

# Large Flow Air Filter

## Series AF800/900



### Standard Specifications

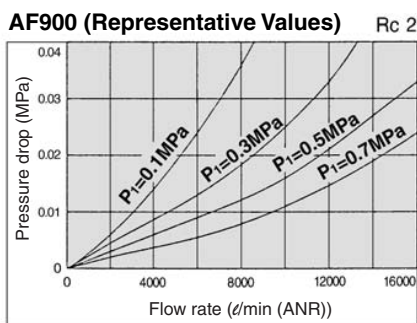
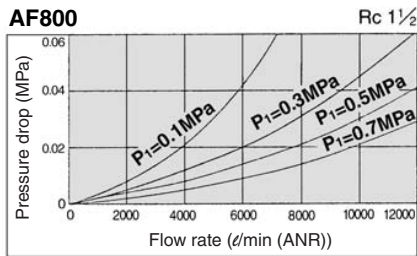
Model	AF800	AF900
Port size	1 1/4 1 1/2	2
Proof pressure	1.5 MPa	
Maximum operating pressure	1.0 MPa	
Ambient and fluid temperature	-5 to 60°C (No freezing)	
Filtration	Standard specifications: 5 μm Option: 2, 10, 20, 40, 70, 100 μm	
Bowl material	Polycarbonate	
Bowl capacity (cm <sup>3</sup> )	180 cm <sup>3</sup>	
Mass (kg)	3.15	5.45
Accessory (Standard)	Bowl guard	

### Accessory (Option)/Part No.

Description	Model	Part no.	
		AF8□□	AF9□□
Float type auto drain* (Bowl assembly)	N.O	AD34 (Bowl material: Nylon)	AD34 (Bowl material: Nylon)
	N.C	AD16M (Bowl material: Polycarbonate)	AD16M (Bowl material: Polycarbonate)

\* Min. operating pressure: 0.1 MPa (N.O.), 0.15 MPa (N.C.)

### Flow Characteristics (Representative Values)



### How to Order

**AF 8 00 - 12 - 127 - R**

- Air filter**
- Body size**

8	1 1/2
9	2
- Auto-drain specifications**

00	None
10	Float type auto drain (N.C.)
11	Float type auto drain (N.O.)
- Thread type**

Nil	Rc
N	NPT
F	G
- Option**

D	Drain cock thread piping {Rc 1/4}
J□*4	Drain guide
R	Flow direction: Right to left
- Option**

1*1	Optional filtration rate
2	Metal bowl
6	Nylon bowl
7*2	Stainless steel element
8	Metal bowl with level gauge
9*3	Without drain cock
- Port size**

12	1 1/4
14	1 1/2
20	2

**Note 1)** When specifying more than one number, indicate them in numerical order.  
(Ex.) 127-40

**Note 2)** When specifying more than one alphabet symbol, indicate them alphabetically and put "-" between them.  
(Ex.) D-R

**Note 3)** Options for "2", "6", and "8" can not be specified at the same time.  
(Ex.) 68

**Note 4)** Symbols "9", "D", "J" can not be specified at the same time.  
(Ex.) 9-D-J

**Note 5)** For products with auto drain, either symbol "D" or "J" cannot be specified at the same time because of female threads (3/8 or 1/8), for connection to drain piping.

**Note 6)** For N.C. type with auto drain, metal case with liquid level indicator is not available.

\* 1 Indicate the required filtration rate after the symbol "1".  
Ex.) When 40 μm is required: 1-40

\* 2 If indicating "7" only, the filtration rate is 5 μm. Optional filtration rate is required, indicate like 17-□.  
Ex.) When requiring "stainless steel and 40 μm"; 17-40

\* 3 The bowl of series AL is used.

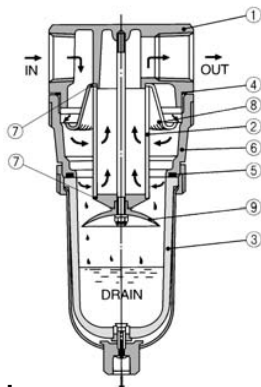
\* 4 This symbol "□" indicates the port size.

