

Filter Regulator

Stainless Steel 316 and Special Temperature Environment (−40°C) Specifications

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

■ External parts material: **Stainless steel 316**

■ Ambient and fluid temperature: **−40 to 80°C**

■ NACE International Standards compliant

The JIS component standards of the external parts and the component measurement results of the certificate for materials are within the ANSI/NACE standards.

Specifications

Fluid	Air
Ambient and fluid temperature	−40 to 80°C (with no freezing)
Proof pressure	3.0 MPa
Maximum operating pressure	2.0 MPa
Set pressure range	0.05 to 0.85 MPa
Nominal filtration rating	5 μm
Drain capacity [cm ³]	AW30: 20, AW40: 80
Construction	Relieving type
Weight [kg]	AW30: 1.19, AW40: 3.40

Applicable Model

Model	AW30	AW40
Port size	1/4, 3/8	1/4, 3/8, 1/2, 3/4



How to Order

AW **30** - **03** - **2** - **X2622**

1 2 3 4 5 6

Stainless steel 316 specification

· Option/Semi-standard: Select one each for **a** to **d**.
 · Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.
 Example) AW30-03C-2R-X2622A

	Symbol	Description	① Body size	
			30	40
②	—	Rc	●	●
	N	NPT	●	●
	F	G	●	●
	+			
③	02	1/4	●	●
	03	3/8	●	●
	04	1/2	—	●
	06	3/4	—	●
④	a	—	Without option	●
		C Note 1)	Float type auto drain (N.C.)	●
		+		
⑤	b	2 Note 2)	Metal bowl	●
		+		
	c	—	Flow direction: Left to right	●
		R	Flow direction: Right to left	●
⑥	d	—	Without option	●
		A	Round type pressure gauge (without limit indicator)	●
		B	With bracket	●
		C	Round type pressure gauge (without limit indicator), With bracket	●
		+		

Note 1) When the float type auto drain is selected, the fluid temperature range is −5 to 60°C (with no freezing), and the maximum operating pressure is 1.0 MPa. Take measures if the fluid temperature is likely to be out of the specified range due to the ambient temperature.

Note 2) Only metal bowl is available.

Note 3) The pressure gauge is shipped together, but not assembled. AW30: G43-10-□01-X3 or AW40: G43-10-□02-X3 is included.

Series AW30/40-X2622



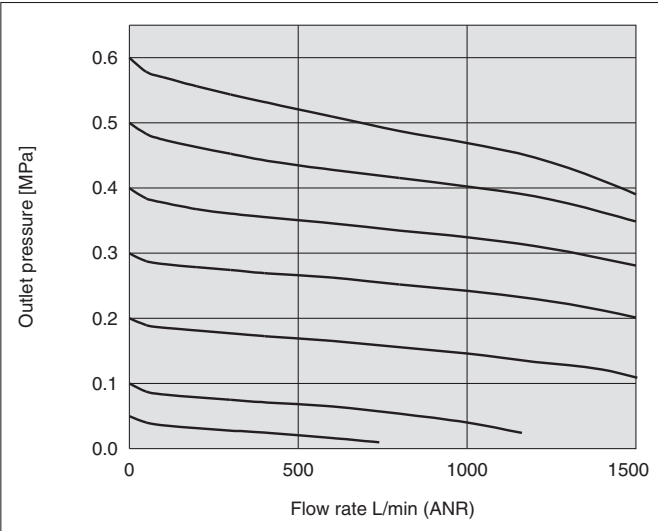
12-EU593-UK

Series AW30/40-X2622

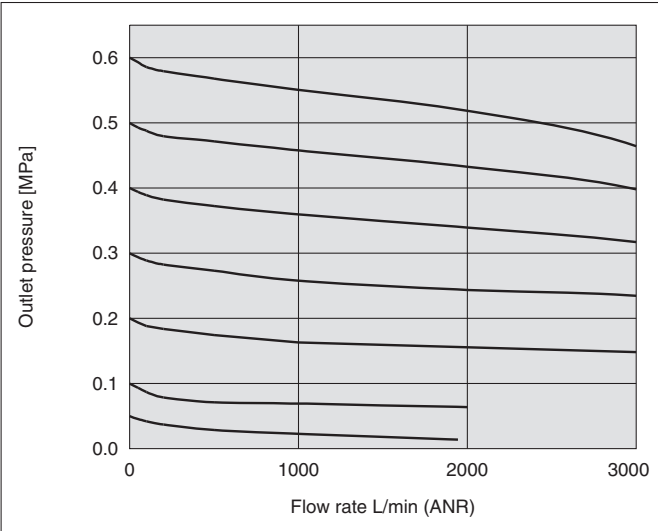
Flow-rate Characteristics (Representative values)

