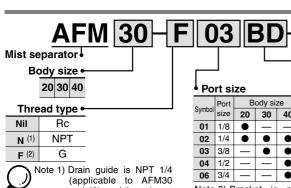
### **Mist Separator**

# Series AFM20/30/40

### **How to Order**



and 40), and the exhaust for auto-drain comes with ø3/8" Onetouch fitting (applicable to AFM30 and 40).

Note 2) Drain guide is G 1/4 (applicable to AFM30 and 40).

	<u> </u>	▁▍▐┺	<u> </u>							
					• Acces	ssory				
	_				Symbol	Description	Applicable model			
Port size					Nil	_				
Symbol	Port	В	ody si	ze	B (3)	With bracket	AFM20 to 40			
Syllibol	size	20	30	40		Float type (4)				
01	1/8	•		_	С	auto-drain (N.C.)	AFM20 to 40			
02	1/4	•	•	•		date didiii (i ii ei)				
03	3/8	_	•	•	D	Float type (4)	A EN 400/40			
04	1/2	_	_	•	U	auto-drain (N.O.)	AFM30/40			
06	3/4	_	l	•	Note 4	Applicable tubing	Q O.D for auto-			
Note		Brack Issem		not and	•	drain connection should be ø3/8" in case NPT thread port is				

Note 3) Bracket is not assembled and is supplied loose at the time of shipment.

Option Symbol Description Applicable model 2 Metal bowl AFM20 to 40 6 Nvlon bowl AFM20 to 40 8 Metal bowl with level gauge AFM30/40 С With bowl guard AFM20 J (5) Drain guide 1/4 AFM30/40 R Flow direction: Right  $\rightarrow$  Left AFM20 to 40 Drain cock with barb fitting: W AFM30/40 ø6 x ø4 nylon tubing Name plate and caution plate AFM20 to 40 for bowl in imperial units (PSI, °F)

\* When more than one specification is required, indicate in ascending alphanumeric order. Note 5) Without a valve function.

Note 6) For NPT thread type. This product is for overseas use only according to the new Measurement Law. (The SI unit type is provided for use in Japan.)

### **Accessory/Optional Specifications Combinations**

: Combination available : Varies depending on the model : Combination not available 

	Combination	0	Accessory				Optional specifications						Applicable mist separator		
		Symbol	Accessory					μιιοι	iai sp	ecine	Jalioi			AFM20	AFM30 to 40
Accessory/Optional specifications			В	С	D	2	6	8	С	J	R	W	Z	AFIVIZU	AI W30 to 40
ory	With bracket	В		0	0	0	0	0	0	0	0	0	Δ	0	0
sess	With bracket  Float type auto-drain (N.C.)  Float type auto-drain (N.O.)					0	0	0	0		0		Δ	0	0
Float type auto-drain (N.O.)			0			0	0	0			0		Δ		0
SU	Metal bowl	-2	0	0	0					0	0		Δ	0	0
	Nylon bowl	-6	0	0	0				0	0	0	0	Δ	0	0
ecificatio	Metal bowl with level gauge	-8	0	0	0					0	0		Δ		0
With bowl guard		-C	0	0			0				0		Δ	0	
sb	Drain guide 1/4	-J	0			0	0	0			0		Δ		0
ਲ Flow direction: Right → Left		-R	0	0	0	0	0	0	0	0		0	Δ	0	0
Flow direction: Right → Left  Drain cock with barb fitting: ø6 x ø4 nylon tubing		-W	0				0				0		Δ		0
0	Name plate and caution plate for bowl in imperial units (PSI °F)	-Z	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ		Δ	Δ



AFM40

JIS Symbol



### Ctandard Chasifications

Model	AFM20	AFM30	AFM40	AFM40-06					
Port size	1/8 1/4	1/4 3/8	1/4 3/8 1/2	3/4					
Fluid		A	ir						
Proof pressure	1.5 MPa								
Maximum operating pressure	1.0 MPa								
Minimum operating pressure	0.05 MPa								
Ambient and fluid temperature		−5 to 60°C (Wi	th no freezing)						
Rated flow (/min (ANR)) (1)	200	450	1100	1100					
Nominal filtration rating		0.3 μm (95% filte	red particle size)						
Outlet side oil mist concentration		Maximum 1.0 mg/m3 (AN	NR) (approx. 0.8 ppm) (2)						
Bowl material		Polycar	bonate						
Bowl guard	Option		Standard						
Drain capacity (cm <sup>3</sup> )	8	25	45	45					
Weight (kg)	0.18	0.22	0.44	0.49					

Note 1) When the inlet pressure is 0.7 MPa. Flow rate varies depending on the inlet pressure. Note 2) When the compressor oil mist discharge concentration is 30 mgf/m³ (ANR).

