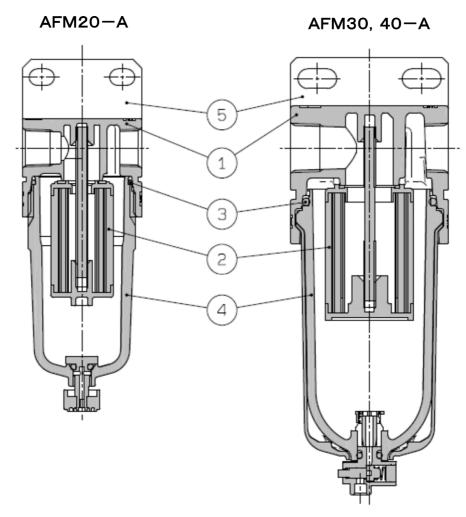
7. TROUBLESHOOTING

Refer to ^{[8.} CONSTRUCTION / PARTS LIST J (P10), ^{[11.} DISASSEMBLY DRAWING J (P23).

TR	OUBLE	POSSIBLE CAUSE	REMEDY
DEMARCATION	PHENOMENON	FOSSIBLE CAUSE	
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.	1. Breakage of bowl packing.	1. Replace the bowl packing. Grease up before assembling.
Air leaks	Air leaks from the bowl.	1. Breakage of bowl.	 Replace the bowl assembly or with metal bowl.
	Air leaks from the drain cock.	1. 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. 	1. 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.

8. CONSTRUCTION / PARTS LIST



Component Parts

No.	Description	Material	Note
1	Body	Aluminium die cast	Urban white 1

Option / Replacement Parts

No.	Description	Material	Part No.					
INO.	Description	Material	AFM20-A	AFM30-A	AFM40-A	AFM40-06-A		
2	Element assembly	_	AFM20P-060AS AFM30P-060AS AFM40P-060AS					
3	Bowl packing	NBR	C2SFP-260S C32FP-260S C42FP-260S					
	Bowl assembly	Polycarbonate						
4	Auto drain (N.C.)	Polycarbonate	(P11 to P18).	PECIFICATION	S OF BOWL AS	SSEMBLY		
	Auto drain (N.O.)	Polycarbonate						
(5)	Note1) Bracket assembly	Steel plate	AF22P-050AS	AF32P-050AS	AF42P-050AS	AF42P-070AS		

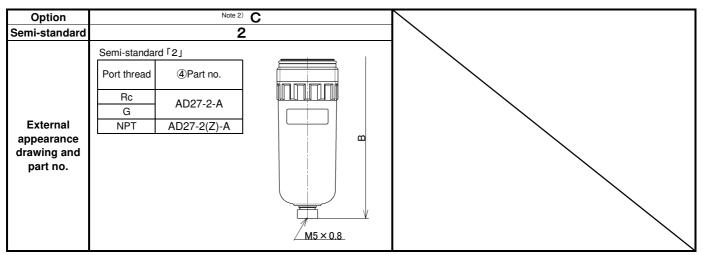
Note 1) Bracket with mounting screws.(2pcs)

Note 2) The number in the table is corresponding to the number in structural drawing (avobe-mentioned figure) and "9. SPECIFICATIONS OF BOWL ASSEMBLY" (P11 to P18), "11. DISASSEMBLY DRAWING" (P23).

