AW 20K-FO2CE-H

Filter Regulator AW20K

0-6.8.01-C



TECHNICAL DATA

With backflow fu	unction	YES					
Thread type		G 1/8					
Port Size		1/4					
Float type auto (drain Floa	nt type auto drain					
	N.C. type	e-0.1 MPa (AD27)					
Pressure gauge	Squar	e embedded type					
	, pres	sure gauge (with					
		limit indicator)					
	Material	Color					
Body	Zinc die-cast	Platinum Silver					
Bonnet	Polyacetal	Black					
Port Size		1/4					
Pressure gauge	port size	1/8					
Fluid		Air					
Ambient and flui	id temperature	-5 to 60°C					
Proof pressure		1.5 MPa					
Maximum opera	ting pressure	1.0 MPa					
Set pressure ran	ge	0.05 to 0.85 MPa					
Relief pressure	Set pre	Set pressure + 0.05 MPa					
	at relie	of flow rate of 0.1					
Nominal filtratio	n rating						
Drain capacity (c	:m³)	8					
Bowl material		Polycarbonate					
Optional Re	placeable with Ny	lon bowl part no.					
		AD27-6					
Bowl guard		Semi-standard					
Construction		Relieving type					
Mass (kg)		0.32					

Resistan to oil mist. (AW20K-F02CEH-6-B)

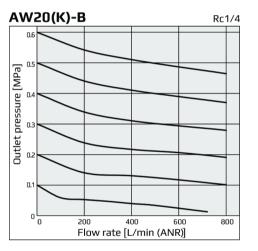
DESIGN

Integrated filter and regulator units save space and require less piping. With the backflow function it incorporates a mechanism to exhaust the air pressure in the outlet side reliably and quickly.

FEATURES

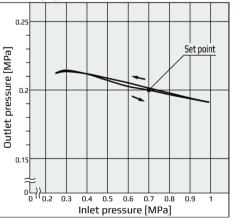
- Space saving and requires less piping
- No manual draining due to auto drain function

FLOW CHARACTERISTICS



PRESSURE CHARACTERISTICS

AW20(K)-B



OPTIONS/PART NO.

Float type auto drain ^{1, 2}

AD27

¹ Minimum operating pressure: N.O. type-0.1 MPa; (AD27)

² Please consult Clorius Controls for details on drain piping to fit NPT or G port sizes

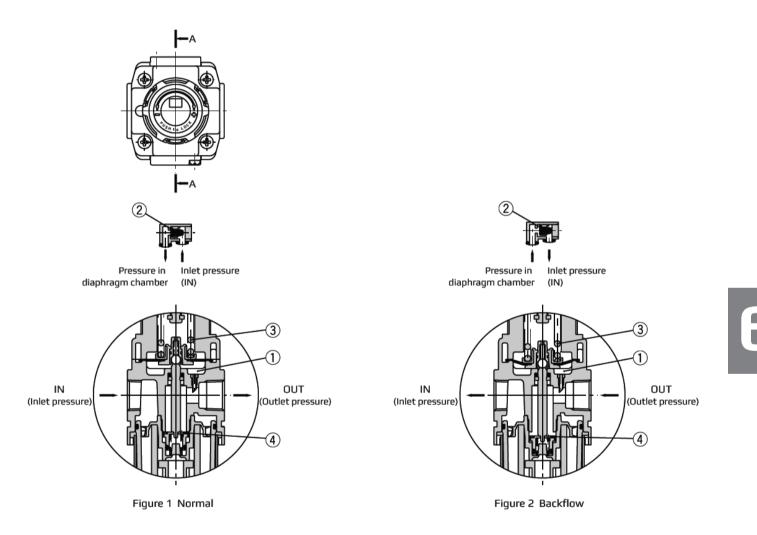
Subject to change without notice.



WORKING PRINCIPLE

When the inlet pressure is higher than the regulating pressure, check valve (2) closes and operates as a normal regulator (**Figure 1**). When the inlet pressure is shut off and released, check valve (2) opens and the pressure in the diaphragm chamber (1) is released in the inlet side.

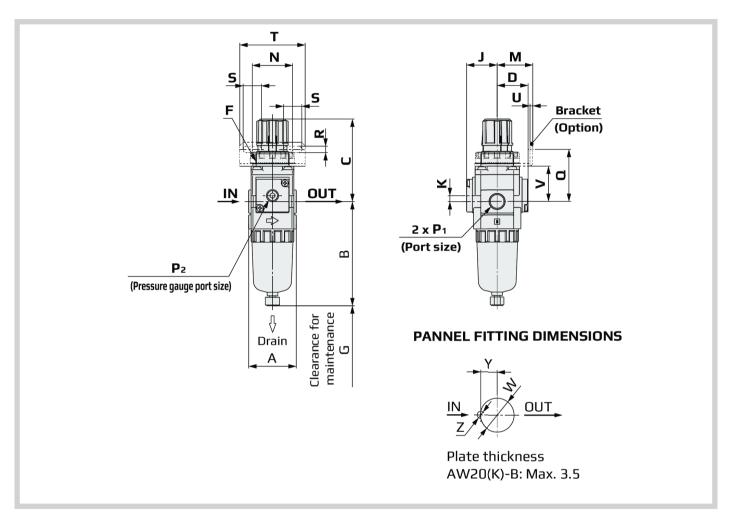
This lowers the pressure in diaphragm chamber (1) and the force generated by pressure regulator spring (3) lifts the diaphragm. Valve (4) opens through the stem, and the outlet pressure is released to the inlet side.



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DIMENSION SKETCH



Model	Standard specifications										
	P1	P2	А	B(note)	С	D	Е	F	G	J	К
AW20K	1/8	1/8	40	160	73	26	-	M28x1	40	26	S

	Standard specifications											
Model	Bracket mount							Panel Mount				With auto drain
	Μ	Ν	Q	R	5	т	U	V	W	Y	Z	B ^(note)
AW20K	30	34	44	5.4	154	55	2.3	30	28.5	14	6	177

 $_{
m Note)}$ The total length of B dimension is the length when the filter regulator knob is unlocked.

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SPECIFIC PRODUCT PRECAUTIONS

Maintenance

WARNING

1. Replace the regulator when the pressure drop becomes 0.1 MPa

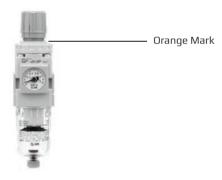
Mounting and adjusting

WARNING

- 1. Set the regulator while verifying the displayed values of the inlet and outlet pressure gauges. Turning the regulator know excessively can cause damage to the internal parts.
- 2. The pressure gauge included with regulators for 0.02 to 0.2 MPa setting is for up to 0.2 MPa use only. Exceeding 0.2 MPa of pressure can damage the gauge.
- 3. 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. A knob cover is available to prevent careless operation of the knob. Refer to page 90 for details.