



Main line filter

AF5000P Series

For air dryer pre-filter

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

JIS symbol



Specifications

Model No.		AF5016P-50	AF5032P-80	AF5048P-100	AF5064P-100	AF5080P-150	AF5096P-150	AF5128P-150	AF5160P-200	AF5192P-200	AF5256P-200
Item											
Processing air flow rate (*2, *3) m³/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		2B	3B	4B	4B	6B	6B	6B	8B	8B	8B
Weight kg		38	76	78	107	140	167	223	232	269	330
Differential pressure switch											
Operating pressure differential MPa		0.04±0.01									
Contact		1 pole a contact									
Max. contact current A		0.5									
Max. contact voltage VDC		200									
Max. contact capacitance W		10									
Max. contact resistance (including reed switch) mΩ		150									
Drain discharger (model No.: DBV1003D)											
Drain outlet port size		(*4) G 1/4 or ø8 to 10 mm hose fitting									
Power supply		Single phase 95 VAC to 240 VAC 50/60 Hz									

*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%.
 *4: R1/4 connection is possible with G1/4.

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

How to order

AF5 016 P - 50 - X1

A Flow rate classification

B Bore size

C Option *1
*2
*3
*5

Code	Description
A 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

B 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	-	-	-	-	-	-	-	●	●

C Option	
Blank	Standard products
D	Drain discharger 5100-4C (*1)
E	Without drain discharger
K	Companion flange attached
H	English language specifications
H2	SUS nameplate
L	Foundation bolt/nut attached (SS400) (*2)
L1	Foundation bolt/nut attached (SUS304) (*2)
X1	IN/OUT reverse direction (*3)
Y2	Product photo

⚠ Precautions for model No. selection

- *1: "D" drain discharger 5100-4C is recommended for working environments where electric wiring is not possible.
- *2: "L" and "L1" are applicable to AF5032P to AF5256P.
- *3: 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.
- *4: Unit performance may not be attained if used at less than the selected pressure. Always select the model No. for the working pressure.
- *5: When ordering several options, indicate the required options in alphabetical order.

[Example of model No.]

AF5016P-50-X1

Model: Main line filter AF5000P Series

- A Flow rate 16 m³/min (ANR)
- B Bore size Flange 2B
- C Option IN/OUT reverse direction

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 Filt
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdris 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

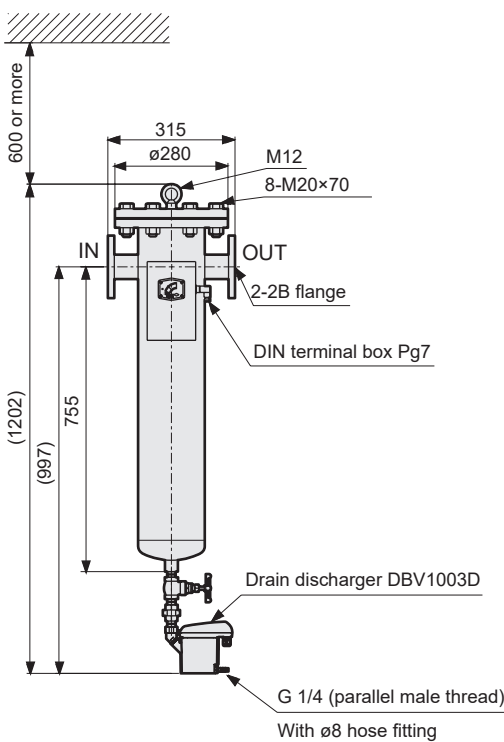
AF5000P Series

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 Filt
Film Resist FR
Oil-ProhrR
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
WaterRtSens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

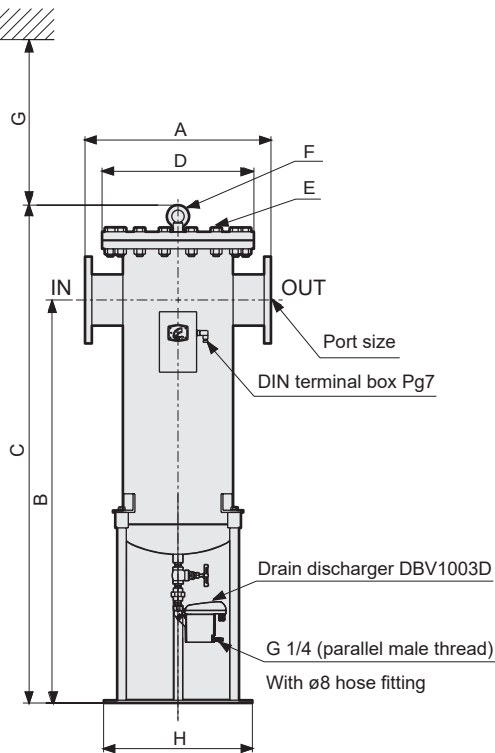
Dimensions



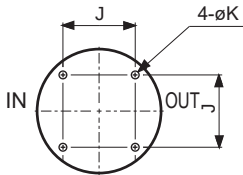
● AF5016P



● AF5032P to AF5256P

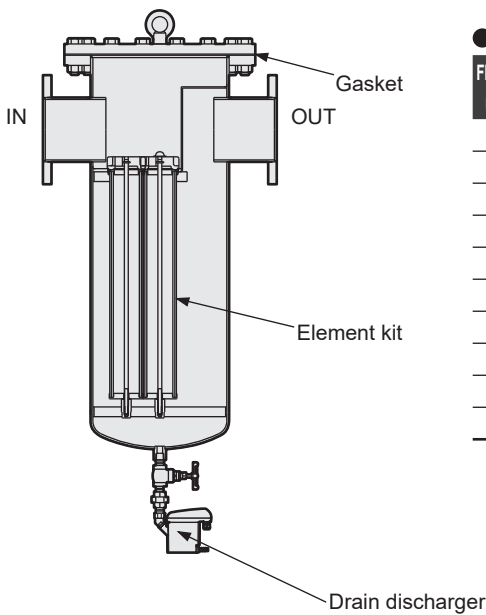


● Foundation bolt hole dimension



Model No.	Port size	A	B	C	D	E	F	G	H	J	K
AF5032P-80	Flange 3B	500	1255	1495	ø400	12-M22×80	M12	600	ø380	210	ø15
AF5048P-100	Flange 4B	500	1255	1495	ø400	12-M22×80	M12	600	ø380	210	ø15
AF5064P-100	Flange 4B	550	1270	1522	ø445	16-M22×80	M16	600	ø440	250	ø15
AF5080P-150	Flange 6B	600	1300	1606	ø490	16-M22×80	M20	600	ø480	280	ø15
AF5096P-150	Flange 6B	650	1320	1630	ø560	16-M24×90	M20	600	ø540	320	ø15
AF5128P-150	Flange 6B	700	1350	1693	ø620	20-M24×90	M20	600	ø610	350	ø15
AF5160P-200	Flange 8B	700	1350	1693	ø620	20-M24×90	M20	600	ø610	350	ø15
AF5192P-200	Flange 8B	750	1360	1709	ø675	20-M24×100	M20	600	ø670	400	ø15
AF5256P-200	Flange 8B	850	1400	1786	ø745	20-M30×110	M24	600	ø730	450	ø15

Repair parts list

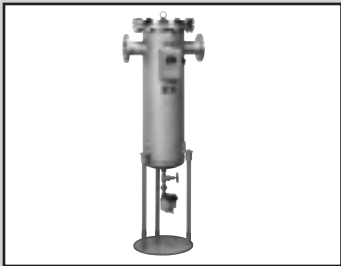


● Ordering method

Flow rate classification m³/min(ANR)	Gasket	Element kit	Drain discharger
16	AF5016P-GASKET	AF5016P-ELEMENT-KIT	AF-DBV1003D-15
32	AF5032P-GASKET	AF5032P-ELEMENT-KIT	
48	AF5048P-GASKET	AF5048P-ELEMENT-KIT	
64	AF5064P-GASKET	AF5064P-ELEMENT-KIT	
80	AF5080P-GASKET	AF5080P-ELEMENT-KIT	
96	AF5096P-GASKET	AF5096P-ELEMENT-KIT	
128	AF5128P-GASKET	AF5128P-ELEMENT-KIT	
160	AF5160P-GASKET	AF5160P-ELEMENT-KIT	
192	AF5192P-GASKET	AF5192P-ELEMENT-KIT	
256	AF5256P-GASKET	AF5256P-ELEMENT-KIT	

