



Main line filter

AF5000 Series

Outdoors

Specifications

Item	AF5016 □ -50	AF5032 □ -80	AF5048 □ -100	AF5064 □ -100	AF5080 □ -150	AF5096 □ -150	AF5128 □ -150	AF5160 □ -200	AF5192 □ -200	AF5256 □ -200
Processing air flow rate (*2, *3) m ³ /min (ANR)	16	32	48	64	80	96	128	160	192	256
Working fluid	Compressed air									
Working pressure MPa	0.08 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.

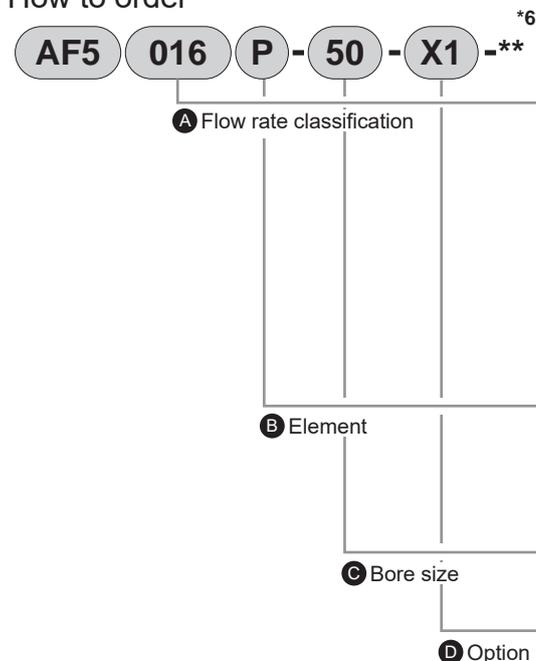
Item	P type	S type	M type	X type
Ambient temperature	5 to 60			5 to 30
Filtration rating μm	3	0.3	0.01	Suction by activated carbon
Secondary side oil concentration mg/m ³	-	0.5 (inlet air 21°C)	0.01 (inlet air 21°C)	0.003 (inlet air 21°C)
Pressure drop	Initial MPa	Within 0.005	Within 0.007	Within 0.01
	Normal MPa	0.01	0.014	0.02
	Element replacement MPa	0.035	0.035	0.035
Differential pressure gauge	Standard (model No.: GA5102-S11)			No
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
A Flow rate classification	
016	16m ³ /min (ANR)
032	32m ³ /min (ANR)
048	48m ³ /min (ANR)
064	64m ³ /min (ANR)
080	80m ³ /min (ANR)
096	96m ³ /min (ANR)
128	128m ³ /min (ANR)
160	160m ³ /min (ANR)
192	192m ³ /min (ANR)
256	256m ³ /min (ANR)

B Element	
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)

C Bore size	
Refer to the bore size/flow rate classification table to the lower left.	

D Option	
Blank	Standard product
E	Without drain discharger
K	Companion flange included
H	English language specifications
H2	Stainless steel nameplate
L	Foundation bolt/Nut attached (SS400) (*1)
L1	Foundation bolt/Nut attached (SUS304) (*1)
X1	IN/OUT reverse direction(*2)
Y2	Product photo

Flow rate compensation coefficient

Pressure (MPa)	Compensation coefficient
0.1	0.38
0.2	0.53
0.3	0.65
0.4	0.76
0.5	0.85
0.6	0.93
0.7	1.0
0.8	1.07
0.9	1.13
1.0	1.2

If working pressure is other than 0.7 MPa, multiply processing air flow rate by the above coefficient.

⚠ Precautions for model No. selection

*1: "L" "L1" corresponds to AF5032 □ to AF5256 □.

*2: 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, while an air outlet is provided on the left port.

*3: Unit performance may not be attained if used at less than the selected pressure. Always select the model No. for the working pressure.

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

*5: Made-to-order product. Contact CKD Sales for details.

*6: Contact CKD for model Nos.

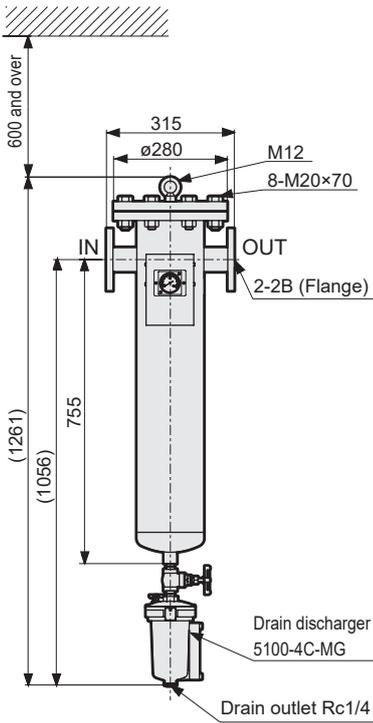
Bore size/flow rate classification table

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

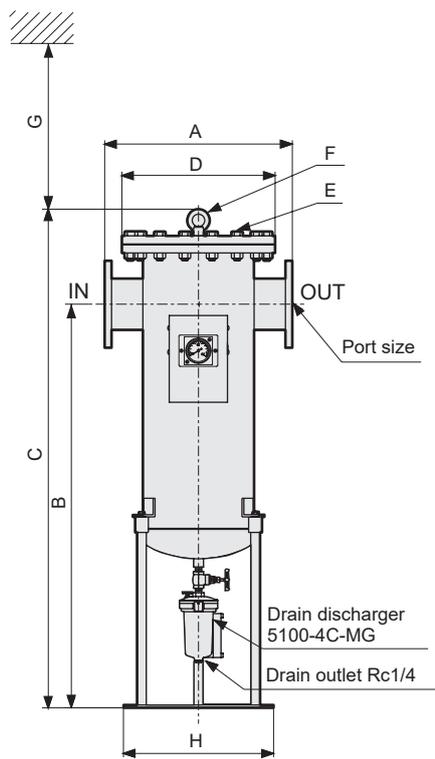
Dimensions



● AF5016□

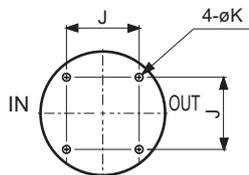


● AF5032□ to AF5256□



The X type does not have a differential pressure gauge.

● Foundation bolt hole dimension

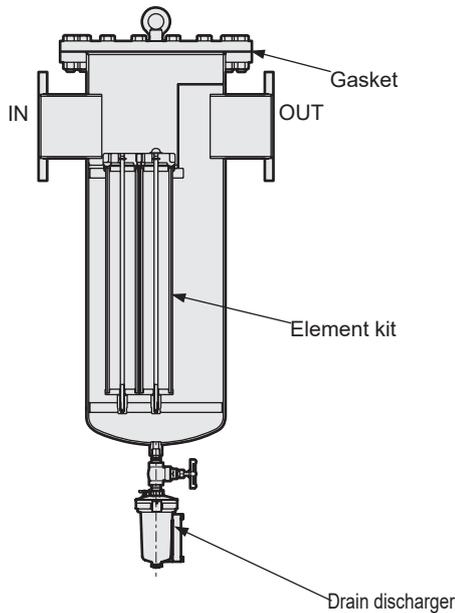


Model No.	Port size	A	B	C	D	E	F	G	H	J	K
AF5032 □-80	Flange 3B	500	1255	1495	ø400	12-M22×80	M12	600	ø380	210	ø15
AF5048 □-100	Flange 4B	500	1255	1495	ø400	12-M22×80	M12	600	ø380	210	ø15
AF5064 □-100	Flange 4B	550	1270	1522	ø445	16-M22×80	M16	600	ø440	250	ø15
AF5080 □-150	Flange 6B	600	1300	1606	ø490	16-M22×80	M20	600	ø480	280	ø15
AF5096 □-150	Flange 6B	650	1320	1630	ø560	16-M24×90	M20	600	ø540	320	ø15
AF5128 □-150	Flange 6B	700	1350	1693	ø620	20-M24×90	M20	600	ø610	350	ø15
AF5160 □-200	Flange 8B	700	1350	1693	ø620	20-M24×90	M20	600	ø610	350	ø15
AF5192 □-200	Flange 8B	750	1360	1709	ø675	20-M24×100	M20	600	ø670	400	ø15
AF5256 □-200	Flange 8B	850	1400	1786	ø745	20-M30×110	M24	600	ø730	450	ø15

□ indicates series name.

Drain separator
F.R.L. unit
Pneumatic auxiliary
components
Pneumatic
valves
Fluid control
valves
Pneumatic
cylinders
Related
products
Safety
precautions

Consumable parts list



● Ordering method

Flow rate classification m ³ /min (ANR)	Gasket	Element kit	Drain discharger
16	AF5016P-GASKET	AF5016 □-ELEMENT-KIT	5100-4C-MG
32	AF5032P-GASKET	AF5032 □-ELEMENT-KIT	
48	AF5048P-GASKET	AF5048 □-ELEMENT-KIT	
64	AF5064P-GASKET	AF5064 □-ELEMENT-KIT	
80	AF5080P-GASKET	AF5080 □-ELEMENT-KIT	
96	AF5096P-GASKET	AF5096 □-ELEMENT-KIT	
128	AF5128P-GASKET	AF5128 □-ELEMENT-KIT	
160	AF5160P-GASKET	AF5160 □-ELEMENT-KIT	
192	AF5192P-GASKET	AF5192 □-ELEMENT-KIT	
256	AF5256P-GASKET	AF5256 □-ELEMENT-KIT	

□ indicates series name. The drain discharger and differential pressure gauge are not included on the X type.

Made-to-order product

Xeroaqua GX5255D, GX5275D and GT9000(D) Series

- Stainless steel heat exchanger compatible with oil-free air
- IP03-equivalent weather resistance
- Compatible with high temperature environments (ambient temperature 48°C) (GX5255D, GX5275D, GT9075D to GT9190D)
- Energy-saving operation with 50% decreased power by limiting the number of refrigerant systems (GT9300(W) to GT9450(W))
- Energy-saving operation with 60% decreased power through inverter control (GT9710WV2, GT9960WV2)
- Easy maintenance
- Universal installation in any area
- Contact CKD for model No.