9. SPECIFICATIONS OF BOWL ASSEMBLY

1) Bowl assembly / Auto drain for AFM20-A

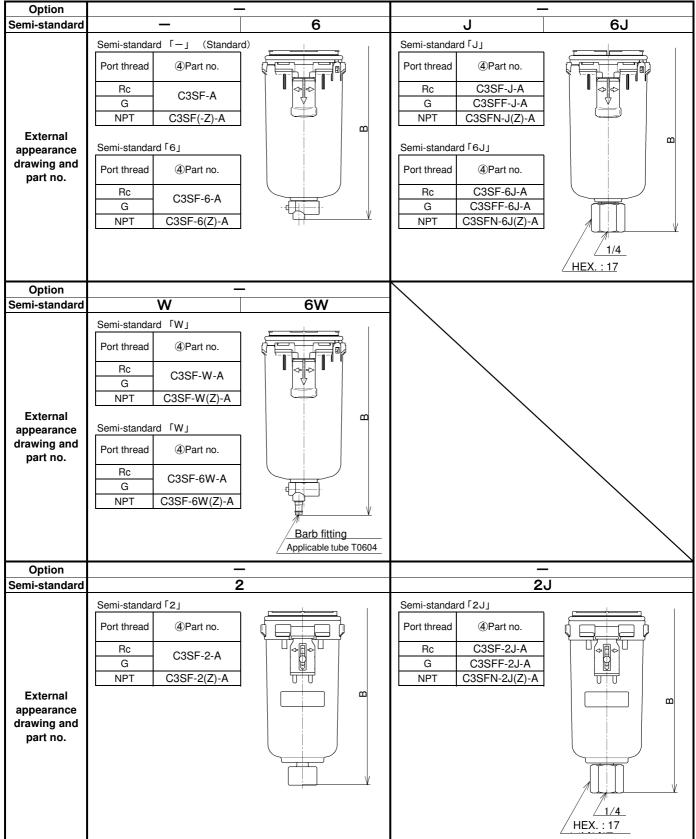
Option			_]	
Semi-standard		6	C	6C	
ocim-standard		0			
External appearance drawing and part no.	Semi-standard [–] (Standard) Port thread @Part no. Rc C2SF-A G C2SF-A NPT C2SF(-Z)-A Semi-standard [6] Port thread @Part no. Rc C2SF-6-A G C2SF-6-A NPT C2SF-6(Z)-A		Semi-standard 「C」 Port thread ④Part no. Rc G C2SF-C-A G NPT C2SF-C(Z)-A Semi-standard 「6C」 Port thread ④Part no. Rc G C2SF-6C-A G NPT C2SF-6C(Z)-A		
Option			_		
Semi-standard	J	6J	CJ	6CJ	
External appearance drawing and part no.	Semi-standard 「J」 Port thread ④Part no. Rc C2SF-J-A G C2SFF-J-A NPT C2SFN-J(Z)-A Semi-standard 「6J」 Port thread ④Part no. Rc C2SF-6J-A G C2SFF-6J-A NPT C2SFN-6J(Z)-A	1/8 HEX.: 14	Semi-standard ^Г CJ J Port thread @Part no. Rc C2SF-CJ-A G C2SFF-CJ-A NPT C2SFN-CJ(Z)-A Semi-standard ^Г 6CJ J Port thread @Part no. Rc C2SF-6CJ-A G C2SFF-6CJ-A NPT C2SFN-6CJ(Z)-A	1/8 HEX.: 14	
Option			_		
Semi-standard	2		2J		
External appearance drawing and part no.	Semi-standard [[] 2] Port thread ④Part no. Rc C2SF-2-A G C2SF-2(Z)-A		Semi-standard [[] 2J] Port thread ④Part no. Rc C2SF-2J-A G C2SFF-2J-A NPT C2SFN-2J(Z)-A	т. 1/8. НЕХ.: 14	
Option	Note 2)	C		C C	
Semi-standard	_	6	С	6C	
External appearance drawing and part no.	Semi-standard [–] Port thread ④Part no. Rc AD27-A G AD27-A NPT AD27(-Z)-A		Semi-standard 「C」 Port thread ④Part no. Rc AD27-C-A G AD27-C(Z)-A Semi-standard 「6C」		

