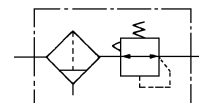




ANSI Symbol



- Reduces space by combining the filter and the regulator into one unit
- Wide variation of filtration and regulating pressures to fit most applications
- Modular design connects with other SMC Air Preparation Equipment



NAW3000-N03



NAW2000-N02-C



NAW1000-M5



NAW3000-N03BG



NAW2000-N02BG-C



NAW1000-M5BG

Specifications

Model	NAW1000	NAW2000	NAW3000	NAW4000	NAW4000-N06
Port Size NPT	M5x0.8	1/8 • 1/4	1/4 • 3/8	1/4•3/8•1/2	3/4
Proof pressure psig (MPa)	220 (1.5)				
Max. oper. pressure psig (MPa)	150 (1.0)				
Regulating pressure range psig (MPa)	7~100 (0.05~0.7)	7~120 (0.05 ~ 0.85)			
Port size pressure gauge	1/16Rc(PT)	1/8 NPT	1/8 NPT	1/4 NPT	1/4 NPT
Ambient and fluid temperature	23° ~140° F (-5° ~ 60° C)				
Filtration	5µm				
Bowl capacity ozs. (cm ³)	.08 (2.5)	.27 (8)	.78 (23)	1.52 (45)	1.52 (45)
Bowl material	Polycarbonate				
Construction/regulator	Relieving Type				
Weight lbs. (kgf)	0.20 (0.09)	0.79 (0.36)	1.17 (0.53)	2.40 (1.09)	2.54 (1.15)
Accessory (standard) Bowl guard	—	●	●	●	●

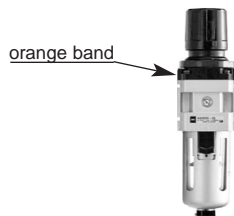
Accessories (Optional)

Type	Part No.				
	NAW1000	NAW2000	NAW3000	NAW4000	NAW4000-N06
Bracket	B120	B220	B320	B420	B420
Pressure Gauge	G27-P10-R1	K40A-MP1.0-N01M		K50A-MP1.0-N02M	
*Float Auto Drain	N.O.	—	NAD43	NAD44	NAD44
	N.C.	—	NAD53	NAD54	NAD54
Differential Pressure Drain	NAD61	NAD62-0	—	—	—

* Min. operating pressure: N.O. - 15psig, N.C. - 22psig

Setting

- The adjustment knob is a locking type. Pull the knob away from the body until the orange band is visible. Adjust as necessary and push the knob back into its locked position to prevent accidental setting change.



- Clockwise rotation of the knob results in a pressure increase and vice-versa.
- Check supply pressure before adjusting pressure.

Precautions

<Installation>

- Air flush piping before installation.
- Use of the piping adaptors will ease installation.

<Atmosphere>

Polycarbonate bowls may be damaged and possibly fail if exposed to synthetic oils, thinner solvents, trichlorethylene, kerosene and other aromatic hydrocarbons. If used in above atmosphere, please use a metal bowl.

<Auto Drain>

Float type (Normally open)

- Drain line should be 5/16 in. (8mm) or more and should be less than 16.5 ft. (5m). Be sure not to have any upward turns in the drain line which would prevent drainage.
- Unsuitable for flow below 3.5 scfm(100N/min).
- Min. operating pressure 15 psig (0.1 MPa).

Float type (Normally closed)

- Suitable for a compressor with capacity lower than 0.75kw.
- Min. operating pressure 22 psig (0.15 MPa).
- Drain piping should be 5/32 in. (4mm) or greater and also less than 16.5 ft. (5m) in length.
- Install vertically.

Differential type

- Min. operating pressure 15 psig (0.1 MPa). Soft nylon tube of more than 3/32 in. (2.5mm) is recommended for drain piping. The overall length should be less than 16.5 ft. (5m). Be sure not to have any upward turns in the piping.
- Install vertically.

Maintenance

Filter element to be changed after 1 year or when a pressure drop of 15 psi (0.1 MPa) is reached.

Filter/Regulator

NAW1000, 2000, 3000, 4000

How To Order

NAW 30 00 - N 03 BD 1W

Filter Regulator

Body size

- 10 — M5
- 20 — 1/8
- 30 — 3/8
- 40 — 1/2

Port Thread

- Nil — Rc(PT)
- F — G(PF)
- N — NPT

Port size

- M5 — 10-32 Nom. (M5)
- 01 — 1/8
- 02 — 1/4
- 03 — 3/8
- 04 — 1/2
- 06 — 3/4

Optional specifications

- Nil — None
- 1 — 3-30psig (0.02 ~ 0.2MPa) setting* (except NAW1000)
- 2 — Metal bowl
- 4 — 3-30psig (0.02 ~ 0.4MPa) setting*
- 6 — Nylon bowl
- 8 — Metal bowl with level gauge (only NAW3000-NAW4000)
- C — With bowl guard (Only NAW2000)
- J — Drain Guide 1/4 Pipe Thread
- N — Non-relieving
- R — IN-OUT reversal
- W — Drain Cock with Barb Fitting for Nylon tube (ø6mm OD/ø4mm ID)

When specifying more than one option, please list numerically, then alphabetically.

*Not a maximum setting. Option 1 is more precise in the range of 3-30 psig. Option 4 is more precise in the range of 3-60 psig.

Accessory

Code	Description	Applicable model
Nil	—	—
B	Bracket	NAW1000-NAW4000-N06
C	Auto drain	Float type (N.C.)
D		Differential Pressure
		Float type (N.O.)
G	Pressure Gauge	NAW1000
		NAW2000-NAW4000-N06

Accessories And Combinations

- ▼ Combination
- No Combination
- Refer to "How to Order"

Accessories	Suffix	D	D	C	1	2	4	6	8	C	J	N	R	W	Applicable model			
															NAW1000	NAW2000	NAW3000	NAW4000
Differential pressure auto drain	D				▼	▼	▼	▼	▼	●		▼	▼		▼	▼		▼
Float auto drain (N.O)	D				▼	▼	▼	▼	▼			▼	▼					▼
Float auto drain (N.C)	C				▼	▼	▼	▼	▼			▼	▼					▼
3 ~ 30 psi (0.02 ~ 0.2 MPa)	-1	▼	▼	▼	▼	▼	▼	▼	▼	●	●	●	▼	●	▼	▼	▼	▼
Metal bowl	-2	▼	▼	▼	▼	▼	▼	▼	▼		●	●	▼	▼	▼	▼	▼	▼
3 ~ 60 psi (0.02 ~ 0.4 MPa)	-4	▼	▼	▼	▼	▼	▼	▼	▼	●	●	●	▼	●	▼	▼	▼	▼
Nylon bowl	-6	▼	▼	▼	▼	▼	▼	▼	▼		●	●	▼	▼	▼	▼	▼	▼
Metal bowl with level gauge	-8		▼	▼	▼	●	●				●	▼	▼				▼	▼
With bowl guard	-C	▼			▼	●	●	▼	▼			▼	▼			▼		▼
Drain guide (1/4)	-J				▼	▼	▼	▼	▼			▼	▼				▼	▼
Non-relieving	-N	▼	▼	▼	▼	▼	▼	▼	▼	●	●	●	▼	●	▼	▼	▼	▼
IN-OUT reversal (Right - Left)	-R	▼	▼	▼	▼	▼	▼	▼	▼	●	●	●	▼	●	▼	▼	▼	▼
With barb fitting	-W				▼	●	●	▼				▼	▼				▼	▼

- Allows use in low or high ambient temperature environments
- Combines the filter and regulator to save space
- Modular design connects with other SMC air preparation equipment

