



Main line filter

AF3000P Series

Appropriate for large pre-filter.

● Processing air flow rate: 16 to 256 m³/min (ANR)

JIS symbol



Specifications

Item	AF3016 P-50	AF3032 P-80	AF3048 P-100	AF3064 P-100	AF3080 P-150	AF3096 P-150	AF3128 P-150	AF3160 P-200	AF3192 P-200	AF3256 P-200
Processing air flow rate m ³ /min(ANR)	16	32	48	64	80	96	128	160	192	256
Working fluid	Compressed air									
Working pressure MPa	0.07 (≈10 psi, 0.7 bar) to 1.0 (≈150 psi, 10 bar)									
Proof pressure MPa	1.5 (≈220 psi, 15 bar)									
Ambient temperature °C	5 (41°F) to 60 (140°F)									
Filtration rating μm	3									
Pressure drop	Initial MPa	Within 0.005 (≈0.73 psi, 0.05 bar)								
	Normal MPa	0.005 (≈0.73 psi, 0.05 bar) to 0.02 (≈2.9 psi, 0.2 bar)								
	Element replacement MPa	0.07 (≈10 psi, 0.7 bar)								
Element quantity	1	2	3	4	5	6	8	10	12	16
Port size (*1) Flange	2B	3B	4B	4B	6B	6B	6B	8B	8B	8B
Weight kg	45	95	98	130	160	190	250	260	300	350
Differential pressure gauge	Standard (model No.: GA5102)									
Drain discharger	Standard (model No.: 5100-4C)									

*1: Flange is 10K flange.

*2: Processing air flow rate is the atmospheric pressure conversion value where the inlet pressure is 0.7 MPa and initial pressure drop is 0.005 MPa.

*3: ANR indicates conditions of 20°C atmospheric pressure and relative humidity 65%.

How to order



A Flow rate classification

Code	Description
A Flow rate classification	
016	16 m ³ /min(ANR)
032	32 m ³ /min(ANR)
048	48 m ³ /min(ANR)
064	64 m ³ /min(ANR)
080	80 m ³ /min(ANR)
096	96 m ³ /min(ANR)
128	128 m ³ /min(ANR)
160	160 m ³ /min(ANR)
192	192 m ³ /min(ANR)
256	256 m ³ /min(ANR)

B Bore size

Refer to the bore size/flow rate classification table on the left.

C Option

Blank	None
F	Specified color paint
H	English language specifications
K	Companion flange attached
L	Foundation bolt/nut attached (*2)
L1	SS base bolt/nut attached (*2)
O	Outdoor
X1	IN/OUT reverse direction (*1)
Y2	Product photo

Bore size/flow rate classification table

B Bore size		016	032	048	064	080	096	128	160	192	256
Flow rates											
50	Flange 2B	●									
80	Flange 3B		●								
100	Flange 4B			●	●						
150	Flange 6B					●	●	●			
200	Flange 8B								●	●	●

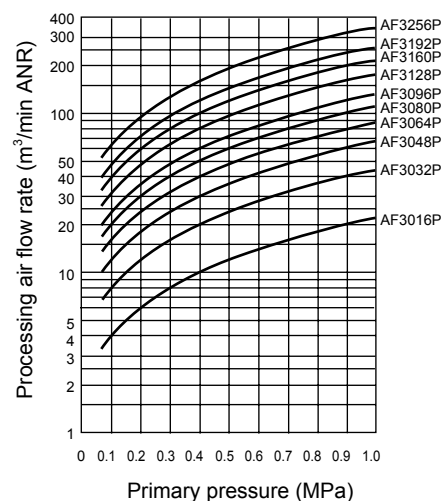
Precautions for model No. selection

*1: Viewed from the front, standard products have an air inlet on the left port and an air outlet on the right port. For "X1", air inlet is provided on the right port, while air outlet is provided on the left port.

*2: Available for AF3032P to AF3256P.

*3: When ordering several options, indicate the required options in alphabetical order.

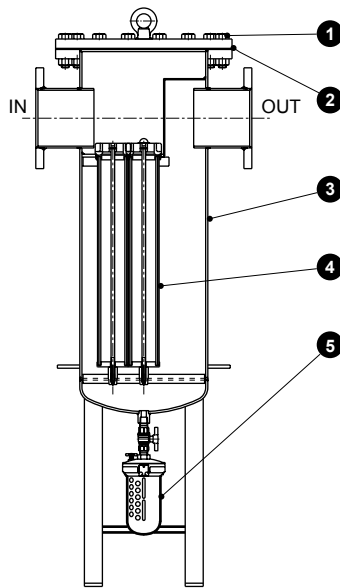
Flow characteristics



Note on selection

- Never use model numbers found to be below the point of intersection of the selection conditions.
- When the point of intersection found according to selecting conditions and flow characteristics curves are on the same line, the service life may be shortened, so select a model that is one size larger.
- Unit performance may not be attained if used at less than the selected pressure. Always select the model No. for the working pressure.