#### Accessory Part No

Accessory Fart No.									
Applicable Accessory	e model	AFM20		AFM30		AFM40	AFM40-06		
Bracket assembly (1)		AF20P-050AS	AF3	0P-050AS	AF4	10P-050AS	AF4	IOP-070AS	
Float type (2) N.O. auto-drain N.C.		_	AD38	AD38N(3)	AD48	AD48N <sup>(3)</sup>	AD48	AD48N <sup>(3)</sup>	
		AD27	AD37	AD37N(3)	AD47	AD47N <sup>(3)</sup>	AD47	AD47N(3)	

Note 1) Assembly includes 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).

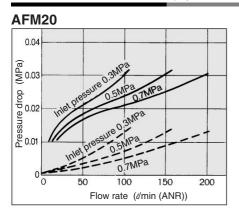
Note 3) When "N" is specified in the end of part number of auto-drain, applicable tubeing O.D should be ø3/8".

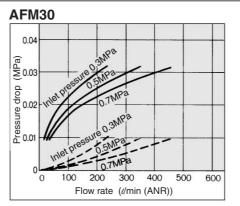
### Mist Separator Series AFM20/30/40

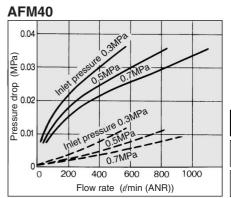
### Flow Characteristics (Representative values)

: When saturated with oil

- - : Initial state







F.R.L.

AU

**AF** 

**AR** 

IR

**VEX** 

**AMR** 

ITV IC

**VBA** 

 $\mathsf{VE}\Box$ 

VY1

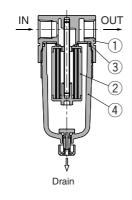
G

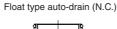
**PPA** 

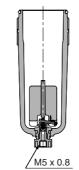
AL

### Construction

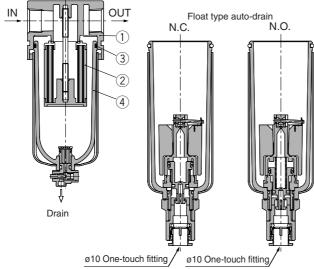
#### AFM20







### AFM30/40



### **Component Parts**

NIa	Description		Material	Note
INO.	Description	AFM20	AFM30, AFM40, AFM40-06	Note
1	Body	Zinc die-casted	Aluminum die-casted	Platinum silver

### Replacement Parts

No.	Description	Material	Part no.									
	Description	Materiai	AFM20	AFM30	AFM40	AFM40-06						
	2	Element assembly	_	AFM20P-060AS	AFM30P-060AS	AFM40P-060AS	AFM40P-060AS					
	3	Bowl O-ring	NBR	C2SFP-260S	C3SFP-260S	C4SFP-260S	C4SFP-260S					
	(4)	Bowl assembly (1)	PC	C2SF	C3SF (2)	C4SF (2)	C4SF (2)					

Note 1) Including O-Ring. Please contact SMC regarding the bowl assembly supply for PSI and °F unit specifications. Note 2) Bowl assembly for AFM30 to AFM40-06 includes a bowl guard (steel band material).

Be sure to read before handling. Refer to pages 14-21-3 to 14-21-4 for Safety Instructions and Common Precautions.

**⚠ Precautions** 

### Air Supply

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

### **Maintenance**

1. Replace the element every 2 years or when the pressure drop becomes 0.1 MPa, whichever comes first, to prevent damage to the element.

### Design

### **∕!\ Caution**

1. Design the system so that the mist separator is installed in a pulsation-free location. The difference between internal and external pressure inside the element should be kept within 0.1 MPa, as exceeding this value could cause damage.

### Selection

### **∕**∆ Caution

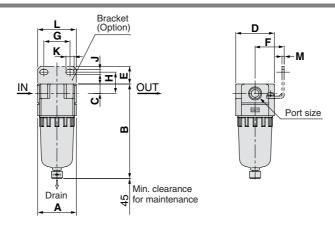
- 1. Do not allow air flow that exceeds the rated flow. If the air flow is allowed outside the range of the rated flow even momentarily, drainage and lubricant may splash at the outlet side or cause damage to the component.
- 2. Do not use in a low pressure application (such as a blower). F.R.L. unit has its own minimum operating pressure depending on the equipment and is designed specifically to function with compressed air. If used below the minimum operating pressure, a loss of performance and malfunction can occur. Please contact SMC if an application under such conditions cannot be avoided.