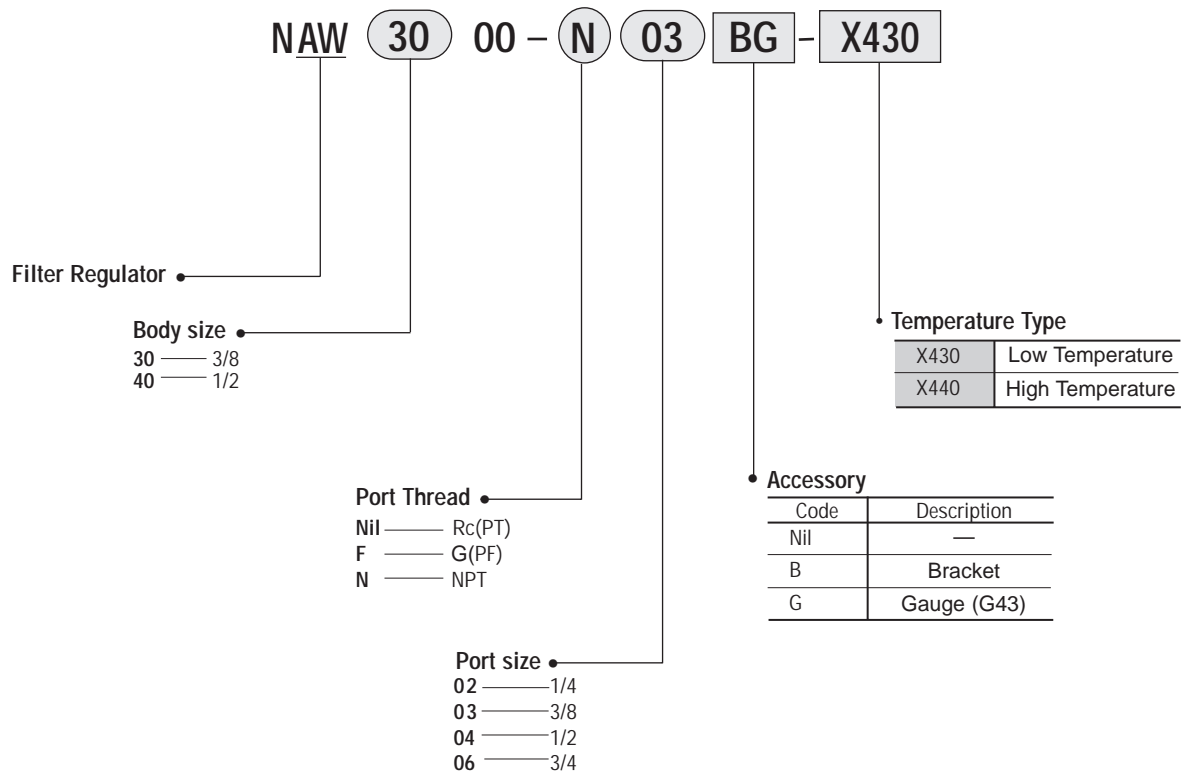
Specifications (Low Temp) -X430

Model	NAW3000	NAW4000	NAW4000-N06
Port size NPT	1/4 • 3/8	1/4 • 3/8 • 1/2	3/4
Ambient temperature	-22~140° F (-30 ~ 60° C)		
Fluid temperature	-23~140° F (-5 ~ 60° C)		
Filtration	5µm		
Bowl material	Aluminum Die Casting		

Specifications (High Temp) -X440

Model	NAW3000	NAW4000	NAW4000-N06
Port size NPT	1/4 • 3/8	1/4 • 3/8 • 1/2	3/4
Ambient temperature	23~180° F (-5 ~ 80° C)		
Fluid temperature	23~140° F (-5 ~ 60° C)		
Filtration	5µm		
Bowl material	Aluminum Die Casting		

