

Mist Separator

Series AFM20/30/40

How to Order

AFM 30 F 03 BD 2R

Mist separator

Body size
20 30 40

Thread type

Nil	Rc
N ⁽¹⁾	NPT
F ⁽²⁾	G

Note 1) Drain guide is NPT 1/4 (applicable to AFM30 and 40), and the exhaust port for auto-drain comes with ø3/8" One-touch fitting (applicable to AFM30 and 40).

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

Accessory

Symbol	Description	Applicable model
Nil	—	—
B ⁽³⁾	With bracket	AFM20 to 40
C	Float type ⁽⁴⁾ auto-drain (N.C.)	AFM20 to 40
D	Float type ⁽⁴⁾ auto-drain (N.O.)	AFM30/40

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

Port size

Symbol	Port size	Body size
		20 30 40
01	1/8	● — —
02	1/4	● ● ●
03	3/8	— ● ●
04	1/2	— — ●
06	3/4	— — ●

Note 4) Applicable tubing O.D. for auto-drain connection should be ø3/8" in case NPT thread port is chosen.

Option

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

* 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		Symbol	Accessory			Optional specifications								Applicable mist separator	
			B	C	D	2	6	8	C	J	R	W	Z	AFM20	AFM30 to 40
Accessory	With bracket	B	○	○	○	○	○	○	○	○	○	○	△	○	○
	Float type auto-drain (N.C.)	C	○	○	○	○	○	○	○	○	○	○	△	○	○
	Float type auto-drain (N.O.)	D	○	○	○	○	○	○	○	○	○	○	△	○	○
Optional specifications	Metal bowl	-2	○	○	○	○	○	○	○	○	○	○	△	○	○
	Nylon bowl	-6	○	○	○	○	○	○	○	○	○	○	△	○	○
	Metal bowl with level gauge	-8	○	○	○	○	○	○	○	○	○	○	△	○	○
	With bowl guard	-C	○	○	○	○	○	○	○	○	○	○	△	○	○
	Drain guide 1/4	-J	○	○	○	○	○	○	○	○	○	○	△	○	○
	Flow direction: Right → Left	-R	○	○	○	○	○	○	○	○	○	○	△	○	○
	Drain cock with barb fitting: ø6 x ø4 nylon tubing	-W	○	○	○	○	○	○	○	○	○	○	△	○	○
	Name plate and caution plate for bowl in imperial units (PSI, °F)	-Z	△	△	△	△	△	△	△	△	△	△	△	△	△

○ : Combination available

○ : Varies depending on the model

△ : Combination not available

△ : Available only with NPT thread

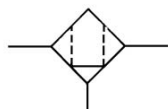


AFM20

AFM30

AFM40

JIS Symbol



Standard Specifications

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	Air			
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 (With no freezing)			
Rated flow (l/min (ANR)) ⁽¹⁾	200	450	1100	1100
Nominal filtration rating	0.3 μm (95% filtered particle size)			
Outlet side oil mist concentration	Maximum 1.0 mg/m ³ (ANR) (approx. 0.8 ppm) ⁽²⁾			
Bowl material	Polycarbonate			
Bowl guard	Option	Standard		
Drain capacity (cm ³)	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.

Applicable model	AFM20	AFM30	AFM40	AFM40-06
Accessory				
Bracket assembly ⁽¹⁾	AF20P-050AS	AF30P-050AS	AF40P-050AS	AF40P-070AS
Float type auto-drain ⁽²⁾	N.O.	AD38	AD48	AD48
	N.C.	AD27	AD37	AD47

Note 1) Assembly includes a bracket and 2 mounting screws.

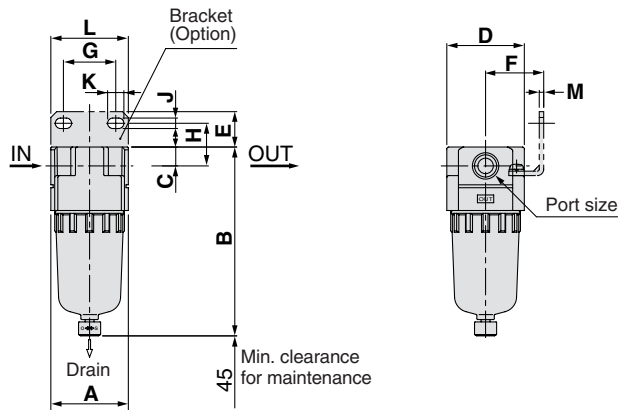
Note 2) Minimum operating pressure: N.O. type—0.1 MPa; N.C. type—0.1 MPa (AD17/27) and 0.15 MPa (AD37/47).

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

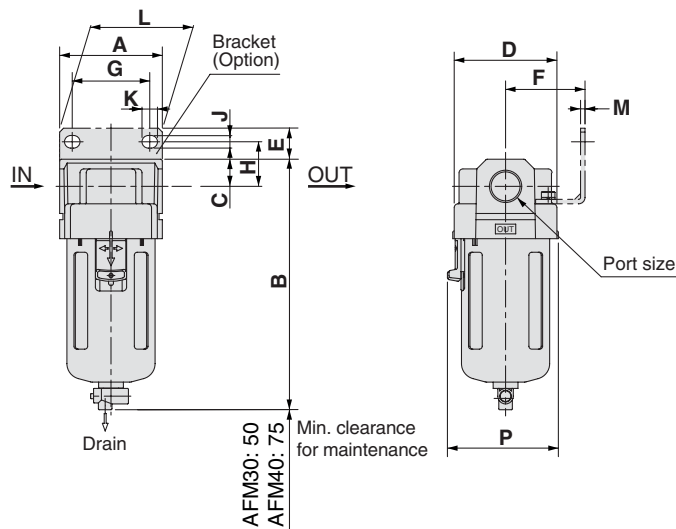
Series AFM20/30/40

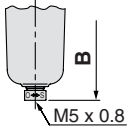
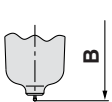
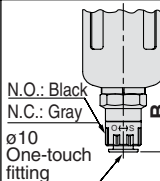
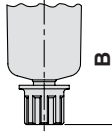
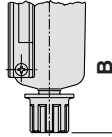
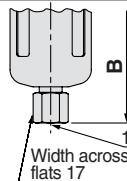
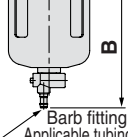
Dimensions

AFM20



AFM30/40/40-06



Applicable model	AFM20		AFM30, AFM40, AFM40-06				
Optional specifications	With auto-drain (N.C.)	Metal bowl	With auto-drain (N.O./N.C.)	Metal bowl	Metal bowl with level gauge	With drain guide	Drain cock with barb fitting
							

Model	Port size	Standard specifications					Accessory specifications								
							With bracket								With auto-drain
		A	B	C	D	P	E	F	G	H	J	K	L	M	B
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

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