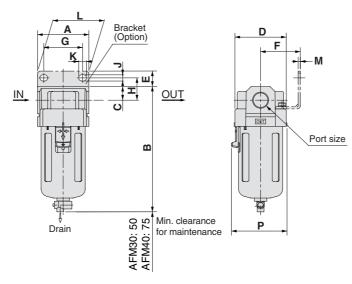
### Series **AFM20/30/40**

### **Dimensions**

### AFM20



### AFM30/40/40-06



Applicable model	AFI	W20	AFM30, AFM40, AFM40-06									
	With auto-drain (N.C.)	Metal bowl	With auto-drain (N.O./N.C.)			With drain guide	Drain cock with barb fitting					
Optional specifications	M5 x 0.8	<b>m</b>	N.O.: Black N.C.: Gray ø10 One-touch	B	B	Midth across flats 17	Barb fitting Applicable tubing:					

(mm)

		Chandard an aification					Accessory specifications								
Model	Port size		Standard specifications With bra						racket		With auto-drain				
		Α	В	C	D	Р	E	F	G	Н	J	K	L	M	В
AFM20	1/8, 1/4	40	97	10	40	_	18	30	27	22	5.4	8.4	40	2.3	115
AFM30	1/4, 3/8	53	129	14	53	57	16	41	40	23	6.5	8	53	2.3	170
AFM40	1/4, 3/8, 1/2	70	165	18	70	73	17	50	54	26	8.5	10.5	70	2.3	204
AFM40-06	3/4	75	169	20	70	73	14	50	54	25	8.5	10.5	70	2.3	208

	Optional specifications											
Model	With drain guide	With barb fitting	Metal bowl	Metal bowl with level gauge								
	В	В	В	В								
AFM20	_	_	97	_								
AFM30	136	137	142	162								
AFM40	172	173	178	198								
AFM40-06	176	177	182	202								





# **Safety Instructions**

These safety instructions are intended to prevent a hazardous situation and/or equipment damage. These instructions indicate the level of potential hazard by labels of **"Caution", "Warning"** or **"Danger"**. To ensure safety, be sure to observe ISO 4414 Note 1), JIS B 8370 Note 2) and other safety practices.

**Caution:** Operator error could result in injury or equipment damage.

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

**Danger**: In extreme conditions, there is a possible result of serious injury or loss of life.

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

Note 2) JIS B 8370: General Rules for Pneumatic Equipment

### **△**Warning

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

Since the products specified here are used in various operating conditions, their compatibility for the specific pneumatic system must be based on specifications or after analysis and/or tests to meet your specific requirements. The expected performance and safety assurance will be the responsibility of the person who has determined the compatibility of the system. This person should continuously review the suitability of all items specified, referring to the latest catalog information with a view to giving due consideration to any possibility of equipment failure when configuring a system.

2. Only trained personnel should operate pneumatically operated machinery and equipment.

Compressed air can be dangerous if an operator is unfamiliar with it. Assembly, handling or repair of pneumatic systems should be performed by trained and experienced operators.

- 3. Do not service machinery/equipment or attempt to remove components until safety is confirmed.
  - 1. Inspection and maintenance of machinery/equipment should only be performed once measures to prevent falling or runaway of the driver objects have been confirmed.
  - 2. When equipment is to be removed, confirm the safety process as mentioned above. Cut the supply pressure for this equipment and exhaust all residual compressed air in the system.
  - 3. Before machinery/equipment is restarted, take measures to prevent shooting-out of cylinder piston rod. etc.
- 4. Contact SMC if the product is to be used in any of the following conditions:
  - 1. Conditions and environments beyond the given specifications, or if product is used outdoors.
  - 2. Installation on equipment in conjunction with atomic energy, railway, air navigation, vehicles, medical equipment, food and beverages, recreation equipment, emergency stop circuits, clutch and brake circuits in press applications, or safety equipment.
  - 3. An application which has the possibility of having negative effects on people, property, or animals, requiring special safety analysis.





### **Common Precautions**

Be sure to read before handling. For detailed precautions on every series, refer to main text.

### **Selection**

### **⚠** Warning

### 1. Confirm the specifications.

Products represented in this catalog are designed for use in compressed air appllications only (including vacuum), unless otherwise indicated.

Do not use the product outside their design parameters.

Please contact SMC when using the products in applications other than compressed air (including vacuum).

#### Mounting

### **⚠** Warning

#### 1. Instruction manual

Install the products and operate them only after reading the instruction manual carefully and understanding its contents. Also keep the manual where it can be referred to as necessary.