Condition: Inlet pressure 0.7 MPa

AW30-02-2-X2622



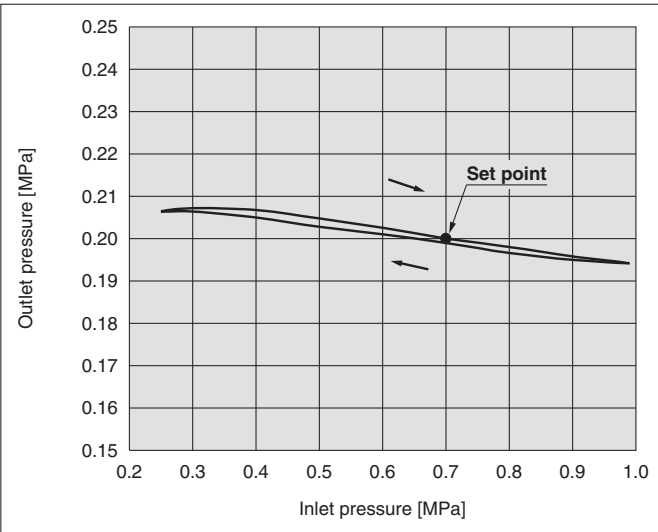
AW40-04-2-X2622



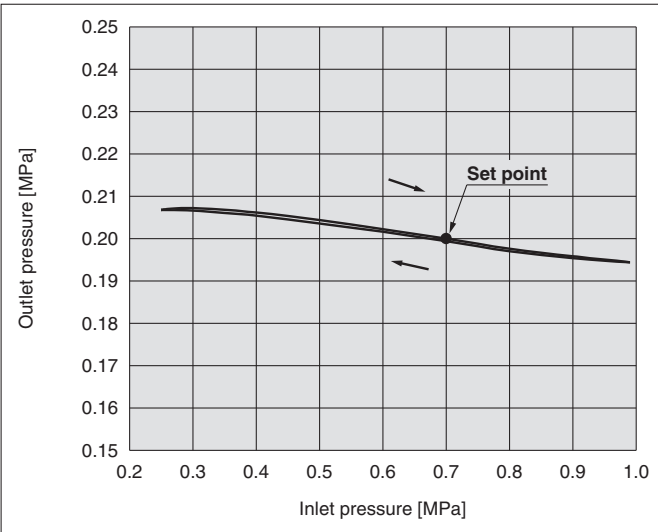
Pressure Characteristics (Representative values)

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

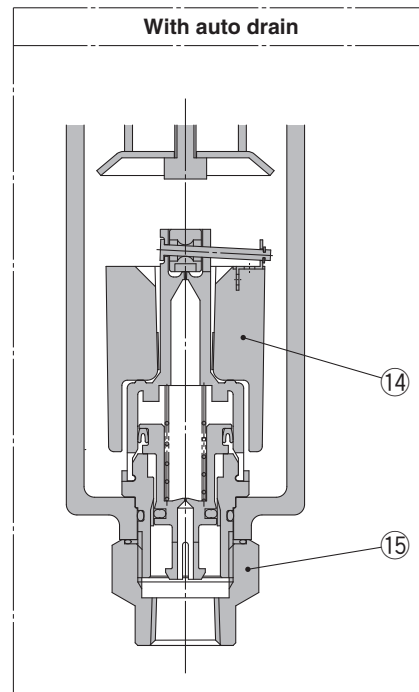
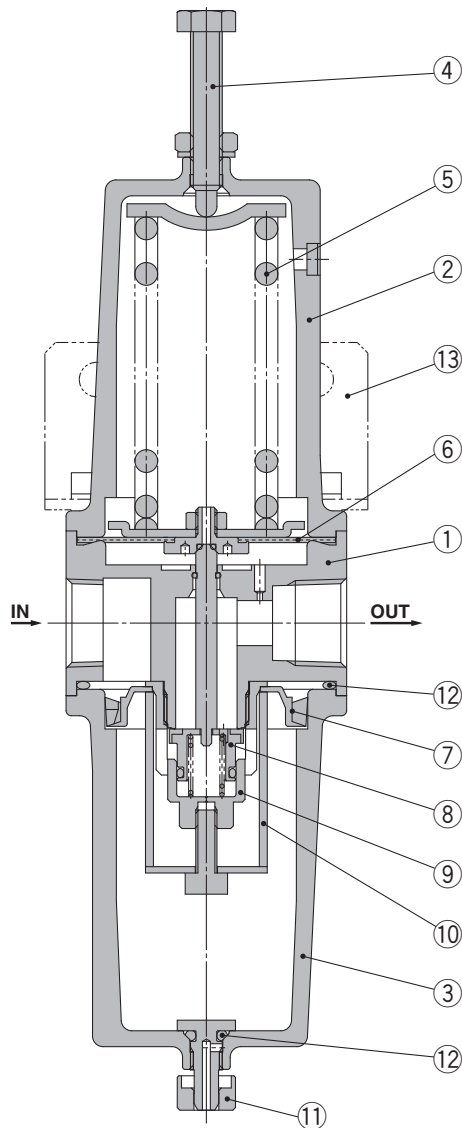
AW30-02-2-X2622



