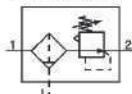
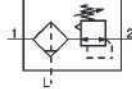


Symbol

Filter Regulator

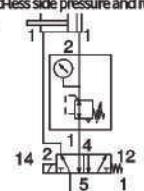


Filter Regulator with Backflow Function

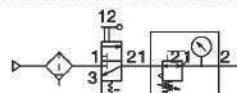


• Models with the backflow function include a mechanism which allows for the air pressure in the outlet side to be released to the inlet side.

Note1) When the rod-less side pressure and rod-side pressure of the cylinder are different.



Note2) When the air supply is cut off and releasing the inlet pressure to the atmosphere, the residual pressure release of the outlet side can be ensured for a safety purpose.


Ordersymbol
AW30K-03BE-B

- Option/Semi-standard: Select one each for 1 to 6
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order. Example) AW30K-03BE-1N-B

	Symbol	Description	1																	
			20	30	40	45	50	60												
②	With backflowfunction	<table border="1"> <tr> <td>Nil</td><td>Without backflow function</td></tr> <tr> <td>K</td><td>With backflow function</td></tr> </table>	Nil	Without backflow function	K	With backflow function	●	●	●	●	●	●								
Nil	Without backflow function																			
K	With backflow function																			
	+		●	●	●	●	●	●												
③	Pipethread type	<table border="1"> <tr> <td>Rc</td><td></td></tr> <tr> <td>N</td><td>NPT</td></tr> <tr> <td>F</td><td>G</td></tr> </table>	Rc		N	NPT	F	G	●	●	●	●	●	●						
Rc																				
N	NPT																			
F	G																			
	+		●	●	●	●	●	●												
④	Port size	<table border="1"> <tr> <td>01</td><td>1/8</td></tr> <tr> <td>02</td><td>1/4</td></tr> <tr> <td>03</td><td>3/8</td></tr> <tr> <td>04</td><td>1/2</td></tr> <tr> <td>06</td><td>3/4</td></tr> <tr> <td>10</td><td>1</td></tr> </table>	01	1/8	02	1/4	03	3/8	04	1/2	06	3/4	10	1	●	—	—	—	—	—
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)	●	●	—	—	—												
	+		●	●	●	●	●	●												
⑤	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.	—	●	●	●	●												
	+		●	●	●	●	●	●												
⑤	c	Nil	Without pressure gauge	●	●	●	●	●												
		E	Square embedded type pressure gauge (with limit indicator)	●	●	●	●	●												
		G	Round type pressure gauge (without limit indicator)	●	●	●	●	●												
	+		●	●	●	●	●	●												
⑤	c	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	●	●	●	●	●												
	+		●	●	●	●	●	●												
⑥	d	Nil	0.05 ~ 0.85 MPa setting	●	●	●	●	●												
		1	0.02 ~ 0.2 MPa setting	●	●	●	●	●												
		+		●	●	●	●	●												
⑥	e	Nil	Polycarbonate bowl	●	●	●	●	●												
		2	Metal bowl	●	●	●	●	●												
		8	Metal bowl with level gauge	—	●	●	●	●												
	+		●	●	●	●	●	●												
⑥	f	Nil	With bowl guard	●	●	●	●	●												
		J	Drain guide 1/8	●	—	—	—	—												
		W	Drain cock with barb fitting	—	●	●	●	●												
	+		●	●	●	●	●	●												
⑥	g	Nil	Relieving type	●	●	●	●	●												
		N	Non-relieving type	●	●	●	●	●												
		+		●	●	●	●	●												
⑥	h	Nil	Flow direction: Left to right	●	●	●	●	●												
		R	Flow direction: Right to left	●	●	●	●	●												

Commonspecification

Model	AW20-B	AW30-B	AW40-B	AW45-B	AW60-B
Port size	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/4, 1	3/4, 1
Pressure gauge port size¹			1/8		
Fluid			Air		
Ambient and fluid temperature²			−5 to 60°C (with no freezing)		
Proof pressure			1.5 MPa		
Maximum operating pressure			1.0 MPa		
Set pressure range			0.05 ~ 0.85 MPa		
Nominal filtration rating			5 µm		
Drain capacity (cm³)	8	25		45	
Bowl material			Polycarbonate		
Bowl guard	Semi-standard (Steel)		Standard (Polycarbonate)		
Construction			Relieving type		
Weight (kg)	0.20	0.36	0.66	0.72	2.05

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.

² −5 to 50°C for the products with the digital pressure switch

Cup assembly type

Bowl material	Drain discharge mechanism	Drain port	Other	Model				
				AW20-B	AW30-B	AW40-B	AW45-B	AW60-B
Polycarbonate	Manual	With drain cock	—	C2SF-A	—	—	—	—
		With bowl guard	C2SF-C-A	C3SF-A		C4SF-A		
		Drain cock with barb fitting	With bowl guard	—	C3SF-W-A		C4SF-W-A	
		With drain guide (without valve function)	—	C2SF□-J-A	—	—	—	—
	Automatic ¹ (Auto drain)	With drain guide (without valve function)	With bowl guard	C2SF□-CJ-A	C3SF□-J-A		C4SF□-J-A	
		Normally closed (N.C.)	—	AD27-A	—	—	—	—
		With bowl guard	AD27-C-A	AD37□-A	AD37□-A	AD47□-A		
		Normally open (N.O.)	With bowl guard	—	AD38□-A	AD48□-A	AD48□-A	AD48□-A
Metal	Manual	With drain cock	—	C2SF-2-A	C3SF-2-A	C4SF-2-A	C4SF-2-A	C4SF-2-A
		With level gauge	—	—	C3LF-8-A	C4LF-8-A	C4LF-8-A	C4LF-8-A
		With drain guide (without valve function)	—	C2SF□-2J-A	C3SF□-2J-A	C4SF□-2J-A	C4SF□-2J-A	C4SF□-2J-A
		With level gauge	—	—	C3LF□-8J-A	C4LF□-8J-A	C4LF□-8J-A	C4LF□-8J-A
	Automatic ¹ (Auto drain)	Normally closed (N.C.)	—	AD27-2-A	AD37□-2-A	AD47□-2-A	AD47□-2-A	AD47□-2-A
		With level gauge	—	—	AD37□-8-A	AD47□-8-A	AD47□-8-A	AD47□-8-A
		Normally open (N.O.)	—	—	AD88□-2-A	AD48□-2-A	AD48□-2-A	AD48□-2-A
		With level gauge	—	—	AD38□-8-A	AD48□-8-A	AD48□-8-A	AD48□-8-A

¹ Minimum operating pressure: N.O. type~0.1 MPa (AD38-A, AD48-A); N.C. type~0.1 MPa (AD27-A) and 0.15 MPa (AD37-A, AD47-A).

Bowl assembly 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 N-f unit display specifications.

Flow characteristics (Representative values)

Condition: Inlet pressure 0.7 MPa

