MAMM series 0.01 μm

AIR UNIT (MICRO MIST FILTER)

mindman

Features

Selection table

Caution for safety
(Read before installing)



Features

Removing the oil mist and impurities which the particles are bigger than 0.01μm in compressed air. The filter can be applied to requirement of high purity and extremely low oil mist.

Maintenance

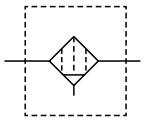
Replace filter element at least once per year or when pressure drop reaches 0.07 MPa.

Specification

Model	MAMM							
Body size	25		35		45		55	
Bore No.	8A	10A	10A	15A	15A	20A	20A	25A
Port size	1/4	3/8	3/8	1/2	1/2	3/4	3/4	1
Medium	Air							
Operating perssure range (*)	0.05~1 MPa							
Proof pressure	1.5 MPa							
Ambient temperature	– 5~+60°C (No freezing)							
Filter element	0.01 μm							
Attchment	L-type bracket							
Sensor switch	RDC(V), RQC(V)							
Weight	610 g		870 g		1450 g		2250 g	

* Standard unit contains semi-auto-drain function when operating pressure below 0.05 MPa.
* Choose auto-drain FMRF300, the pressure range is 0.15~1 MPa.

Symbol



Order example

MAMM 45 – 15A – D□ – Q – □

- MODEL
  - **M**: 0.01 μm
- BODY SIZE / PORT SIZE

BODY SIZE	PORT SIZE
25	**8A**: 1/4 **10A**: 3/8
35	**10A**: 3/8 **15A**: 1/2
45	**15A**: 1/2 **20A**: 3/4
55	**20A**: 3/4 **25A**: 1

- FLOW DIRECTION
  - Blank: Left to right
  - **R**: Right to left
- DRAIN VALVE
  - Blank: Semi-auto
  - **D**: Auto (FMRF300)
- Differential Pressure Indicator (*)
  - Blank: Without
  - **Q**: Indicator
  - **QS**: Indicator with switch (*)
- PORT HREAD
  - Blank: Rc thread
  - **G**: G thread
  - **NPT**: NPT thread

* Please add the sensor when selecting Indicator with switch (QS).
* The models without Indicator (Q) and Indicator with switch (QS) type don't have the installation thread holes.

Selector table – Filter element

Model	Port size	Filter element *1	Residual oil content *2	Nominal*3 flow capacity l/min(ANR)	Symbol for order
MAMM25	1/4, 3/8	**E001**: 0.01μm (filtration efficiency 99.9%)	< 0.01 mg/m^3	500	**E001-M25**
MAMM35	3/8, 1/2			1000	**E001-M35**
MAMM45	1/2, 3/4			2000	**E001-M45**
MAMM55	3/4, 1			3600	**E001-M55**

*1. Tested according to ISO8573.
*2. Tested according to ISO12500-1, inlet concentration 10mg/m^3
*3. Nominal flow capacity is at 0.7 MPa, and it varies depending on the operating pressure. If flow rate is over nomial flow capacity, may not meet the specifications of the product.

Order example of sensor switch

RDC V – 2M

Model	Auto switch type	Wire length
RDC: Non-contact **RQC**: NPN & PNP configurations*	Blank: Straight cable	**2M**: L=2000mm **QD**: M8, 3 Pin connector **EQD**: M8, 3 Pin connector (Only for RDC)
	V: Angle cable	**2M**: L=2000mm

* Selects the mode based on NPN or PNP wiring configuration. Always turn off power before wiring; never work on live wires.



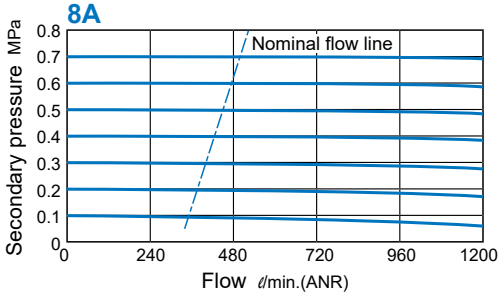
Dimensions

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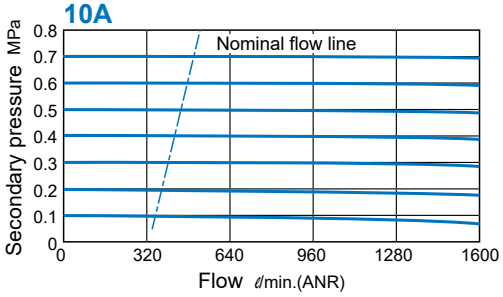
⚠ If flow rate is over nomial flow capacity, may not meet the specifications of the product.

MAMM25

8A

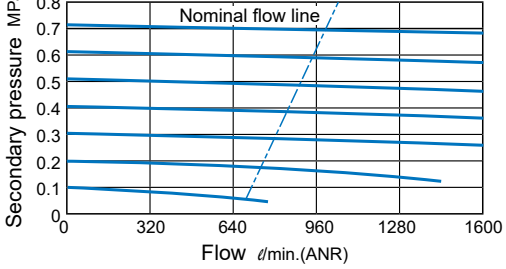


10A

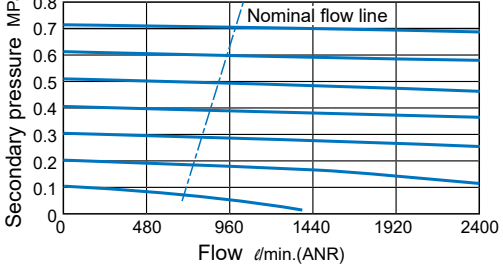


MAMM35

10A

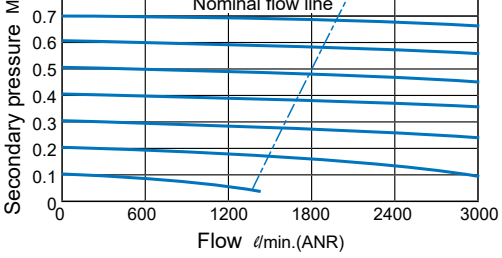