Internal structure and parts list



Parts list

* Repair parts

No.	Part name	Material
1	Upper flange	SS400
2	* Gasket	NBR
3	Body	SS400
4	* Element kit	PP, NBR, etc.
5	* Drain discharger	ZDC, PC, etc.

The drain discharger and stop valve are attached.

Repair parts model No.

Flow rates m ³ /min(ANR)	2 Gasket	4 Element kit	5 Drain discharger
16	AF3016P-GASKET	AF3016P-ELEMENT-KIT(1)	5100-4C
32	AF3032P-GASKET	AF3032P-ELEMENT-KIT(2)	
48	AF3048P-GASKET	AF3048P-ELEMENT-KIT(3)	
64	AF3064P-GASKET	AF3064P-ELEMENT-KIT(4)	
80	AF3080P-GASKET	AF3080P-ELEMENT-KIT(5)	
96	AF3096P-GASKET	AF3096P-ELEMENT-KIT(6)	
128	AF3128P-GASKET	AF3128P-ELEMENT-KIT(8)	
160	AF3160P-GASKET	AF3160P-ELEMENT-KIT(10)	
192	AF3192P-GASKET	AF3192P-ELEMENT-KIT(12)	
256	AF3256P-GASKET	AF3256P-ELEMENT-KIT(16)	

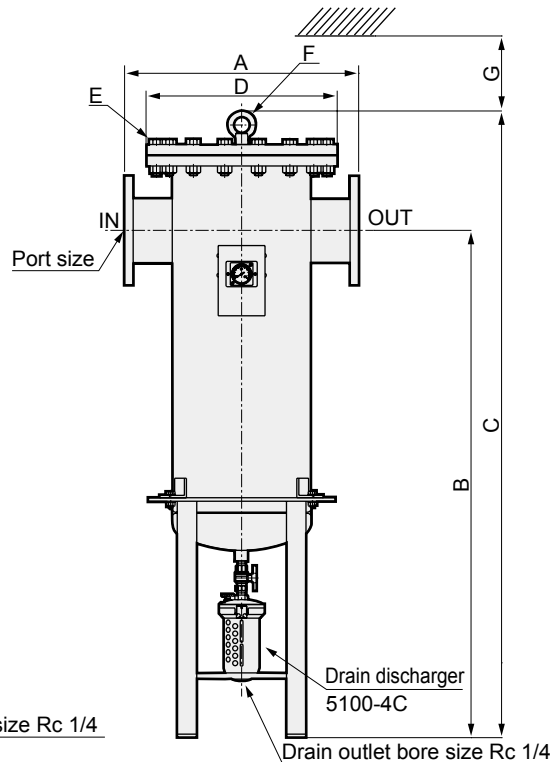
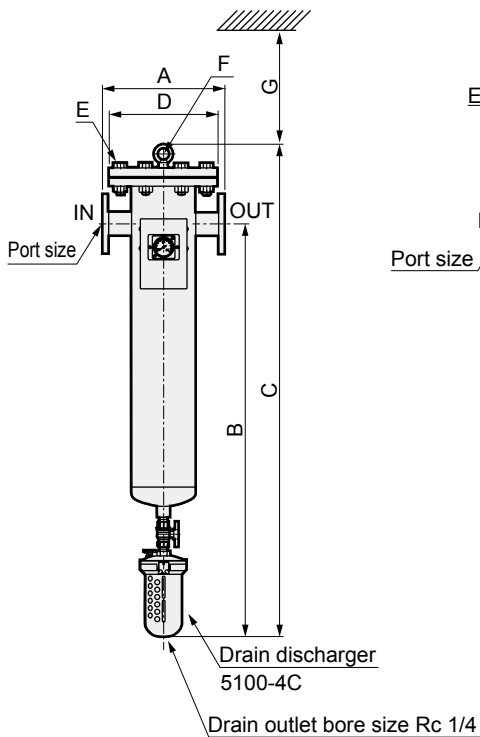
Element quantity is indicated in ().

Dimensions

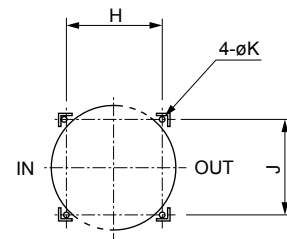


● AF3016P

● AF3032P to 3256P



● Installation legs foundation bolt hole dimension



Model No.	Port size	A	B	C	D	E	F	G
AF3016P-50	Flange 2B	315	1045	1250	280	8-M20×70	M12	600
AF3032P-80	Flange 3B	500	1255	1495	400	12-M22×80	M12	600
AF3048P-100	Flange 4B	500	1255	1495	400	12-M22×80	M12	600
AF3064P-100	Flange 4B	550	1270	1522	445	16-M22×80	M16	600
AF3080P-150	Flange 6B	600	1300	1606	490	16-M22×80	M20	600
AF3096P-150	Flange 6B	650	1320	1630	560	16-M24×90	M20	600
AF3128P-150	Flange 6B	700	1350	1693	620	20-M24×90	M20	600
AF3160P-200	Flange 8B	700	1350	1693	620	20-M24×90	M20	600
AF3192P-200	Flange 8B	750	1360	1709	675	20-M24×100	M20	600
AF3256P-200	Flange 8B	850	1400	1786	745	20-M30×110	M24	600