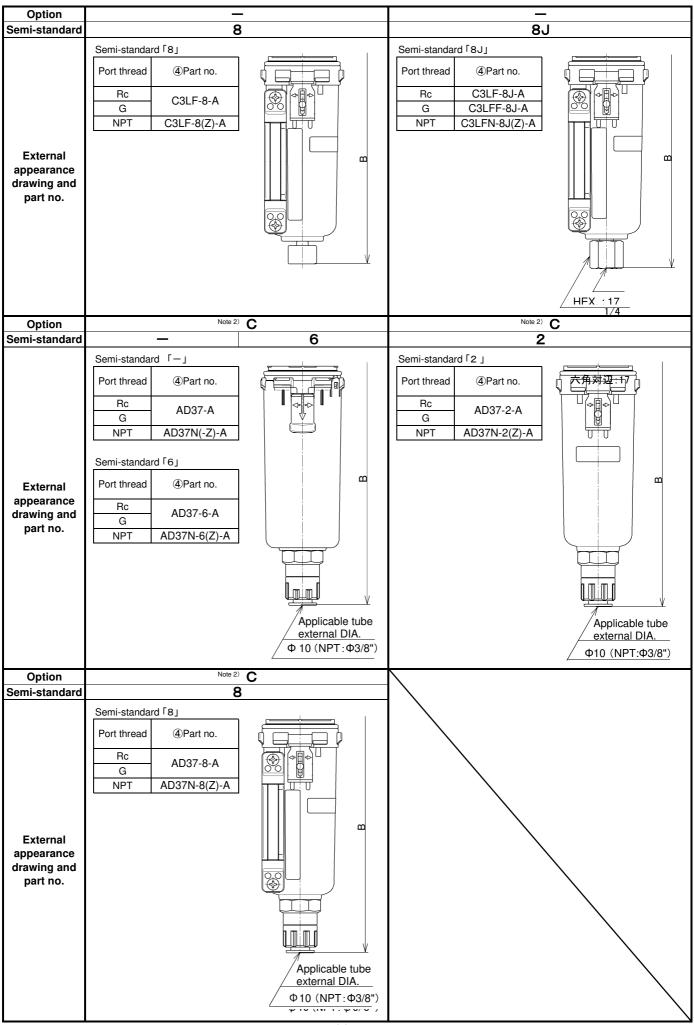


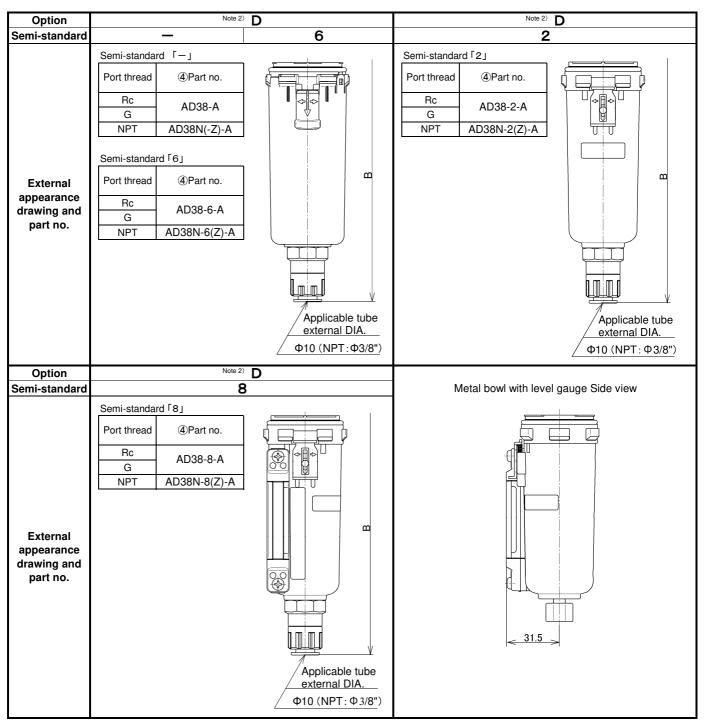
Note 1) B in the table shows the distance from inlet piping centreline to drain port. Refer to "12. DIMENTIONS" (P24). Note 2) Min. operating pressure is 0.1MPa.

Note 3) The part with no. ④ includes ③ Bowl packing. Refer to "11. DISASSEMBLY DRAWING" (P23). Note 4) "Z" of the part with no. ④ 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).