15A

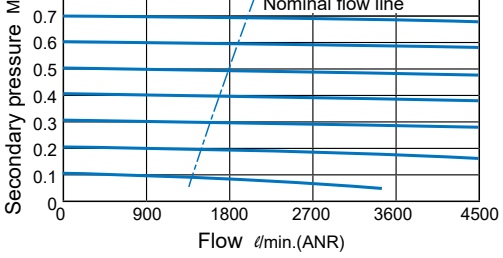


MAMM45

15A

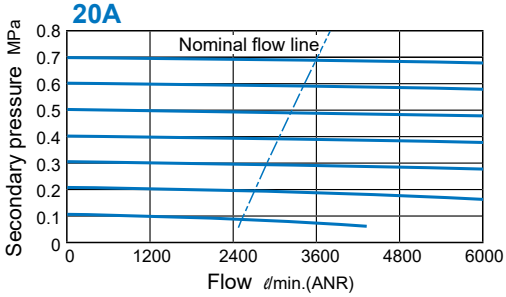


20A

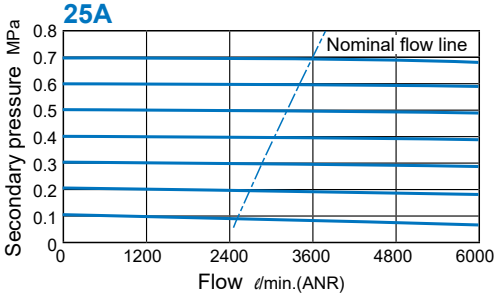


MAMM55

20A

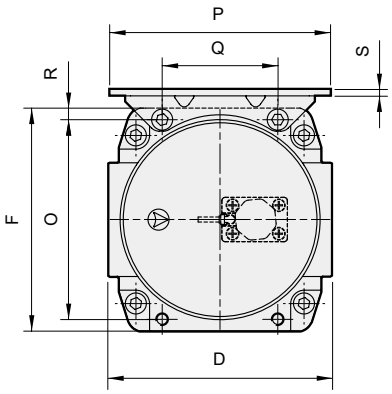


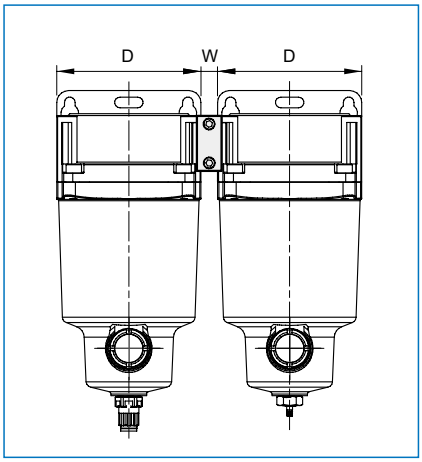
25A

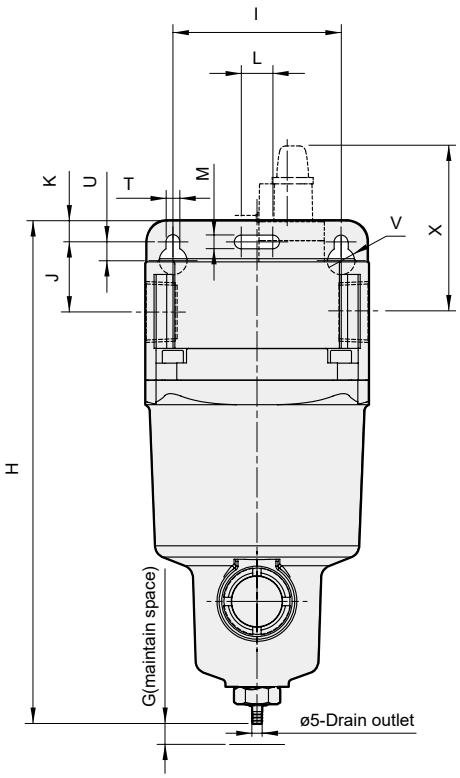


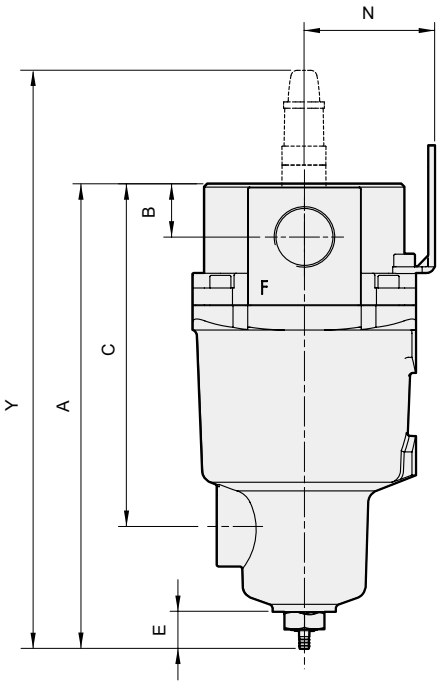
MAM* Dimensions

AIR UNIT (PRECISION FILTER • WATER SEPARATOR)

