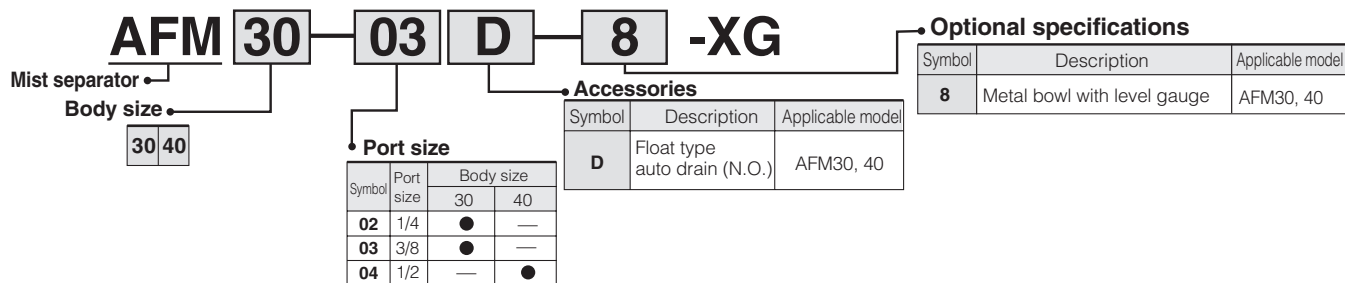


Mist Separator

AFM30/40

How to Order



Standard specifications

Model	AFM30	AFM40
Port sizes(ISO1179-1)	1/4 3/8	1/2
Fluid	Air	
Proof pressure	1.5MPa	
Maximum operating pressure	1.0MPa	
Minimum operating pressure	0.05MPa	
Ambient and fluid temperature	-5 to 60°C (with no freezing)	
Rated flow L/min (ANR) <small>Note 1)</small>	450	1100
Nominal filtration rating	0.3μm (95% filtered particle size)	
Outlet side oil mist concentration	Maximum 1.0mg/m ³ (ANR) (approx. 0.8ppm) <small>Note 2)</small>	
Bowl material	Metal	
Bowl guard	Standard	
Drain capacity (cm³)	25	45
Weight (kg)	0.22	0.44



Note 1) When the inlet pressure is 0.7MPa. Flow rate varies depending on the inlet pressure.

Note 2) When the compressor oil mist discharge concentration is 30mgf/rÅ (ANR).

Accessory part no.

Applicable model		AFM30	AFM40
Accessory			
Bracket assembly <small>Note 1)</small>		AF30P-050AS	AF40P-050AS
Float type auto drain <small>Note 2)</small>	N.O.	AD38	AD48



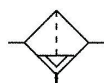
Note 1) Assembly includes a bracket and 2 mounting screws.

Note 2) Minimum operating pressure: N.O. type-0.1MPa;



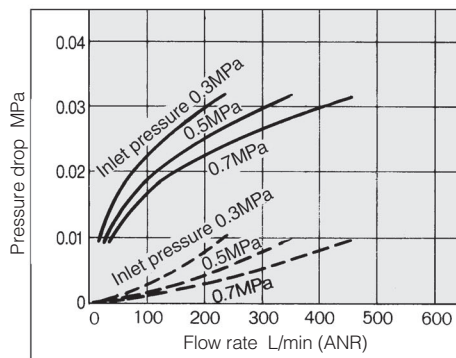
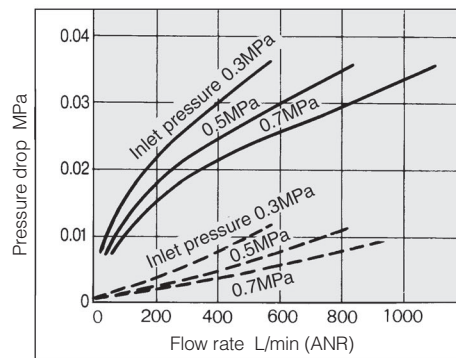
AFM40