Model No.	H	J	K
AF3032P-80	210	210	ø15
AF3048P-100	210	210	ø15
AF3064P-100	250	250	ø15
AF3080P-150	280	280	ø15
AF3096P-150	320	320	ø15
AF3128P-150	350	350	ø15
AF3160P-200	350	350	ø15
AF3192P-200	400	400	ø15
AF3256P-200	450	450	ø15



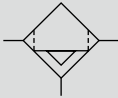
Micro alescerc

AF3000S Series

Protect expensive pneumatic components

● Flow rate range: 16 to 256 m³/min (ANR)

JIS symbol

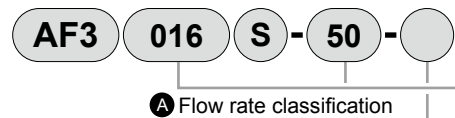


Specifications

Item	AF3016 S-50	AF3032 S-80	AF3048 S-100	AF3064 S-100	AF3080 S-150	AF3096 S-150	AF3128 S-150	AF3160 S-200	AF3192 S-200	AF3256 S-200
Processing air flow rate m ³ /min(ANR)	16	32	48	64	80	96	128	160	192	256
Working fluid	Compressed air									
Working pressure MPa	0.07 (≈10 psi, 0.7 bar) to 1.0 (≈150 psi, 10 bar)									
Proof pressure MPa	1.5 (≈220 psi, 15 bar)									
Ambient temperature °C	5 (41°F) to 60 (140°F)									
Filtration rating μm	0.3									
Secondary side oil concentration mg/m ³	1.0 (inlet air 30°C (86°F))									
Pressure drop	Initial MPa	Within 0.01 (≈1.5 psi, 0.1 bar)								
	Normal MPa	0.01 (≈1.5 psi, 0.1 bar) to 0.03 (≈4.4 psi, 0.3 bar)								
	Element replacement MPa	0.07 (≈10 psi, 0.7 bar)								
Element quantity	1	2	3	4	5	6	8	10	12	16
Port size (*1) Flange	2B	3B	4B	4B	6B	6B	6B	8B	8B	8B
Weight kg	45	95	98	130	160	190	250	260	300	350
Differential pressure gauge	Standard (model No.: GA5102)									
Drain discharger	Standard (model No.: 5100-4C)									

*1: Flange is 10K flange.
 *2: Processing air flow rate is the atmospheric pressure conversion value where the inlet pressure is 0.7 MPa and initial pressure drop is 0.01 MPa.
 *3: ANR indicates conditions of 20°C atmospheric pressure and relative humidity 65%.

How to order



A Flow rate classification

B Bore size

C Option

Bore size/flow rate classification table

B Bore size

Flow rates 016 032 048 064 080 096 128 160 192 256

50 Flange 2B

80 Flange 3B

100 Flange 4B

150 Flange 6B

200 Flange 8B

Code	Description
A Flow rate classification	
016	16 m ³ /min(ANR)
032	32 m ³ /min(ANR)
048	48 m ³ /min(ANR)
064	64 m ³ /min(ANR)
080	80 m ³ /min(ANR)
096	96 m ³ /min(ANR)
128	128 m ³ /min(ANR)
160	160 m ³ /min(ANR)
192	192 m ³ /min(ANR)
256	256 m ³ /min(ANR)

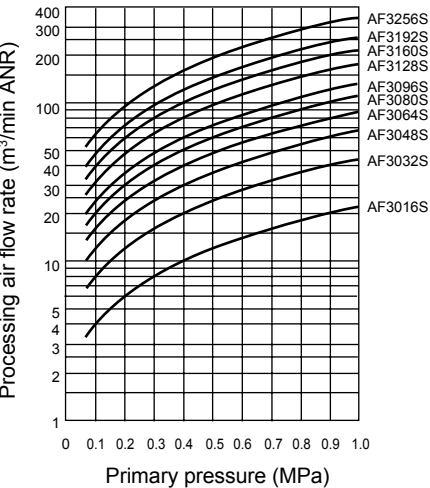
B Bore size	
Refer to the bore size/flow rate classification table on the left.	