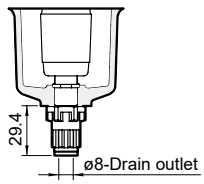








MAM*-D



Code / Model	Port size	A	B	C	D	E	F	G	H	I	J	K	T	U	L	M	V	N	O	P	Q	R	S	W	X	Y
MAM*25	1/4", 3/8"	171.6	16.5	113.5	76	17.6	76	10	187.1	66	24	8	6	6	6	6	10	47	68.5	80	35	3.8	2	10	71.5	226.6
MAM*35	3/8",1/2"	199.1	16.5	141	90	17.6	90	10	218.6	80	28	8	7	7	7	7	12	53.4	80.5	95	44	4.8	2.3	10	71.5	254.1
MAM*45	1/2",3/4"	221.1	25.2	163	106	17.6	106	10	236.9	90	31	10	9	9	9	9	15	62	95	111	55	5.5	3.2	14	80.2	276.1
MAM*55	3/4",1"	256.1	25.2	198.5	122	17.6	122	10	275.6	100	34.7	10	9	9	15	9	15	72	106	122	63	8	3.2	14	80.2	311.1

MAM* Modular combination example

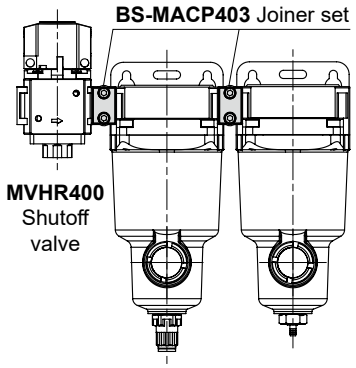
AIR UNIT (PRECISION FILTER • WATER SEPARATOR)

Available components (Option)

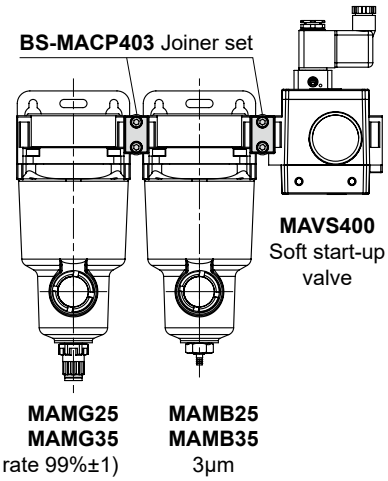
Model	Joiner set	Air unit	Shutoff valve	Soft start-up valve
MAM*25	BS-MACP403	MA*401-W MA*403	MVHR400	MAVS400
MAM*35				
MAM*45	BS-MACP501	MA*501	–	–
MAM*55				

- Space-saving.
- Various combinations available.
- Easy assembly (DIY).

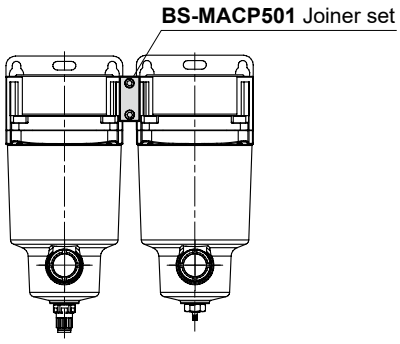
Example 1



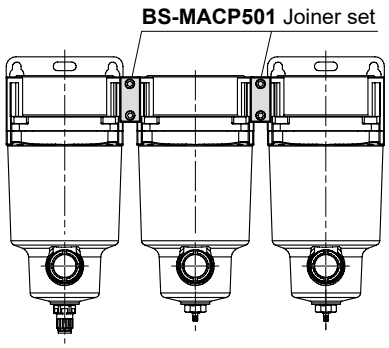
Example 2



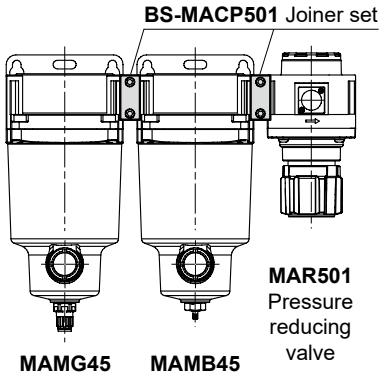
Example 3



Example 4



Example 5



Example 6

