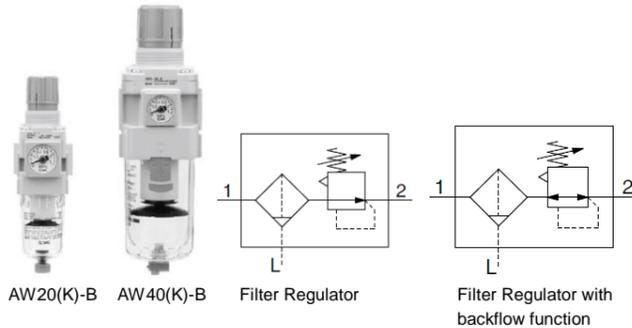




ORIGINAL INSTRUCTIONS

Instruction Manual
Filter Regulator
Series AW-B



The intended use of this product is to filter and regulate the air in the pneumatic circuit.

Validated according to ISO 13849, see section 2.

1 Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution", "Warning" or "Danger". They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC^{*)}, and other safety regulations.

^{*)} ISO 4414: Pneumatic fluid power - - General rules relating to systems.
ISO 4413: Hydraulic fluid power - - General rules relating to

systems.
IEC 60204-1: Safety of machinery - -Electrical equipment of machines. (Part 1: General requirements)
ISO 10218-1: Manipulating industrial robots -Safety,etc.

This manual contains essential information for the protection of users and others from possible injury and/or equipment damage. Read this manual before using the product, to ensure correct handling, and read the manuals of related apparatus before use. Keep this manual in a safe place for future reference.

To ensure safety of personnel and equipment the safety instructions in this manual must be observed, along with other relevant safety practices.

	Caution	Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
	Warning	Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
	Danger	Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

Warning

The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all

1 Safety Instructions - continued

specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly.

The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

Do not service or attempt to remove product and machinery/equipment until safety is confirmed.

- 1) The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
- 2) When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
- 3) Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.

- 1) Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
- 2) Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustions and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specification described in the product catalogue.
- 3) An application which could have negative effects on people, property, or animals requiring special safety analysis outside the

- scope of ISO 13849 described in this document.
- 4) Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

Always ensure compliance with relevant safety laws and standards.

All electrical work must be carried out in a safe manner by a qualified person in compliance with applicable national regulations.

Caution

The product is provided for use in manufacturing industries.

The product herein described is basically provided for peaceful use in manufacturing industries. If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary. If anything is unclear, contact your nearest sales branch.

2 Specifications

Series	AW□□-B	
Construction	Relieving type	
Max. operating pressure	1.0 MPa	
Set pressure range	0.05 to 0.85 MPa	
Proof pressure	1.5 MPa	
Pressure gauge port size ^{Note 1)}	1/8	
Ambient and fluid temperature ^{Note 2)}	-5 to +60 °C (no freezing)	
Fluid	Air	
Filtration	5 μm	
Flow	Refer to 2.2	
Drain capacity	AW20-B	8 (cm ³)
	AW30-B	25 (cm ³)
	AW40-B to AW60-B	45 (cm ³)
Bowl material	Polycarbonate	
Bowl guard	AW20-B	Semi-standard (Steel)
	AW30-B to AW60-B	Standard (Polycarbonate)

2 Specifications – continued

Port size	See Table 2
Weight	See Table 2
Standards	Complies with the basic and well-tried safety principles of ISO 13849-2:2012
B ₁₀	3.7 million cycles ^{Note 3)}
B _{10D}	7.4 million cycles ^{Note 3)}

Table 1

Notes:

Note 1) Pressure gauge connection threads are not available for F.R.L. unit with a square embedded type pressure gauge or with a digital pressure switch.

Note 2) -5 to +50 °C for the products with the digital pressure switch.

Note 3) Under SMC test conditions. The B₁₀ figure is estimated from SMC life tests. The B_{10D} figure is derived from B₁₀ using the assumption in EN ISO 13849-1:2015 Annex C. Contact SMC for details.