C Option	
Blank	None
F	Specified color paint
H	English language specifications
K	Companion flange attached
L	Foundation bolt/nut attached (*2)
L1	SS base bolt/nut attached (*2)
O	Outdoor
X1	IN/OUT reverse direction (*1)
Y2	Product photo

Precautions for model No. selection

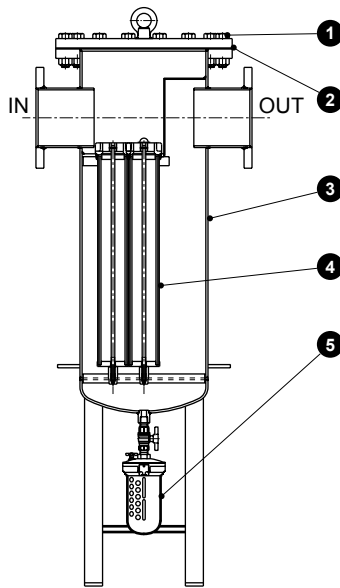
*1: Viewed from the front, standard products have an air inlet on the left port while an air outlet on the right port. For "X1", air inlet is provided on the right port, while air outlet is provided on the left port.
 *2: Available for AF3032S to AF3256S.

Flow characteristics



- Note on selection**
- Never use model numbers found to be below the point of intersection of the selection conditions.
 - When the point of intersection found according to selecting conditions and flow characteristics curves are on the same line, the service life may be shortened, so select a model that is one size larger.
 - The oil removing ratio drops if the inlet air temperature is 30°C or more. Maintain the inlet air temperature at 30°C or less.
 - Unit performance may not be attained if used at less than the selected pressure. Always select the model No. for the working pressure.

Internal structure and parts list



Parts list

* Repair parts

No.	Part name	Material
1	Upper flange	SS400
2	* Gasket	NBR
3	Body	SS400
4	* Element kit	Filter paper, NBR, etc.
5	* Drain discharger	ZDC, PC, etc.

The drain discharger and stop valve are attached.

Repair parts model No.

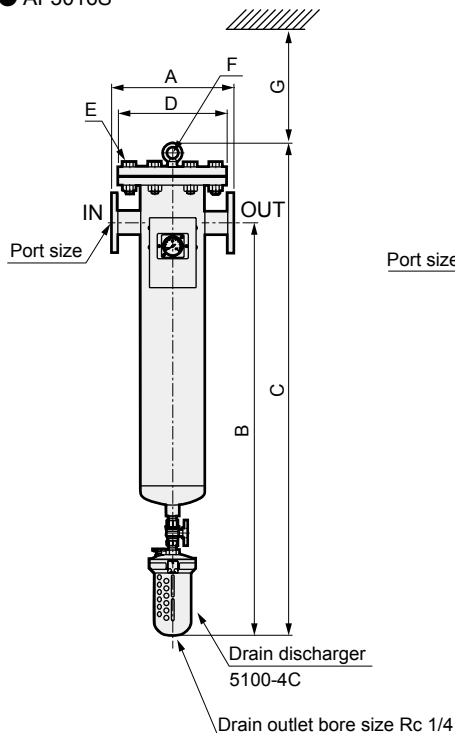
Flow rate class m ³ /min(ANR)	2 Gasket	4 Element kit	5 Drain discharger
16	AF3016P-GASKET	AF3016S-ELEMENT-KIT(1)	5100-4C
32	AF3032P-GASKET	AF3032S-ELEMENT-KIT(2)	
48	AF3048P-GASKET	AF3048S-ELEMENT-KIT(3)	
64	AF3064P-GASKET	AF3064S-ELEMENT-KIT(4)	
80	AF3080P-GASKET	AF3080S-ELEMENT-KIT(5)	
96	AF3096P-GASKET	AF3096S-ELEMENT-KIT(6)	
128	AF3128P-GASKET	AF3128S-ELEMENT-KIT(8)	
160	AF3160P-GASKET	AF3160S-ELEMENT-KIT(10)	
192	AF3192P-GASKET	AF3192S-ELEMENT-KIT(12)	
256	AF3256P-GASKET	AF3256S-ELEMENT-KIT(16)	

Element quantity is indicated in ().