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

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 Filt
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
WaterRtSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
Gas
generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending



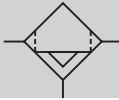
Micro alescercy

AF5000S Series

Protect expensive pneumatic components

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

JIS symbol



Specifications

Model No.			AF5016S-50	AF5032S-80	AF5048S-100	AF5064S-100	AF5080S-150	AF5096S-150	AF5128S-150	AF5160S-200	AF5192S-200	AF5256S-200
Item												
Processing air flow rate (*2, *3) m³/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									
Filtration rating μm			0.3									
Secondary side oil concentration mg/m³			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 switch												
Operating pressure differential MPa			0.04±0.01									
Contact			1 pole a contact									
Max. contact current A			0.5									
Max. contact voltage VDC			200									
Max. contact capacitance W			10									
Max. contact resistance (including reed switch) mΩ			150									
Drain discharger (model No.: DBV1003D)												
Drain outlet port size			(*4) G1/4 or ø8-10 mm hose fitting									
Power supply			Single phase 95 VAC to 240 VAC 50/60 Hz									

*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%.

*4: R1/4 connection is possible with G1/4.

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

How to order

AF5 016 S - 50 - X1

A Flow rate classification

B Bore size

C Option *1
*2
*3
*5

Code	Description									
A 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									
B 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	-	-	-	-	-	-	-	●	●
C Option										
Blank	Standard products									
D	Drain discharger 5100-4C (*1)									
E	Without drain discharger									
K	Companion flange attached									
H	English language specifications									
H2	SUS nameplate									
L	Foundation bolt/nut attached (SS400) (*2)									
L1	Foundation bolt/nut attached (SUS304) (*2)									
X1	IN/OUT reverse direction (*3)									
Y2	Product photo									

⚠ Precautions for model No. selection

*1: "D" drain discharger 5100-4C is recommended for working environments where electric wiring is not possible.

*2: "L" and "L1" are applicable to AF5032S to AF5256S.

*3: 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.

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

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

[Example of model No.]

AF5016S-50-X1

Model: Main line filter AF5000S Series

A Flow rate 16 m³/min (ANR)

B Bore size Flange 2B

C Option IN/OUT reverse direction

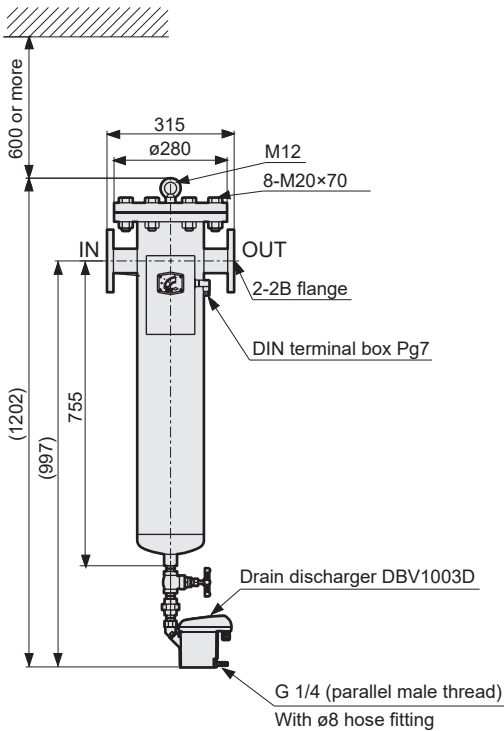
F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filt
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter Joiner Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
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

AF5000S Series

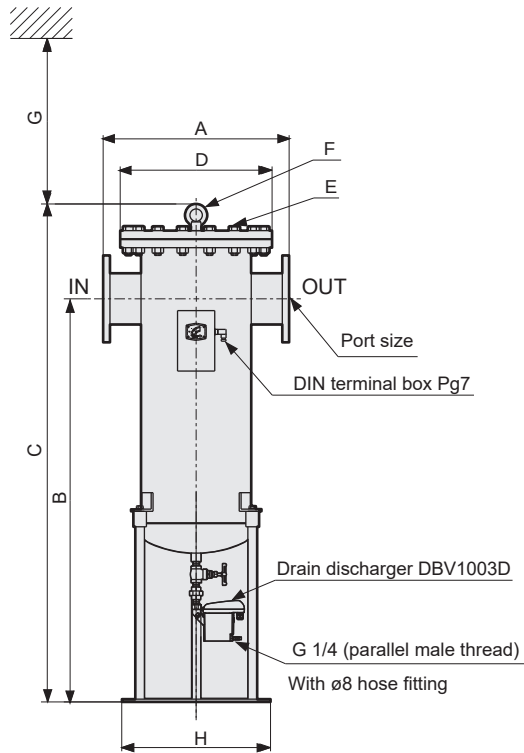
- F.R.L.
- F.R.
- F (Filtr)
- R (Reg)
- L (Lub)
- Drain Separ
- Mech Press SW
- Res press exh valve
- SlowStart
- Anti-bac/Bac-remove Filt
- Film Resist FR
- Oil-Prohr
- Med Press FR
- No Cu/ PTFE FRL
- Outdrs FRL
- Adapter Joiner
- Press Gauge
- CompFRL
- LgFRL
- PrecsR
- VacF/R
- Clean FR
- ElecPneuR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

Dimensions

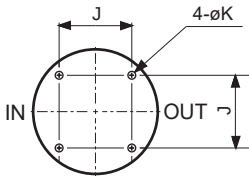
● AF5016S



● AF5032S to AF5256S

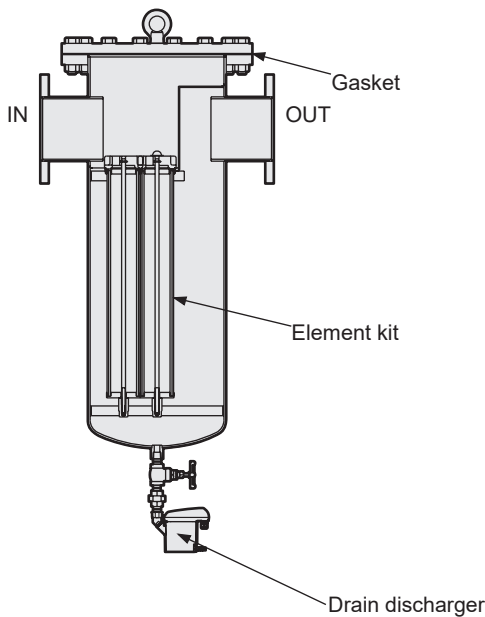


● Foundation bolt hole dimension



Model No.	Port size	A	B	C	D	E	F	G	H	J	K
AF5032S-80	Flange 3B	500	1255	1495	$\phi 400$	12-M22 $\times$ 80	M12	600	$\phi 380$	210	$\phi 15$
AF5048S-100	Flange 4B	500	1255	1495	$\phi 400$	12-M22 $\times$ 80	M12	600	$\phi 380$	210	$\phi 15$
AF5064S-100	Flange 4B	550	1270	1522	$\phi 445$	16-M22 $\times$ 80	M16	600	$\phi 440$	250	$\phi 15$
AF5080S-150	Flange 6B	600	1300	1606	$\phi 490$	16-M22 $\times$ 80	M20	600	$\phi 480$	280	$\phi 15$
AF5096S-150	Flange 6B	650	1320	1630	$\phi 560$	16-M24 $\times$ 90	M20	600	$\phi 540$	320	$\phi 15$
AF5128S-150	Flange 6B	700	1350	1693	$\phi 620$	20-M24 $\times$ 90	M20	600	$\phi 610$	350	$\phi 15$
AF5160S-200	Flange 8B	700	1350	1693	$\phi 620$	20-M24 $\times$ 90	M20	600	$\phi 610$	350	$\phi 15$
AF5192S-200	Flange 8B	750	1360	1709	$\phi 675$	20-M24 $\times$ 100	M20	600	$\phi 670$	400	$\phi 15$
AF5256S-200	Flange 8B	850	1400	1786	$\phi 745$	20-M30 $\times$ 110	M24	600	$\phi 730$	450	$\phi 15$

Repair parts list

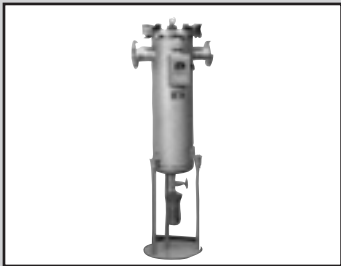


● Ordering method

Flow rate classification m³/min(ANR)	Gasket	Element kit	Drain discharger
16	AF5016P-GASKET	AF5016S-ELEMENT-KIT	AF-DBV1003D-15
32	AF5032P-GASKET	AF5032S-ELEMENT-KIT	
48	AF5048P-GASKET	AF5048S-ELEMENT-KIT	
64	AF5064P-GASKET	AF5064S-ELEMENT-KIT	
80	AF5080P-GASKET	AF5080S-ELEMENT-KIT	
96	AF5096P-GASKET	AF5096S-ELEMENT-KIT	
128	AF5128P-GASKET	AF5128S-ELEMENT-KIT	
160	AF5160P-GASKET	AF5160S-ELEMENT-KIT	
192	AF5192P-GASKET	AF5192S-ELEMENT-KIT	
256	AF5256P-GASKET	AF5256S-ELEMENT-KIT	

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

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 Filt
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
WaterRtSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
Gas
generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending



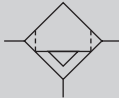
Micro alescercy

AF5000M Series

For pneumatic pressure circuits which are susceptible to oil

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

JIS symbol



Specifications

Model No.		AF5016M-50	AF5032M-80	AF5048M-100	AF5064M-100	AF5080M-150	AF5096M-150	AF5128M-150	AF5160M-200	AF5192M-200	AF5256M-200
Item											
Processing air flow rate (*2, *3) m³/min (ANR)		16	32	48	64	80	96	128	160	192	256
Working fluid		Compressed air									
Working pressure											

*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

How to order

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

A Flow rate classification

B Bore size

C Option *1
*2
*4

⚠ Precautions for model No. selection

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

*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.

[Example of model No.]

AF5016M-50-X1

Model: Main line filter AF5000M Series

A Flow rate 16 m³/min (ANR)

B Bore size Flange 2B

C Option IN/OUT reverse direction

Code	Description
A 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

B 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	-	-	-	-	-	-	-	●	●	●

C Option	
Blank	Standard products
E	Without drain discharger
K	Companion flange attached
H	English language specifications
H2	SUS nameplate
L	Foundation bolt/nut attached (SS400) (*1)
L1	Foundation bolt/nut attached (SUS304) (*1)
X1	IN/OUT reverse direction (*3)
Y2	Product photo

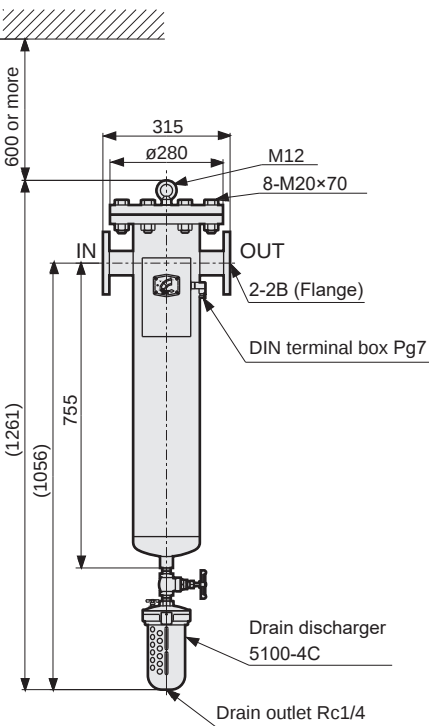
F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filtr
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrrs FRL
Adapter Joiner Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/ other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

AF5000M Series

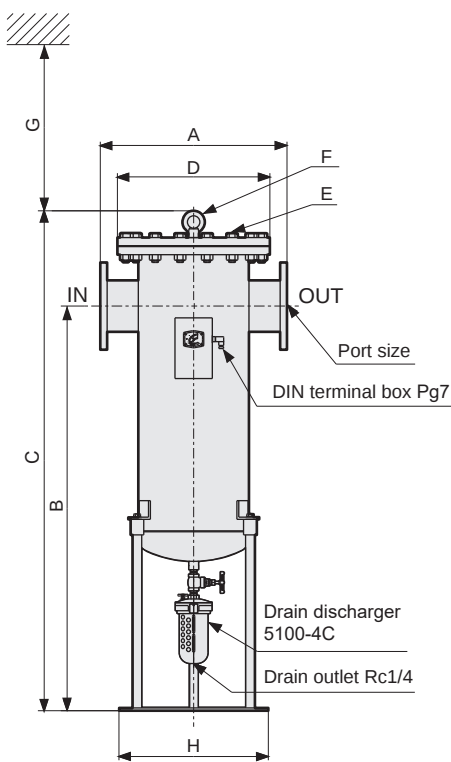


Dimensions

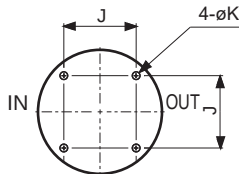
● AF5016M



● AF5032M to AF5256M

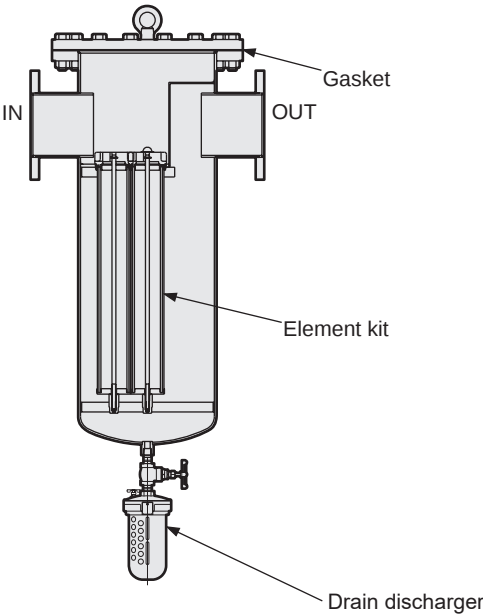


● Foundation bolt hole dimension



Model No.	Port size	A	B	C	D	E	F	G	H	J	K
AF5032M-80	Flange 3B	500	1255	1495	ø400	12-M22×80	M12	600	ø380	210	ø15
AF5048M-100	Flange 4B	500	1255	1495	ø400	12-M22×80	M12	600	ø380	210	ø15
AF5064M-100	Flange 4B	550	1270	1522	ø445	16-M22×80	M16	600	ø440	250	ø15
AF5080M-150	Flange 6B	600	1300	1606	ø490	16-M22×80	M20	600	ø480	280	ø15
AF5096M-150	Flange 6B	650	1320	1630	ø560	16-M24×90	M20	600	ø540	320	ø15
AF5128M-150	Flange 6B	700	1350	1693	ø620	20-M24×90	M20	600	ø610	350	ø15
AF5160M-200	Flange 8B	700	1350	1693	ø620	20-M24×90	M20	600	ø610	350	ø15
AF5192M-200	Flange 8B	750	1360	1709	ø675	20-M24×100	M20	600	ø670	400	ø15
AF5256M-200	Flange 8B	850	1400	1786	ø745	20-M30×110	M24	600	ø730	450	ø15

Repair parts list

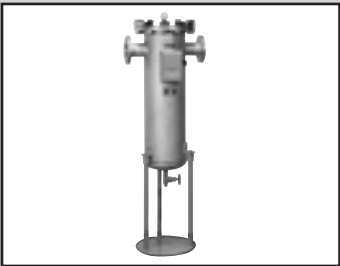


● Ordering method

Flow rate classification m³/min(ANR)	Gasket	Element kit	Drain discharger
16	AF5016P-GASKET	AF5016M-ELEMENT-KIT	5100-4C
32	AF5032P-GASKET	AF5032M-ELEMENT-KIT	
48	AF5048P-GASKET	AF5048M-ELEMENT-KIT	
64	AF5064P-GASKET	AF5064M-ELEMENT-KIT	
80	AF5080P-GASKET	AF5080M-ELEMENT-KIT	
96	AF5096P-GASKET	AF5096M-ELEMENT-KIT	
128	AF5128P-GASKET	AF5128M-ELEMENT-KIT	
160	AF5160P-GASKET	AF5160M-ELEMENT-KIT	
192	AF5192P-GASKET	AF5192M-ELEMENT-KIT	
256	AF5256P-GASKET	AF5256M-ELEMENT-KIT	

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

- 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 Filt
- 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
- WaterRtSens
- TotAirSys (Total Air)
- TotAirSys (Gamma)
- Gas generator
- RefrDry
- DesicDry
- HiPolymDry
- MainFiltr
- Dischrg etc
- Ending



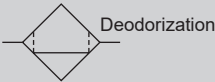
Micro alescercy

AF5000X Series

For pneumatic pressure circuits which are susceptible to odors

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

JIS symbol



Specifications

Model No.										
Item	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 (≈12 psi, 0.8 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/m ³	0.003 (at inlet air 21°C (69.8°F) or less)									
Initial pressure drop MPa	Within 0.007 (≈1 psi, 0.07 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	38	76	78	107	140	167	223	232	269	330

*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 0.007 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 coeff	0.38	0.53	0.65	0.76	0.85	0.93	1.0	1.07	1.13	1.2

How to order

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

A Flow rate classification

B Bore size

C Option *1
*2
*4

⚠ Precautions for model No. selection

*1: "L" and "L1" are applicable to AF5032X to AF5256X.

*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.

[Example of model No.]

AF5016X-50-X1

Model: Main line filter AF5000X Series

A Flow rate 16 m³/min (ANR)

B Bore size Flange 2B

C Option IN/OUT reverse direction

Code	Description
A 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

B 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	-	-	-	-	-	-	-	●	●	●

C Option	
Blank	Standard products
K	Companion flange attached
H	English language specifications
H2	SUS nameplate
L	Foundation bolt/nut attached (SS400) (*1)
L1	Foundation bolt/nut attached (SUS304) (*1)
X1	IN/OUT reverse direction (*2)
Y2	Product photo

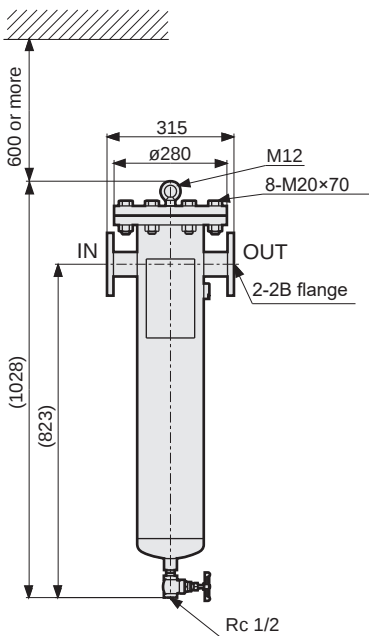
F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain
Separ
Mech
Press SW
Res press
exh valve
SlowStart
Anti-bac/Bac-
remove Filtr
Film
Resist FR
Oil-ProhR
Med
Press FR
No Cu/
PTFE FRL
Outdts FRL
Adapter
Joiner
Press
Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/
other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

AF5000X Series

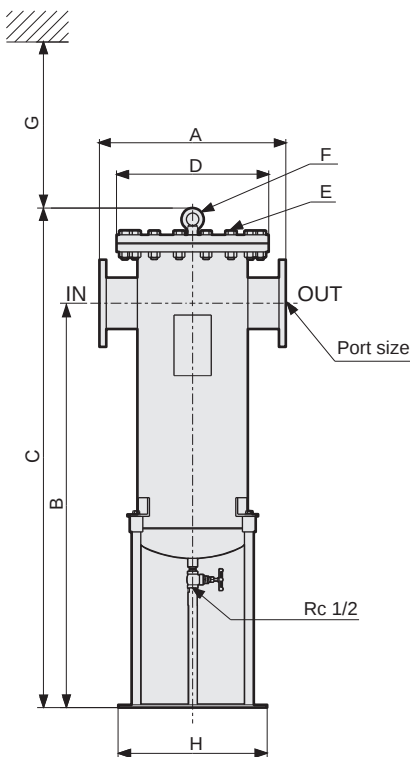


Dimensions

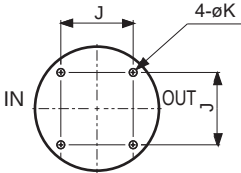
● AF5016X



● AF5032X to AF5256X

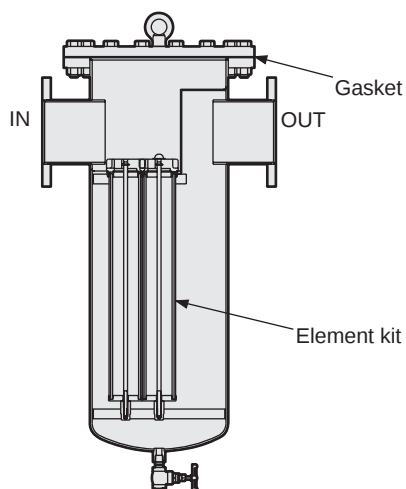


● Foundation bolt hole dimension



Model No.	Port size	A	B	C	D	E	F	G	H	J	K
AF5032X-80	Flange 3B	500	1255	1495	400	12-M22×80	M12	600	380	210	15
AF5048X-100	Flange 4B	500	1255	1495	400	12-M22×80	M12	600	380	210	15
AF5064X-100	Flange 4B	550	1270	1522	445	16-M22×80	M16	600	440	250	15
AF5080X-150	Flange 6B	600	1300	1606	490	16-M22×80	M20	600	480	280	15
AF5096X-150	Flange 6B	650	1320	1630	560	16-M24×90	M20	600	540	320	15
AF5128X-150	Flange 6B	700	1350	1693	620	20-M24×90	M20	600	610	350	15
AF5160X-200	Flange 8B	700	1350	1693	620	20-M24×90	M20	600	610	350	15
AF5192X-200	Flange 8B	750	1360	1709	675	20-M24×100	M20	600	670	400	15
AF5256X-200	Flange 8B	850	1400	1786	745	20-M30×110	M24	600	730	450	15

Repair parts list



● Ordering method

Flow rate classification m ³ /min(ANR)	Gasket	Element kit
16	AF5016P-GASKET	AF5016X-ELEMENT-KIT
32	AF5032P-GASKET	AF5032X-ELEMENT-KIT
48	AF5048P-GASKET	AF5048X-ELEMENT-KIT
64	AF5064P-GASKET	AF5064X-ELEMENT-KIT
80	AF5080P-GASKET	AF5080X-ELEMENT-KIT
96	AF5096P-GASKET	AF5096X-ELEMENT-KIT
128	AF5128P-GASKET	AF5128X-ELEMENT-KIT
160	AF5160P-GASKET	AF5160X-ELEMENT-KIT
192	AF5192P-GASKET	AF5192X-ELEMENT-KIT
256	AF5256P-GASKET	AF5256X-ELEMENT-KIT

*1: Drain discharger
AF5000X: none

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 Filt
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