AFM30

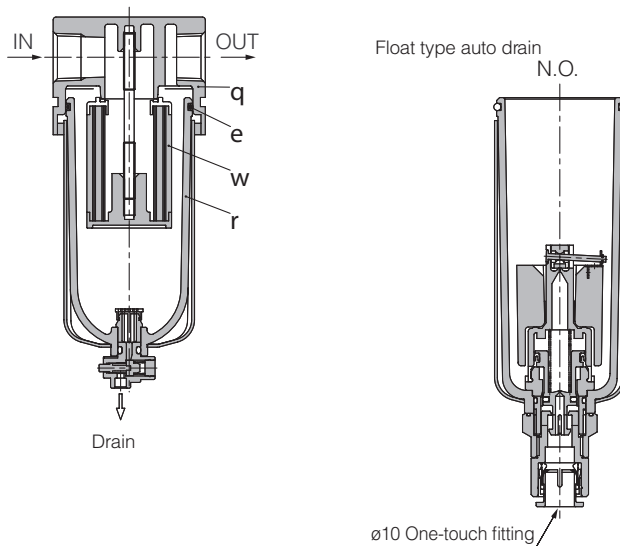


Flow Characteristics (Representative values)

— : When saturated with oil
 - - - : Initial state

AFM30

AFM40


Construction

AFM30, 40


Air Supply

⚠ Caution

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

⚠ Warning

1. Replace the element every 2 years or when the pressure drop 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.

Parts list

No.	Description	Material	Note
		AFM30, AFM40	
1	Body	Aluminum die-cast	Platinum silver

Replacement parts

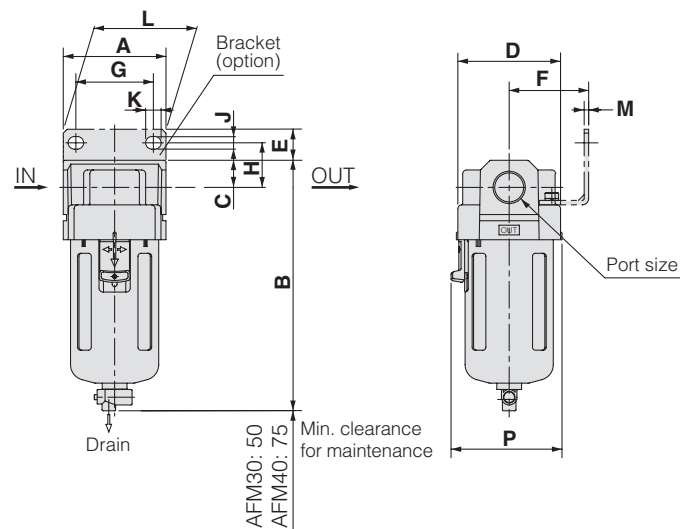
No.	Description	Material	Part no.	
			AFM30	AFM40
2	Element assembly	—	AFM30P-060AS	AFM40P-060AS
3	Bowl O-ring	NBR	C3SFP-260S	C4SFP-260S
4	Bowl assembly <small>Note 1)</small>	PC	C3SF <small>Note 2)</small>	C4SF <small>Note 2)</small>

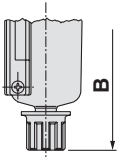
Note 1) Including O-Ring. Contact SMC regarding the bowl assembly supply for PSI and F unit specifications.
 Note 2) Bowl assembly for AFM30 to AFM40-06 includes a bowl guard (steel band material).

AFM 30/40

Dimensions

AFM30, 40



Applicable model	AFM30, AFM40
Optional specifications	Metal bowl with level gauge
	

Model	Port size	Standard specification					Accessory specification								
							With bracket								With auto drain
		A	B	C	D	P	E	F	G	H	J	K	L	M	B
AFM30	1/4	53	129	14	53	57	16	41	40	23	6.5	8	53	2.3	170
AFM40	3/8, 1/2	70	165	18	70	73	17	50	54	26	8.5	10.5	70	2.3	204

Model	Optional specification
	Metal bowl with level gauge
	B
AFM30	162
AFM40	198