How To Order



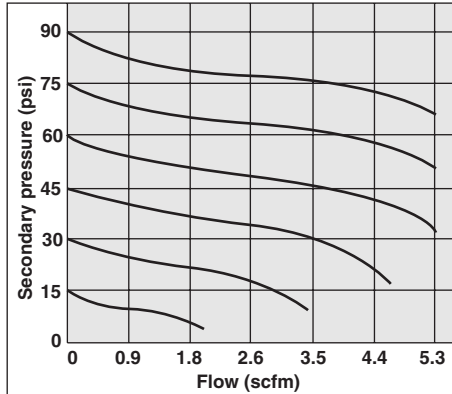
Filter/Regulator

NAW1000, 2000, 3000, 4000

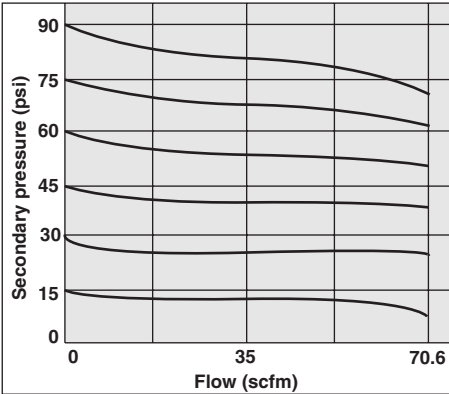
Flow Characteristics

Conditions: Supply pressure 100 psig

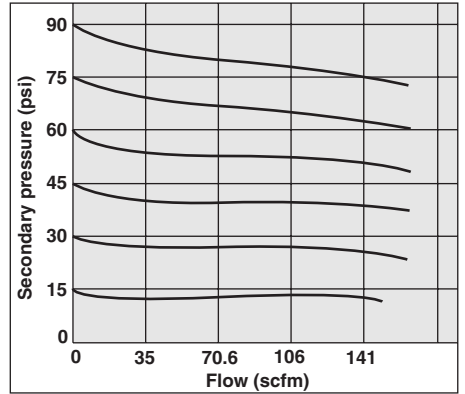
NAW1000 M5X0.8



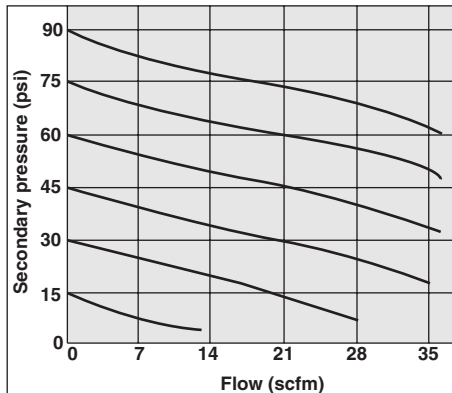
NAW3000 NPT 3/8



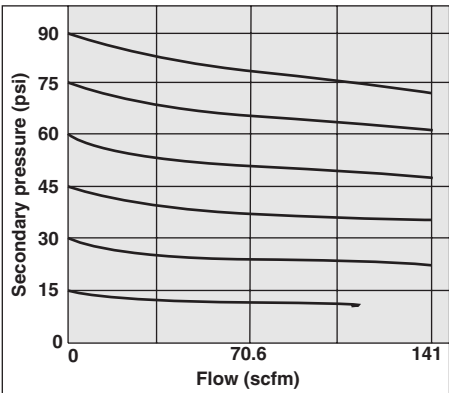
NAW4000-06 NPT 3/4



NAW2000 NPT 1/4



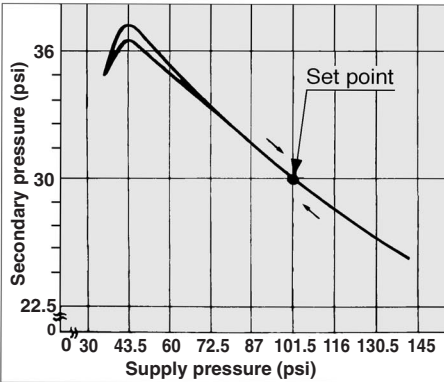
NAW4000 NPT 1/2



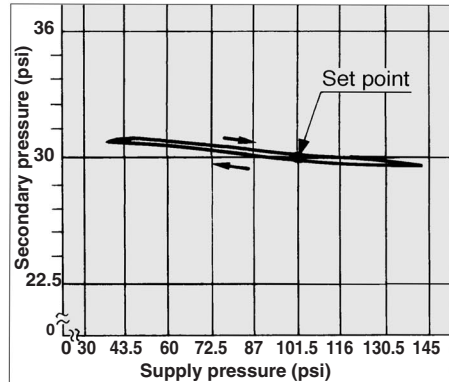
Pressure Characteristics

Conditions—100psi Supply Pressure, 30psi Set Pressure, .71SCFM Flow Rate

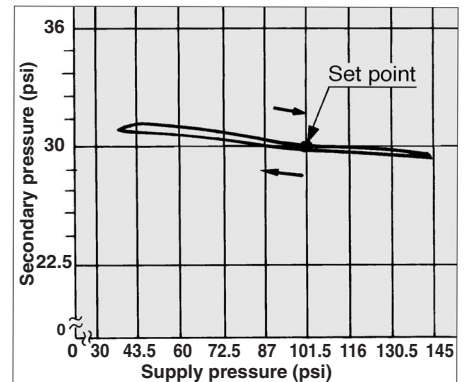
NAW1000 M5X0.8



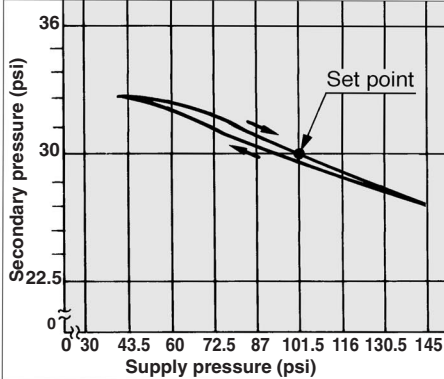
NAW3000 NPT 3/8



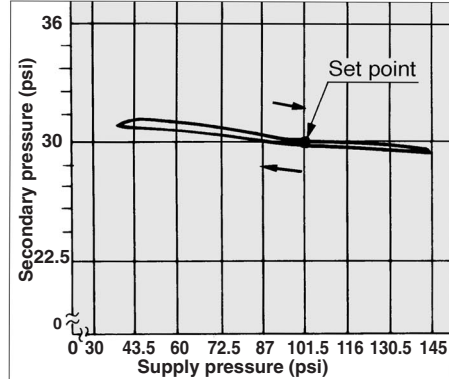
NAW4000-06 NPT 3/4



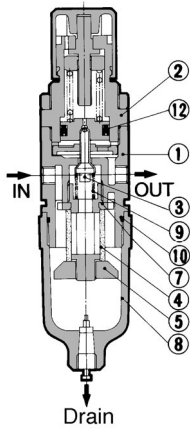
NAW2000 NPT 1/4



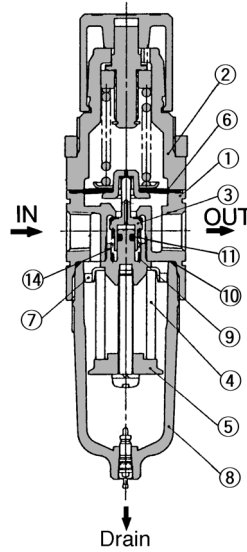
NAW4000 NPT 1/2



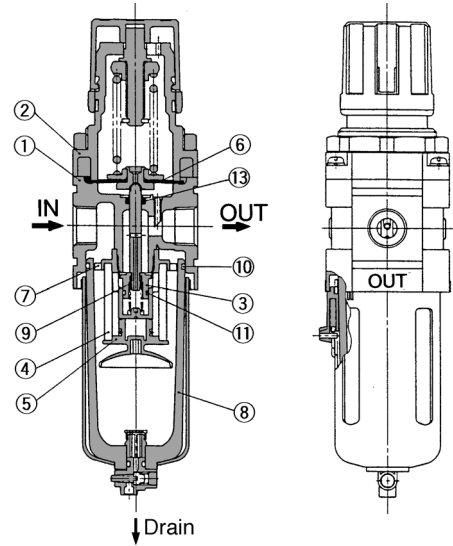
NAW1000



NAW2000



NAW3000•4000



Main Parts

No.	Name	Material			Note
		NAW1000• 2000	NAW3000	NAW4000• 4000-N06	
①	Body	Zinc die casting	Aluminum die casting		Platinum silver painting
②	Bonnet	Polyacetal		Aluminum die casting	Black painting

Component Parts List

	Name	Material	Part No.				
			NAW1000	NAW2000	NAW3000	NAW4000	NAW4000-N06
③	Valve Ass'y	Brass ¥ NBR	134819	1349160	1315216A	1316212A	1316213A
④	Filter Element	Polyolefin	111344	1129116	111585	1116103	1116103
⑤	Baffle	() mat'l	111312 (POM)	11295 (ABS)	1315541 (POM)	1316276 (POM)	1316276 (POM)
⑥	Diaphragm Ass'y	NBR		131445A	1315215A	1316211A	1316211A
⑦	Deflector	ABS	11133A	112961A			
⑧	Bowl Ass'y	Polycarbonate	NC100F	NC200F-C	NC300F	NC400F	NC400F
⑨	Valve Spring	Stainless Steel	134824	1349158	131525	131625	131625
⑩	Bowl O-ring	NBR	111325	11297	111512	111636	111636
⑪	Valve O-ring	NBR		1349247	131544	131645	131645
⑫	Piston/Seal Ass'y	NBR	MYN-10A				
⑬	O-ring	NBR			P5	P5	P5
⑭	Valve guide	() mat'l		134132 (ZDC)	1315540 (POM)	1316275 (POM)	1316275 (POM)

Dimensions

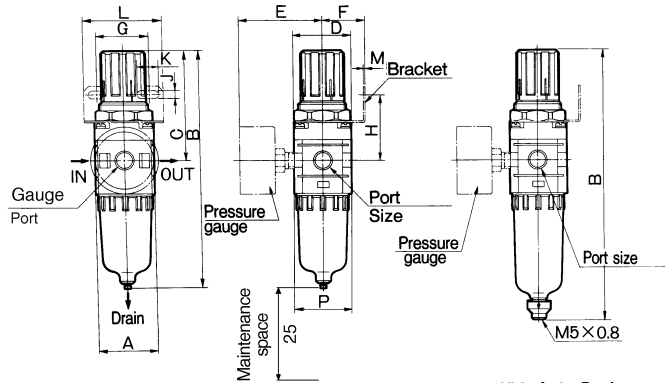
NAW1000, 2000, 3000, 4000

NAW1000•2000

Panel cut hole



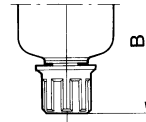
Max. Panel thickness: 9/64" (3.5)



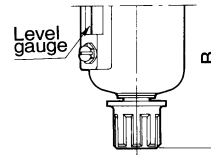
With Auto Drain
(Differential pressure type)

Semi-standard Type/Dimensions

Metal Bowl



Metal bowl with level gauge



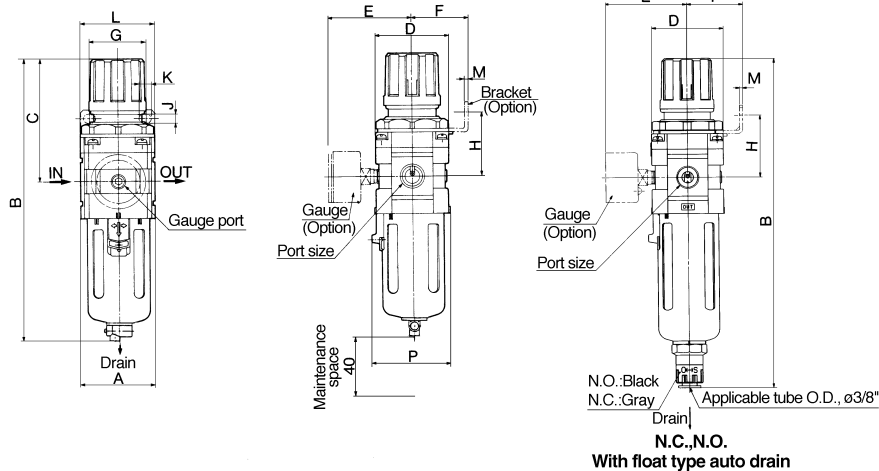
Model	Metal bowl	Metal bowl with level gauge
	B	B
NAW1000	4.31 (109.5)	—
NAW2000	6.48 (164.5)	—
NAW3000	8.68 (220.5)	9.47 (240.5)
NAW4000	10.71 (272)	11.50 (292)
NAW4000-N06	10.89 (276.5)	11.67 (296.5)

NAW3000•4000

Panel mounting hole



NAW3000: Max. panel thickness: 9/64" (3.5)
NAW4000: Max. panel thickness: 13/64" (5)



With float type auto drain

Model	Port Size	A	B	C	D	E	With Bracket							N	P	With auto drain	
							F	G	H	J	K	L	M			B	Differential pressure
NAW1000	10-32 Nom. (M5)	.98 (25)	4.31 (109.5)	1.99 (50.5)	.98 (25)	1.02 (26)	.98 (25)	1.10 (28)	1.18 (30)	.18 (4.5)	.26 (6.5)	1.57 (40)	.08 (2.0)	.81 (20.5)	1.10 (28)	—	5.12 (130)
NAW2000	1/8 • 1/4	1.57 (40)	6.48 (164.5)	3.07 (78)	1.57 (40)	2.24 (56.8)	1.18 (30)	1.34 (34)	1.73 (44)	.21 (5.4)	.61 (15.4)	2.17 (55)	.09 (2.3)	1.32 (33.5)	1.57 (40)	—	7.38 (187.5)
NAW3000	1/4 • 3/8	2.09 (53)	8.17 (207.5)	3.64 (92.5)	2.09 (53)	2.39 (60.8)	1.61 (41)	1.57 (40)	1.81 (46)	.26 (6.5)	.31 (8.0)	2.09 (53)	.09 (2.3)	1.67 (42.5)	2.20 (56)	9.78 (248.5)	—
NAW4000	1/4 • 3/8 • 1/2	2.76 (70)	10.20 (259)	4.41 (112)	2.76 (70)	2.78 (70.5)	1.97 (50)	2.13 (54)	2.13 (54)	.33 (8.5)	.41 (10.5)	2.76 (70)	.09 (2.3)	2.07 (52.5)	2.87 (73)	11.81 (300)	—
NAW4000-N06	3/4	2.95 (75)	10.35 (263)	4.49 (114)	2.76 (70)	2.78 (70.5)	1.97 (50)	2.13 (54)	2.20 (56)	.33 (8.5)	.41 (10.5)	2.76 (70)	.09 (2.3)	2.07 (52.5)	2.87 (73)	11.97 (304)	—

- Allows quick relief of air when the supply air is less than set pressure
- Combines the filter and regulator to save space
- Modular design connects with other SMC air preparation equipment

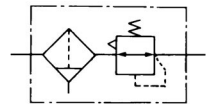
Filter/Regulator with Quick Relief
NAW3050, 4050



NAW3050-N03

NAW3050-N03BG

ANSI Symbol



Specifications

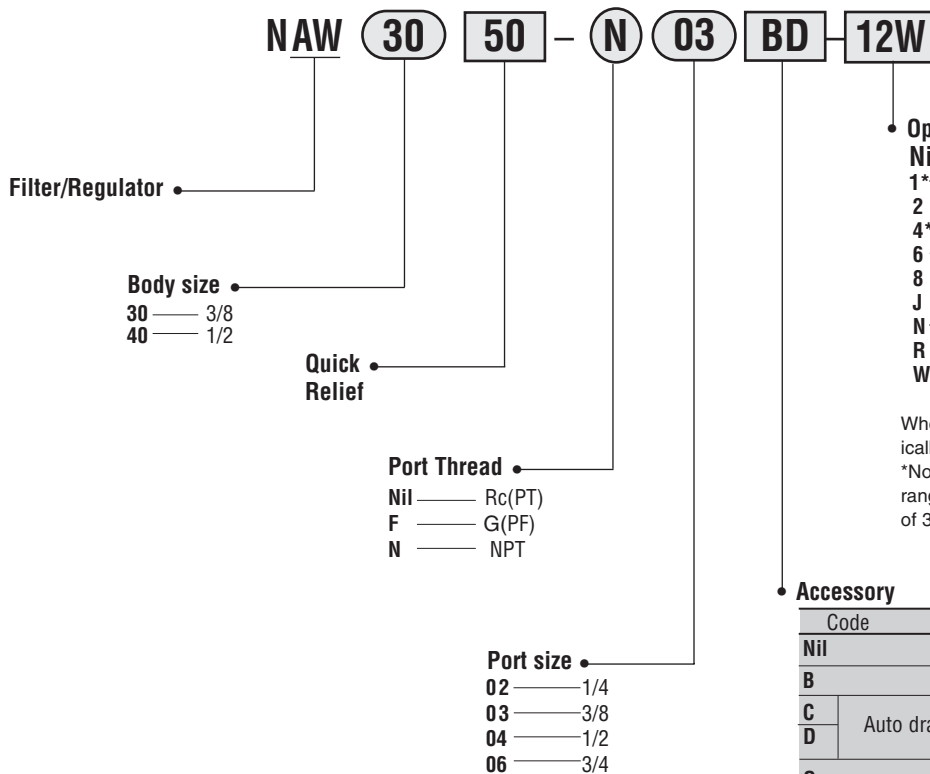
Model	NAW3050	NAW4050	NAW4050-N06
Port Size NPT	1/4 • 3/8	1/4 • 3/8 • 1/2	3/4
Proof supply pressure psig (MPa)	220 (1.5)		
Max. operating pressure psig (MPa)	150 (1.0)		
Regulating range psig (MPa)	7~120 (0.05 ~0.85)		
Gauge Port NPT	1/8	1/4	1/4
Ambient & media Temperature	23° ~140° F (-5° ~ 60° C)		
Filtration	5µm		
Bowl capacity oz. (cm³)	0.78 (23)	1.52 (45)	1.52 (45)
Bowl material	Polycarbonate		
Construction/Regulator	Relieving style		
Weight lbs. (Kgf)	1.23 (0.56)	2.54 (1.15)	2.67 (1.21)
Bowl Guard	STD	●	●

Accessories (Optional)

Name	Part Number		
	NAW3050	NAW4050	NAW4050-N06
Bracket	B320	B420	B420
Pressure Gauge	K40A-MP1.0-N01M	K50A-MP1.0-N02M	K50A-MP1.0-N02M
Auto Drain	N.O.	NAD43	NAD44
	N.C.	NAD53	NAD54

* Minimum Operating Pressure: N.O. - 15 psig, N.C. - 22 psig

How To Order



Optional specifications

- Nil** — None
- 1*** — 3~30psig (0.02 ~ 0.2 MPa) setting
- 2** — Metal bowl
- 4*** — 3~30psig (0.02 ~ 0.4 MPa) setting
- 6** — Nylon bowl
- 8** — Metal bowl with level gauge
- J** — Drain guide 1/4 pipe thread
- N** — Non-relieving
- R** — IN-OUT reversal
- W** — Drain cock/with barb fitting for nylon tube (ø6mm OD/ø4mm ID)

When specifying more than one option, please list numerically, then alphabetically.

*Not a maximum setting. Option 1 is more precise in the range of 3~30 psig. Option 2 is more precise in the range of 3~60 psig.

Accessory

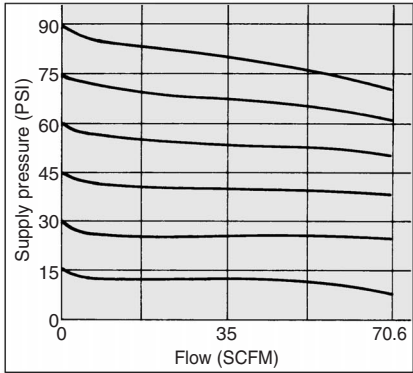
Code	Description
Nil	—
B	Bracket
C	Auto drain
D	
D	Float type (N.O.)
G	Pressure gauge

Filter/Regulator with Quick Relief
NAW3050, 4050

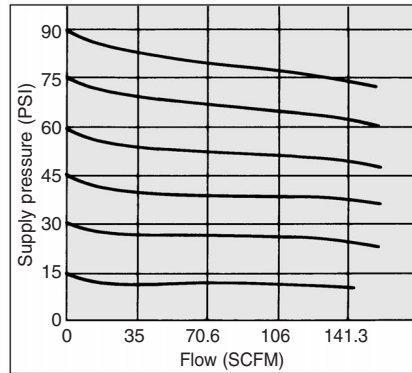
Flow Characteristics

Conditions: Supply pressure 100 psig

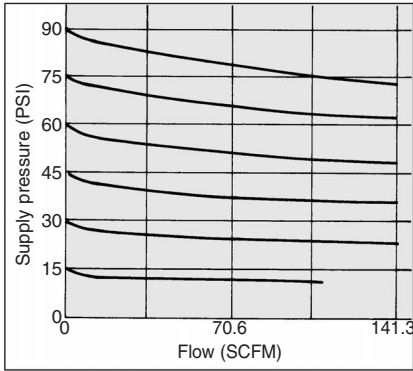
NAW3050 NPT 3/8



NAW4050-06 NPT 3/4



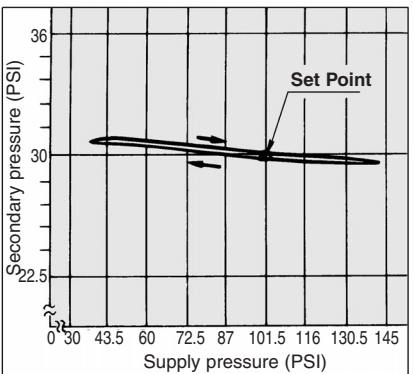
NAW4050 NPT 1/2



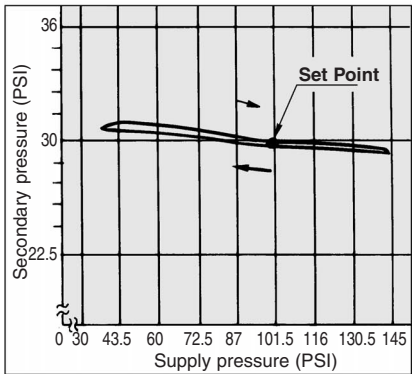
Pressure Characteristics

Conditions—100psi Supply Pressure, 30psi Set Pressure, .71SCFM Flow Rate

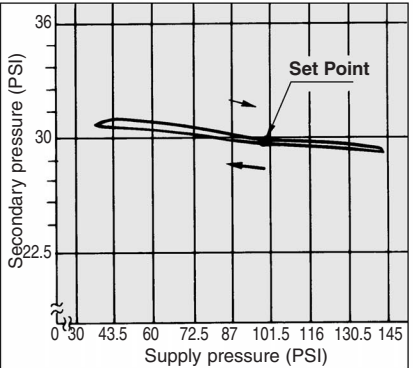
NAW3050 NPT 3/8



NAW4050-06 NPT 3/4



NAW4050 NPT 1/2



Construction/Parts List

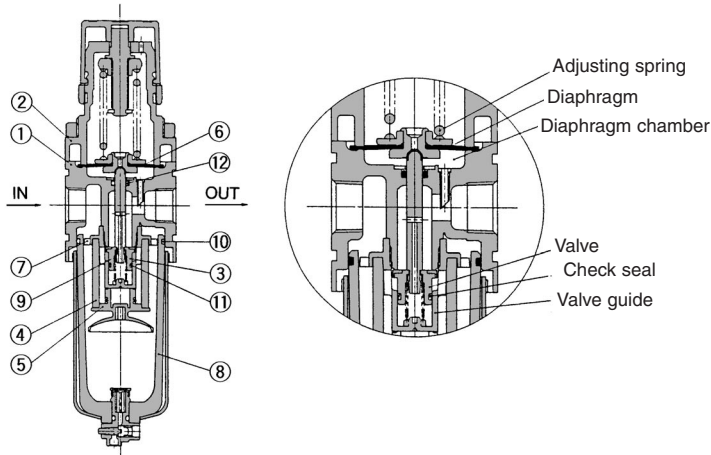
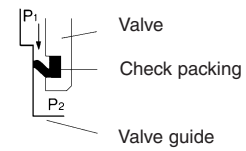
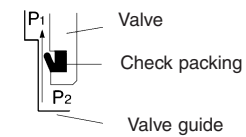


Figure 2



When primary pressure is applied

Figure 3



When primary pressure is exhausted

When primary pressure is higher than set pressure, the check seal opens and the regulator works as a normal pressure relief valve. (See fig. 2). In the bottom valve chamber, the secondary pressure flows through the hole in the valve stem. When the primary pressure is blocked, the check seal folds and the pressure in the bottom valve chamber passes to the primary pressure side (See fig. 3). Because the flow area of the check seal is larger than that of the hole in the valve stem, differential pressure is created between the top and bottom chambers of the valve and the valve opens. The diaphragm is then pushed down by the pressure adjustment spring to let the valve fully open. The secondary pressure then rapidly discharges to the primary pressure side.

Main Parts

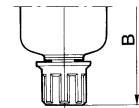
No.	Name	Material			Note
		NAW3050	NAW4050	NAW4050-N06	
1	Body	Aluminum die casting			Platinum silver painting
2	Bonnet	Polyacetal	Aluminum die casting		Black painting

Component Parts List

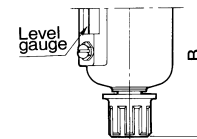
No.	Name	Material	Part No.		
			NAW3050	NAW4050	NAW4050-N06
3	Valve Ass'y	Brass • NBR	1315217A	1316216A	1316217A
4	Filter Element	Bronze	111585	1116103	1116103
5	Baffle	ABS	1315541	1316271	1316271
6	Diaphragm Ass'y	NBR	1315215A	1316211A	1316211A
7	Deflector	ABS	1315540	1316270	1316270
8	Bowl Ass'y	Polycarbonate	NC300F	NC400F	NC400F
9	Valve Spring	Stainless Steel	131525	1316173	1316173
10	Bowl O-ring	NBR	111512	111636	111636
11	Valve O-ring	NBR	131591	131695	131695
12	O-ring	NBR	JIS B2401P5	P5	P5

Semi-standard Type/Dimensions

Metal Bowl

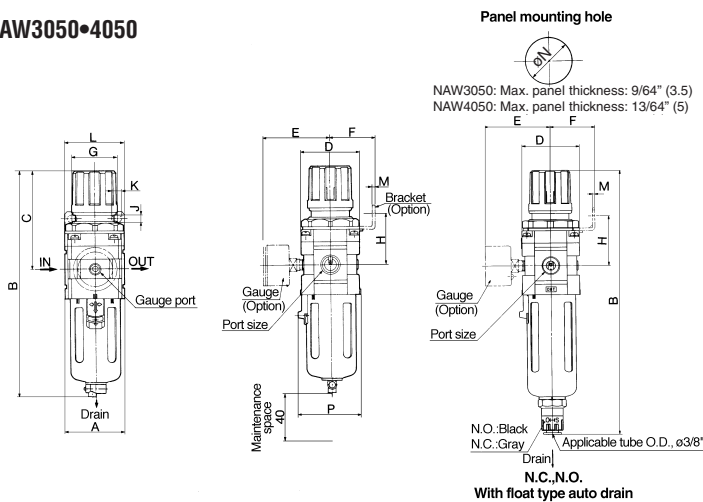


Metal bowl with level gauge



Model	Metal bowl	Metal bowl with level gauge
	B	B
NAW3050	8.68 (220.5)	9.47 (240.5)
NAW4050	10.71 (272)	11.50 (292)
NAW4050-N06	10.89 (276.5)	11.67 (296.5)

NAW3050•4050



Model	Port size	A	B	C	D	E	With Bracket							N	P	w/ auto drain Float Type B
							F	G	H	J	K	L	M			
NAW3050	1/4 • 3/8	2.09 (53)	8.17 (207.5)	3.64 (92.5)	2.09 (53)	2.44 (62)	1.61 (41)	1.57 (40)	1.81 (46)	.26 (6.5)	.31 (8)	2.09 (53)	.09 (2.3)	1.67 (42.5)	2.20 (56)	9.78 (248.5)
NAW4050	1/4 • 3/8 • 1/2	2.76 (70)	10.20 (259)	4.41 (112)	2.76 (70)	2.76 (70)	1.97 (50)	2.13 (54)	2.13 (54)	.33 (8.5)	.41 (10.5)	2.76 (70)	.09 (2.3)	2.07 (52.5)	2.87 (73)	11.81 (300)
NAW4050-N06	3/4	2.93 (75)	10.35 (263)	4.49 (114)	2.76 (70)	2.91 (74)	1.97 (50)	2.20 (56)	2.20 (56)	.33 (8.5)	.41 (10.5)	2.76 (70)	.09 (2.3)	2.07 (52.5)	2.87 (73)	11.97 (304)

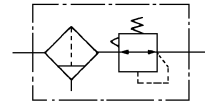
Mist Separator/Regulator

NAWM2000, 3000, 4000



- Combination Mist Separator/Regulator that provides 0.3µm filtration.
- Combination of the Mist Separator and Regulator saves space.
- Modular design connects with other SMC air preparation equipment.

ANSI Symbol



NAWM4000-N04



NAWM2000-N02-C

Specifications

Model	NAWM2000	NAWM3000	NAWM4000
Port size NPT	1/8 • 1/4	1/4 • 3/8	1/4 • 3/8 • 1/2
Proof pressure psig (MPa)	220 (1.5)		
Max. operating pressure psig (MPa)	150 (1.0)		
Regulating range psig (MPa)	7 ~ 120 (0.05 ~ 0.85)		
Gauge connecting port	1/8 NPT	1/8 NPT	1/4 NPT
Ambient & media temperature	23° ~ 140° F (-5 ~ 60° C)		
Filtration	0.3µm		
Flow capacity SCFM*	5.3	11.7	29
Bowl material	Polycarbonate		
Construction/Regulator	Relieving style		
Weight lbs. (kgf)	.97 (0.44)	1.3 (0.59)	2.76 (1.25)
Bowl guard-STD	●	●	●

* Supply Pressure = 70 psig



NAWM3000-N03BG



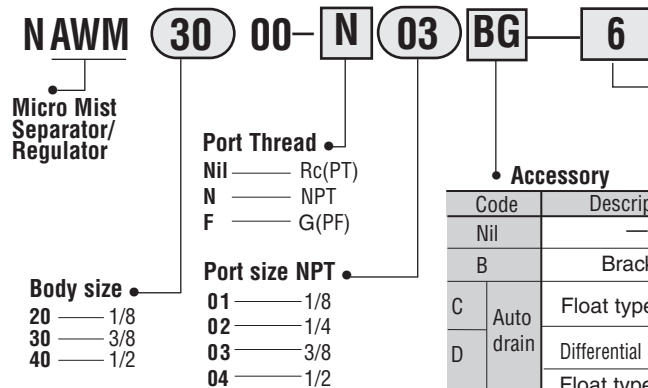
NAWM2000-N02BG-C

Accessories (Optional)

Name	Part No.		
	NAWM2000	NAWM3000	NAWM4000
Bracket	B220	B320	B420
Pressure gauge	K40A-MP1.0-N01M	K40A-MP1.0-N01M	K50A-MP1.0-N02M
Float Auto drain*	N.O.	NAD43	NAD44
	N.C.	NAD53	NAD54
Differential pressure auto drain	NAD62-C	—	—

* Min. operating pressure: N.O.–15 psig, N.C.– 22 psig.

How To Order



Optional specifications

- Nil — None
- 1* — 3-30psig (0.02 ~ 0.2MPa) setting
- 2 — Metal bowl
- 4* — 3-30psig (0.02 ~ 0.4MPa) setting
- 6 — Nylon bowl
- 8 — Metal bowl with level gauge (only NAWM3000•NAWM4000)
- C — With bowl guard (Only NAWM2000)
- J — Drain Guide 1/4 Pipe Thread
- N — Non-relieving
- R — IN-OUT reversal
- W — Drain Cock with Barb Fitting for Nylon tube (ø6mm OD/ø4mm ID)

When specifying more than one option, please list numerically, then alphabetically.
*Not a maximum setting. Option 1 is more precise in the range of 3-30 psig. Option 4 is more precise in the range of 3-60 psig.

Accessory			
Code	Description	Applicable model	
Nil	—	—	
B	Bracket	NAWM2000-NAWM4000	
C	Auto drain	Float type (N.C.)	NAWM3000-NAWM4000
		Differential Pressure	NAWM2000
D	Auto drain	Float type (N.O.)	NAWM3000-NAWM4000
		Pressure Gauge	NAWM2000-NAWM4000

Accessories and Combinations

- ▼ Combination
- No Combination
- Refer to "How to Order"

Accessories	Suffix	D	D	C	1	2	4	6	8	C	J	N	R	W	Applicable Model		
															NAWD2000	NAWD3000	NAWD4000
Differential pressure auto drain	D				▼	▼	▼	▼	●	●	▼	▼	▼	▼	▼	▼	▼
Float auto drain (N.O)	D				▼	▼	▼	▼	●		▼	▼	▼	▼	▼	▼	▼
Float auto drain (N.C)	C				▼	▼	▼	▼	●		▼	▼	▼	▼	▼	▼	▼
3 ~ 30 psi (0.02 ~ 0.2 MPa)	-1	▼	▼	▼		▼		▼	●	●	●	▼	▼	●	▼	▼	▼
Metal bowl	-2	▼	▼	▼	▼	▼	▼	▼		●	●	▼	▼	▼	▼	▼	▼
3 ~ 60 psi (0.02 ~ 0.4 MPa)	-4	▼	▼	▼	▼	▼	▼	▼	●	●	●	▼	▼	●	▼	▼	▼
Nylon bowl	-6	▼	▼	▼	▼	▼	▼	▼		●	●	▼	▼	●	▼	▼	▼
Metal bowl with level gauge	-8		▼	▼	▼	▼	▼	▼		●	●	▼	▼	▼	▼	▼	▼
With bowl guard	-C	▼			▼	▼	▼	▼				▼	▼	▼	▼	▼	▼
Drain guide (1/4)	-J				▼	▼	▼	▼	●		▼	▼	▼	▼	▼	▼	▼
Non-relieving	-N	▼	▼	▼	▼	▼	▼	▼	●	●	●	▼	▼	●	▼	▼	▼
IN-OUT reversal (Right - Left)	-R	▼	▼	▼	▼	▼	▼	▼	●	●	●	▼	▼	●	▼	▼	▼
With barb fitting	-W				▼	▼	▼	▼				▼	▼		▼	▼	▼

Setting

- ❶ The adjustment knob is a locking type. Pull the knob away from the body until the orange band is visible. Adjust as necessary and push the knob back into its locked position to prevent accidental setting change.



- ❷ Clockwise rotation of the knob results in a pressure increase and vice-versa.
- ❸ Check supply pressure before adjusting pressure.

Precautions

<Installation>

- ❶ Air flush piping before installation.
- ❷ Use of the piping adaptors will ease installation.

<Atmosphere>

Polycarbonate bowls may be damaged and possibly fail if exposed to synthetic oils, thinner solvents, trichlorethylene, kerosene and other aromatic hydrocarbons. If used in above atmosphere, please use a metal bowl.

<Auto Drain>

Float type (Normally open)

- ❶ Drain line should be 5/16 in. (8mm) or more and should be less than 16.5 ft. (5m). Be sure not to have any upward turns in the drain line which would prevent drainage.
- ❷ Unsuitable for flow below 3.5 scfm(100Nℓ/min).
- ❸ Min. operating pressure 15 psig (0.1 MPa).

Float type (Normally closed)

- ❶ Suitable for a compressor with capacity lower than 0.75kw.
- ❷ Min. operating pressure 22 psig (0.15 MPa).
- ❸ Drain piping should be 5/32 in. (4mm) or greater and also less than 16.5 ft. (5m) in length.
- ❹ Install vertically.

Differential type

- ❶ Min. operating pressure 15 psig (0.1 MPa).
- ❷ Soft nylon tube of more than 3/32 in. (2.5mm) is recommended for drain piping. The overall length should be less than 16.5 ft. (5m). Be sure not to have any upward turns in the piping.
- ❸ Install vertically.

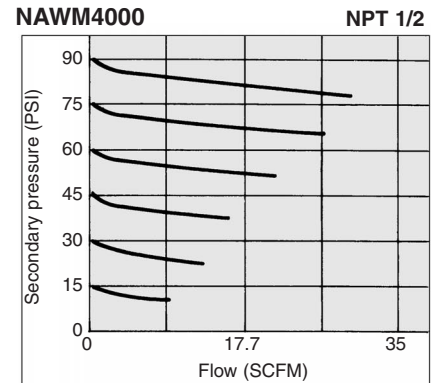
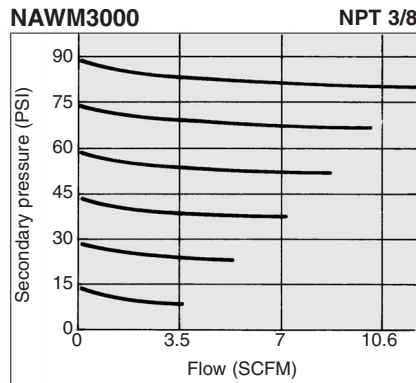
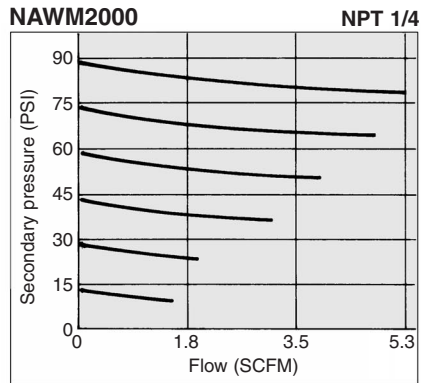
Maintenance

Filter element to be changed after 1 year of when a pressure drop of 15 psi (0.1 MPa) is reached.

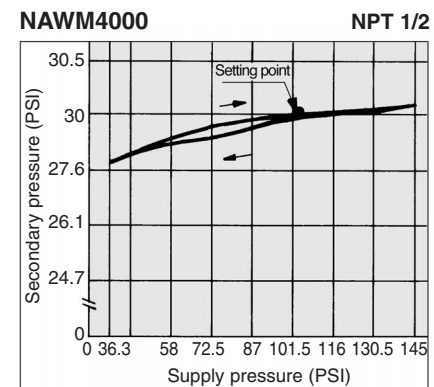
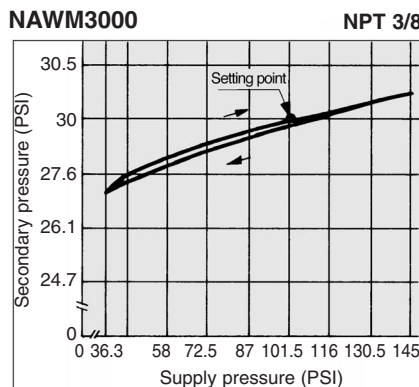
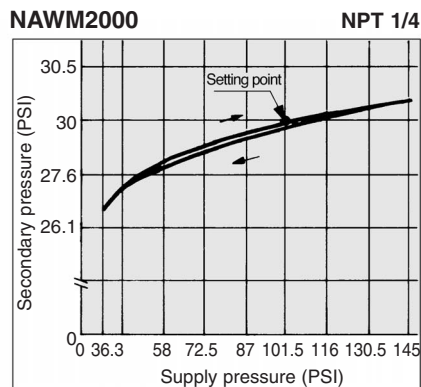
Mist Separator/Regulator

NAWM2000, 3000, 4000

Conditions: Supply pressure - 100 PSI

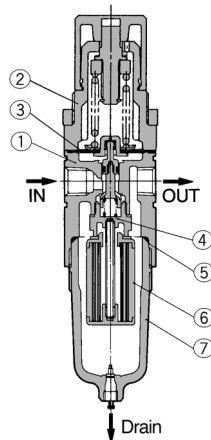


Conditions—100psi Supply Pressure, 30psi Set Pressure, .71SCFM Flow Rate

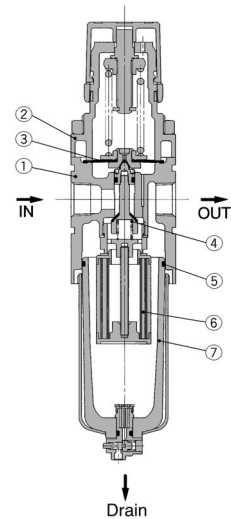


Construction/Parts List

NAWM2000



NAWM3000•4000



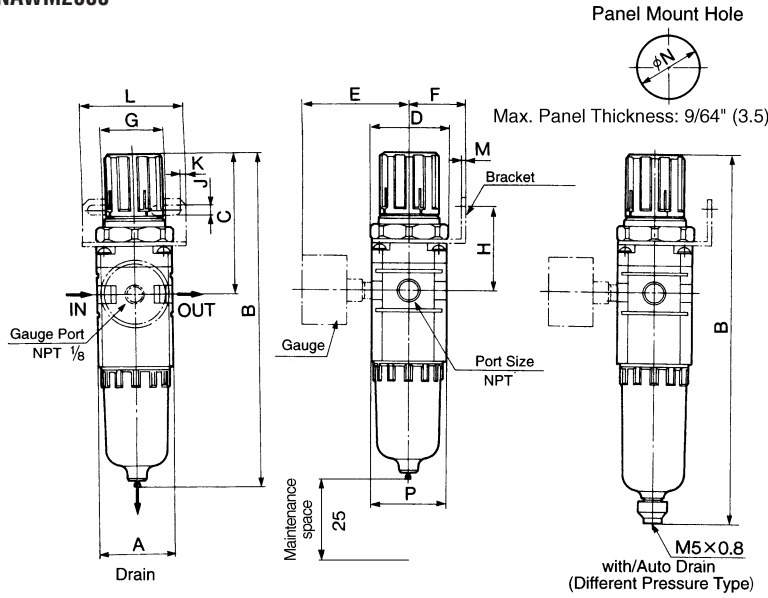
Main Parts

No.	Name	Material			Note
		NAWM2000	NAWM3000	NAWM4000	
①	Body	Zinc Die Cast	Aluminum Die Cast		Platinum silver painting
②	Bonnet	Polyacetal		Aluminum Die Cast	Black painting

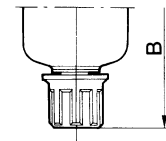
Component Parts List

No.	Parts Name	Material	Part No.		
			NAWM2000	NAWM3000	NAWM4000
③	Diaphragm ass'y	NBR	1349161A	131515A	131614A
④	Valve Guide	ZDC	131426	131565	131665
⑤	Bowl O-ring	NBR	11297	111512	111636
⑥	Element Ass'y	-	630611	630617	630623
⑦	Bowl and Guard Ass'y	Polycarbonate/SPC	NC200F-C	NC300F	NC400F

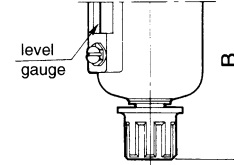
NAWM2000



with metal bowl



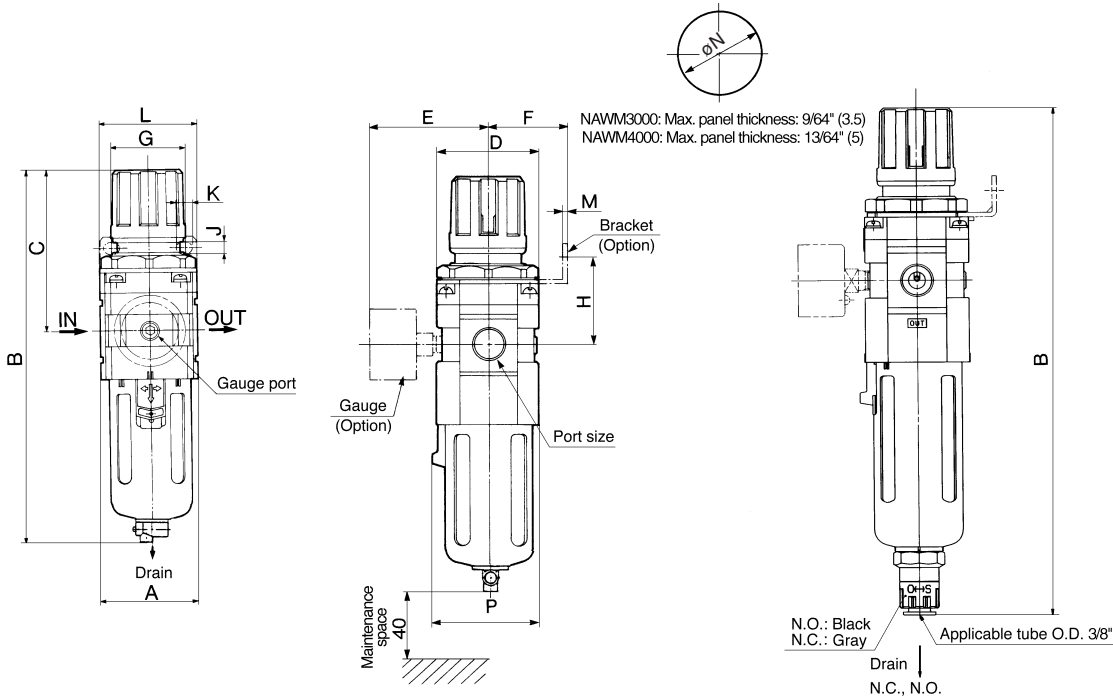
metal bowl with level gauge



Model	Metal bowl	Metal bowl with level gauge
	B	B
NAWM2000	54.71 (179.5)	—
NAWM3000	71.78 (235.5)	77.87 (255.5)
NAWM4000	87.47 (287)	93.57 (307)

NAWM3000 • 4000

Panel mounting hole



With float type auto drain

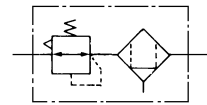
Model	Port Size NPT	A	B	C	D	E	With Bracket							N	P	With Auto Drain	
							F	G	H	J	K	L	M			Float	Differential Pressure
							B	B									
NAWM2000	1/8 • 1/4	1.57 (40)	7.07 (179.5)	3.07 (78)	1.69 (43)	2.28 (58)	1.18 (30)	1.34 (34)	1.73 (44)	.21 (5.4)	.61 (15.4)	2.17 (55)	.09 (2.3)	1.32 (33.5)	1.57 (40)	—	7.93 (201.5)
NAWM3000	1/4 • 3/8	2.09 (53)	8.76 (222.5)	3.64 (92.5)	2.09 (53)	2.44 (62)	1.61 (41)	1.57 (40)	1.81 (46)	.26 (6.5)	.31 (8.0)	2.09 (53)	.09 (2.3)	1.67 (42.5)	2.20 (56)	10.37 (263.5)	—
NAWM4000	1/4 • 3/8 • 1/2	2.76 (70)	10.79 (274)	4.41 (112)	2.76 (70)	2.76 (70)	1.97 (50)	1.97 (50)	2.13 (54)	.33 (8.5)	.41 (10.5)	2.76 (70)	.09 (2.3)	2.07 (52.5)	2.87 (73)	12.40 (315)	—

Micro Mist Separator/Regulator
NAWD2000, 3000, 4000

- Combination Micro Mist Separator/Regulator that provides 0.01µm filtration
- Combination Micro Mist Separator/Regulator saves space
- Use for instrumentation quality air
- Modular design connects with other SMC air preparation equipment



ANSI Symbol



NAWD3000-N03



NAWD2000-N02



NAWD3000-N03BG



NAWD2000-N02BG-C

Specifications

Model	NAWD2000	NAWD3000	NAWD4000
Port size NPT	1/8 • 1/4	1/4 • 3/8	1/4 • 3/8 • 1/2
Proof pressure psig (MPa)	220 (1.5)		
Max. operating pressure psig (MPa)	150 (1.0)		
Regulating range psig (MPa)	7 ~ 120 (0.05 ~ 0.85)		
Gauge connecting port	1/8 NPT	1/8 NPT	1/4 NPT
Ambient & media temperature	23° ~ 140° F (-5 ~ 60° C)		
Filtration	0.01µm		
Flow capacity SCFM*	3.2	6.4	15.9
Bowl material	Polycarbonate		
Construction/Regulator	Relieving style		
Weight lbs. (kgf)	.97 (0.44)	1.3 (0.59)	2.76 (1.25)
Bowl guard-STD	●	●	●

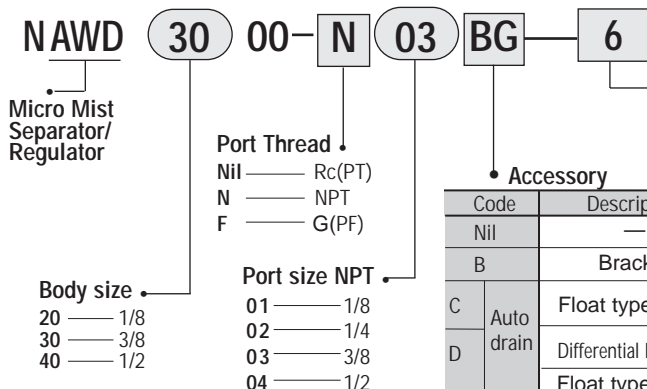
* Supply Pressure = 70 psig

Accessories (Optional)

Type	Part No.		
	NAWD2000	NAWD3000	NAWD4000
Bracket	B220	B320	B420
Pressure gauge	K40A-MP1.0-N01M	K40A-MP1.0-N01M	K50A-MP1.0-N02M
Float auto drain*	N.O.	-	NAD43
	N.C.	—	NAD53
Differential pressure auto drain	NAD62-C	-	-

* Min. operating pressure: N.O.–15 psig, N.C.– 22 psig.

How To Order



Code	Description	Applicable model
Nil	—	—
B	Bracket	NAWD2000-NAWD4000
C	Auto drain	Float type (N.C.)
D		Differential Pressure
		NAWD3000-NAWD4000
		NAWD2000
G	Pressure Gauge	NAWD2000-NAWD4000

Optional specifications

- Nil — None
- 1* — 3-30psig (0.02 ~ 0.2MPa) setting
- 2 — Metal bowl
- 4* — 3-30psig (0.02 ~ 0.4MPa) setting
- 6 — Nylon bowl
- 8 — Metal bowl with level gauge (only NAWD3000-NAWD4000)
- C — With bowl guard (Only NAWD2000)
- J — Drain Guide 1/4 Pipe Thread
- N — Non-relieving
- R — IN-OUT reversal
- W — Drain Cock with Barb Fitting for Nylon tube (ø6mm OD/ø4mm ID)

When specifying more than one option, please list numerically, then alphabetically.
*Not a maximum setting. Option 1 is more precise in the range of 3-30 psig. Option 4 is more precise in the range of 3-60 psig.

- ▼ Combination
- No Combination
- Refer to "How to Order"

Accessories and Combinations

Accessories	Suffix	D	D	C	1	2	4	6	8	C	J	N	R	W	Applicable Model		
															NAWD2000	NAWD3000	NAWD4000
Differential pressure auto drain	D				▼	▼	▼	▼	●	●	▼	▼	▼	▼	▼	▼	▼
Float auto drain (N.O)	D				▼	▼	▼	▼	●		▼	▼	▼	▼	▼	▼	▼
Float auto drain (N.C)	C				▼	▼	▼	▼	●		▼	▼	▼	▼	▼	▼	▼
3 ~ 30 psi (0.02 ~ 0.2 MPa)	-1	▼	▼	▼		▼		▼	●	●	●	▼	▼	●	▼	▼	▼
Metal bowl	-2	▼	▼	▼	▼		▼				●	▼	▼		▼	▼	▼
3 ~ 60 psi (0.02 ~ 0.4 MPa)	-4	▼	▼	▼		▼		▼	●	●	●	▼	▼	●	▼	▼	▼
Nylon bowl	-6	▼	▼	▼		▼				●	●	▼	▼	●	▼	▼	▼
Metal bowl with level gauge	-8	▼	▼	▼	▼		▼				●	▼	▼		▼	▼	▼
With bowl guard	-C	▼			▼		▼	▼				▼	▼		▼	▼	▼
Drain guide (1/4)	-J				▼	▼	▼	▼	●			▼	▼		▼	▼	▼
Non-relieving type	-N	▼	▼	▼	▼	▼	▼	▼	●	●	●	▼	▼	●	▼	▼	▼
IN-OUT reversal (Right - Left)	-R	▼	▼	▼	▼	▼	▼	▼	●	●	●	▼	▼	●	▼	▼	▼
With barb fitting	-W				▼	▼	▼	▼				▼	▼		▼	▼	▼

Setting

- ❶ The adjustment knob is a locking type. Pull the knob away from the body until the orange band is visible. Adjust as necessary and push the knob back into its locked position to prevent accidental setting change.



- ❷ Clockwise rotation of the knob results in a pressure increase and vice-versa.
- ❸ Check supply pressure before adjusting pressure.

Precautions

<Installation>

- ❶ Air flush piping before installation.
- ❷ Use of the piping adaptors will ease installation.

<Atmosphere>

Polycarbonate bowls may be damaged and possibly fail if exposed to synthetic oils, thinner solvents, trichlorethylene, kerosene and other aromatic hydrocarbons. If used in above atmospheres, please use a metal bowl.

<Auto Drain>

Float type (Normally open)

- ❶ Drain line should be 5/16 in. (8mm) or more and should be less than 16.5 ft. (5m). Be sure not to have any upward turns in the drain line which would prevent drainage.
- ❷ Unsuitable for flow below 3.5 scfm(100N/min).
- ❸ Min. operating pressure 15 psig (0.1 MPa).

Float type (Normally closed)

- ❶ Suitable for a compressor with capacity lower than 0.75kw.
- ❷ Min. operating pressure 22 psig (0.15 MPa).
- ❸ Drain piping should be 5/32 in. (4mm) or greater and also less than 16.5 ft. (5m) in length.
- ❹ Install vertically.

Differential type

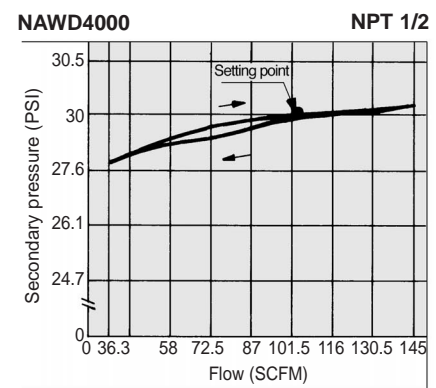
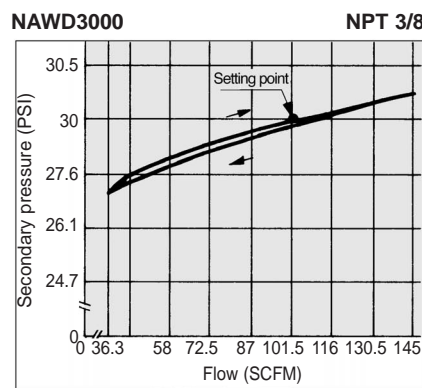
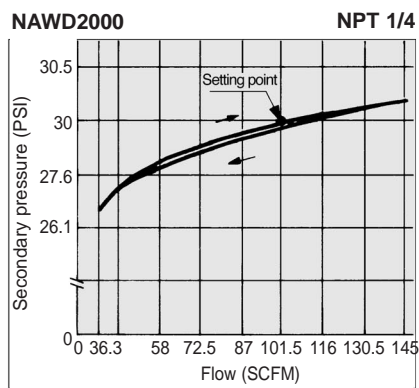
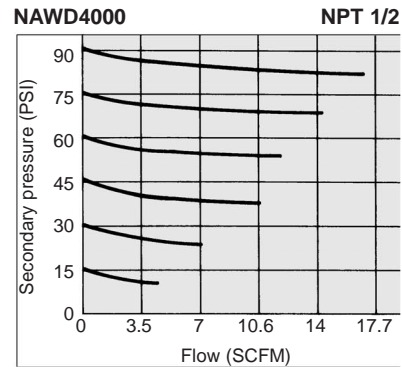
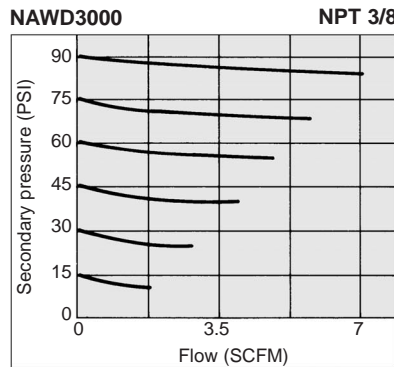
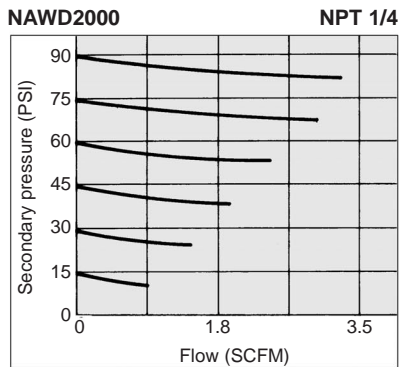
- ❶ Min. operating pressure 15 psig (0.1 MPa).
- ❷ Soft nylon tube of more than 3/32 in. (2.5mm) is recommended for drain piping. The overall length should be less than 16.5 ft. (5m). Be sure not to have any upward turns in the piping.
- ❸ Install vertically.

Maintenance

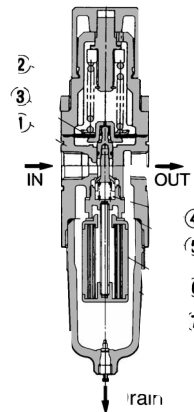
Filter element to be changed after 1 year of when a pressure drop of 15 psi (0.1 MPa) is reached.

Micro Mist Separator/Regulator
NAWD2000, 3000, 4000

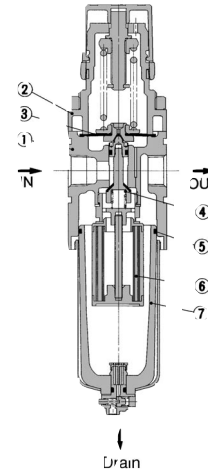
Condition Supply Pressure - 100 PSI



NAWD2000



NAWD3000•4000



Main Parts

No.	Name	Material			Note
		NAWD2000	NAWD3000	NAWD4000	
①	Body	Zinc Die Cast	Aluminum Die Cast		Platinum silver painting
②	Bonnet	Polyacetal		Aluminum Die Cast	Black painting

Component Parts List

No.	Parts Name	Material	Part No.		
			NAWD2000	NAWD3000	NAWD4000
③	Diaphragm ass'y	NBR	134916A	131515A	131614A
④	Valve Guide	ZDC	131426	131565	131665
⑤	Bowl O-ring	NBR	11297	111512	11636
⑥	Element ass'y	-	63092	63093	63094
⑦	Bowl and Guard ass'y	Polycarbonate/SPC	NC200F-C	NC300F	NC400F