2) Bowl assembly / Auto drain for AFM30-A







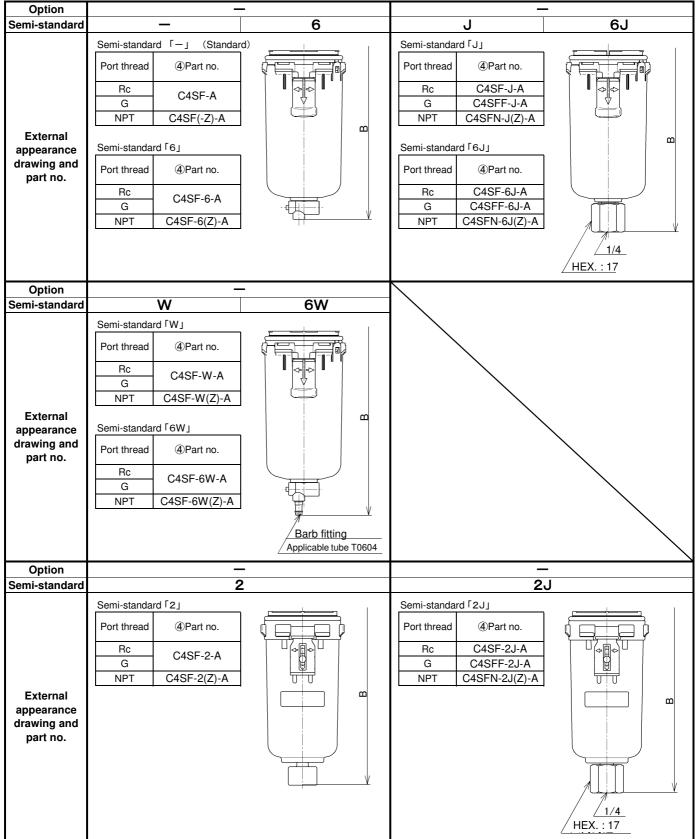
Note 1) B in the table shows the distance from inlet piping centreline to drain port. Refer to "12. DIMENTIONS" (P24).

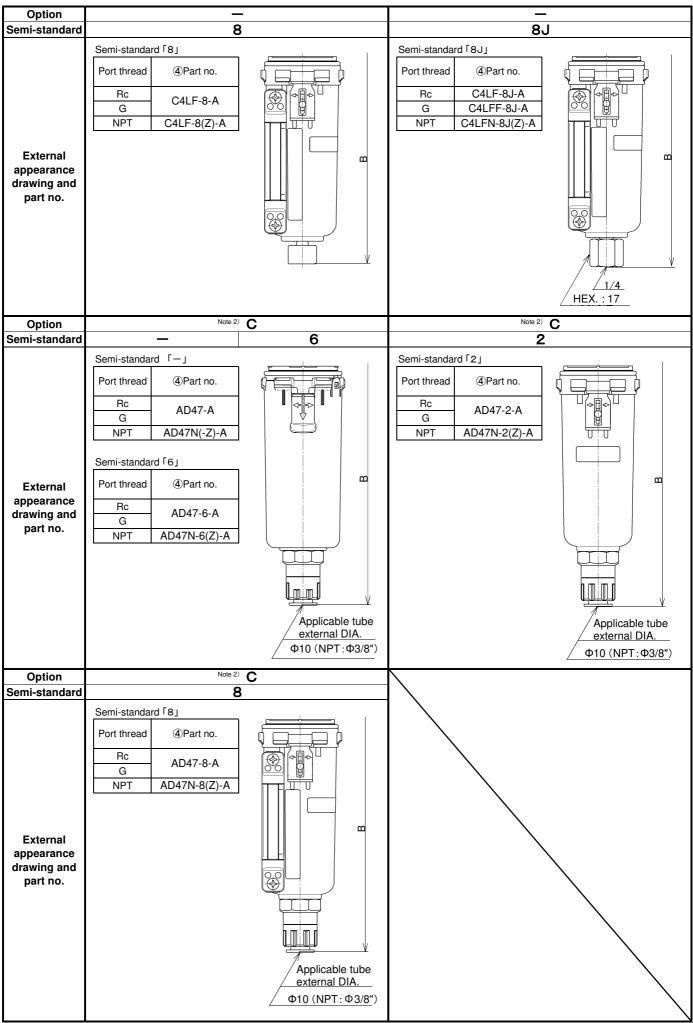
Note 2) Min. operating pressure is 0.15MPa for N.C. type and 0.1MPa for N.O. type. Note 3) The part with no. ④ includes ③ Bowl packing. Refer to "11. DISASSEMBLY DRAWING" (P23).

