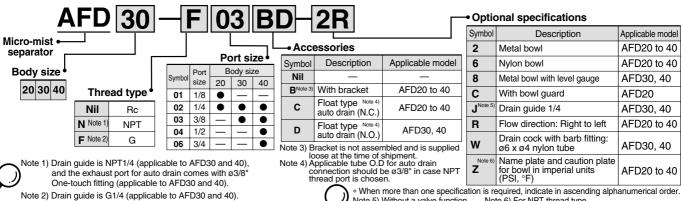
Micro-Mist Separator

AFD20/30/40

How to Order



Accessory/Optional specification combinations

Note 5) Without a valve function. Note 6) For NPT thread type.

: Combination available : Combination not available : Available only with NPT thread . Varios depending on the model

Accessory/Optional specification combinations						. Varies depending on the model . Available only with M						only william i linead			
	Combination		Accessory				Optional specification						Applicable micro	o mist separator	
	Combination	Ē											AFD20	AFD30 to 40	
Α	ccessory/Optional specifications	Sy	В	С	D	2	6	8	С	J	R	W	Z	AFD20	AFD30 t0 40
ries	With bracket	В		0	0	0	0	0	0	0	0	0	Δ	0	0
cesso	Float type auto drain (N.C.)	С	0			0	0	0	0		0		Δ	0	0
Pec	Float type auto drain (N.O.)	D	0			0	0	0			0		Δ		0
ns	Metal bowl	-2	0	0	0					0	0		Δ	0	0
atio	Nylon bowl	-6	0	0	0				0	0	0	0	Δ	0	0
iţice	Metal bowl with level gauge	-8	0	0	0					0	0		Δ		0
မ	With bowl guard	-C	0	0			0				0		Δ	0	
sb	Drain guide 1/4	_J	0			0	0	0			0		Δ		0
nal	Flow direction: Right to left		0	0	0	0	0	0	0	0		0	Δ	0	0
tio			0				0				0		Δ		0
ŏ	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

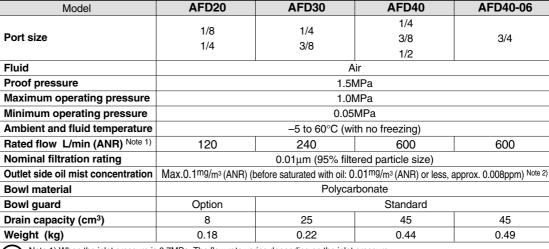
Standard specifications











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

Accessory part no

Accessory part no.										
Applicab Accessory	AFD20		AFD30		AFD40	AFD40-06				
Bracket assembly Note	AF20P-050AS	AF3	0P-050AS	AF4	0P-050AS	AF40P-070AS				
Note 2)	N.O.	_	AD38	AD38NNote 3)	AD48	AD48NNote 3)	AD48	AD48NNote 3)		
Float type auto drain	N.C.	AD27	AD37	AD37N ^{Note 3)}	AD47	AD47N ^{Note 3)}	AD47	AD47N ^{Note 3)}		



Symbol

AFD40

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



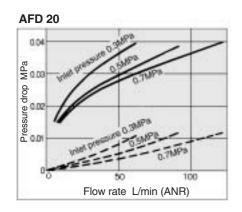
Note 1) Assembly includes a bracket and 2 mounting screws.

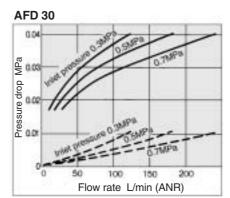
Note 2) Minimum operating pressure: N.O. type-0.1MPa; N.C. type-0.1MPa (AD27) and 0.15MPa (AD37/47).

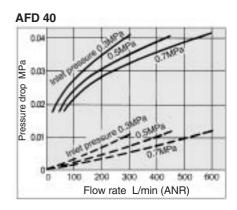
Flow Characteristics (Representative values)

: When saturated with oil

: Initial state

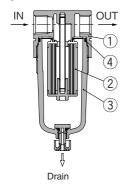


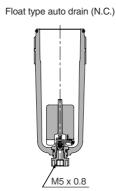




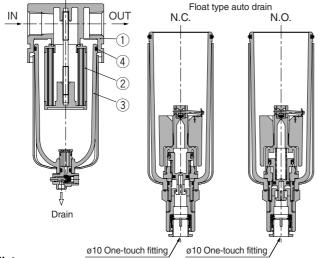
Construction

AFD20





AFD30, 40



Parts list

NIa	Description		Material	Note
NO.	Description	AFD20	AFD30, AFD40, AFD40-06	Note
1	Body	Zinc die-cast	Aluminum die-cast	Platinum silver

Replacement parts

No	Description	Material	Part no.							
No.	Description	ivialeriai	AFD20	AFD30	AFD40	AFD40-06				
2	Element assembly	_	AFD20P-060AS	AFD30P-060AS	AFD40P-060AS	AFD40P-060AS				
3	Bowl assembly Note 1)	PC	C2SF	C3SF Note 2)	C4SF Note 2)	C4SF Note 2)				
4	Bowl O-ring	NBR	C2SFP-260S	C3SFP-260S	C4SFP-260S	C4SFP-260S				

Note 1) Including O-Ring. Contact SMC regarding the bowl assembly supply for PSI and °F unit specifications. Note 2) Bowl assembly for AFD30 to AFD40-06 includes a bowl guard (steel band material)

↑ Specific Product Precautions

Be sure to read before handling. Refer to pages 75 through 78 for safety instructions and F.R.L. unit precautions.

Air Supply

△Caution

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

Maintenance

∆Warning

1. Replace the element every 2 years or when the pressure drops becomes 0.1MPa, 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 0.1MPa, as exceeding this value could cause damage.

Selection

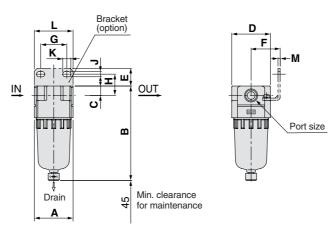
∆Caution

- 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. Contact SMC if an application under such conditions cannot be avoided.

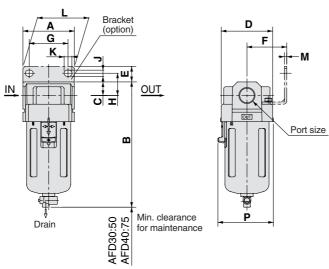


Dimensions

AFD20



AFD30, 40, 40-06



Applicable model	AFI	020	AFD30, AFD40, AFD40-06									
	With compact 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					
Optional specifications	B M5 x 0.8	B	N.O.: Black N.C.: Gray Ø10 One-touch fitting		B	Width across flats 17	Barb fitting Applicable tubing: T0604					

		Standard specification					Accessory specification								
Model	Port size						With bracket								With auto drain
		Α	В	С	D	Р	Е	F	G	Н	J	K	L	М	В
AFD20	1/8, 1/4	40	97	10	40	_	18	30	27	22	5.4	8.4	40	2.3	115
AFD30	1/4, 3/8	53	129	14	53	57	16	41	40	23	6.5	8	53	2.3	170
AFD40	1/4, 3/8, 1/2	70	165	18	70	73	17	50	54	26	8.5	10.5	70	2.3	204
AFD40-06	3/4	75	169	20	70	73	14	50	54	25	8.5	10.5	70	2.3	208

	Optional specification										
Model	With drain guide	With barb fitting	Metal bowl	Metal bowl with level gauge							
	В	В	В	В							
AFD20	_	_	97	_							
AFD30	136	137	142	162							
AFD40	172	173	178	198							
AFD40-06	176	177	182	202							