2.1 Working Principle (Filter Regulator with Backflow Function)

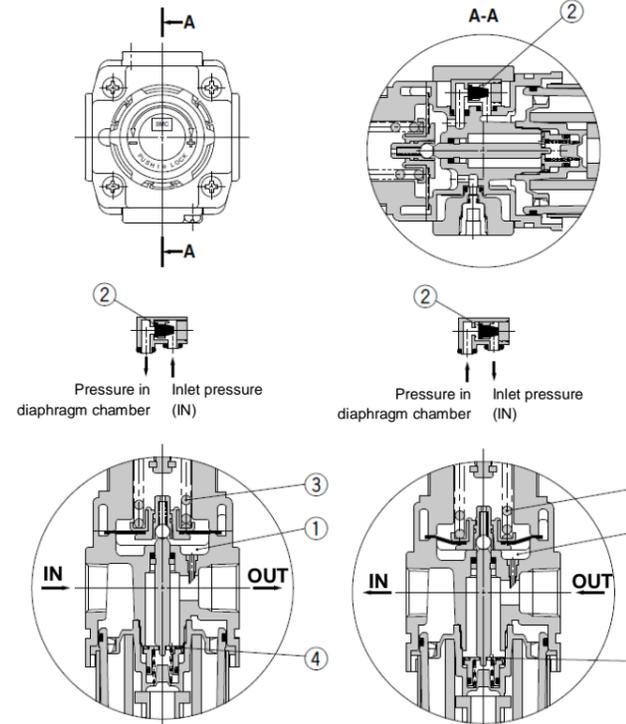


Figure 1 Normal

Figure 2 Backflow

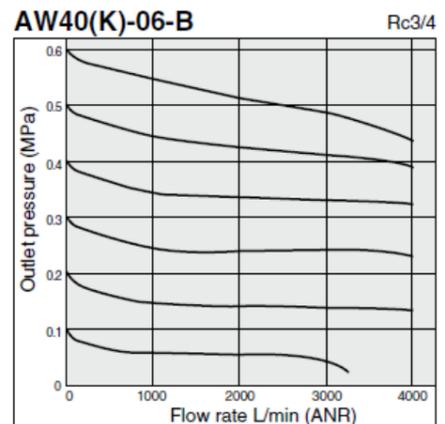
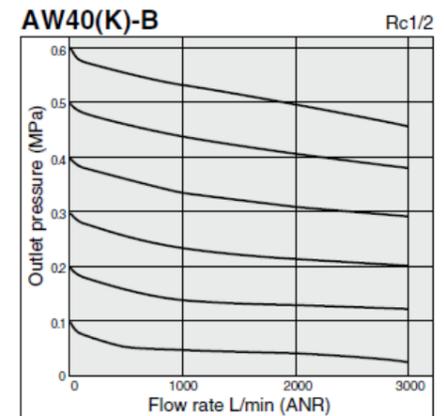
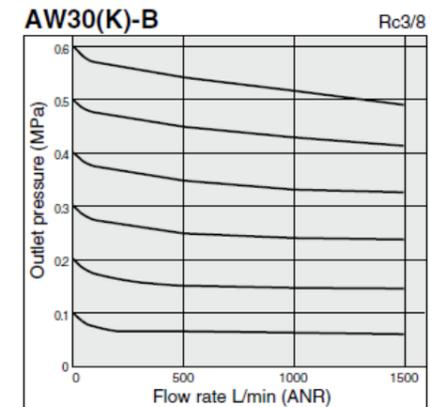
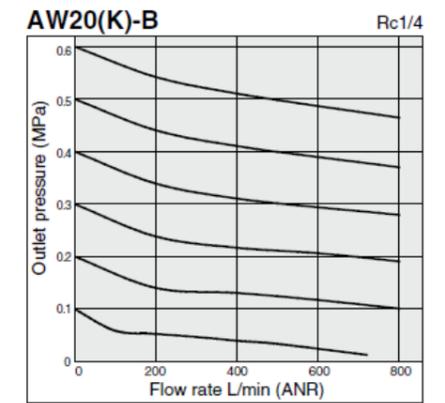
When the inlet pressure is higher than the regulating pressure, the check valve ② closes and operates as a normal regulator (Figure 1). When the inlet pressure is shut off and released, the check valve ② opens and the pressure in the diaphragm chamber ① is released to the inlet side (Figure 2). This lowers the pressure in the diaphragm chamber ① and the force generated by the pressure regulator spring ③ lifts the diaphragm. The valve ④ opens through the stem, and the outlet pressure is released to the inlet side (Figure 2).

