Air Filter

AF20-A to AF40-A

JIS Symbol

Air Filter

Air Filter with Auto Drain





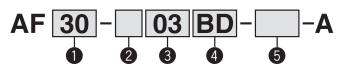




AF20-A

AF40-A

How to Order



- Option/Semi-standard: Select one each for a to f.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order. Example) AF30-03BD-CR-A

Symbol					0			
			Symbol	Description	Body size			
					20	30	40	
			Nil	Rc	•	•	•	
G IIII Gad typo			N Note 1)	NPT	•	•	•	
			F Note 2)	G	•	•	•	
			+					
	01			1/8	•	_	_	
			02	1/4		•		
3		Port size	03	3/8	_	•	•	
			04	1/2	_	_	•	
			06	3/4	_	_	•	
•			+		`			
		Mounting	Nil	Without mounting option	•	•	•	
	а		B Note 3)	With bracket	•	•	•	
ij			+		•			
Option		Float type auto drain	Nil	Without auto drain	•	•	•	
	b		C Note 4)	N.C. (Normal close) Drain port is closed when pressure is not applied.	•	•	•	
			D Note 5)	N.O. (Normal open) Drain port is open when pressure is not applied.	_	•	•	
			+		L			
		Bowl Note 6)	Nil	Polycarbonate bowl	•	•	•	
	С	DOWI **** 5/	С	With bowl guard	•	Note 7)	Note 7)	
			+		`			
			Nil	With drain cock	•	•	•	
ard	d	Drain port	Note 8)	Drain guide1/8	•	_		
nd	u		J s,	Drain guide1/4	_	•	•	
Sta 6			W	Drain cock with barb fitting (for ø6 x ø4 nylon tube)	_	•	•	
Ë			+					
Semi-standard		Flow direction	Nil	Flow direction: Left to right	•	•	•	
	е	I low direction	R	Flow direction: Right to left	•	•	•	
			+					
	4	Pressure unit	Nil	Name plate and caution plate for bowl in imperial units: MPa	•	•		
	f	Fressure unit	Z Note 9)	Name plate and caution plate for bowl in imperial units: psi, °F	Note 10)	Note 10)	Note 10)	

- Note 1) Drain guide is NPT1/8 (applicable to the AF20-A) and NPT1/4 (applicable to the AF30-A to AF40-A).
- The auto drain port comes with ø3/8" One-touch fitting (applicable to the AF30-A to AF40-A). Note 2) Drain guide is G1/8 (applicable to the AF20-A) and G1/4 (applicable to the AF30-A to AF40-A).
- Note 3) A bracket is not assembled and supplied loose at the time of shipment. Including 2 mounting screws.
- Note 4) When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl. Releasing the residual condensate before ending operations for the day is recommended.
- Note 5) If the compressor is small (0.75 kW, discharge flow is less than 100 L/min[ANR]), air leakage from the drain cock may occur during start of operations. N.C. type is recommended.
- Note 6) Refer to Chemical data on page 32 for chemical resistance of the bowl.
- Note 7) Standard material (polycarbonate)
- Note 8) Without a valve function.
- Note 9) For thread type: NPT. This product is for overseas use only according to the new Measurement Law.
 - (The SI unit type is provided for use in Japan.)

Note 10) O: For thread type: NPT only



Air Filter Series AF20-A to AF40-A

Standard Specifications

Model	AF20-A	AF30-A	AF40-A	AF40-06-A			
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4			
Fluid	Air						
Ambient and fluid temperature	-5 to 60°C (with no freezing)						
Proof pressure	1.5 MPa						
Maximum operating pressure	1.0 MPa						
Nominal filtration rating	5 μm						
Drain capacity (cm³)	8	25	45				
Bowl material	Polycarbonate						
Bowl guard	Semi-standard (Steel) Standard (Polycarbonate)						
Weight (kg)	0.08	0.18	0.36	0.41			

Options/Part No.

Ontional appoifications		Model						
Optional specifications		AF20-A	AF30-A	AF40-A	AF40-06-A			
Bracket assemblyNote 1)		AF22P-050AS	AF32P-050AS	AF42P-050AS AF42P-070A				
Float type auto drain ^{Note 2) Note 3)}	N.C.	AD27-A	AD37-A	AD4	17-A			
Float type auto drain.	N.O.	_	AD38-A	AD4	18-A			

Semi-standard/Bowl Assembly Part No.