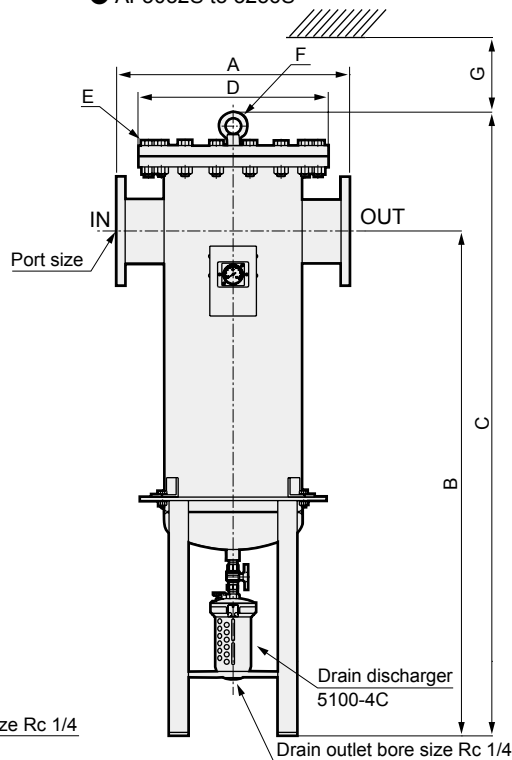
Dimensions



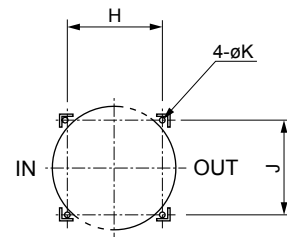
● AF3016S



● AF3032S to 3256S



● Installation legs foundation bolt hole dimension



Model No.	Port size	A	B	C	D	E	F	G
AF3016S-50	Flange 2B	315	1045	1250	280	8-M20×70	M12	600
AF3032S-80	Flange 3B	500	1255	1495	400	12-M22×80	M12	600
AF3048S-100	Flange 4B	500	1255	1495	400	12-M22×80	M12	600
AF3064S-100	Flange 4B	550	1270	1522	445	16-M22×80	M16	600
AF3080S-150	Flange 6B	600	1300	1606	490	16-M22×80	M20	600
AF3096S-150	Flange 6B	650	1320	1630	560	16-M24×90	M20	600
AF3128S-150	Flange 6B	700	1350	1693	620	20-M24×90	M20	600
AF3160S-200	Flange 8B	700	1350	1693	620	20-M24×90	M20	600
AF3192S-200	Flange 8B	750	1360	1709	675	20-M24×100	M20	600
AF3256S-200	Flange 8B	850	1400	1786	745	20-M30×110	M24	600

Model No.	H	J	K
AF3032S-80	210	210	ø15
AF3048S-100	210	210	ø15
AF3064S-100	250	250	ø15
AF3080S-150	280	280	ø15
AF3096S-150	320	320	ø15
AF3128S-150	350	350	ø15
AF3160S-200	350	350	ø15
AF3192S-200	400	400	ø15
AF3256S-200	450	450	ø15



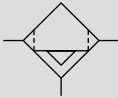
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AF3000M Series

For pneumatic pressure circuits which are susceptible to oil

● Flow rate range: 16 to 256 m³/min (ANR)

JIS symbol

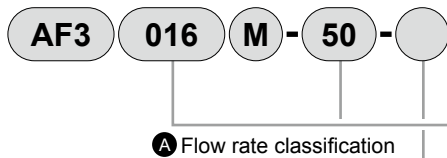


Specifications

Item	AF3016 M-50	AF3032 M-80	AF3048 M-100	AF3064 M-100	AF3080 M-150	AF3096 M-150	AF3128 M-150	AF3160 M-200	AF3192 M-200	AF3256 M-200
Processing air flow rate m³/min(ANR)	16	32	48	64	80	96	128	160	192	256
Working fluid	Compressed air									
Working pressure MPa	0.07 (≈10 psi, 0.7 bar) to 1.0 (≈150 psi, 10 bar)									
Proof pressure MPa	1.5 (≈220 psi, 15 bar)									
Ambient temperature °C	5 (41°F) to 60 (140°F)									
Filtration rating μm	0.01									
Secondary side oil concentration mg/m³	0.1 (inlet air 30°C (86°F))									
Pressure drop	Initial MPa	Within 0.01 (≈1.5 psi, 0.1 bar)								
	Normal MPa	0.02 (≈2.9 psi, 0.2 bar) to 0.04 (≈5.8 psi, 0.4 bar)								
	Element replacement MPa	0.07 (≈10 psi, 0.7 bar)								
Element quantity	1	2	3	4	5	6	8	10	12	16
Port size (*1) Flange	2B	3B	4B	4B	6B	6B	6B	8B	8B	8B
Weight kg	45	95	98	130	160	190	250	260	300	350
Differential pressure gauge	Standard (model No.: GA5102)									
Drain discharger	Standard (model No.: 5100-4C)									

*1: Flange is 10K flange.
 *2: Processing air flow rate is the atmospheric pressure conversion value where the inlet pressure is 0.7 MPa and initial pressure drop is 0.01 MPa.
 *3: ANR indicates conditions of 20°C atmospheric pressure and relative humidity 65%.

How to order



A Flow rate classification

Code	Description
A Flow rate classification	
016	16 m³/min(ANR)
032	32 m³/min(ANR)
048	48 m³/min(ANR)
064	64 m³/min(ANR)
080	80 m³/min(ANR)
096	96 m³/min(ANR)
128	128 m³/min(ANR)
160	160 m³/min(ANR)
192	192 m³/min(ANR)
256	256 m³/min(ANR)

B Bore size	
Refer to the bore size/flow rate classification table on the left.	