### 2. Securing the space for maintenance

When installing the products, please allow access for maintenance.

### 3. Tightening torque

When installing the products, please follow the listed torque specifications.

### **Piping**

### **⚠** Caution

### 1. Before piping

Make sure that all debris, cutting oil, dust, etc, are removed from the piping.

### 2. Wrapping of pipe tape

When screwing piping or fittings into ports, ensure that chips from the pipe threads or sealing material do not get inside the piping. Also, when the pipe tape is used, leave 1.5 to 2 thread ridges exposed at the end of the threads.

### **Air Supply**

### **⚠** Warning

#### 1. Operating fluid

Please consult with SMC when using the product in applications other than compressed air (including vacuum). Regarding products for general fluid, please ask SMC about applicable fluids.

### 2. Install an air dryer, aftercooler, etc.

Excessive condensate in a compressed air system may cause valves and other pneumatic equipment to malfunction. Installation of an air dryer, after cooler etc. is recommended.

#### 3. Drain flushing

If condensate in the drain bowl is not emptied on a regular basis, the bowl will over flow and allow the condensate to enter the compressed air lines.

If the drain bowl is difficult to check and remove, it is recommended that a drain bowl with the auto-drain option be installed.

For compressed air quality, refer to "Air Preparation Equipment" catalog.

### 4. Use clean air

If the compressed air supply is contaminated with chemicals, cynthetic materials, corrosive gas, etc., it may lead to break down or malfunction.

### **Operating Environment**

### \land Warning

- 1. Do not use in environments where the product is directly exposed to corrosive gases, chemicals, salt water, water or steam.
- 2. Do not expose the product to direct sunlight for an extended period of time.
- 3. Do not use in a place subject to heavy vibrations and/or shocks.
- 4. Do not mount the product in locations where it is exposed to radiant heat.

#### **Maintenance**

### 🗥 Warning

### 1. Maintenance procedures are outlined in the operation manual.

Not following proper procedures could cause the product to malfunction and could lead to damage to the equipment or machine.

### 2. Maintenance work

If handled improperly, compressed air can be dangerous. Assembly, handling and repair of pneumatic systems should be performed by qualified personnel only.

#### 3. Drain flushing

Remove drainage from air filters regularly. (Refer to the specifications.)

### 4. Shut-down before maintenance

Before attempting any kind of maintenance make sure the supply pressure is shut of and all residual air pressure is released from the system to be worked on.

### 5. Start-up after maintenance and inspection

Apply operating pressure and power to the equipment and check for proper operation and possible air leaks. If operation is abnormal, please verify product set-up parameters.

### 6. Do not make any modifications to be product.

Do not take the product apart.



# Quality Assurance Information (ISO 9001, ISO 14001)

### Reliable quality of products in the global market

To enable our customers throughout the world to use our products with even greater confidence, SMC has obtained certification for international standards "ISO 9001" and "ISO 14001", and created a complete structure for quality assurance and environmental controls. SMC products to pursue meet customers' expectations while also considering company's contribution in society.

### Quality management system $ISO\ 9001$

This is an international standard for quality control and quality assurance. SMC has obtained a large number of certifications in Japan and overseas, providing assurance to our customers throughout the world.







### Environmental management system ISO 14001

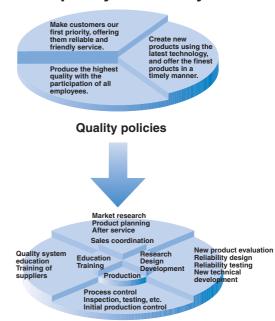
This is an international standard related to environmental management systems and environmental inspections. While promoting environmentally friendly automation technology, SMC is also making diligent efforts to preserve the environment.







### SMC's quality control system



**Quality control activities** 

## **SMC Product Conforming to Inter**

SMC products complying with EN/ISO, CSA/UL standards are supporting



The CE mark indicates that machines and components meet essential requirements of all the EC Directives applied.

It has been obligatory to apply CE marks indicating conformity with EC Directives when machines and components are exported to the member Nations of the EU.

Once "A manufacturer himself" declares a product to be safe by means of CE marking (declaration of conformity by manufacturer), free distribution inside the member Nations of the EU is permissible.

### ■ CE Mark

SMC provides CE marking to products to which EMC and Low Voltage Directives have been applied, in accordance with CETOP (European hydraulics and pneumatics committee) guide lines.