Se	mi-stan	dard spe	ecificatio	ns		Model			
Bowl material	Float auto	drain	Note 3) With drain	With barb fitting	With bowl guard	AF20-A	AF30-A	AF40-A	AF40-06-A
	N.C.	N.O.	guide	Intuing S					
	_	_	_			C2SF-C-A	_	-	_
Dalvearlande		_	_	_		AD27-C-A	_	_	_
Polycarbonate	_	_		_	_	C2SF-J-A	C3SF-J-A	C4SF-J-A	
bowl	_	_	_	•	_	_	C3SF-W-A	C4SF-W-A	
	_	_	•	_	•	C2SF-CJ-A	_	_	_

Note 1) Assembly of a bracket and 2 mounting screws.

Note 2) Minimum operating pressure: N.O. type-0.1 MPa; N.C. type-0.1 MPa (AD27-A) and 0.15 MPa (AD37-A/47-A).

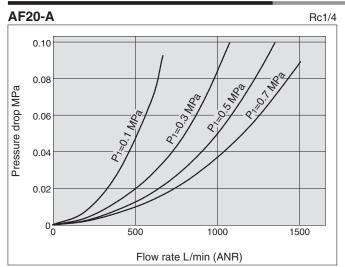
Please consult with SMC separately for psi and °F unit display specifications.

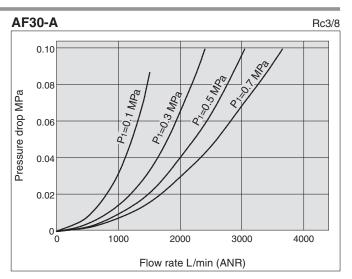
Note 3) Please consult with SMC for details on drain piping to fit NPT or G port sizes.

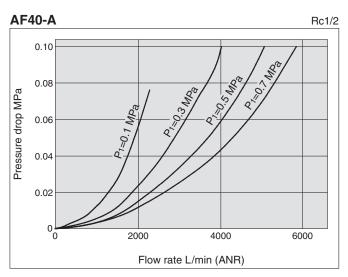
Note) Bowl assembly for the AF20-A to AF40-A models comes with a bowl O-ring.

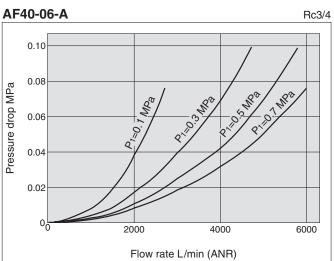
Series AF20-A to AF40-A

Flow Characteristics (Representative values)









Specific Product Precautions

Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC I Products" (M-E03-3) and the Operation Manual for F.R.L. Precautions.

Please download it via our website, http://www.smcworld.com

Design / Selection

Marning

1. The standard bowl for the air filter, filter regulator, and lubricator, as well as the sight dome for the lubricator and bowl guard are made of polycarbonate. Do not use in an environment where they are exposed to or come in contact with organic solvents, chemicals, cutting oil, synthetic oil, alkali, and thread lock solutions.

Effects of atmosphere of organic solvents and chemicals, and where these elements are likely to adhere to the equipment. Chemical data for substances causing degradation (Reference)

Type	Chemical name	Application examples	Material				
туре		Application examples	Polycarbonate				
Acid	Hydrochloric acid Sulfuric acid, Phosphoric acid Chromic acid	Acid washing liquid for metals	Δ				
Alkaline	Sodium hydroxide (Caustic soda) Potash Calcium hydroxide (Slack lime) Ammonia water Carbonate of soda	Degreasing of metals Industrial salts Water-soluble cutting oil	×				
Inorganic salts	Sodium sulfide Sulfate of potash Sulfate of soda	_	×				
Chlorine solvents	Carbon tetrachloride Chloroform Ethylene chloride Methylene chloride	Cleansing liquid for metals Printing ink Dilution	×				
Aromatic series	Benzene Toluene Paint thinner	Coatings Dry cleaning	×				
Ketone	Acetone Methyl ethyl ketone Cyclohexane	Photographic film Dry cleaning Textile industries	×				
Alcohol	Ethyl alcohol IPA Methyl alcohol	Antifreeze Adhesives	Δ				
Oil	Gasoline Kerosene	_	×				
Ester	Phthalic acid dimethyl Phthalic acid dimethyl Acetic acid	Synthetic oil Anti-rust additives	×				
Ether	Methyl ether Ethyl ether	Brake oil additives	×				
Amino	Methyl amino	Cutting oil Brake oil additives Rubber accelerator	×				
Other	Thread-lock fluid Seawater Leak tester	_	×				
\triangle : Some effects may occur \times : Effects will occur							

Maintenance

⚠ Warning

1. Replace the element every 2 years or when the pressure drop becomes 0.1 MPa, whichever comes first, to prevent damage to the element.

Mounting and Adjustment

∆ Caution

1. When the bowl is installed on the air filter, install them so that the lock button lines up to the groove of the front (or the back) of the body to avoid drop or damage of the bowl.



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