AW40-04-2-X2622



Construction

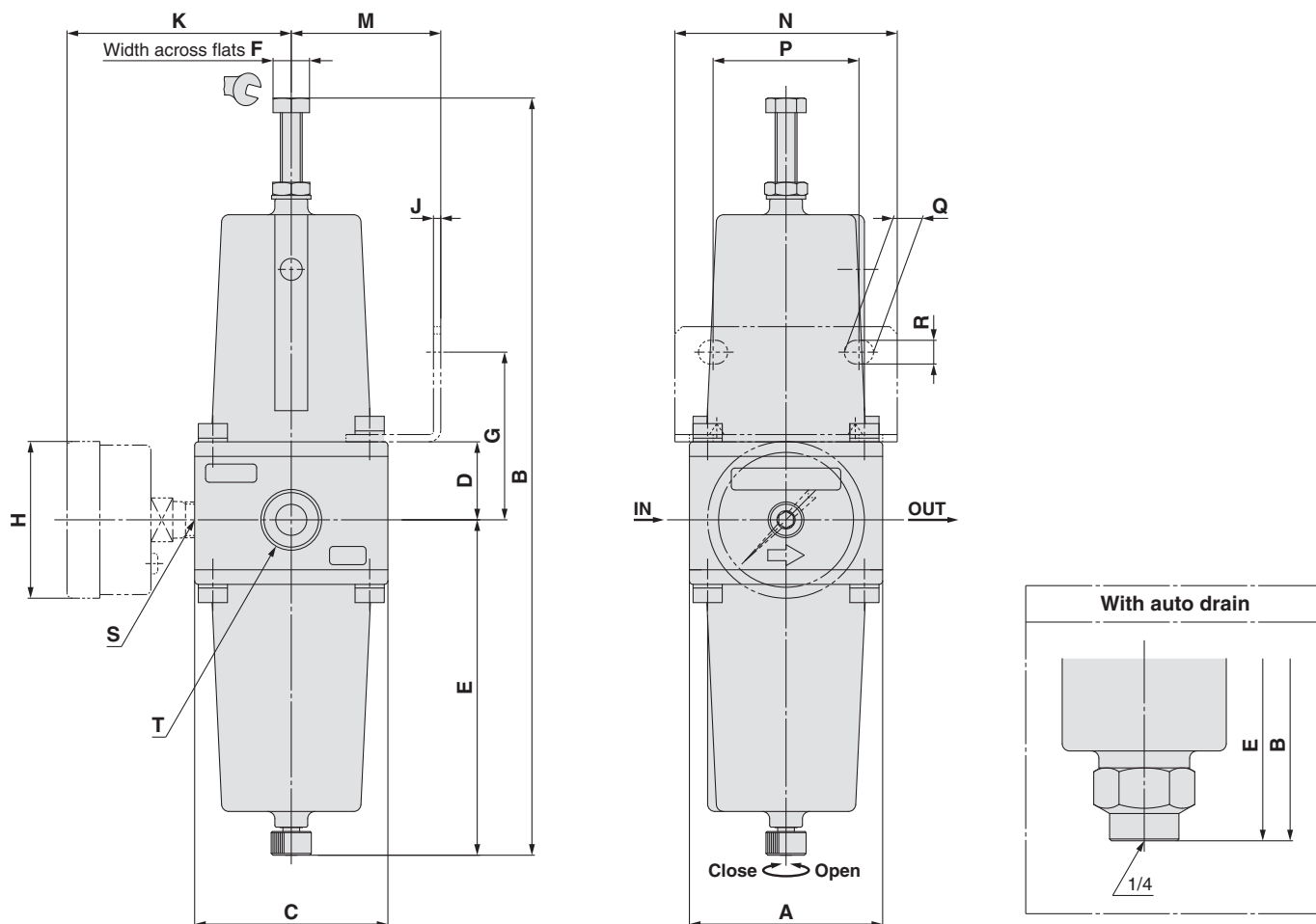


Component Parts

No.	Description	Material
1	Body	SCS14A (Equivalent to Stainless steel 316)
2	Bonnet	SCS14A (Equivalent to Stainless steel 316)
3	Bowl	SCS14A (Equivalent to Stainless steel 316)
4	Pressure adjustment screw	Stainless steel 316L
5	Adjusting spring	Stainless steel 304
6	Diaphragm	CR
7	Deflector	PBT
8	Valve	Stainless steel 316/Low-temperature NBR
9	Valve guide	Stainless steel 316
10	Element	Stainless steel 316L
11	Drain cock	Stainless steel 316
12	O-ring	Low-temperature NBR
13	Bracket	Stainless steel 316
14	Auto drain	POM/PBT/Foamed phenol/NBR etc.
15	Drain guide	Stainless steel 316

Series AW30/40-X2622

Dimensions



Model	T	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S	With auto drain	
																		B	E
AW30-X2622	1/4, 3/8	53	207.7	53	21.1	92.1	10	45.7	ø43	2	65.5	40.5	61	40	8	6.5	1/8	250.1	134.5
AW40-X2622	1/4, 3/8, 1/2, 3/4	75	334	72	29.8	146	13	56	ø43	2.5	75	50	80	54	10.5	8.5	1/4	361.6	173.4



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Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.