C Option	
Blank	None
F	Specified color paint
H	English language specifications
K	Companion flange attached
L	Foundation bolt/nut attached (*2)
L1	Stainless steel base bolt/nut incl (*2)
O	Outdoor
X1	IN/OUT reverse direction (*1)
Y2	Product photo

Bore size/flow rate classification table

B Bore size		016	032	048	064	080	096	128	160	192	256
50	Flange 2B	●									
80	Flange 3B		●								
100	Flange 4B			●	●						
150	Flange 6B					●	●	●			
200	Flange 8B								●	●	●

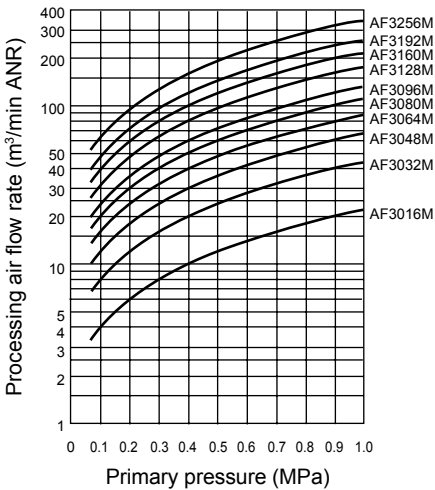
B Bore size

C Option
*3

Precautions for model No. selection

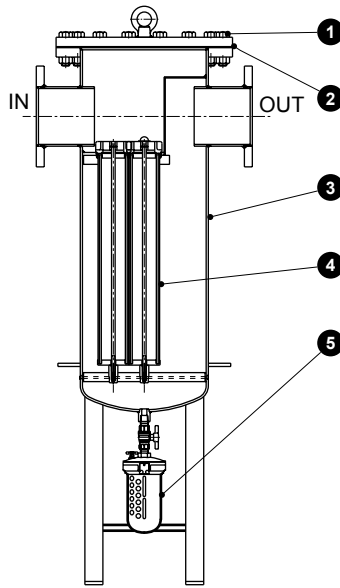
*1: Viewed from the front, standard products have an air inlet on the left port and an air outlet on the right port. For "X1", air inlet is provided on the right port, while air outlet is provided on the left port.
 *2: Available for AF3032M to AF3256M.
 *3: When ordering several options, indicate the required options in alphabetical order.

Flow characteristics



- Note on selection**
- Never use model numbers found to be below the point of intersection of the selection conditions.
 - When the point of intersection found according to selecting conditions and flow characteristics curves are on the same line, the service life may be shortened, so select a model that is one size larger.
 - The oil removing ratio drops if the inlet air temperature is 30°C or more. Maintain the inlet air temperature at 30°C or less.
 - Unit performance may not be attained if used at less than the selected pressure. Always select the model No. for the working pressure.

Internal structure and parts list



Parts list

* Repair parts

No.	Part name	Material
1	Upper flange	SS400
2	* Gasket	NBR
3	Body	SS400
4	* Element kit	Filter paper, NBR, etc.
5	* Drain discharger	ZDC, PC, etc.

The drain discharger and stop valve are attached.

Repair parts model No.

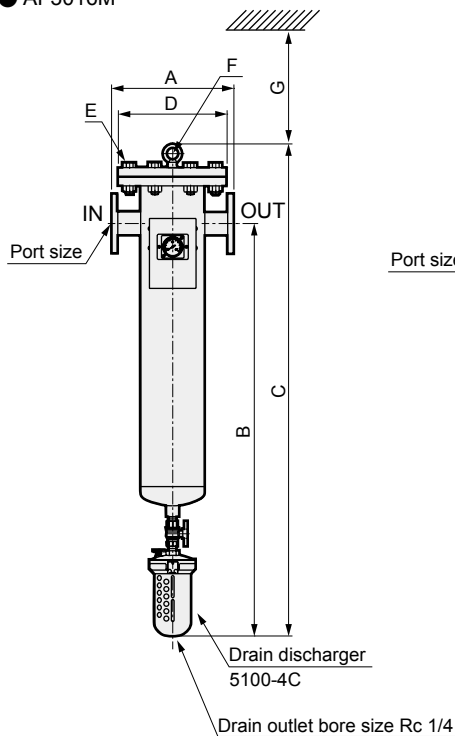
Flow rates m³/min (ANR)	② Gasket	④ Element kit	⑤ Drain discharger
16	AF3016P-GASKET	AF3016M-ELEMENT-KIT(1)	5100-4C
32	AF3032P-GASKET	AF3032M-ELEMENT-KIT(2)	
48	AF3048P-GASKET	AF3048M-ELEMENT-KIT(3)	
64	AF3064P-GASKET	AF3064M-ELEMENT-KIT(4)	
80	AF3080P-GASKET	AF3080M-ELEMENT-KIT(5)	
96	AF3096P-GASKET	AF3096M-ELEMENT-KIT(6)	
128	AF3128P-GASKET	AF3128M-ELEMENT-KIT(8)	
160	AF3160P-GASKET	AF3160M-ELEMENT-KIT(10)	
192	AF3192P-GASKET	AF3192M-ELEMENT-KIT(12)	
256	AF3256P-GASKET	AF3256M-ELEMENT-KIT(16)	

Element quantity is indicated in ().

