



High performance oil mist filter

MX3000/MX4000/MX6000 Series

Secondary oil content 0.001 mg/m³

Appropriate for optical devices such as optical positioning devices, laser processing systems

JIS symbol



Structure/treatment and material restriction

	Structure/treatment	Material restriction			Model No.
P7 Series	Dust generation preventing				— P70
	Dust generation preventing	Copper-based materials prohibited	Silicon-based materials prohibited	Halogen-based materials prohibited (fluorine, chlorine, bromine)	— P74 Custom order product

Specifications

Descriptions	MX3000	MX4000	MX6000
Working fluid	Compressed air		
Working pressure MPa	0.1 to 1.0		
Proof pressure MPa	1.5		
Ambient temperature/fluid temperature °C	5 to 50		
Filtration rating μm	0.01 (nominal)		
Secondary side oil concentration mg/m ³	0.001 or less (0.01 or less after oil saturation) *2, *3		
Processing flow rate ℓ/min (ANR) *1	180	370	670
Weight kg	0.28	0.52	0.95
Mantle (Element) Service life	1 year (6000 hours) or pressure drop 0.1 MPa		

*1: For a primary pressure of 0.7 MPa. Use the product within the max. processing flow rate.

If the max. processing flow is exceeded temporarily, or if the filter is installed at a place with high levels of pulsation, the mantle could be damaged or oil or drainage, etc., could splatter to the secondary side and result in faults at the terminal.

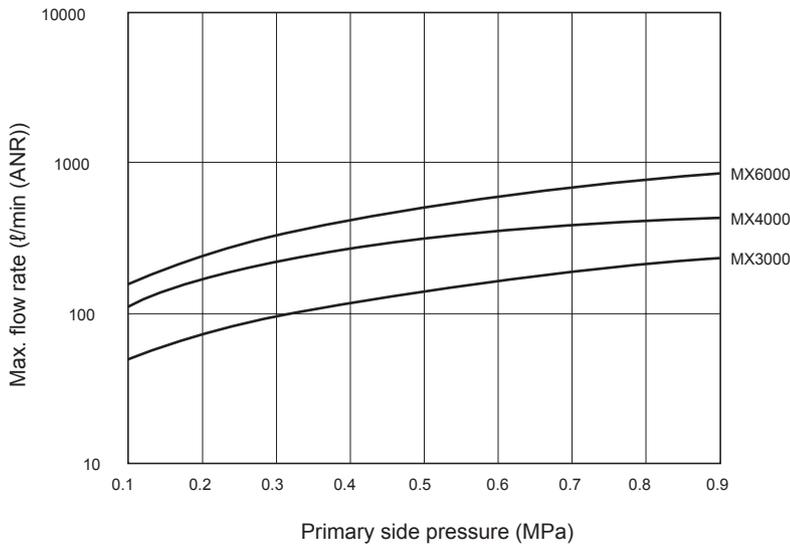
*2: The secondary oil content is the value when the primary oil content is 30 mg/m³, the inlet air temperature is 21°C, and before the oil is saturated.

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

- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder switch
- MN3E
MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R (module unit)
- Clean F.R
- Precision R
- Press gauge
Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending

Flow characteristics (Max. processing flow rate)

● MX*000



Oil mist filter: How to use optional mantle

Major recommended circuit

◆ S type



Applications

Air for general industry
(Secondary oil content 0.5 mg/m³ or less)

- Air tool
- Air drill/air screw driver/air grinder
- Labor-saving device
- Pneumatic jig and tool
- Air chuck
- Air vice
- Precision part cleaning air blow

◆ M type



Oil less air
(Secondary oil content 0.01 mg/m³ or less)

- Instrumentation
- Measurement
- Logic control
- Movable element/pure fluid element
- Luxury painting
- Precision industry

◆ X type



Odorless air
(Secondary oil content 0.003 mg/m³ or less)

- Food industry
- Medical products industry
- Mixing
- Transportation
- Drying
- Package
- Brewing air

◆ MX type



Super oil free air
(Secondary oil content 0.001 mg/m³ or less)

- Optical positioning device
- Laser finishing machine

Note: The secondary oil content is the value when the primary oil content is 30 mg/m³, the inlet air temperature is 21°C.

Option code of mantle and shape

	Option Code	Appearance
M*000	Blank (M type)	End plate Black Plastic foam
	S (S type)	End plate Green Plastic foam
	X (X type)	End plate Black Punching metal
MX*000		Black End plate Green Plastic foam

Note: Changes for product upgrades may be made without prior notice.
When placing an order, confirm the option code for the part model No. given here.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R.(module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

Super Oil Mist Filter Series

How to order



A Model No.		
MX3000	MX4000	MX6000

Code	Content	MX3000	MX4000	MX6000
B Port size				
8	Rc1/4	●	●	
10	Rc3/8	●	●	
15	Rc1/2		●	
20	Rc3/4			●
25	Rc1			●

		*1	*2	MX3000	MX4000	MX6000
C Option						
Bowl	Blank	PC bowl: without drain discharge		●	●	●
	C6	PC bowl: drain discharge Rc1/8		●	●	●
	M6	Metal bowl: drain discharge Rc1/8		●	●	●
Differential pressure detection	Blank	Without differential pressure detection port		●	●	●
	Q	With differential pressure detection port (Rc1/4)				●
Flow direction	Blank	Standard flow (left → right)		●	●	●
	X1	Reverse flow (right → left)		●	●	●

		Structure/treatment	Material restriction	MX3000	MX4000	MX6000
D Clean room specifications						
P70	Dust generation preventing		-	●	●	●
P74	Dust generation preventing		Copper-based/silicon-based/halogen-based materials (fluorine, chlorine, bromine) are prohibited	●	●	●

		*3	*4	MX3000	MX4000	MX6000
E Other attachments						
Blank	Without attachment			●	●	●
A8	Rc1/4 piping adaptor set			●	●	
A10	Rc3/8 piping adaptor set			●	●	
A15	Rc1/2 piping adaptor set			●	●	
A20	Rc3/4 piping adaptor set				●	●
A25	Rc1 piping adaptor set					●
A32	Rc1 1/4 piping adaptor set					●
B	C bracket			●	●	●

⚠ Precautions for model No. selection

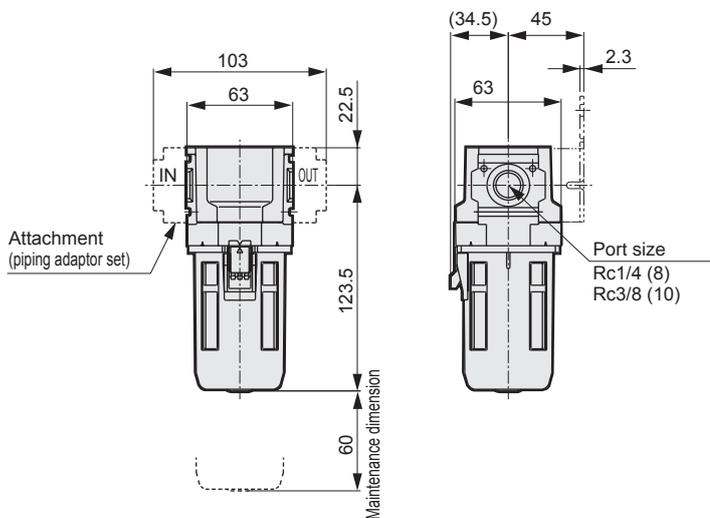
- *1: Select options per drainage, bowl material, element, and differential pressure detection sections. When selecting options for several items, list options in order from the top.
- *2: One pipe plug is attached for options "C6" and "M6".
- *3: Piping adaptor set A *00-*P70 (page 804) is attached.
- *4: Refer to pages 804 to 806 for adaptor. The piping adaptor set and C bracket cannot be used at the same time.
- *5: "P74" is custom order.

D Clean room specifications
Note 5

E Other attachments

Dimensions

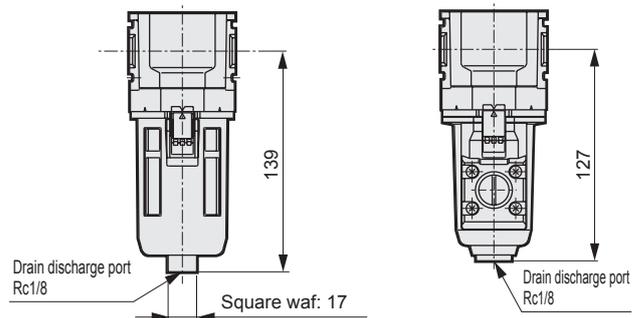
● MX3000-P70/P74



[Optional dimensions]

● PC bowl drain discharge Rc1/8 (C6)

● Metal bowl (M6)

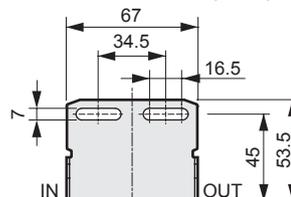


Note: Mount with fixing on square waf, when pipe for drain discharge.

[C bracket dimensions]

● Part model No.: B320-P70

• Material: steel, nickel plate processing



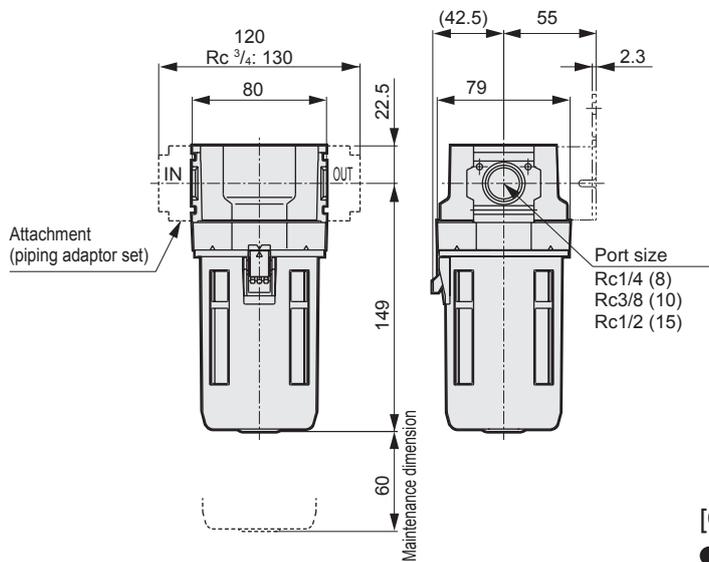
Note : C bracket and piping adaptor set attachments cannot be used at the same time.

Super Oil Mist Filter series

Dimensions

Dimensions

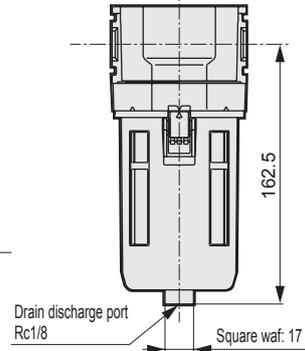
● MX4000-P70/P74



Note : C bracket and piping adaptor set attachments cannot be used at the same time.

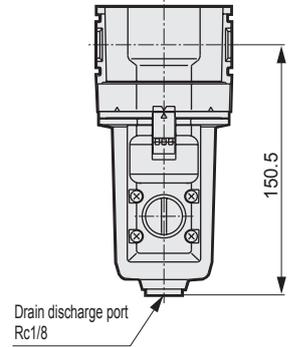
[Optional dimensions]

● PC bowl drain discharge Rc1/8 (C6)



Note: Mount with fixing on square waf, when pipe for drain discharge.

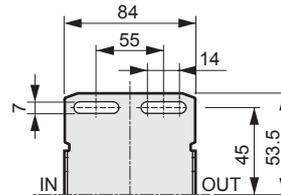
● Metal bowl (M6)



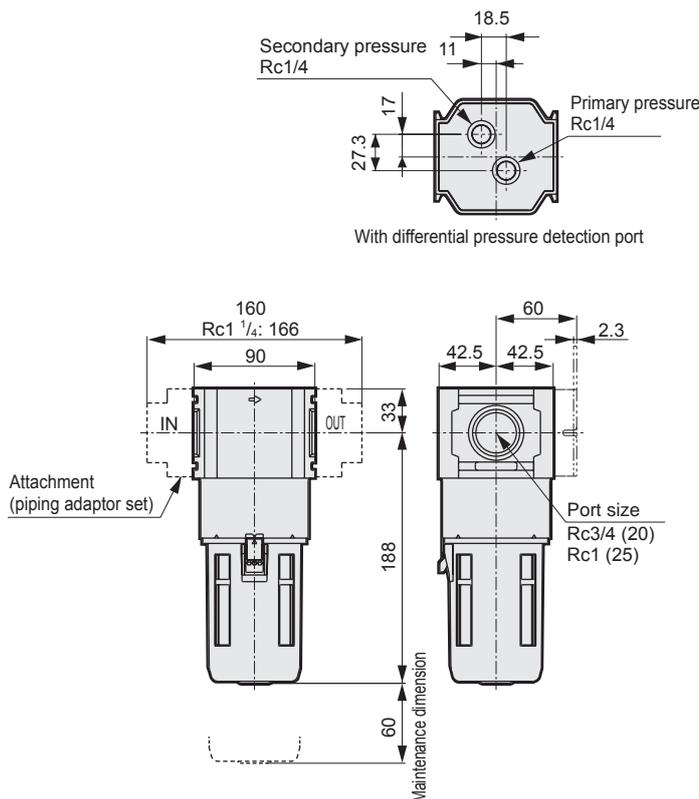
[C bracket dimensions]

● Part model No.: B420-P70

Material: steel, nickel plate processing

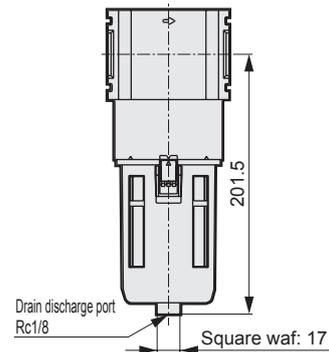


● MX6000-P70/P74



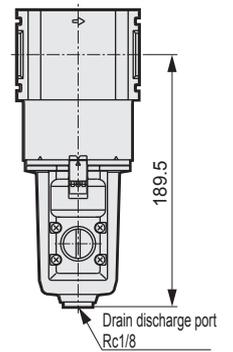
[Optional dimensions]

● PC bowl drain discharge Rc1/8 (C6)



Note: Mount with fixing on square waf, when pipe for drain discharge.

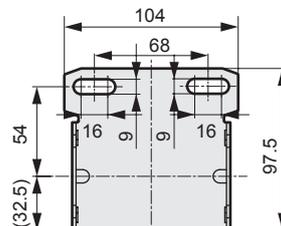
● Metal bowl (M6)



[C bracket dimensions]

● Part model No.: B620-P70

Material: steel, nickel plate processing



SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R.(module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending