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 [cm³]	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 □

❶ ❷ ❸ ❹ ❺ ❻

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

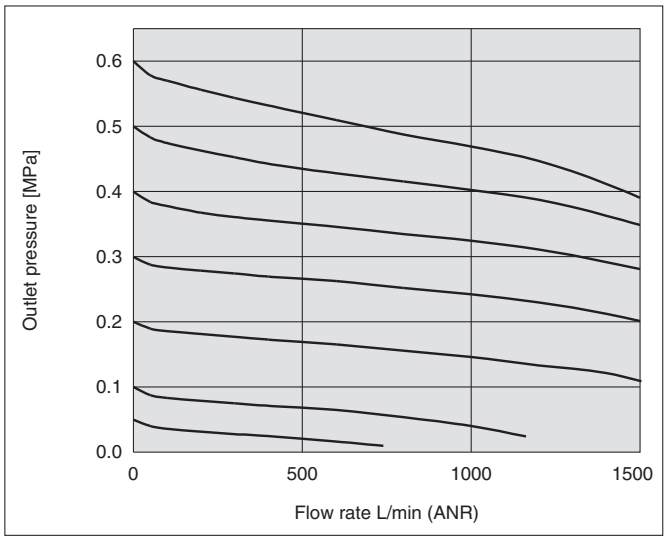
				Symbol	Description	❶ Body size 30	❶ Body size 40
❷	Thread type			—	Rc	●	●
				N	NPT	●	●
				F	G	●	●
				+			
❸	Port size			**02**	1/4	●	●
				03	3/8	●	●
				04	1/2	—	●
				06	3/4	—	●
				+			
❹	Option i	**a**	Float type auto drain	—	Without option	●	●
				C Note 1)	Float type auto drain (N.C.)	●	●
				+			
❺	Semi-standard	**b**	Bowl	**2** Note 2)	Metal bowl	●	●
				+			
		c	Flow direction	—	Flow direction: Left to right	●	●
				R	Flow direction: Right to left	●	●
				+			
❻	Option ii	**d**	Pressure gauge Note 3) Bracket	—	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.

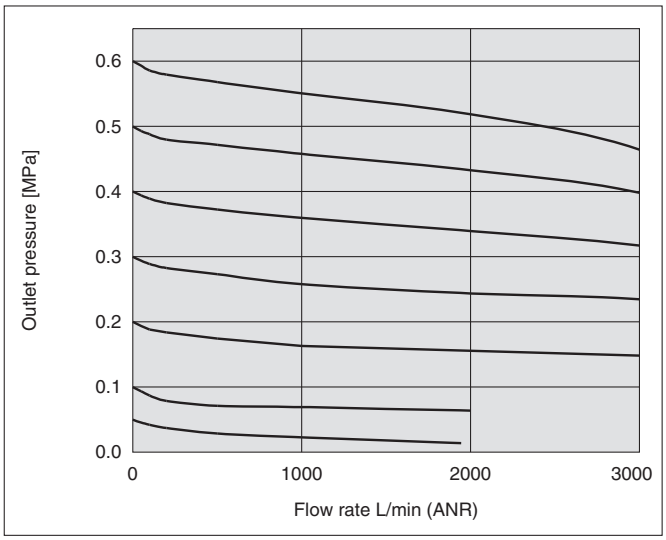
Flow-rate Characteristics (Representative values)

Condition: Inlet pressure 0.7 MPa

AW30-02-2-X2622



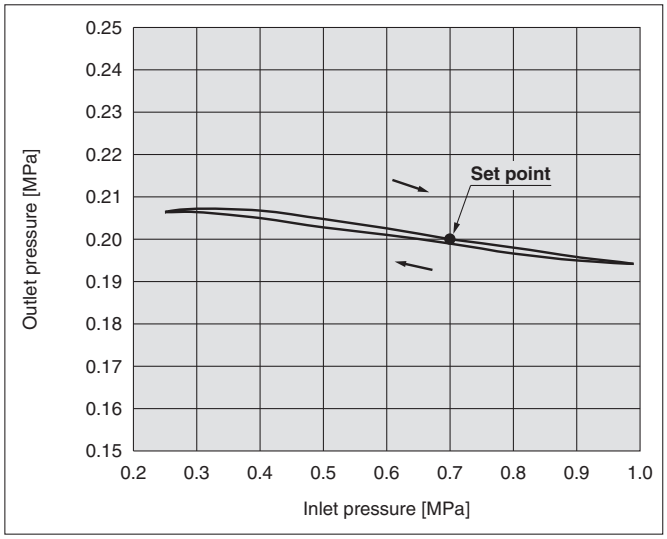
AW40-04-2-X2622



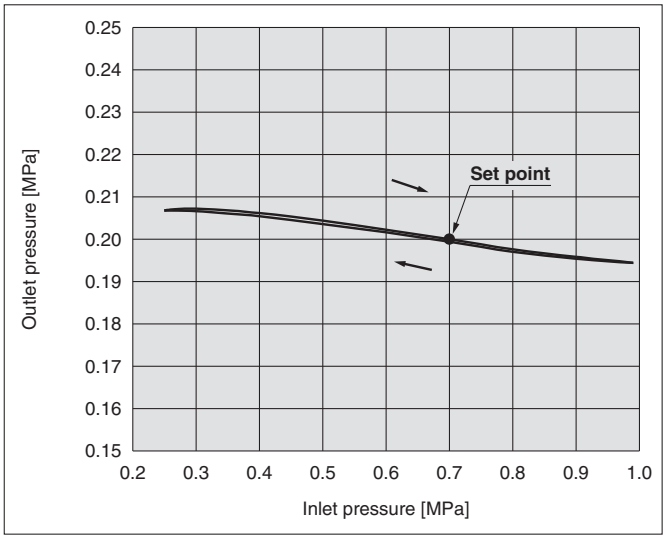
Pressure Characteristics (Representative values)

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

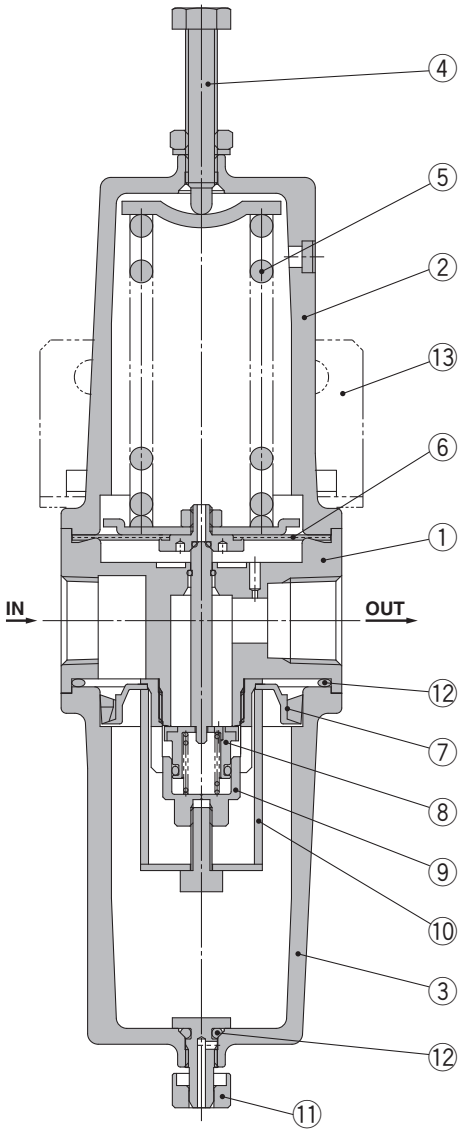
AW30-02-2-X2622

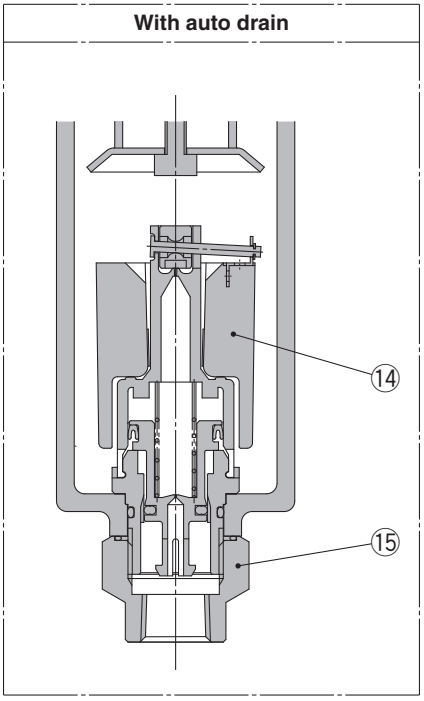


AW40-04-2-X2622



Construction



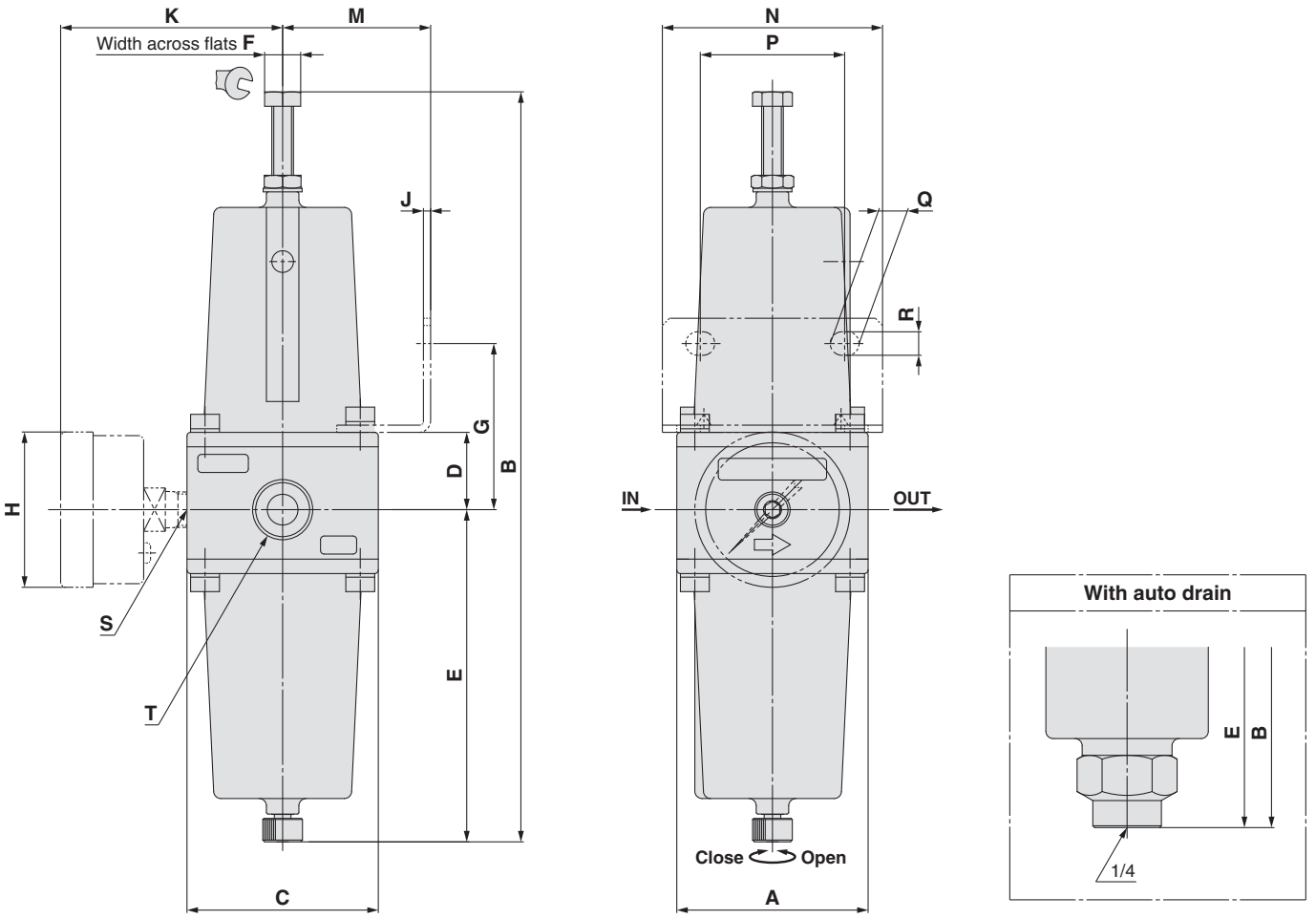


Component Parts

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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