

Series 10-21-AFD-A Micro Mist Separator

How to Order



Clean series

* "J" must always be selected.

10 - AFD 30 - F 03 B - J - A
 21 - AFD 30 - F 03 B - J - A

Copper, fluorine and silicone-free +
 Low particle generation

Micro Mist Separator

1

2

3

4

5

- Option/Semi-standard: Select one each for a to e.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.

		Symbol	Description	1			
				Body size			
				20	30	40	
2	Pipe thread type	Nil	Rc	●	●	●	
		N ^{Note 1)}	NPT	●	●	●	
		F ^{Note 2)}	G	●	●	●	
+							
3	Port size	01	1/8	●	—	—	
		02	1/4	●	●	●	
		03	3/8	—	●	●	
		04	1/2	—	—	●	
		06	3/4	—	—	●	
+							
4	a	Mounting	Nil	Without mounting option	●	●	●
			B ^{Note 3)}	With bracket	●	●	●
+							
5	b	Bowl	Nil	Polycarbonate bowl	●	●	●
			2	Metal bowl	●	●	●
			6	Nylon bowl	●	●	●
			8	Metal bowl with level gauge	—	●	●
			C	With bowl guard	●	— ^{Note 6)}	— ^{Note 6)}
			6C	With bowl guard (Nylon bowl)	●	— ^{Note 7)}	— ^{Note 7)}
+							
5	c	With drain cock	J ^{Note 4)}	Drain guide 1/8	●	—	—
				Drain guide 1/4	—	●	●
+							
5	d	Flow direction	Nil	Flow direction: Left to right	●	●	●
			R	Flow direction: Right to left	●	●	●
+							
5	e	Pressure unit	Nil	Name plate and caution plate for bowl in SI units: MPa	●	●	●
			Z ^{Note 5)}	Name plate and caution plate for bowl in imperial units: psi, °F	○ ^{Note 8)}	○ ^{Note 8)}	○ ^{Note 8)}

Note 1) Drain guide is NPT1/8 (applicable to size 20), and NPT1/4 (applicable to size 30 and 40).

Note 2) Drain guide is G1/8 (applicable to size 20), and G1/4 (applicable to size 30 and 40).

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

Note 4) Without a valve function.

Note 5) 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).

Note 6) A bowl guard is provided as standard equipment (polycarbonate).

Note 7) A bowl guard is provided as standard equipment (nylon).

Note 8) ○: For pipe thread type: NPT only

Micro Mist Separator ¹⁰⁻/₂₁₋AFD-A

Standard Specifications

Model	10-/21-AFD20-A	10-/21-AFD30-A	10-/21-AFD40-A	10-/21-AFD40-06-A
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 & fluid temperature	-5 to 60°C (No freezing)			
Nominal filtration rating	0.01 μm (95% filtered particle size)			
Outlet side oil mist concentration	Max. 0.1 mg/m ³ (ANR) (Before saturated with oil: 0.01 mg/m ³ (ANR) or less, approx. 0.008 ppm) ^{Note 1)} ^{Note 2)}			
Rated flow {L/min(ANR)} ^{Note 3)}	120	240	600	600
Drain capacity (cm ³)	8	25	45	45
Drain guide port size	1/8	1/4	1/4	1/4
Grease	10-: Fluorine grease 21-: Lithium soap based grease			
Cleanliness class (ISO class)	10-: Class 3 21-: Class 3			

Note 1) When the compressor oil mist discharge concentration is 30 mg/m³ (ANR).

Note 2) Bowl seal and other O-rings are slightly lubricated.

Note 3) Conditions: Inlet pressure: 0.7 MPa; 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.

Accessory Part No.

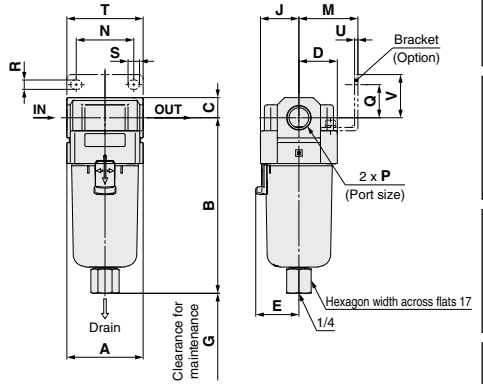
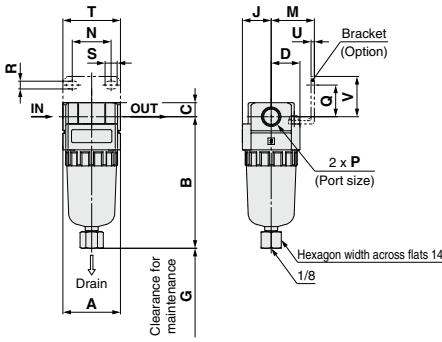
Option	Applicable model	10-/21-AFD20-A	10-/21-AFD30-A	10-/21-AFD40-A	10-/21-AFD40-06-A
Bracket assembly ^{Note 4)}		AF22P-050AS	AF32P-050AS	AF42P-050AS	AF42P-070AS

Note 4) Assembly includes a bracket and 2 mounting screws.

Dimensions

¹⁰⁻²¹⁻AFD20-A

¹⁰⁻²¹⁻AFD30-A to 40-06-A



Applicable model	10-21-AFD20-A		10-21-AFD30-A to 40-06-A	
Semi-standard specifications	With bowl guard	Metal bowl	Metal bowl	Metal bowl with level gauge
Dimensions				

Model	Standard specifications											Semi-standard specifications							
	P	A	B	C	D	E	G	J	M	N	Q	R	S	T	U	V	With bowl guard	Metal bowl	Metal bowl with level gauge
¹⁰⁻²¹⁻ AFD20-A	1/8, 1/4	40	91.4	9.8	20	—	25	20	30	27	22	5.4	8.4	40	2.3	28	91.4	93.9	—
¹⁰⁻²¹⁻ AFD30-A	1/4, 3/8	53	121.9	14	26.7	30	35	26.7	41	35	23	6.5	13	53	2.3	30	—	122.1	142.1
¹⁰⁻²¹⁻ AFD40-A	1/4, 3/8, 1/2	70	153.9	18	35.5	38.4	40	35.5	50	52	26	8.5	12.5	70	2.3	35	—	154.1	174.1
¹⁰⁻²¹⁻ AFD40-06-A	3/4	75	155.9	20	35.5	38.4	40	35.5	50	52	25	8.5	12.5	70	2.3	34	—	156.1	176.1

- Directional Control Valves
- Air Cylinders
- Rotary Actuators
- Air Grippers
- Air Preparation Equipment
- Modular F. R.
- Pressure Control Equipment
- Fittings & Tubing
- Flow Control Equipment
- Pressure Switches/ Pressure Sensors