Assistive device

valves

bacteria-removing filter

Anti-bacterial/



Catalog No. CB-024SA

Oil mist filter

M1000/M2000/M3000 M4000/M6000/M8000-W-FP1 Series

Ideal for circuits which prohibit passage of oil

Port size: Rc1/8 to Rc1

JISCode







Specifications

Item	M1000-W	M2000-W	M3000-W	M4000-W	M6000-W	M8000-W				
Appearance										
Working fluid			Compressed air							
Working pressure MPa	O.1 to 1.0 *2, *3									
Proof pressure MPa	1.5 *2									
Drain capacity cm ³	3	25	45	80	80	80				
Port size Rc *8	1/8, 1/4		3/8	1/4, 3/8, 1/2	3/4, 1					
\\\\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(3/8 uses an adaptor)		an adaptor)	(3/4 uses an adaptor)	(11/4 uses an adaptor)	(1 1/4 uses an adaptor)				
Weight kg	0.096	0.25	0.28	0.52	0.95	1.35				
Standard accessories			Bowl	guard						
Mantle option name		Blank (M	type)	S (S type)	Х	X (X type)				
Max. processing flow rate	processing flow rate M1000- □ -W		150 *2			150				
*1	M2000- □ -W	250		310		310				
L/min (ANR)	M3000- □ -W	360		450		450				
,	M4000- 🗆 -W	825		1000		1000				
Primary pressure 0.7	M6000- □ -W	1270)	1400		1400				
MPaHour	M8000- □ -W	2600		2900		2900				
Ambient/fluid temperature	es °C		5 to 60		5 to 30					
Filtration rating	μm	0.01 (nom	ninal)	0.3	Suction by	Suction by activated carbon				

*1: Use within the max. processing flow rate. If the max. processing flow rate is exceeded temporarily, or if the filter is installed at a location with high levels of

1 year (6000 hours) or pressure drop 0.1 MPa

0.5 or less

*4

- pulsation, the mantle could be damaged or oil or drainage, etc., could splatter to the secondary side and result in a terminal malfunction.

 *2: With M1000-W-F1 auto-drain, the min. working pressure is 0.2MPa, the max. working pressure is 0.7MPa and the proof pressure is 1.05MPa. For the max. processing flow rate, refer to the max. processing flow rate graph (Pneumatic, Vacuum, and Auxiliary Components (CB-024SA)).
- *3: In the case of "F1" with auto-drain, the min. working pressure is 0.15MPa.
- *4: The secondary oil concentration is the value when the primary oil concentration is 30mg/m³ and inlet air temperature is 21°C.

0.01 or less (0.1 or less after oil saturation) *4,*5

*5: Install an oil mist filter (S type) as a pre-filter on the primary side to prevent early clogging.

mg/m³

- *6: When an oil mist filter (M Series M type) is installed on the primary side.
- *7: The mantle (element) replacement period differs depending on the odor density in compressed air, and thus cannot be clearly indicated. Consider the total period from initial installation to when the smell of oil is confirmed as the effective deodorizing period, and replace at the same time as the M type or control with usage time. (When the inlet temperature is 21°C, replace at the control time or 1,000 hours, whichever comes first) Keep the primary air temperature at 30°C or less. The deodorizing effect will drop if temperature is high, so provide heat dissipation measures.
- *8: NPT and G threads can be manufactured with CKD Sales.

Secondary side oil concentration

Mantle (element) change

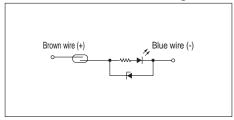
Differential pressure switch/switch specifications

Differential pressure switch	Differential pressure switch option Q3/Q4							
Option name	Reed 2-wire							
Load voltage	12/24 VDC	110 VAC						
Load current *1	5 to 50mA	7 to 20mA						
Internal voltage drop	3 V or less							
Display lamp	Red LED (Lit when ON)							
Lead wire length	3 m (oil resistant vinyl cabtyre cable 2-conductor 0.2mm²)							
Shock resistance	294m/s ²							
Insulation resistance	500 $M\Omega$ and over with 20 VDC megger							
Withstand voltage	No failure after 1 minute of 1000 VAC application.							
Degree of protection	IEC Standard IP67, JIS C0920 (water-tight), oil resistance							
Contact protection circuit	None							

*1: Install the load resistance before use.

Switch internal circuit diagram

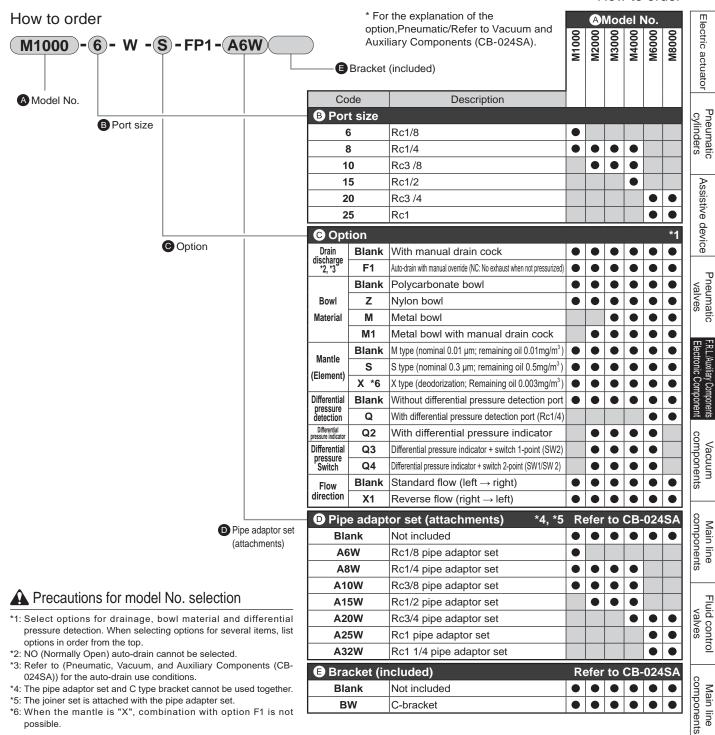
0.003 or less *6



CE marking specifications

Compatible as standard.

Oil Mist Filter Series



Option weight

* Add to the weight of the standard accessories.												Unit: kg		
Code	Drain discharge Bowl material Differential pressure switch						Pipe adaptor set						Bracket	
	F1	M	M1	Q2	Q3	Q4	A6W	W8A	A10W	A15W	A20W	A25W	A32W	BW
M1000	0.007						0.09	0.09	0.09					0.1
M2000	0.02		0.1	0.04	0.09	0.13		0.16	0.16	0.16				0.15
M3000	0.02	0.1	0.1	0.04	0.09	0.13		0.16	0.16	0.16				0.17
M4000	0.02	0.1	0.1	0.05	0.10	0.14		0.16	0.16	0.16	0.16			0.21
M6000	0.02	0.1	0.1	0.05	0.10	0.14					0.53	0.53	0.53	0.34
M8000	0.02	0.1	0.1								0.53	0.53	0.53	0.36

For dimensions, refer to the oil mist filter in "Pneumatic, Vacuum and Auxiliary Components (CB-024SA)".

bacteria-removing filter

components

Fluid control