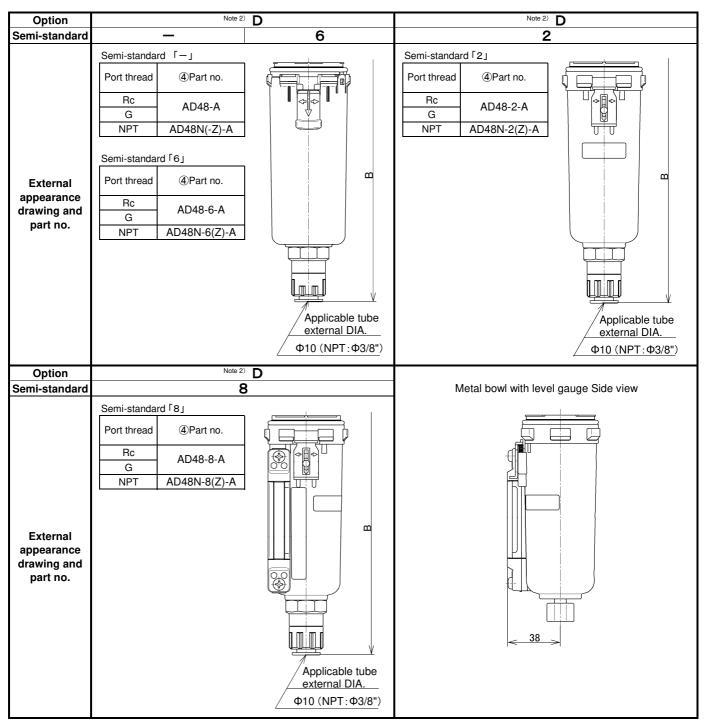
Note 4) "Z" of the part with no. ④ is semi-standard for indicated unit of pressure and temperature, which is psi and °F.

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

3) Bowl assembly / Auto drain for AFM40-A







Note 1) B in the table shows the distance from inlet piping centreline to drain port. Refer to "12. DIMENTIONS" (P24).

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. ④ includes ③ Bowl packing. Refer to "11. DISASSEMBLY DRAWING" (P23).

Note 4) "Z" of the part with no. ④ 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).

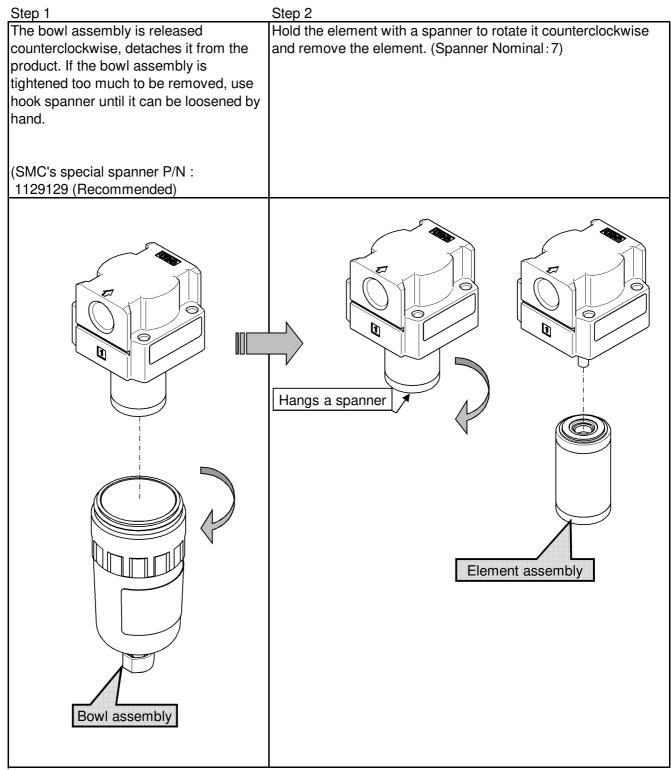
10. REPLACEMENT PROCEDURE

- ·Before replacement, ensure that the air filter is not pressurized.
- Replace refering to "11. DISASSEMBLY DRAWING" (P23).
- After replacement, ensure that specified function is satisfied and external leakage is not found before starting operation.

1) Bowl assembly / element

[AFM20-A]

<Disassembly>

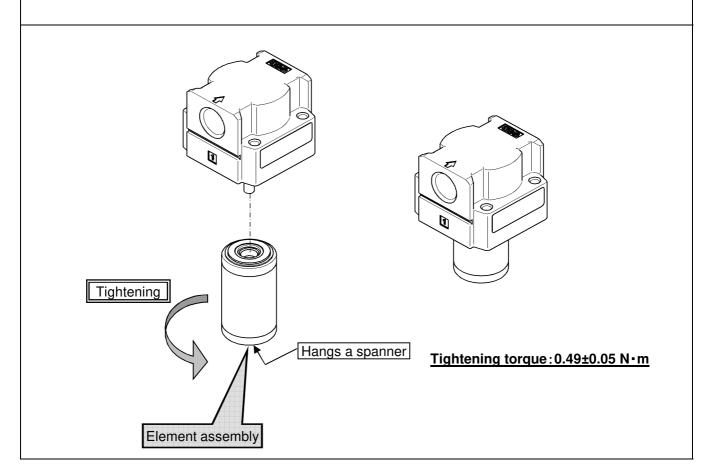


[AFM20-A]

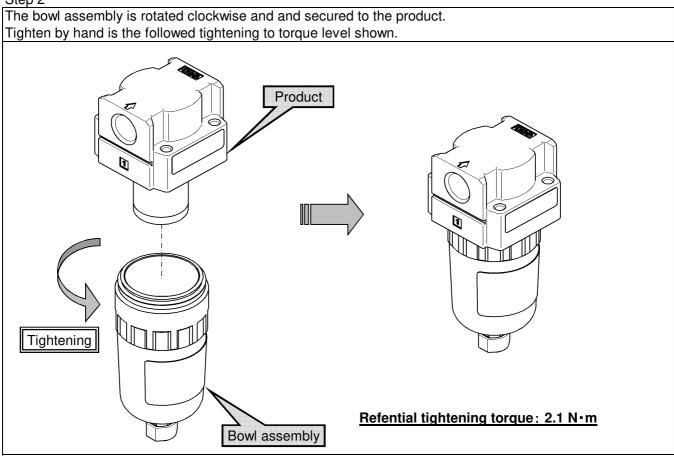
<Assembly>

Step 1

Hold the element with a spanner to rotate it counterclockwise and remove the element. See check item for referential tightening torque. (Spanner Nominal: 7)

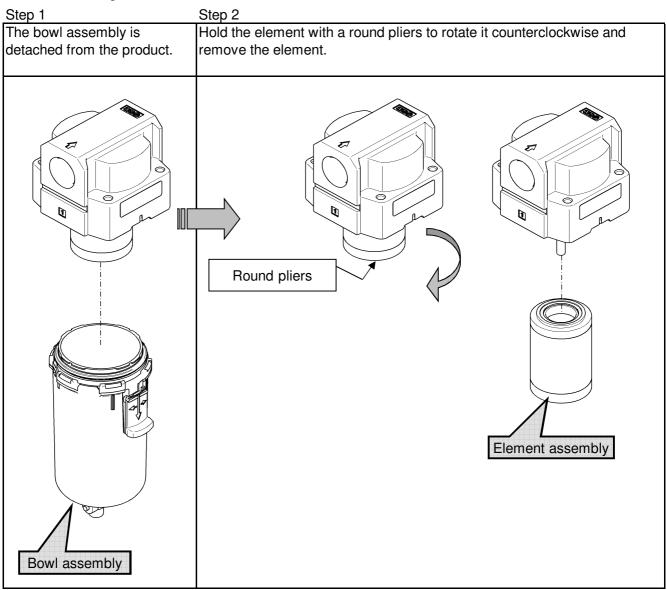


Step 2



[AFM30, 40-A]