2 Specifications – continued

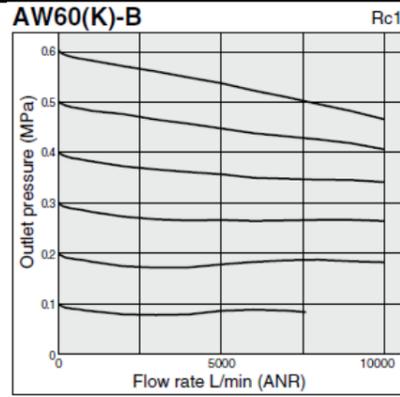
2.2 Flow characteristics

(Representative values)

Condition: Inlet pressure 0.7 MPa



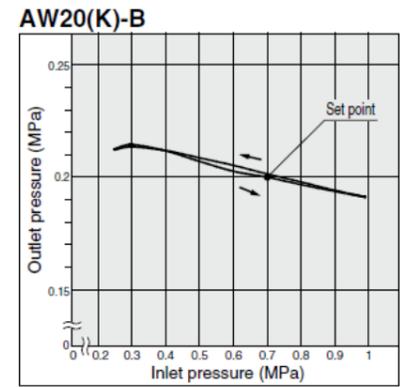
2 Specifications – continued



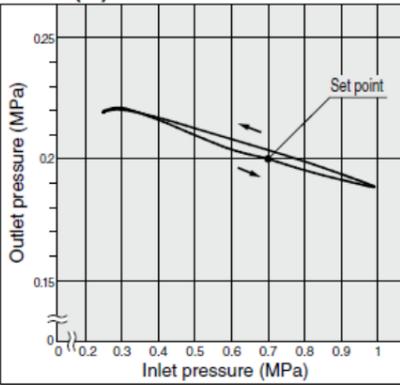
2.3 Pressure characteristics

(Representative values)

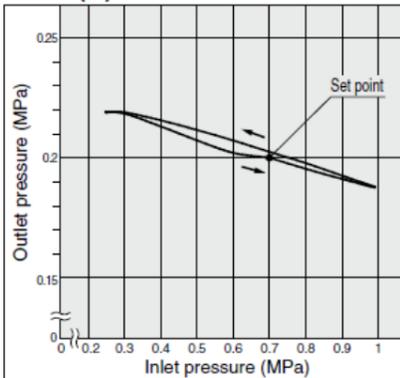
Conditions: Inlet pressure 0.7 MPa, Outlet pressure 0.2 MPa, Flow rate 20 l/min (ANR)



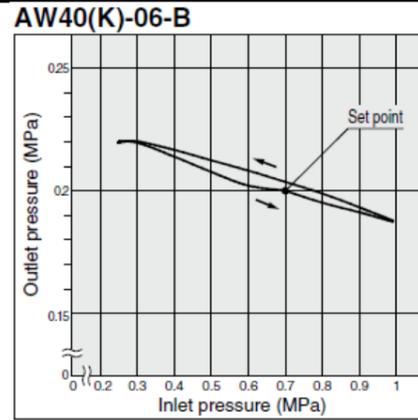
AW30(K)-B



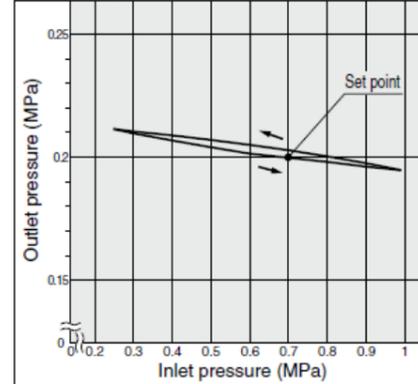
AW40(K)-B



2 Specifications – continued



AW60(K)-B



2.4 Port size and weight

Model	Port size	Weight (kg)
AW20-B	1/8, 1/4	0.20
AW30-B	1/4, 3/8	0.36
AW40-B	1/4, 3/8, 1/2	0.66
AW40-06-B	3/4	0.72
AW60-B	3/4, 1	2.05

Table 2

2.5 Design/Selection

Warning

- Residual pressure disposal (outlet pressure removal) is not possible for the AW20-B to AW60-B even though the inlet pressure is exhausted. When the residual pressure disposal is performed, use the filter regulator with backflow function (AW20K-B to AW60K-B).
- The standard bowl for the air filter, filter regulator, and lubricator 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.

2 Specifications – continued

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	
			Polycarbonate	Nylon
Acid	Hydrochloric acid Sulfuric acid Phosphoric acid Chromic acid	Acid washing liquid for metals	△	×
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	△	×
Oil	Gasoline Kerosene	-	×	○
Ester	Phthalic acid dimethyl Phthalic acid diethyl 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	×	×

Others	Thread-lock fluid Seawater Leak tester	-	×	△
○: Essentially safe △:Some effects may occur ×: Effects will occur				

Table 3

When the above factors are present, or there is some doubt, use a metal bowl for safety.

2.6 ON indicator

If the AW-B is equipped with a gauge, the gauge will indicate the presence of pressurised air.

Caution

Special products might have specifications different from those shown in this section. Contact SMC for specific drawings. These drawings will give the appropriate specification details and compliance with the safety principles of ISO 13849, if applicable.

3 Installation

3.1 Installation

Warning

Do not install the product unless the safety instructions have been read and understood.

3.2 Environment

Warning

- Do not use in an environment where corrosive gases, chemicals, salt water or steam are present.
- Do not use in an explosive atmosphere.
- Do not expose to direct sunlight. Use a suitable protective cover.
- Do not install in a location subject to vibration or impact. Check the product specifications.
- Do not mount in a location exposed to radiant heat.

3 Installation – continued

3.3 Piping

Caution

Before piping make sure to clean up chips, cutting oil, dust etc. When installing piping or fittings, ensure sealant material does not enter inside the port. When using seal tape, leave 1.5 to 2 threads exposed on the end of the pipe/fitting. Tighten fittings to the specified tightening torque.

3.4 Lubrication

Caution

SMC products have been lubricated for life at manufacture, and do not require lubrication in service. If a lubricant is used in the system, use turbine oil Class 1 (no additive), ISO VG32. Once lubricant is used in the system, lubrication must be continued because the original lubricant applied during manufacturing will be washed away.

3.5 Mounting/Adjustment

Warning

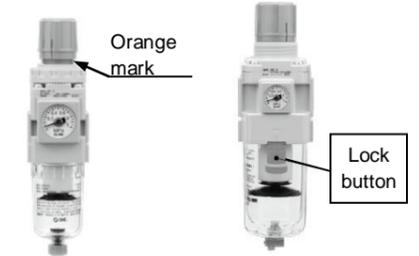
- Set the regulator while verifying the displayed values of the inlet and outlet pressure gauges. Turning the regulator knob excessively can cause damage to the internal parts.
- Do not use tools on the pressure regulator knob as this may cause damage. It must be operated manually.

Caution

- Be sure to unlock the knob before adjusting the pressure and lock it after setting the pressure. Failure to follow this procedure can cause damage to the knob and the outlet pressure may fluctuate.
 - Pull the pressure regulator knob to unlock. (You can visually verify this with the "orange mark" that appears in the gap.)
 - Push the pressure regulator knob to lock. When the knob is not easily locked, turn it left and right a little and then push it (when

the knob is locked, the "orange mark", i.e., the gap will disappear).