1	Rc 1/4
6	NPT 1/4
8	G 1/4

AC  
AF□  
AR  
AL  
AW□  
A□G  
AV  
AF800  
AF900

# Series AF800/900

## Construction



### Component Parts

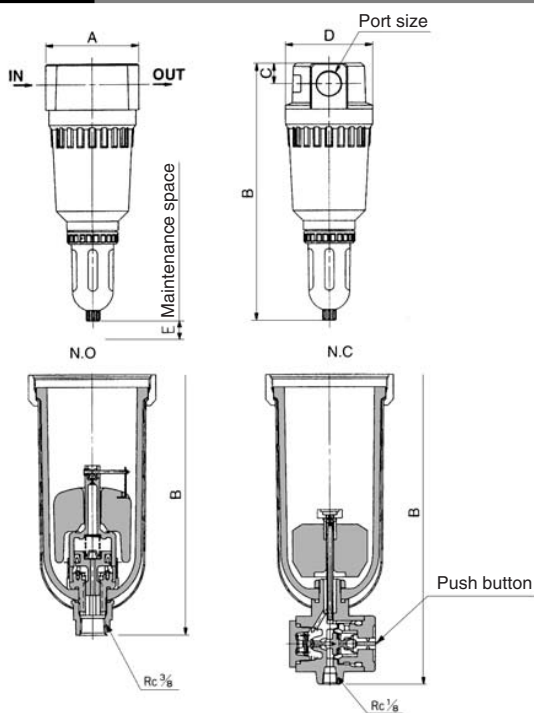
No.	Description	Material		Note
		AF800	AF900	
1	Body	Aluminum die-casted	Aluminum casted	Platinum silver painted
6	Housing	Aluminum die-casted	Aluminum casted	Platinum silver painted

### Replacement Parts

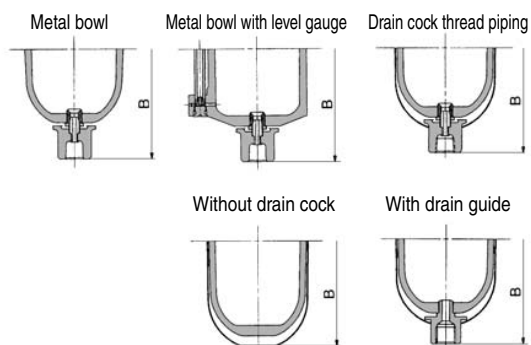
No.	Description	Material	Part no.		Qty.	
			AF800	AF900		
2	Element	Standard	Bronze	11345-5B	11352-5B	1
		-7	Stainless steel	11345-5S	11352-5S	1
3	Bowl assembly	Standard	—	AF11-4(11316A)*		1
		-2	—	AF11-4-2		
		-6	—	AF11-4-6-(1131123A)*		
		-8	—	AF-8		
		-9	—	AF11-4-9(123120)*		
4	O-ring	NBR	JIS B2401 G130	630332	1	
5	O-ring	NBR	113136	113136	1	
7	Element seal	NBR	11217	112310	2	
8	Deflector	Aluminum	11346	11355	1	
		ADC	11344	—	1	
9	Buffer	Aluminum casted	—	11354		1

\* A bowl, bowl guard, clamp ring and drain cock are assembled.  
( ) : A bowl and a drain cock are assembled. -9 does not include a drain cock.

## Dimensions



### Option



### Option/Dimensions

Model	A	B	C	D	B (With auto drain)		E
					N.O.	N.C.	
AF800	150	410	33	140	439	440	200
AF900	200	490	46	170	519	520	260

Model	B (Without auto drain)				
	Metal bowl	Metal bowl with level gauge	Without drain cock	Drain cock thread piping	With drain guide
AF800	409	440.5	393.5	410	406.5
AF900	489	520.5	473.5	490	486.5

## ⚠ Precautions

Be sure to read before handling.  
Refer to front matters 42 and 43 for Safety Instructions and pages 287 to 291 for F.R.L. Precautions.

### Selection

#### ⚠ Warning

Use auto drain under the following conditions. Otherwise, it may result in a malfunction.

- Float type auto drain (N.O.)
  - Use compressor with capacity more than 3.7 kW {400 ℓ/min (ANR)}
  - Set operating pressure more than 0.1 MPa.
- Float type auto drain (N.C.)
  - Compressor can be used even if energy is under 3.7 kW.
  - Set operating pressure more than 0.15 MPa.

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### Piping

#### ⚠ Warning

Be sure to pipe auto drain under the following conditions. Otherwise, it may result in a malfunction.

- Float type auto drain (N.O.)
 

When making drain exhaust piping, use piping with bore size  $\phi 10$  or larger than  $\phi 10$ .  
Length should be shorter than 5 m. Do NOT make upward piping.
- Float type auto drain (N.C.)
 

DO NOT pipe upwards.