<Disassembly>

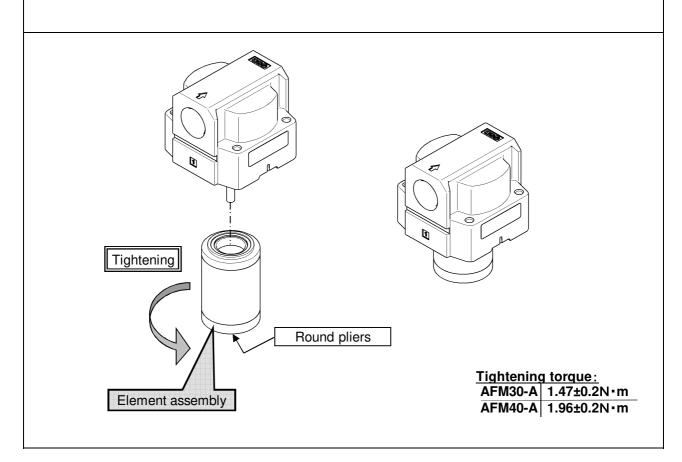


[AFM30, 40-A]

<Assembly>

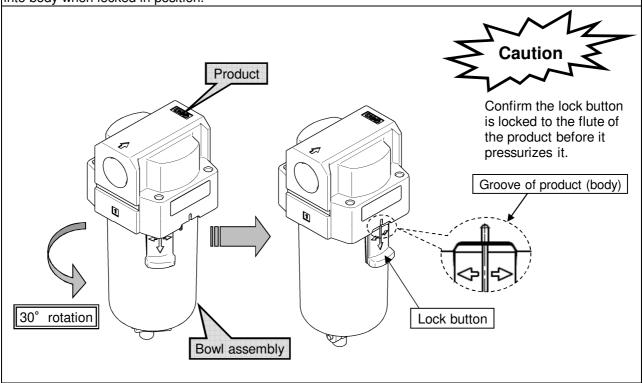
Step 1

Hold the element with a round pliers to rotate it counterclockwise and remove the element. See check item for referential tightening torque.



Step 2

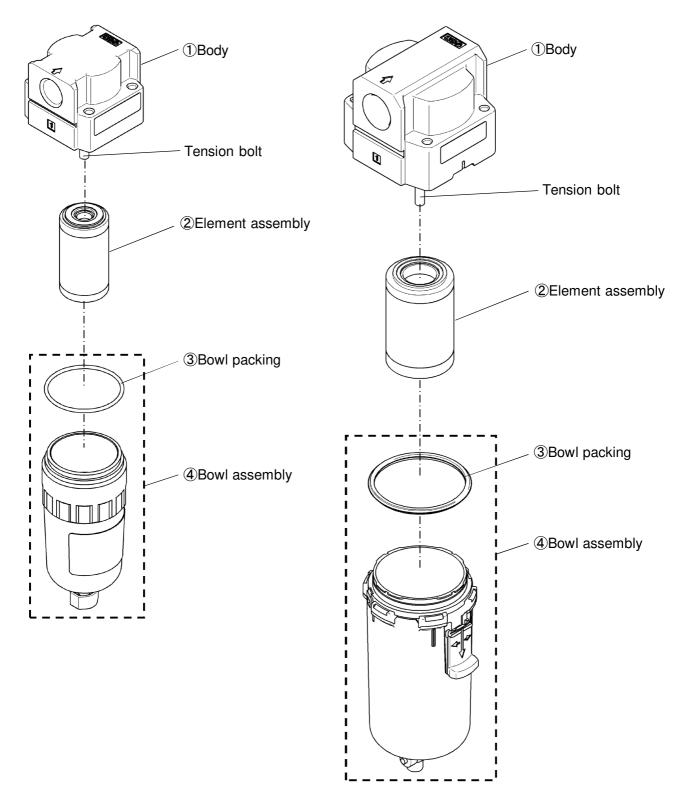
The bowl assembly is rotated until the bowl assembly is attached to the product, and the lock button clicks into body when locked in position.



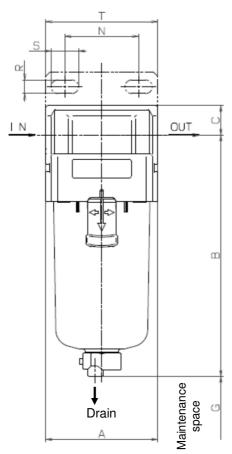
11. DISASSEMBLY DRAWING

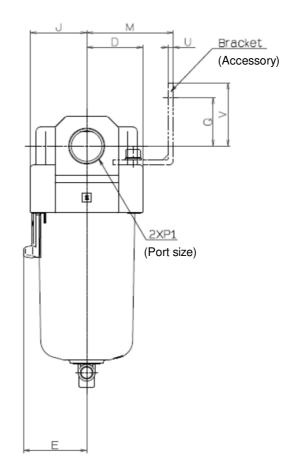
1) AFM20-A

2) AFM30, 40-A



12. DIMENSIONS





Dimensions

Model			Sta	ndard sp	pecificat	ions		
WOUEI	Р	1	А	В	С	D, J	Е	G
AFM20-A	1/8	•1/4	40	87.6	9.8	20	1	45
AFM30-A	1/4	•3/8	53	115.1	14	26.7	30	50
AFM40-A	1/4•3	/8•1/2	70	147.1	18	35.5	38.4	75
AFM40-06-A	3/4		75	149.1	20	35.5	38.4	75
Model		Bracket mount dimensions						
NIUUEI	М	Ν	Ø	R	S	Т	U	V
AFM20-A	30	27	22	5.4	8.4	40	2.3	28
AFM30-A	41 35		23	6.5	13	53	2.3	30
AFM40-A	50 52		26	8.5	12.5	70	2.3	35
AFM40-06-A	50	52	25	8.5	12.5	70	2.3	34

Dimension:B of auto-drain and optional bowl assembly

Option Semi-							-						
standan	2	6	8	С	6C	J	2J	6J	8J	CJ	6CJ	W	6W
AFM20-A	87.4	87.6	—	87.6	87.6	91.4	93.9	91.4	-	91.4	91.4	-	-
AFM30-A	117.6	115.1	137.6	-	-	121.9	122.1	121.9	142.1	_	—	123.6	123.6
AFM40-A	149.6	147.1	169.6	-	-	153.9	154.1	153.9	174.1	_	—	155.6	155.6
AFM40-06-A	151.6	149.1	171.6	-	_	155.9	156.1	155.9	176.1	_	-	157.6	157.6
Option Semi-			C)				[)				

Semi-				,				-	,	
standard		2	6	8	С	6C	-	2	6	8
AFM20-A	104.9	104.6	104.9	1	104.9	104.9		_	-	_
AFM30-A	156.8	156.8	156.8	156.8	-	-	156.8	156.8	156.8	156.8
AFM40-A	186.9	188.8	186.9	188.8	_	_	186.9	188.8	186.9	188.8
AFM40-06-A	188.9	190.8	188.9	190.8	_	_	188.9	190.8	188.9	190.8

Note 1) The specifications of auto-drain and optional bowl assembly are described in ^[9]. SPECIFICATIONS OF BOWL ASSEMBLYJ(P11 to P18).

Revision history

- A The tightening torque value of the element assy is changed. 2017.4
 B • P4 Addition:grease type,P9 Change: grease type.
- P5 Correction: [Air Source] CATION②
- P6 Correction:Filtration, Oil mist density at the out side, Flow rate, P8 Correction: bracket assy drawing.
- P18 Correction:dimension of metal bowl with level gauge.
- P24 Deletion:bracket assy disassembly drawing.
- 12. DIMENSIONS Addition:option, Change: Shape of bracket assembly. 2018.2
- C P5 Addition: [Piping] WARING
- P19 Correction:spanner part No. (AFM20-A)
- P20 Change:bowl tightening torque(AFM20-A)
- P24 Correction: N, S dimensions(AFM30~40-A)

G dimension (Maintenance space) (AFM20-A)

2021.12

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