■ As of February 1998, the following 18 countries will be obliged to conform to CE mark legislation Iceland, Ireland, United Kingdom, Italy, Austria, Netherlands, Greece, Liechtenstein, Sweden, Spain, Denmark, Germany, Norway, Finland, France, Belgium, Portugal, Luxembourg

### **■ EC Directives and Pneumatic Components**

#### Machinery Directive

The Machinery Directive contains essential health and safety requirements for machinery, as applied to industrial machines e.g. machine tools, injection molding machines and automatic machines. Pneumatic equipment is not specified in Machinery Directive. However, the use of SMC products that are certified as conforming to EN Standards, allows customers to simplify preparation work of the Technical Construction File required for a Declaration of Conformity.

### • Electromagnetic Compatibility (EMC) Directive

The EMC Directive specifies electromagnetic compatibility. Equipment which may generate electromagnetic interference or whose function may be compromised by electromagnetic interference is required to be immune to electromagnetic affects (EMS/immunity) without emitting excessive electromagnetic affects (EMI/emission).

#### Low Voltage Directive

This directive is applied to products, which operate above 50 VAC to 1000 VAC and 75 VDC to 1500 VDC operating voltage, and require electrical safety measures to be introduced.

#### • Simple Pressure Vessels Directive

This directive is applied to welded vessels whose maximum operating pressure (PS) and volume of vessel (V) exceed 50 bar/L. Such vessels require EC type examination and then CE marking.



### national Standards

you to comply with EC directives and CSA/UL standards.



#### ■ CSA Standards & UL Standards

UL and CSA standards have been applied in North America (U.S.A. and Canada) symbolizing safety of electric products, and are defined to mainly prevent danger from electric shock or fire, resulting from trouble with electric products. Both UL and CSA standards are acknowledged in North America as the first class certifying body. They have a long experience and ability for issuing product safety certificate. Products approved by CSA or UL standards are accepted in most states and governments beyond question.

Since CSA is a test certifying body as the National Recognized Testing Laboratory (NRTL) within the jurisdiction of Occupational Safety and Health Administration (OSHA), SMC was tested for compliance with CSA Standards and UL Standards at the same time and was approved for compliance with the two Standards. The above CSA NRTL/C logo is described on a product label in order to indicate that the product is approved by CSA and UL Standards.

### **■ TSSA (MCCR) Registration Products**

TSSA is the regulation in Ontario State, Canada. The products that the operating pressure is more than 5 psi (0.03 MPa) and the piping size is bigger than 1 inch. fall into the scope of TSSA regulation.

### **Products conforming to CE Standard**

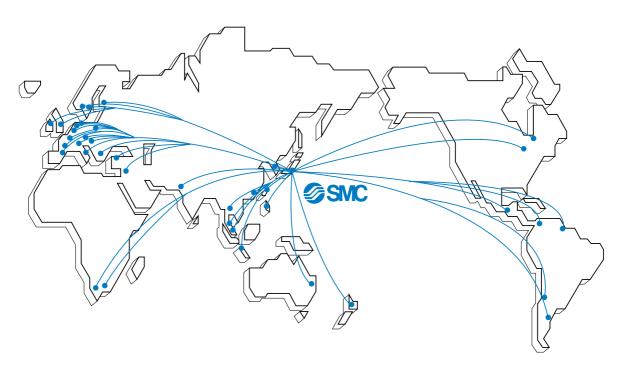


In this catalog each accredited product series is indicated with a CE mark symbol. However, in some cases, every available models may not meet CE compliance. Please visit our web site for the latest selection of available models with CE mark.

http://www.smcworld.com



### **SMC's Global Service Network**



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CANADA SMC Pneumatics (Canada) Ltd. 6768 Financial Drive Mississauga, Ontario, L5N 7J6 Canada

TEL: 905-812-0400 FAX: 905-812-8686

MEXICO SMC Corporation (Mexico), S.A. DE C.V.

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C.P. 36100, Silao, Gto., Mexico

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Teodoro Garcia 3860 (1427) Buenos Aires, Argentina

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Galicia 1650 esq. Gaboto C.P. 11200, Montevideo, Uruguay

TEL: 2-401-6603 FAX: 2-409-4306

Rua. Dra. Maria Fidelis, nr. 130, Jardim Piraporinha-Diadema-S.P.

CEP: 09950-350, Brasil

TEL: 11-4051-1177 FAX: 11-4071-6636

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POLAND SMC Industrial Automation Polska Sp.z.o.o. ul. Konstruktorska 11A, PL-02-673 Warszawa, Poland

TEL: 022-548-5085 FAX: 022-548-5087

TURKEY (Distributor) Entek Pnömatik San.ve Tic. Ltd. Sti

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