

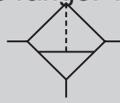
Main line filter

AF5000P Series

For air dryer pre-filter

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

JIS symbol



P4
Series

Specifications

Model No.	AF5016P-50	AF5032P-80	AF5048P-100	AF5064P-100	AF5080P-150	AF5096P-150	AF5128P-150	AF5160P-200	AF5192P-200	AF5256P-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									
Ambient temperature °C	5 to 60									
Degree of filtration μm	3									
Pressure drop	Initial MPa		Within 0.005							
	Normal MPa		0.01							
	Element replacement MPa		0.035							
Element quantity	1	2	3	4	5	6	8	10	12	16
Port size (*1) flange	2 B	3B	4B	4B	6B	6B	6B	8B	8B	8B
Weight kg	38	76	78	107	140	167	223	232	269	330
Differential pressure gauge	Contact CKD for details.									
Drain discharger	No									

*1: Flange is a 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%.

Flow rate compensation coefficient

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

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

Pneumatic actuator
Pneumatic cylinders
Hand/Chuck
Related products
Cylinder Switch

Vacuum components
Pneumatic valves

Clean air components
Speed controller
Fitting
Auxiliary valve
Pneumatic auxiliary components
Silencer
Tube

Gas generator
Fluid control components

Electric actuator
Motor
Motorless specifications

AF5000P Series

P4 Series

Compatibility table by variation

AF5000	
Port size	Flange 2B, 3B, 4B, 6B, 8B
P4	▲

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

How to order

AF5 **016** P - **50** - **X1** - P4

Ⓐ Flow rate classification

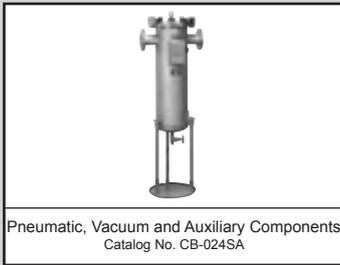
Ⓑ Bore size

Ⓒ Option *1
*2
*4

Code	Description										
Ⓐ Flow rate classification m³/min (ANR)											
016	16										
032	32										
048	48										
064	64										
080	80										
096	96										
128	128										
160	160										
192	192										
256	256										
Ⓑ Bore size											
	Flow rate classification	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	—	—	—	—	—	—	—	●	●	●
Ⓒ Option											
Blank	Standard product										
K	Companion flange included										
H	English language specifications										
H2	Stainless steel nameplate										
L	Foundation bolt/nut included (SS400)										(*1)
L1	Foundation bolt/nut included (SUS304)										(*1)
X1	IN/OUT reverse direction (*2)										
Y2	Product photo										

⚠ Precautions for model No. selection

- *1: "L" and "L1" are applicable to AF5032P to AF5256P.
- *2: Viewed from the front, a standard product has an air inlet on the left port, while 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.



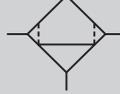
Micro alescer

AF5000S Series

Protects expensive pneumatic components

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

JIS symbol



P4
Series

Specifications

Model No.	AF5016S-60	AF5032S-80	AF5048S-100	AF5064S-100	AF5080S-150	AF5096S-150	AF5128S-150	AF5160S-200	AF5192S-200	AF5256S-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									
Ambient temperature °C	5 to 60									
Degree of filtration μm	0.3									
Secondary oil content mg/m ³	0.5 (at inlet air 21°C or less)									
Pressure drop	Initial MPa	0.007								
	Normal MPa	0.014								
	Element replacement MPa	0.035								
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	38	76	78	107	140	167	223	232	269	330
Differential pressure gauge	Contact CKD for details.									
Drain discharger	No									

*1: Flange is a 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 0.007 MPa.

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

Flow rate compensation coefficient

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

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

Pneumatic actuator
Pneumatic cylinders
Hand/Chuck
Related products
Cylinder Switch
Vacuum components
Pneumatic valves
Clean air components
Speed controller
Fitting
Auxiliary valve
Silencer
Tube
Gas generator
Fluid control components
Electric actuator
Motor specification
Motorless specifications

AF5000S Series

P4 Series

Compatibility table by variation

AF5000	
Port size	Flange 2B, 3B, 4B, 6B, 8B
P4	▲

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

How to order

AF5 **016** S - **50** - **X1** - P4

Ⓐ Flow rate classification

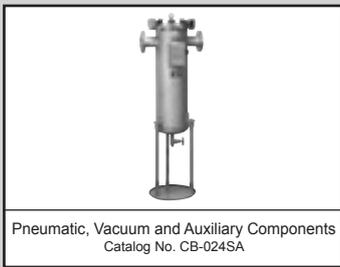
Ⓑ Bore size

Ⓒ Option
*1
*2
*4

Code	Description										
Ⓐ Flow rate classification m³/min (ANR)											
016	16										
032	32										
048	48										
064	64										
080	80										
096	96										
128	128										
160	160										
192	192										
256	256										
Ⓑ Bore size											
Flow rate classification	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	—	—	—	—	—	—	—	●	●	●
Ⓒ Option											
Blank	Standard product										
K	Companion flange included										
H	English language specifications										
H2	Stainless steel nameplate										
L	Foundation bolt/nut included (SS400)(Note1)										
L1	Foundation bolt/nut included (SUS304)(Note1)										
X1	IN/OUT reverse direction (*2)										
Y2	Product photo										

⚠ Precautions for model No. selection

- *1: "L" and "L1" corresponds to AF5032S to AF5256S.
- *2: Viewed from the front, a standard product has an air inlet on the left port, while 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.



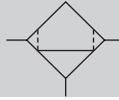
Micro alescer

AF5000M Series

For pneumatic circuits which prohibit passage of oil

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

JIS symbol



P4
Series

Specifications

Model No.	AF5016M-50	AF5032M-80	AF5048M-100	AF5064M-100	AF5080M-150	AF5096M-150	AF5128M-150	AF5160M-200	AF5192M-200	AF5256M-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									
Ambient temperature °C	5 to 60									
Degree of filtration μm	0.01									
Secondary oil content mg/m ³	0.01 (at inlet air 21°C or less)									
Pressure drop	Initial MPa	0.01								
	Normal MPa	0.02								
	Element replacement MPa	0.035								
Element quantity	1	2	3	4	5	6	8	10	12	16
Port size (*1) Flange	2 B	3 B	4 B	4 B	6 B	6 B	6 B	8 B	8 B	8 B
Weight kg	38	76	78	107	140	167	223	232	269	330
Differential pressure gauge	Contact CKD for details.									
Drain discharger	No									

*1: Flange is a 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%.

Flow rate compensation coefficient

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

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

Pneumatic cylinders
Hand/Chuck
Related products
Cylinder Switch
Pneumatic actuator
Vacuum components
Pneumatic valves
Clean air components
Speed controller
Fitting
Auxiliary valve
Silencer
Tube
Gas generator
Fluid control components
Electric actuator
Motor specification
Motorless specifications

AF5000M Series

P4 Series

Compatibility table by variation

AF5000	
Port size	Flange 2B, 3B, 4B, 6B, 8B
P4	▲

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

How to order

AF5 **016** M - **50** - **X1** - P4

Ⓐ Flow rate classification

Ⓑ Bore size

Ⓒ Option *1
*2
*4

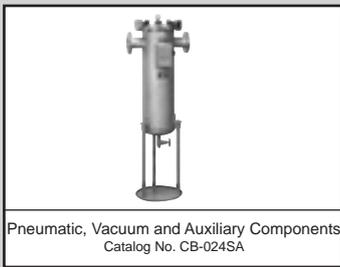
⚠ Precautions for model No. selection

- *1: "L" and "L1" are applicable to AF5032M to AF5256M.
- *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.

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

Ⓑ Bore size											
Flow rate classification		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	—	—	—	—	—	—	—	●	●	●

Ⓒ Option	
Blank	Standard product
K	Companion flange included
H	English language specifications
H2	Stainless steel nameplate
L	Foundation bolt/Nut included (SS400) (*1)
L1	Foundation bolt/Nut included (SUS304) (*1)
X1	IN/OUT reverse direction(*2)
Y2	Product photo



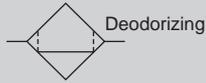
Micro alescra

AF5000X Series

For pneumatic circuits which prohibit passage of odors

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

JIS symbol



P4
Series

Pneumatic cylinders
Hand/Chuck
Related products
Cylinder Switch

Vacuum components

Pneumatic valves

Clean air components

Pneumatic auxiliary components
Speed controller
Fitting
Auxiliary valve
Silencer
Tube

Gas generator

Fluid control components

Electric actuator
Motor specification
Motorless specifications

Specifications

Model No.	AF5016X-50	AF5032X-80	AF5048X-100	AF5064X-100	AF5080X-150	AF5096X-150	AF5128X-150	AF5160X-200	AF5192X-200	AF5256X-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									
Ambient temperature °C	5 to 30									
Filtration method	Suction by activated carbon									
Secondary oil content mg/m ³	0.003 (at inlet air 21°C or less)									
Initial pressure drop MPa	Within 0.007									
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	38	76	78	107	140	167	223	232	269	330

*1: Flange is a 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 0.007 MPa.

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

Flow rate compensation coefficient

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

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

AF5000X Series

P4 Series

Compatibility table by variation

AF5000	
Port size	Flange 2B, 3B, 4B, 6B, 8B
P4	▲

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

How to order

AF5 **016** X - **50** - **X1** - P4

Ⓐ Flow rate classification

Ⓑ Bore size

Ⓒ Option *1
*2
*4

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

Ⓑ 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	—	—	—	—	—	—	—	●	●	●

Ⓒ Option	
Blank	Standard product
K	Companion flange included
H	English language specifications
H2	Stainless steel nameplate
L	Foundation bolt/Nut included (SS400) (*1)
L1	Foundation bolt/Nut included (SUS304) (*1)
X1	IN/OUT reverse direction(*2)
Y2	Product photo

⚠ Precautions for model No. selection

- *1: "L" and "L1" are applicable to AF5032P to AF5256P.
- *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.