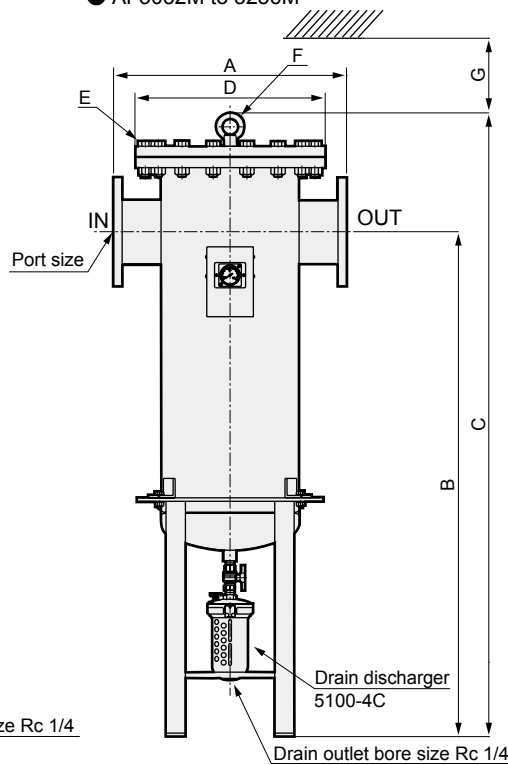
Dimensions



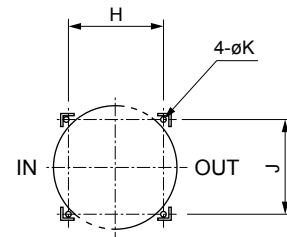
● AF3016M



● AF3032M to 3256M



● Installation legs foundation bolt hole dimension



Model No.	Port size	A	B	C	D	E	F	G
AF3016M-50	Flange 2B	315	1045	1250	280	8-M20×70	M12	600
AF3032M-80	Flange 3B	500	1255	1495	400	12-M22×80	M12	600
AF3048M-100	Flange 4B	500	1255	1495	400	12-M22×80	M12	600
AF3064M-100	Flange 4B	550	1270	1522	445	16-M22×80	M16	600
AF3080M-150	Flange 6B	600	1300	1606	490	16-M22×80	M20	600
AF3096M-150	Flange 6B	650	1320	1630	560	16-M24×90	M20	600
AF3128M-150	Flange 6B	700	1350	1693	620	20-M24×90	M20	600
AF3160M-200	Flange 8B	700	1350	1693	620	20-M24×90	M20	600
AF3192M-200	Flange 8B	750	1360	1709	675	20-M24×100	M20	600
AF3256M-200	Flange 8B	850	1400	1786	745	20-M30×110	M24	600

Model No.	H	J	K
AF3032M-80	210	210	ø15
AF3048M-100	210	210	ø15
AF3064M-100	250	250	ø15
AF3080M-150	280	280	ø15
AF3096M-150	320	320	ø15
AF3128M-150	350	350	ø15
AF3160M-200	350	350	ø15
AF3192M-200	400	400	ø15
AF3256M-200	450	450	ø15



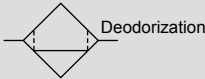
Micro alescer

AF3000X Series

For pneumatic pressure circuits which are susceptible to odors

● Flow rate range: 16 to 256 m³/min (ANR)

JIS symbol

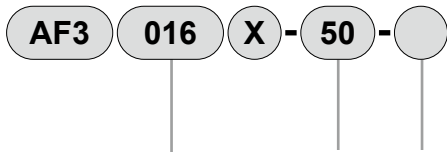


Specifications

Item	AF3016 X-50	AF3032 X-80	AF3048 X-100	AF3064 X-100	AF3080 X-150	AF3096 X-150	AF3128 X-150	AF3160 X-200	AF3192 X-200	AF3256 X-200
Processing air flow rate m³/min(ANR)	16	32	48	64	80	96	128	160	192	256
Working fluid	Compressed air									
Working pressure MPa	0.07 (≈10 psi, 0.7 bar) to 1.0 (≈150 psi, 10 bar)									
Proof pressure MPa	1.5 (≈220 psi, 15 bar)									
Ambient temperature °C	5 (41°F) to 30 (86°F)									
Filtration method	Suction by activated carbon									
Secondary side oil concentration mg/m³	0.03 (inlet air 30°C (86°F))									
Pressure drop MPa	Within 0.01 (≈1.5 psi, 0.1 bar)									
Element quantity	1	2	3	4	5	6	8	10	12	16
Port size (*1) Flange	2B	3B	4B	4B	6B	6B	6B	8B	8B	8B
Weight kg	45	95	98	130	160	190	250	260	300	350
Differential pressure gauge	Standard (model No.: GA5102)									
Drain discharger	None									

*1: Flange is 10K flange.
 *2: Processing air flow rate is the atmospheric pressure conversion value where the inlet pressure is 0.7 MPa and initial pressure drop is 0.01 MPa.
 *3: ANR indicates conditions of 20°C atmospheric pressure and relative humidity 65%.

How to order



Bore size/flow rate classification table

B Bore size		016	032	048	064	080	096	128	160	192	256
Flow rates											
50 Flange 2B	●										
80 Flange 3B		●									
100 Flange 4B			●	●							
150 Flange 6B					●	●	●				
200 Flange 8B								●	●	●	

Code	Description
A Flow rate classification	
016	16 m³/min(ANR)
032	32 m³/min(ANR)
048	48 m³/min(ANR)
064	64 m³/min(ANR)
080	80 m³/min(ANR)
096	96 m³/min(ANR)
128	128 m³/min(ANR)
160	160 m³/min(ANR)
192	192 m³/min(ANR)
256	256 m³/min(ANR)
B Bore size	
Refer to the bore size/flow rate classification table on the left.	
C Option	
Blank	None
F	Specified color paint
H	English language specifications
K	Companion flange attached
L	Foundation bolt/nut attached (*2)
L1	SS base bolt/nut attached (*2)
O	Outdoor
X1	IN/OUT reverse direction (*1)
Y2	Product photo

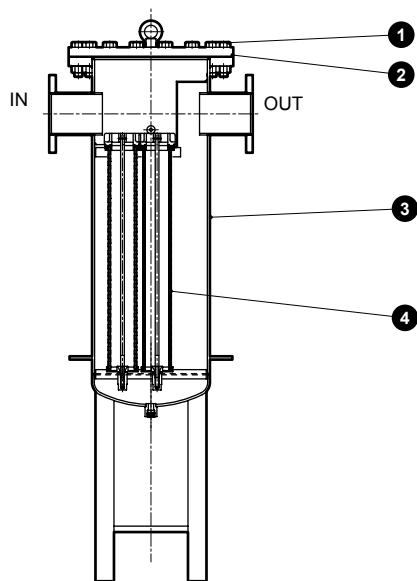
Flow characteristics

Flow characteristics are the same as AF3000M on page 1874.
 Be sure to use the AF3000M as a pre-filter.

Precautions for model No. selection

*1: Viewed from the front, standard products have an air inlet on the left port and an air outlet on the right port. For "X1", air inlet is provided on the right port, while air outlet is provided on the left port.
 *2: Available for AF3032X to AF3256X.
 *3: Unit performance may not be attained if used at less than the selected pressure. Always select the model No. for the working pressure.

Internal structure and parts list



Parts list

* Repair parts

No.	Part name	Material
1	Upper flange	SS400
2	* Gasket	NBR
3	Body	SS400
4	* Element kit	Activated carbon, NBR, etc.

Repair parts model No.

Flow rates m ³ /min (ANR)	2 Gasket	4 Element kit
16	AF3016P-GASKET	AF3016X-ELEMENT-KIT(1)
32	AF3032P-GASKET	AF3032X-ELEMENT-KIT(2)
48	AF3048P-GASKET	AF3048X-ELEMENT-KIT(3)
64	AF3064P-GASKET	AF3064X-ELEMENT-KIT(4)
80	AF3080P-GASKET	AF3080X-ELEMENT-KIT(5)
96	AF3096P-GASKET	AF3096X-ELEMENT-KIT(6)
128	AF3128P-GASKET	AF3128X-ELEMENT-KIT(8)
160	AF3160P-GASKET	AF3160X-ELEMENT-KIT(10)
192	AF3192P-GASKET	AF3192X-ELEMENT-KIT(12)
256	AF3256P-GASKET	AF3256X-ELEMENT-KIT(16)

Element quantity is indicated in ().

Dimensions

Dimensions are the same as the AF3000M on page 1875. However, the drain discharger and stop valve are not included.

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain
Separ
Mech
Press SW
Res press
exh valve
SlowStart
Anti-bac/Bac-
remove Filtr
Film
Resist FR
Oil-ProhR
Med
Press FR
No Cu/
PTFE FRL
Outdrs FRL
Adapter
Joiner
Press
Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/
other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro
Press SW
ContactSW
AirSens
PresSW
Cool
Air Flo
Sens/Ctrl
WaterRISens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
Gas
generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending