Modular Type Filter Regulator AW Series

Filter Regulator AW Series	Model	Port size	Options
	AW10-A	M5 x 0.8	Bracket
	AW20-A	1/8, 1/4	Float type auto drain
	AW30-A	1/4, 3/8	Round type pressure gauge
* *	AW40-A	1/4, 3/8, 1/2	Set nut (for panel mount)*
P.468 to 479	AW40-06-A	3/4	* For AW20-A to AW40-06-A, panel fitting dimensions are different from those of the current AW series.

Made to Order

1	0.4 MPa Setting (-X406) The maximum set pressure is 0.4 MPa. When a pressure gauge is included, the display will show a range from 0 to 0.7 MPa.		
2	Long Bowl (-X64) Drain capacity is greater than that of standard models.	P.476 to 479	
3	0.85 MPa Setting (-X2068) The maximum set pressure is 0.85 MPa. When a pressure gauge is included, the display will show a range from 0 to 1.0 MPa.		[

AC-A

AF-A

AF□-A AR-A

AL-A

AW-A

AC-B

AF□-A

AR:å

AL-A

AW□

A□G

E

AV AF

Filter Regulator

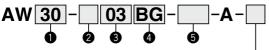
AW10-A to AW40-A

Symbol Filter Regulator



Integrated filter and regulator units save space and require less piping.

How to Order



- 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) AW30-03BG-1N-A

Made to Order

					(Refer to pages 476 to	to 479 for deta	ails.)		
	$\overline{}$							D	
	Symbol				Description	Body size			
					·	10	20	30	40
				l	Nil Metric thread (M5)		_		_
	<u> </u>						•	•	•
2 Pipe thread type		N Note 1)	NPT	_	•	•	•		
				F Note 2)	G	_	•	•	•
				+					
				M5	M5		_	_	_
				01	1/8	_	•	_	_
6			Port size	02	1/4		•	•	•
O		03 04			3/8	_	_	•	•
					1/2	_	_	_	•
				06	3/4				
		_		+					
				Nil	Without mounting option	•	•	•	•
		а	Mounting	B Note 4)	With bracket	•	•	•	•
				Н	With set nut (for panel mount)		•		•
	_			+			_		
	Option Note 3)		Float type auto drain	Nil	Without auto drain	•	•	•	•
A	ž	b		C Note 5)	N.C. (Normally closed) Drain port is closed when pressure is not applied.	_	•	•	•
•	oţi			D Note 6)	N.O. (Normally open) Drain port is open when pressure is not applied.		_		•
	ō			+					_
				Nil	Without pressure gauge	•	•	•	•
		С	Pressure	G	Round type pressure gauge (without limit indicator)	•			
			gauge Note 7)		Round type pressure gauge (with limit indicator)		•	•	•
				M	Round type pressure gauge (with color zone)		•		•
			0.1	+ Nil	0.05 to 0.7 MDs setting				
		d	Set pressure Note 8)	1	0.05 to 0.7 MPa setting			-	_
	-		pressule	+	0.02 to 0.2 MPa setting		•		
	Semi-standard			Nil	Polycarbonate bowl				
6	tan			2	Metal bowl				
V	i-s-it			6	Nylon bowl				-
	Ser	е	Bowl Note 9)	8	Metal bowl with level gauge		_		
	0)			C	With bowl guard		•	Note 10)	Note 10)
				6C	With bowl guard (Nylon bowl)	$-\equiv$		Note 11)	Note 11)
				00	With Down guard (Mylon Down)		•	I — 11 7 I	_ ' ' '

Filter Regulator AW10-A to AW40-A Series



AC-A AF-A AF□-A

AR-A AL-A

AW-A

AC-B

AF-A

AF□-A

AR:

AL-A

AW:

AW□

A□G

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A۷

AF

0 Symbol Description Body size 10 20 30 40 Nil With drain cock • Drain guide 1/8 J Note 13 Drain port Note 12) Drain guide 1/4 W Note 14 Drain cock with barb fitting (for ø6 x ø4 nylon tube) Semi-standard + Nil Exhaust Relieving type g 6 mechanism N Non-relieving type • + Nil • Flow direction: Left to right h Flow direction R Flow direction: Right to left • Name plate, caution plate for bowl, and pressure gauge in imperial units: MPa Nil Pressure unit O Note 16) O Note 16) Note 16) O Note 16) Name plate, caution plate for bowl, and pressure gauge in imperial units: psi, °F

Note 1) Drain guide is NPT1/8 (applicable to the AW20-A) and NPT1/4 (applicable to the AW30-A to AW40-A). The auto drain port comes with ø3/8" One-touch fitting (applicable to the AW30-A to AW40-A).

Note 2) Drain guide is G1/8 (applicable to the AW20-A) and G1/4 (applicable to the AW30-A to AW40-A).

Note 3) Option B, G, H, M are not assembled and supplied loose at the time of shipment.

Note 4) Assembly of a bracket and set nuts Note 5) 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 6) 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 7) When the pressure gauge is attached, a 1.0 MPa pressure gauge will be fitted for standard (0.7 MPa) type. 0.4 MPa pressure gauge for 0.2 MPa type (1.0 MPa pressure gauge only for the AW10-A).

Note 8) Pressure can be set higher than the specification pressure in some cases, but use

pressure within the specification range Note 9) Refer to Chemical data on page 471 for

chemical resistance of the bowl. Note 10) A bowl guard is provided as standard equipment (polycarbonate)

Note 11) A bowl guard is provided as standard equipment (nylon)

Note 12) The combination of float type auto drain: C and D is not available.

Note 13) Without a valve function

Note 14) The combination of metal bowl: 2 and 8 is not available.

Note 15) 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.

Note 16) O: For pipe thread type: M5, NPT only

Model	AW10-A	AW20-A	AW30-A	AW40-A	AW40-06-A		
Port size	M5 x 0.8	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4		
Pressure gauge port size	1/16 Note)		1,	/8			
Fluid	Air						
Ambient and fluid temperature	−5 to 60°C (with no freezing)						
Proof pressure	1.5 MPa						
Maximum operating pressure	1.0 MPa						
Set pressure range			0.05 to 0.7 MPa				
Nominal filtration rating			5 μm				
Drain capacity (cm³)	2.5	8	25	4	5		
Bowl material			Polycarbonate				
Bowl guard	Semi-standard (Steel) Standard (Polycarbonate)						
Construction			Relieving type				
Weight (kg)	0.09	0.21	0.41	0.75	0.81		

Note) Use a bushing (part no: 131368) when connecting the R1/8 pressure gauge to the Rc1/16.



AW10-A to AW40-A Series

Options/Part No.

	Optional specifications			Model					
				AW20-A	AW30-A	AW40-A	AW40-06-A		
Bracket a	Bracket assembly Note 1)		AR12P-270AS	AR22P-270AS	AR32P-270AS	AR42P-270AS			
Set nut	Set nut		AR12P-260S	AR22P-260S	AR32P-260S	AR42F	P-260S		
	Daniel Anna	Standard	G27-10-R1	G36-10-□01 G36-4-□01		G46-10-□01			
Pressure Note 2)	Round type	0.02 to 0.2 MPa setting	G27-10-R1 Note 3)			G46-4-□01			
gauge	Round type	Standard	_	G36-10-□01-L		G46-10-□01-L			
	(with color zone)	0.02 to 0.2 MPa setting	_	G36-4-	.□01-L	G46-4-□01-L			

Note 1) Assembly of a bracket and set nuts

Bowl Assembly/Part No.

Bowl Drain						Model		
material	discharge mechanism	Drain port	Other	AW10-A	AW20-A	AW30-A	AW40-A	AW40-06-A
		With drain cock	_	C1SF-A	C2SF-A	_	_	-
	Manual	Willi diaili cock	With bowl guard	_	C2SF-C-A	C3SF-A	C4SF-A	
	discharge	Drain cock with barb fitting	With bowl guard	_	_	C3SF-W-A	C4SF	-W-A
Polycarbonate	discriarge	With drain guide	_	_	C2SF□-J-A	_	_	-
bowl		(without valve function)	With bowl guard	_	C2SF□-CJ-A	C3SF□-J-A	C4SF	⊒-J-A
	Automatic	Name all calana d (N. C.)	_	AD17-A	AD27-A	_	_	-
	discharge Note)	Normally closed (N.C.)	With bowl guard	_	AD27-C-A	AD37□-A	AD47	′□-A
	(Auto drain)	Normally open (N.O.)	With bowl guard	_	_	AD38□-A	AD48	B□-A
	Manual discharge	With drain cock	_	C1SF-6-A	C2SF-6-A	_	_	
		with drain cock	With bowl guard	_	C2SF-6C-A	C3SF-6-A	C4SF	-6-A
		Drain cock with barb fitting	With bowl guard	_	_	C3SF-6W-A	C4SF-	6W-A
Nylon bowl		With drain guide	_	_	C2SF□-6J-A	_	_	
INVIORI DOWI		(without valve function)	With bowl guard	_	C2SF□-6CJ-A	C3SF□-6J-A	C4SF]-6J-A
	Automatic		_	AD17-6-A	AD27-6-A	_	_	-
	discharge Note)		With bowl guard	_	AD27-6C-A	AD37□-6-A	AD47	⊒-6-A
	(Auto drain)	Normally open (N.O.)	With bowl guard	_	_	AD38□-6-A	AD48	□-6-A
		With drain cock	_	C1SF-2-A	C2SF-2-A	C3SF-2-A	C4SF	-2-A
	Manual	Willi diaili cock	With level gauge	_	_	C3LF-8-A	C4LF	-8-A
	discharge	With drain guide	_	_	C2SF□-2J-A	C3SF□-2J-A	C4SF]-2J-A
Metal bowl		(without valve function)	With level gauge	_	_	C3LF□-8J-A	C4LF]-8J-A
IVIELAI DOWI		Normally closed (N.C.)	_	AD17-2-A	AD27-2-A	AD37□-2-A	AD47	□-2-A
	Automatic discharge Note)	INOTHIAIIY CIOSED (N.C.)	With level gauge			AD37□-8-A	AD47	□-8-A
	(Auto drain)	Normally open (N.O.)	_	_	_	AD38□-2-A	AD48	□-2-A
	(.a.o aranı)	INOTHIANY OPEN (N.O.)	With level gauge	_	_	AD38□-8-A	AD48	□-8-A

Note) Minimum operating pressure: N.O. type-0.1 MPa (AD38-A, AD48-A); N.C. type-0.1 MPa (AD17-A, AD27-A) and 0.15 MPa (AD37-A, AD47-A).

Note 2) in round pressure gauge part numbers indicates a pipe thread type. No indication is necessary for R; however, indicate N for NPT.

Please contact SMC regarding the pipe thread type NPT and the supply of pressure gauge with psi unit display specifications.

Note 3) Standard pressure gauge

Bowl assembly for the AW10-A to AW40-06-A models comes with a bowl seal.

in bowl assembly part numbers indicates a pipe thread type (applicable tubing for auto drain).

No indication is necessary for Rc thread; however, indicate N for NPT thread, and F for G thread. (For auto drain, Nil: ø10, N: ø3/8")

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

Filter Regulator AW10-A to AW40-A Series

⚠ Specific Product Precautions

I Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 387 I to 391 for F.R.L. Precautions.

Design/Selection

⚠ Warning

- 1. Although exhaust of the residual pressure to the inlet side is possible when eliminating the inlet pressure, exhaust is not possible when the set pressure is 0.15 MPa or less. Use the regulator with backflow function.
- 2. The standard bowl for the air filter, filter regulator, and lubricator, as well as the sight dome for the 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.

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	Mate	erial		
Type	Chemical name	Application examples	Polycarbonate	Nylon
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	×	0
Inorganic salts	Sodium sulfide Sulfate of potash Sulfate of soda	_	×	Δ
Chlorine solvents	Carbon tetrachloride Chloroform Ethylene chloride Methylene chloride	Cleansing liquid for metals Printing ink Dilution	×	Δ
Aromatic series	Benzene Toluene Paint thinner	Coatings Dry cleaning	×	Δ
Ketone	Acetone Methyl ethyl ketone Cyclohexane	Photographic film Dry cleaning Textile industries	×	×
Alcohol	Ethyl alcohol IPA Methyl alcohol	Antifreeze Adhesives	Δ	×
Oil	Gasoline Kerosene	_	×	0
Ester	Phthalic acid dimethyl Phthalic acid diethyl Acetic acid	Synthetic oil Anti-rust additives	×	0
Ether	Methyl ether Ethyl ether	Brake oil additives	×	0
Amino	Methyl amino	Cutting oil Brake oil additives Rubber accelerator	×	×
Others	Thread-lock fluid Seawater Leak tester	_	×	Δ

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

O: Essentially safe A: Some effects may occur. X: Effects will occur.

Maintenance

Marning

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/Adjustment

∕!\ Warning

- 1. 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.
- 2. Do not use tools on the pressure regulator knob as this may cause damage. It must be operated manually.

∕∖\ Caution

- 1. 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).
- 2. Pulsation will be generated when the difference between the inlet and the outlet pressure is large. In this case, reduce the pressure difference between the inlet and the outlet. Please consult with SMC if the pulsation problem is not resolved.
- 3. When the bowl is installed on the AW30-A/AW40-A, 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.





AC-A AF-A

AF□-A

AR-A

AL-A

AW-A

AC-B

AF-A

AR:

AL-A

AW:

AW

 $A \square G$

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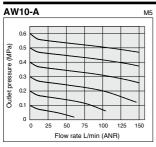
AF

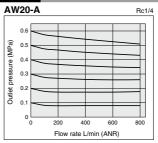


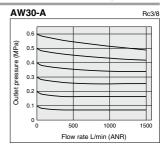
AW10-A to AW40-A Series

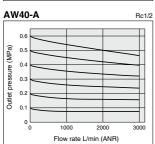
Flow Rate Characteristics (Representative values)

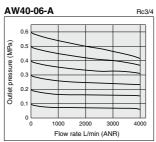
Condition: Inlet pressure 0.7 MPa





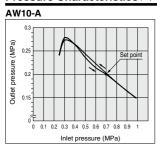


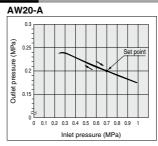


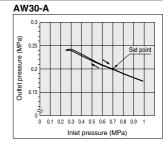


Pressure Characteristics (Representative values)

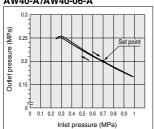
Conditions: Inlet pressure 0.7 MPa, Outlet pressure 0.2 MPa, Flow rate 20 L/min (ANR)







AW40-A/AW40-06-A



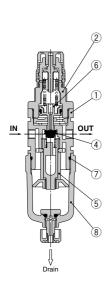
Filter Regulator AW10-A to AW40-A Series

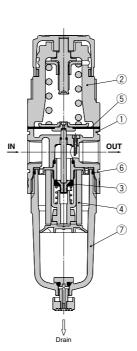
Construction

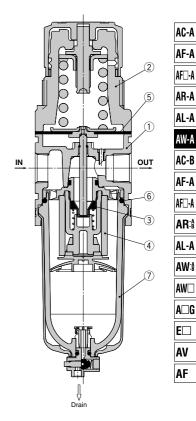
AW10-A



AW30-A to AW40-06-A







	COII	iponeni Paris			
	No.	Description	Material	Model	Color
	1	Body	Zinc die-cast	lie-cast AW10-A White	
		воау	Aluminum die-cast	AW20-A to AW40-06-A	vvnite
	2	Bonnet	Polyacetal	AW10-A to AW40-06-A	White

Replacement Parts

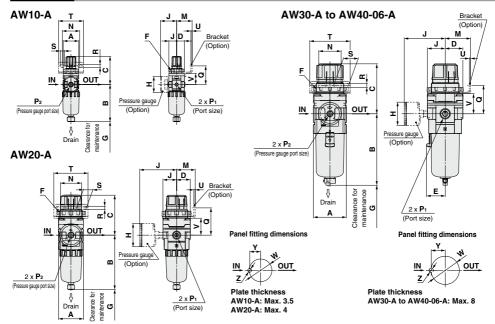
Hep	epiacement i arts										
No.	Description	Material	Part no.								
INO.	Description	Material	AW10-A	AW20-A	AW30-A	AW40-A	AW40-06-A				
3	Valve assembly	Stainless steel, HNBR	AR10P-090S	AW22P-060AS	AW32P-060AS	AW42P-060AS					
4	Filter element	Non-woven fabric	AF10P-060S	AF20P-060S	AF30P-060S	AF40P-060S					
5	Diaphragm assembly	Weatherable NBR	AR10P-150AS Note 1)	AR22P-150AS	AR32P-150AS	AR42P-150AS					
6	Bowl seal	NBR	C1SFP-260S	C2SFP-260S	C32FP-260S	C42FP-260S					
7	Bowl assembly Note 2)	Polycarbonate	C1SF-A	C2SF-A	C3SF-A	C4SF-A					

Note 1) The AW10-A is a piston type. Assembly of a piston and a seal (KSYP-13).

Note 2) Bowl seal is included for the AW20-A to AW40-06-A. Please contact SMC regarding the supply of bowl assembly with psi and °F unit display specifications.

AW10-A to AW40-A Series

Dimensions



Applicable model	AW10-A/A	AW20-A	AW	20-A	AW30-A to AW40-06-A
Optional/Semi-standard specifications	With auto drain (N.C.)	Metal bowl	With drain guide	Metal bowl with drain guide	With auto drain (N.O./N.C.)
Dimensions	M5 x 0.8	B	Width across flats 14 1/8	Width across flats 14	N.O.: Black N.C.: Gray Thread type/Rc, G: #10 One-louch fitting Thread type/NPT: #38" One-touch fitting

Applicable model			AV	/30-A to AW40-06-A		
Optional/Semi-standard specifications	Metal bowl	Metal bowl with drain guide	Metal bowl with level gauge	Metal bowl with level gauge, with drain guide	With drain guide	Drain cock with barb fitting
Dimensions	a	Width across flats 17		Width across flats 17	Width across flats 17	Barb fitting applicable tubing: T0604

Model	Standard specifications									Optional specifications				
		Ottalidad Specifications										Round type pressure gauge Round type pressure gauge (with color zon		
	P1	P ₂	Α	В	C Note)	D	E	F	G	J	Н	J	Н	J
AW10-A	M5 x 0.8	1/16	25	59.9	47.4	12.5	_	M18 x 1	25	12.5	ø26	26	_	
AW20-A	1/8, 1/4	1/8	40	87.6	67.4	22	_	M36 x 1.5	25	22	ø37.5	58.5	ø37.5	59.5
AW30-A	1/4, 3/8	1/8	53	115.1	83.5	28.5	30	M45 x 1.5	35	28.5	ø37.5	65	ø37.5	66
AW40-A	1/4, 3/8, 1/2	1/8	70	147.1	100	34.5	38.4	M52 x 1.5	40	34.5	ø42.5	72	ø42.5	72
AW40-06-A	3/4	1/8	75	149.1	101.5	34.5	38.4	M52 x 1.5	40	34.5	ø42.5	72	ø42.5	72

	Optional specifications												Semi-standard specifications					
Model	Bracket mount						Panel mount With auto			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 guide		
	M	N	Q	R	S	Т	U	٧	W	Υ	Z	В	В	В	В	В	В	В
AW10-A	25	28	30	4.5	6.5	40	2	18	18.5	_	_	77.9	_	_	59.3	_	_	_
AW20-A	30	34	43.9	5.4	15.4	55	2.3	27.3	36.5	17.5	6	104.9	_	91.4	87.4	93.9	_	_
AW30-A	41	36	46	6.5	24	65	2.3	32.5	45.5	22.5	7	156.8	123.6	121.9	117.6	122.1	137.6	142.1
AW40-A	50	38	54	8.5	26.5	70	2.3	38.4	52.5	26	7	186.9	155.6	153.9	149.6	154.1	169.6	174.1
AW40-06-A	50	38	55.5	8.5	26.5	70	2.3	39.9	52.5	26	7	188.9	157.6	155.9	151.6	156.1	171.6	176.1

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

Filter Regulator/AW20-A to AW40-06-A **Made to Order**

e contact SMC for detailed dimensions, specifications and lead times.



1 0.4 MPa Setting

The setting specification is 0.4 MPa. When a pressure gauge is included, the display will show a range from 0 to 0.7 MPa.

Specifications

Proof pressure	1.5 MPa			
Maximum operating pressure	1.0 MPa			
Set pressure range Note 1)	0.05 to 0.4 MPa			

Note 1) Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.

Applicable Model

Model	AW20-A	AW30-A	AW40-A	AW40-06-A
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4

2 Long Bowl

Drain capacity is greater than that of standard models.

Applicable Model/Drain Capacity

Model	AW20-A	AW30-A	AW40-A	AW40-06-A	
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4	
Drain capacity (cm3)	19	43	88		
B dimension (mm) Note)	108.6	137.1	167.2	169.2	

Note) For polycarbonate bowls. Please contact SMC for other bowl materials.

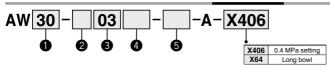
AW20-A



AW30 to 40-06-A

m

How to Order



• Or	otion/	Semi-	standard: Select one ea standard symbol: When W30-03BG- <u>2N</u> -A-X4	more than	one specification is required, indicate in alphanumeric order.	0.4	MPa Set	ting	Long Bowl		
_	_	Symbol		Symbol Description			Body size		Body size		
						20	30	40	20	30	40
				Nil	Rc	•	•	•	•	•	•
2		Pip	e thread type	N Note 2)	NPT	•	•	•	•	•	•
				F Note 3)	G	•	•	•	•	•	•
				+							
				01	1/8	•	_	_		_	_
				02	1/4	•	•	•	•	•	•
8			Port size	03	3/8	_	•	•	_	•	•
				04	1/2	_	_	•	_	_	•
					3/4	_	_	•	_	_	•
				+							
				Nil	Without mounting option	•	•	•	•	•	•
		а	Mounting	B Note 5)	With bracket	•	•	•	•	•	•
				Н	With set nut (for panel mount)	•	•	•	•	•	•
	£			+							
	Note		Floor turns	Nil	Without auto drain	•	•	•	_	_	
4	on	b	Float type auto drain	C Note 6)	Float type auto drain (N.C.)	•	•	•			
	Option Note 4)		auto urani	D Note 7)	Float type auto drain (N.O.)	_	•	•	_	_	—
				+							
				Nil	Without pressure gauge	•	•	•	•	•	•
		С	Pressure gauge	G	Round type pressure gauge (with limit indicator)	•	•	•	Note 8)	Note 8)	Note 8
				M	Round type pressure gauge (with color zone)	•	•	•	Note 8)	Note 8)	Note 8

The auto drain port comes with ø3/8" One-touch fitting (applicable to the AW30-A to AW40-A). Note 3) Drain guide is G1/8 (applicable to the AW20-A) and G1/4 (applicable to the AW30-A to AW40-A).

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

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 L/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 (0.7 MPa) type. 0.4 MPa pressure gauge for 0.2 MPa type.



Made to Order AW20-A to AW40-06-A Series

0.4 MPa Setting Long Bowl 0 0 Symbol Description Body size Body size 20 30 40 20 30 40 Nil 0.05 to 0.7 MPa setting Set d pressure Note 9) 0.02 to 0.2 MPa setting 1 + Nil Polycarbonate bowl Metal bowl 2 6 Nylon bowl • • e Bowl Note 10) 8 Metal bowl with level gauge • С With bowl guard 6C __ Note 13) ____ Note 13) With bowl guard (Nylon bowl) Semi-standard + Nil With drain cock 6 Drain guide 1/8 • • f Drain port Drain guide 1/4 W Note 15 Drain cock with barb fitting (for ø6 x ø4 nylon tube) + Nil Relieving type Exhaust g mechanism N Non-relieving type + Nil Flow direction: Left to right h Flow direction R Flow direction: Right to left Nil Name plate and caution plate for bowl in imperial units: MPa i Pressure unit Note 17) Note 17) Z Note 16) Name plate and caution plate for bowl in imperial units: psi, °F

Note 9) Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.

Note 10) Refer to Chemical data on page 471 for chemical resistance of the bowl.

Note 11) The combination of float type auto drain: C and D is not available.

Note 12) A bowl guard is provided as standard equipment (polycarbonate).

Note 13) A bowl guard is provided as standard equipment (polycar Note 13) A bowl guard is provided as standard equipment (nylon).

Note 14) Without a valve function

Note 15) The combination of metal bowl: 2 and 8 is not available.

Note 16) 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.

Note 17) O: For pipe thread type: NPT only

AC-A
AF-A
AR-A
AL-A
AC-B
AF-A
AR-B
AR-B
AL-A

AW:

AW□

A∏G

|E□

A۷

AF

Filter Regulator/AW20-A to AW40-06-A **Made to Order**





3 0.85 MPa Setting

The maximum set pressure is 0.85 MPa. When a pressure gauge is included, the display will show a range from 0 to 1.0 MPa.

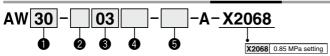
Specifications

Proof pressure	1.5 MPa
Maximum operating pressure	1.0 MPa
Set pressure range	0.05 to 0.85 MPa

Applicable Model

Model	AW20-A	AW30-A	AW40-A	AW40-06-A
Port size	1/8, 1/4	1/4. 3/8	1/4. 3/8. 1/2	3/4

How to Order



• 0	ption/S	Semi-	standard: Select one standard symbol: Wh W30-03BG- <u>2N</u> -A-X	en more than	n. one specification is required, indicate in alphanumeric order.	0.85	MPa Se	etting
		_		Symbol	Description	20	Body size	40
	_					20	30	40
_				Nil	Rc		•	•
2	Pipe thread type			N Note 1)	NPT	•	•	•
				F Note 2)	G	•	•	•
				+				
				01	1/8	•	_	_
				02	1/4	•	•	•
6			Port size	03	3/8	_	•	•
				04	1/2	_	_	•
				06	3/4	_	_	•
				+				
				Nil	Without mounting option	•	•	•
		а	Mounting	B Note 4)	With bracket	•	•	•
				Н	With set nut (for panel mount)	•	•	•
				+				
	Option Note 3)	П		Nil	Without auto drain	•	•	•
A	n N	b	Float type	C Note 5)	Float type auto drain (N.C.)	•	•	•
_	ptio		auto drain	D Note 6)	Float type auto drain (N.O.)			
	0	_						

Note 1) Drain guide is NPT1/8 (applicable to the AW20-A) and NPT1/4 (applicable to the AW30-A to AW40-A).

The auto drain port comes with ø3/8" One-touch fitting (applicable to the AW30-A to AW40-A).

Note 2) Drain guide is G1/8 (applicable to the AW20-A) and G1/4 (applicable to the AW30-A to AW40-A).

Nil

Note 3) Option B, G, H, M are not assembled and supplied loose at the time of shipment. Note 4) Assembly of a bracket and set nuts

Pressure gauge

Note 5) When pressure is not applied, condensate which does not start the auto drain mechanism will be left in the bowl.

Without pressure gauge

Releasing the residual condensate before ending operations for the day is recommended.

Note 6) 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.

Round type pressure gauge (with limit indicator) Round type pressure gauge (with color zone)



Made to Order AW20-A to AW40-06-A Series

AC-A AF-A

AF□-A AR-A

AL-A

AW-A

AC-B AF-A

AF□-A

AR:A

AL-A

AW:₿ AW□

A□G

IE□

A۷ AF

0.85 MPa Setting

							_	
	_							
				Symbol	Description		Body size	
						20	30	40
				Nil	Polycarbonate bowl	•	•	
				2	Metal bowl	•	•	•
				6	Nylon bowl	•	•	•
		d	Bowl Note 7)	8	Metal bowl with level gauge	_	•	•
				C	With bowl guard	•		
				6C	With bowl guard (Nylon bowl)	•	_	_
	i			+		·		
	-			Nil	With drain cock	•	•	•
	Semi-standard		Note 8)	Note 9)	Drain guide 1/8	•	_	_
	and	е	Drain port	J Note 8)	Drain guide 1/4	_	•	•
6	i-st			W Note 10)	Drain cock with barb fitting (for ø6 x ø4 nylon tube)	_	•	•
	eп							
	o)	f	Exhaust	Nil	Relieving type	•	•	•
		1'1	mechanism	N	Non-relieving type	•	•	•
				+				
			Flow direction	Nil	Flow direction: Left to right	•	•	•
		g	riow direction	R	Flow direction: Right to left	•	•	•
				+				
		_	Dunnait	Nil	Name plate and caution plate for bowl in imperial units: MPa	•	•	•
		h	Pressure unit	Z Note 11)	Name plate and caution plate for bowl in imperial units: psi, °F	O Note 12)	O Note 12)	O Note 12)

Note 7) Refer to Chemical data on page 471 for chemical resistance of the bowl.

Note 8) The combination of float type auto drain: C and D is not available

Note 9) Without a valve function

Note 10) The combination of metal bowl: 2 and 8 is not available.

Note 11) 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.

Note 12) O: For pipe thread type: NPT only