



Main line filter

# AF3000 Series Outdoors

## Specifications

Item	AF3016 □-50	AF3032 □-80	AF3048 □-100	AF3064 □-100	AF3080 □-150	AF3096 □-150	AF3128 □-150	AF3160 □-200	AF3192 □-200	AF3256 □-200
Processing air flow rate (*2, *3) m <sup>3</sup> /min (ANR)	16	32	48	64	80	96	128	160	192	256
Working fluid	Compressed air									
Working pressure MPa	0.07 to 1.0									
Proof pressure MPa	1.5									
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

□ indicates series name.

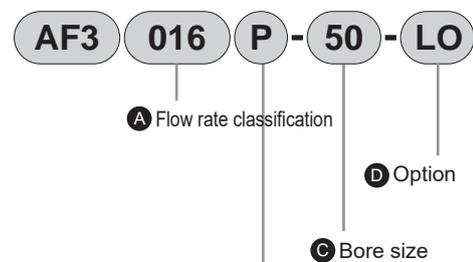
Item	P type	S type	M type	X type
Ambient temperature	5 to 60			5 to 30
Filtration rating μm	3	0.3	0.01	Suction by activated carbon
Secondary side oil concentration mg/m <sup>3</sup>	-	1.0 (inlet air 30°C)	0.1 (inlet air 30°C)	0.03 (inlet air 30°C)
Pressure drop	Initial MPa	Within 0.005	Within 0.01	Within 0.01
	Normal MPa	0.005 to 0.02	0.01 to 0.03	0.02 to 0.04
	Element replacement MPa	0.07	0.07	0.07
Differential pressure gauge	Standard (model No.: GA5102-S11)			
Drain discharger	Standard (model No.: 5100-4C-MG)			No

\*1: Flange is 10K flange.

\*2: Processing air flow rate is the atmospheric pressure conversion value where the inlet pressure is 0.7MPa.

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

## How to order



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

<b>B Element</b>	
P	P Series (pre-filter)
S	S Series (oil removing filter)
M	M Series (high-performance oil removing filter)
X	X Series (activated carbon filter)

<b>C Bore size</b>	
Refer to the bore size/flow rate classification table on the left.	

<b>D Option</b>	
Blank	None
H	English language specifications
K	Companion flange included
L	Foundation bolt/nut included (*2)
L1	Stainless steel foundation bolt/nut included (*2)
O	Outdoors
X1	IN/OUT reverse direction (*1)
Y2	Product photo

Bore size/flow rate classification table

<b>C Bore size</b>		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								●	●	●

## Precautions for model No. selection

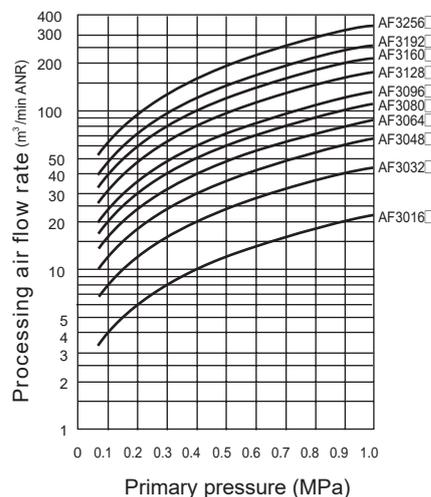
\*1: Viewed from the front, standard products have an air inlet on the left port and an air outlet on the right port. "For" "X1", an air inlet is provided on the right port, with an air outlet provided on the left port.

\*2: Available for AF3032□ to AF3256□.

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

\*4: Made to order. Contact CKD for details.

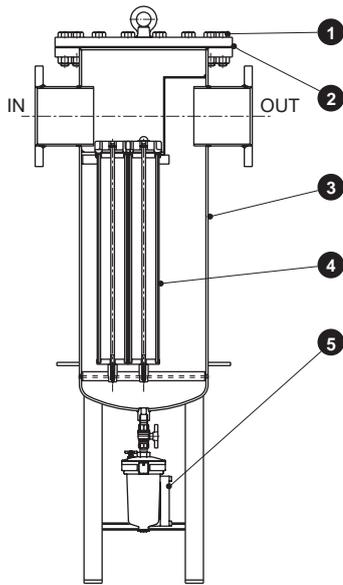
## Flow characteristics



### 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

\* Consumable 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 included.

#### Consumable parts model No.

Flow rate class m <sup>3</sup> /min (ANR)	2 Gasket	4 Element kit	5 Drain discharger
16	AF3016P-GASKET	AF3016 □-ELEMENT-KIT	5100-4C -MG
32	AF3032P-GASKET	AF3032 □-ELEMENT-KIT	
48	AF3048P-GASKET	AF3048 □-ELEMENT-KIT	
64	AF3064P-GASKET	AF3064 □-ELEMENT-KIT	
80	AF3080P-GASKET	AF3080 □-ELEMENT-KIT	
96	AF3096P-GASKET	AF3096 □-ELEMENT-KIT	
128	AF3128P-GASKET	AF3128 □-ELEMENT-KIT	
160	AF3160P-GASKET	AF3160 □-ELEMENT-KIT	
192	AF3192P-GASKET	AF3192 □-ELEMENT-KIT	
256	AF3256P-GASKET	AF3256 □-ELEMENT-KIT	

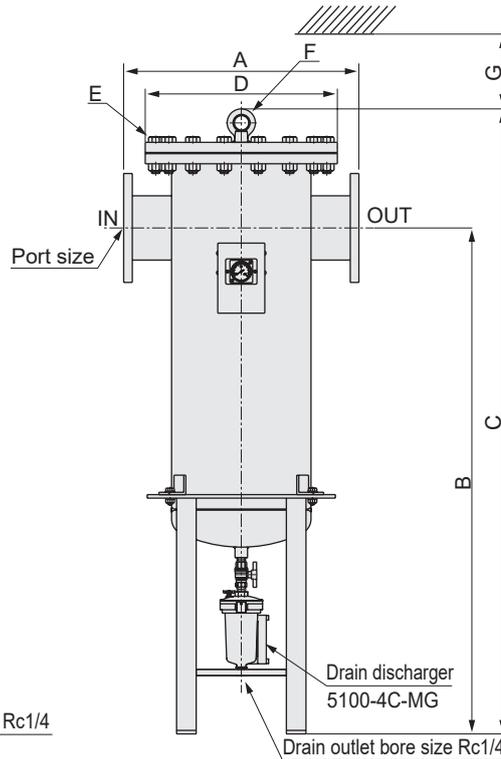
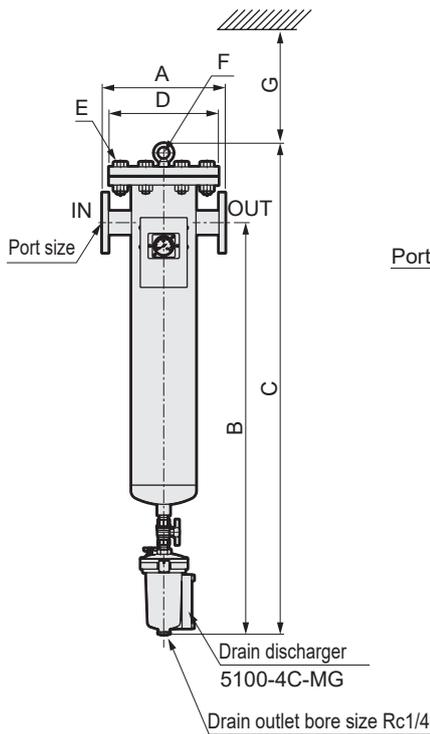
Element quantity is indicated in ( ). □ indicates series name.

### Dimensions

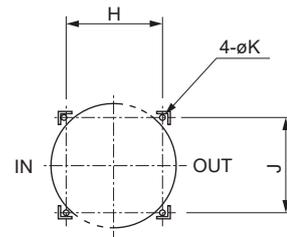


● AF3016□

● AF3032□ to 3256□



● Installation legs foundation bolt hole dimension



The drain discharger and stop valve cannot be mounted on the X Series.

Model No.	Port size	A	B	C	D	E	F	G
AF3016 □-50	Flange 2B	315	1045	1250	280	8-M20×70	M12	600
AF3032 □-80	Flange 3B	500	1255	1495	400	12-M22×80	M12	600
AF3048 □-100	Flange 4B	500	1255	1495	400	12-M22×80	M12	600
AF3064 □-100	Flange 4B	550	1270	1522	445	16-M22×80	M16	600
AF3080 □-150	Flange 6B	600	1300	1606	490	16-M22×80	M20	600
AF3096 □-150	Flange 6B	650	1320	1630	560	16-M24×90	M20	600
AF3128 □-150	Flange 6B	700	1350	1693	620	20-M24×90	M20	600
AF3160 □-200	Flange 8B	700	1350	1693	620	20-M24×90	M20	600
AF3192 □-200	Flange 8B	750	1360	1709	675	20-M24×100	M20	600
AF3256 □-200	Flange 8B	850	1400	1786	745	20-M30×110	M24	600

□ indicates series name.

Model No.	H	J	K
AF3032 □-80	210	210	ø15
AF3048 □-100	210	210	ø15
AF3064 □-100	250	250	ø15
AF3080 □-150	280	280	ø15
AF3096 □-150	320	320	ø15
AF3128 □-150	350	350	ø15
AF3160 □-200	350	350	ø15
AF3192 □-200	400	400	ø15
AF3256 □-200	450	450	ø15