- A knob cover is available to prevent careless operation of the knob. Refer to the catalogue for details.
- When the bowl is installed on the AW30-B to AW60-B, 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.



4 How to Order

AW 30 K - 03 BE - B

1 2 3 4 5 6

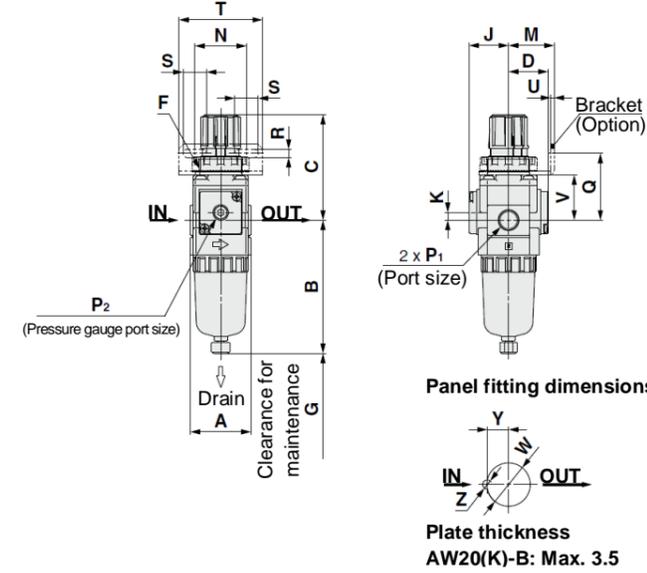
- Option/Semi-standard: Select one each for a to i
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order. (Example: AW30K-03BE-1N-B)

	Symbol	Description	Body size				
			20	30	40	60	
2	Nil	Without backflow function	●	●	●	●	
	K	With backflow function	●	●	●	●	
3	Nil	Rc	●	●	●	●	
	N	NPT	●	●	●	●	
	F	G	●	●	●	●	
4	01	1/8	●	●	●	●	
	02	1/4	●	●	●	●	
	03	3/8	●	●	●	●	
	04	1/2	●	●	●	●	
	06	3/4	●	●	●	●	
	10	1	●	●	●	●	
5	a	Nil	Without mounting option	●	●	●	●
		B	With bracket	●	●	●	●
		H	With set nut (for panel mount)	●	●	●	●
	b	Nil	Without auto drain	●	●	●	●
		C	N.C. (Normally closed) Drain port is closed when pressure is not applied.	●	●	●	●
		D	N.O. (Normally open) Drain port is open when pressure is not applied.	●	●	●	●
	c	Nil	Without pressure gauge	●	●	●	●
		E	Square embedded type pressure gauge (with limit indicator)	●	●	●	●
		G	Round type pressure gauge (with limit indicator)	●	●	●	●
		M	Round type pressure gauge (with colour zone)	●	●	●	●
Digital pressure switch	E1	Output: NPN output / Electrical entry: Wiring bottom entry	●	●	●	●	
	E2	Output: NPN output / Electrical entry: Wiring top entry	●	●	●	●	
	E3	Output: PNP output / Electrical entry: Wiring bottom entry	●	●	●	●	
	E4	Output: PNP output / Electrical entry: Wiring top entry	●	●	●	●	
6	d	Nil	0.05 to 0.85 MPa setting	●	●	●	●
		1	0.02 to 0.2 MPa setting	●	●	●	●
	e	Nil	Polycarbonate bowl	●	●	●	●
		2	Metal bowl	●	●	●	●
		6	Nylon bowl	●	●	●	●
		8	Metal bowl with level gauge	●	●	●	●
		C	With bowl guard	●	●	●	●
	6C	Nil	Nylon bowl with bowl guard	●	●	●	●
		1	With bowl guard	●	●	●	●
		2	Nylon bowl with bowl guard	●	●	●	●
f	Nil	With drain cock	●	●	●	●	
	J	Drain guide 1/8	●	●	●	●	
	W	Drain guide 1/4	●	●	●	●	
	W	Drain cock with barb fitting	●	●	●	●	
g	Nil	Relieving type	●	●	●	●	
	N	Non-relieving type	●	●	●	●	
h	Nil	Flow direction: Left to right	●	●	●	●	
	R	Flow direction: Right to left	●	●	●	●	
i	Nil	Name plate, caution plate for bowl, and pressure gauge in imperial units: MPa	○	○	○	○	
	Z	Name plate, caution plate for bowl, and pressure gauge in imperial units: psi, °F	○	○	○	○	
	ZA	Digital pressure switch: With unit conversion function	△	△	△	△	

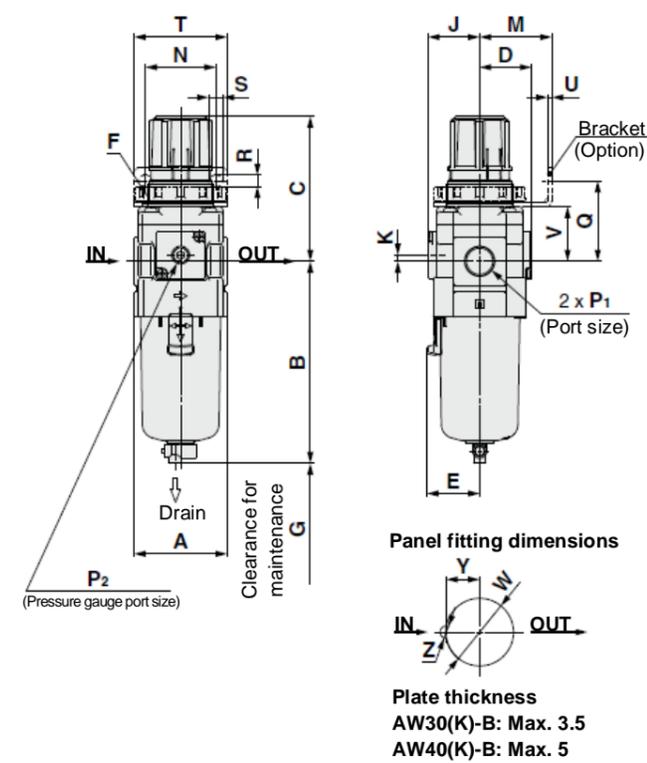
- Note 1) Set the inlet pressure to at least 0.05 MPa higher than the set pressure.
- Note 2) Drain guide is NPT1/8 (applicable to the AW20(K)-B) and NPT1/4 (applicable to the AW30(K)-B to AW60(K)-B). The auto drain port comes with Ø3/8" One-touch fitting (applicable to the AW30(K)-B to AW60(K)-B).
- Note 3) Drain guide is G1/8 (applicable to the AW20(K)-B) and G1/4 (applicable to the AW30(K)-B to AW60(K)-B).
- Note 4) Option B, G, H, M are not assembled and supplied loose at the time of shipment.
- Note 5) Assembly of a bracket and set nuts (applicable to the AW20(K)-B to AW40(K)-B). Including 2 mounting screws for the AW60(K)-B.
- Note 6) 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 7) If the compressor is small (0.75 kW, discharge flow is less than 100 /min [ANR]), air leakage from the drain cock may occur during start of operations. N.C. type is recommended.
- Note 8) When the pressure gauge is attached, a 1.0 MPa pressure gauge will be fitted for standard (0.85 MPa) type. 0.4 MPa pressure gauge for 0.2 MPa type.
- Note 9) When choosing with H (panel mount), the installation space for lead wires will not be secured. In this case, select "wiring top entry" for the electrical entry. (Select "wiring bottom entry" when the semi-standard Y is chosen simultaneously.)
- Note 10) Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.
- Note 11) Refer to Chemical data in the catalogue for chemical resistance of the bowl.
- Note 12) A bowl guard is provided as standard equipment (polycarbonate).
- Note 13) A bowl guard is provided as standard equipment (nylon).
- Note 14) The combination of float type auto drain: C and D is not available.
- Note 15) Without a valve function
- Note 16) The combination of metal bowl: 2 and 8 is not available.
- Note 17) For pipe 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.) Cannot be used with M: Round pressure gauge (with color zone). Available by request for special. The digital pressure switch will be equipped with the unit conversion function, setting to psi initially.
- Note 18) For options: E1, E2, E3, E4. This product is for overseas use only according to the new Measurement Law. (The SI unit is provided for use in Japan.)
- Note 19) ○: For pipe thread type: NPT only
- Note 20) △: Select with options: E1, E2, E3, E4.

5 Outline Dimensions (mm)

5.1 AW20(K)-B

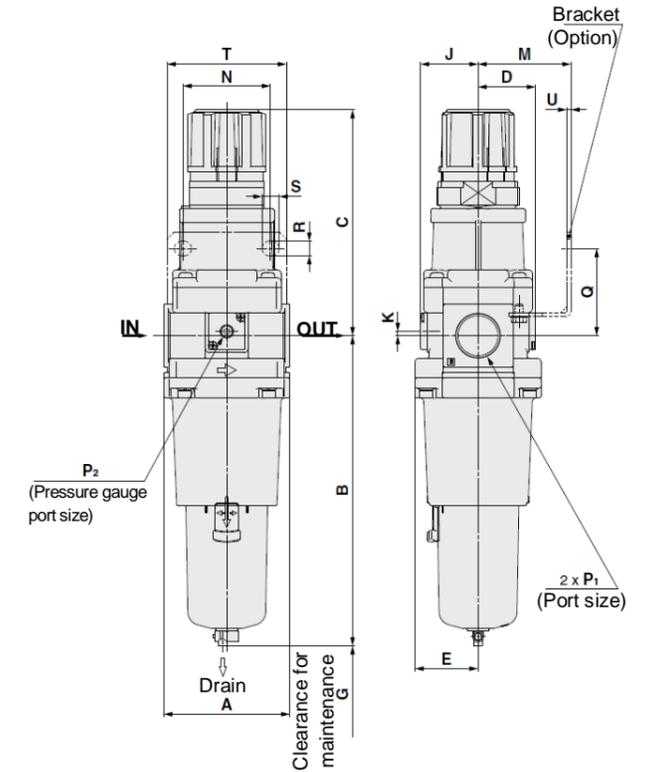


5.2 AW30(K)-B, AW40(K)-B



5 Outline Dimensions (mm) – continued

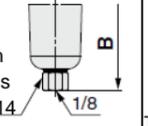
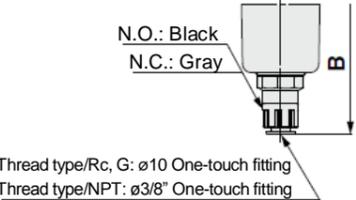
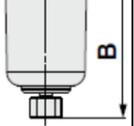
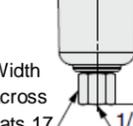
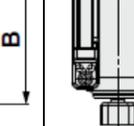
5.3 AW60(K)-B

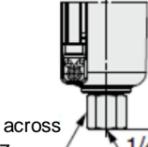
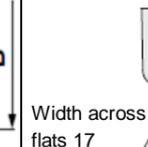
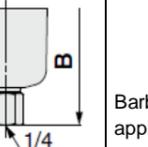


Option	Dimensions
Square embedded type pressure gauge	
Digital pressure switch	
Round type pressure gauge	
Round type pressure gauge (with colour zone)	

Applicable model	AW20(K)-B		
Optional/Semi-standard specifications	With auto drain (N.C.)	Metal bowl	With drain guide
Dimensions			

5 Outline dimensions (mm) – continued

Applicable model	AW20(K)-B	AW30(K)-B to AW60(K)-B			
Optional/Semi-standard specifications	Metal bowl with drain guide	With auto drain (N.O./N.C.)	Metal bowl	Metal bowl with drain guide	Metal bowl with level gauge
Dimensions					

Applicable model	AW30(K)-B to AW60(K)-B		
Optional/Semi-standard specifications	Metal bowl with level gauge, with drain guide	With drain guide	Drain cock with barb fitting
Dimensions			

Model	Standard specifications											Optional specifications							
												Square type pressure gauge		Digital pressure switch		Round type pressure gauge		Round type pressure gauge (with color zone)	
	P1	P2	A	B	C ^{Note)}	D	E	F	G	J	K	H	J	H	J	H	J	H	J
AW20(K)-B	1/8, 1/4	1/8	40	87.6	72.4	26	-	M28 x 1	40	26	5	□28	27	□27.8	37.5	∅37.5	62.5	∅37.5	63.5
AW30(K)-B	1/4, 3/8	1/8	53	115.1	85.6	29.4	30	M38 x 1.5	55	29.4	3.5	□28	30	□27.8	40.9	∅37.5	65.9	∅37.5	66.9
AW40(K)-B	1/4, 3/8, 1/2	1/8	70	147.1	91.7	37.3	38.4	M42 x 1.5	80	37.3	1.5	□28	38.4	□27.8	48.8	∅42.5	74.8	∅42.5	74.8
AW40(K)-06-B	3/4	1/8	75	149.1	93.2	37.3	38.4	M42 x 1.5	80	37.3	1.2	□28	38.4	□27.8	48.8	∅42.5	74.8	∅42.5	74.8
AW60(K)-B	3/4, 1	1/8	95	234.1	175.5	43.5	47.5	-	20	43.5	3.2	□28	44.3	□27.8	61.3	∅42.5	80.8	∅42.5	80.8

Model	Optional specifications											Semi-standard specifications							
	Bracket mount						Panel mount					With auto drain	With barb fitting	With drain guide	Metal bowl	Metal bowl with drain guide	Metal bowl with level gauge	Metal bowl with level gauge, with drain gauge	
	M	N	Q	R	S	T	U	V	W	Y	Z	B	B	B	B	B	B	B	
AW20(K)-B	30	34	43.9	5.4	15.4	55	2.3	29.7	28.5	14	6	104.9	-	91.4	87.4	93.9	-	-	
AW30(K)-B	41	40	45.8	6.5	8	53	2.3	31.1	38.5	19	7	156.8	123.6	121.9	117.6	122.1	137.6	142.1	
AW40(K)-B	50	54	54	8.5	10.5	70	2.3	35.5	42.5	21	7	186.9	155.6	153.9	149.6	154.1	169.6	174.1	
AW40(K)-06-B	50	54	55.5	8.5	10.5	70	2.3	37	42.5	21	7	188.9	157.6	155.9	151.6	156.1	171.6	176.1	
AW60(K)-B	70	66	65.8	11	13	90	3.2	-	-	-	-	273.9	240.9	242.6	236.6	241.1	256.6	261.1	

Note) The dimension of C is the length when the filter regulator knob is unlocked.

6 Maintenance

6.1 General Maintenance

Caution

Not following proper maintenance procedures could cause the product to malfunction and lead to equipment damage.

If handled improperly, compressed air can be dangerous. Maintenance of pneumatic systems should be performed only by qualified personnel. Before performing maintenance, turn off the power supply and be sure to cut off the supply pressure. Confirm that the air is released to atmosphere.

After installation and maintenance, apply operating pressure and power to the equipment and perform appropriate functional and leakage tests to make sure the equipment is installed correctly.

If any electrical connections are disturbed during maintenance, ensure they are reconnected correctly and safety checks are carried out as required to ensure continued compliance with applicable national regulations.

Do not make any modification to the product.

Do not disassemble the product, unless required by installation or maintenance instructions.

Warning

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

7 Limitations of Use

7.1 Limited warranty and Disclaimer/Compliance Requirements

- The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements". Read and accept them before using the product.

Limited warranty and Disclaimer

- The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first⁽¹⁾. Also, the product

may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.

- For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided.

This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.

- Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular products.

⁽¹⁾ Vacuum pads are excluded from this 1 year warranty.

A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

- The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.

- The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

Caution

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country.

Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

8 Contacts

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