

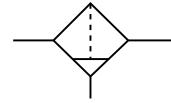
Filter

NAF1000, 2000, 3000, 4000, 5000, 6000

- Prevents contaminants from entering a pneumatic system.
- Modular design connects with other SMC Air Preparation Equipment.



ANSI Symbol



Specifications

Model	NAF1000	NAF2000	NAF3000	NAF4000	NAF4000-06	NAF5000	NAF6000
Port size NPT	10-32 Nom. (M5)	1/8 • 1/4	1/4 • 3/8	1/4 • 3/8 • 1/2	3/4	3/4 • 1	1
Max. supply pressure psig (MPa)	220 (1.5)						
Max. operating pressure psig (MPa)	150 (1.0)						
Ambient and media temperature	23° ~140° F (-5° ~ 60° C)						
Filtration	5µm						
Bowl material	Polycarbonate						
Bowl capacity ozs. (cm ³)	.08 (2.5)	.27 (8)	.78 (23)	1.52 (45)	1.52 (45)	1.52 (45)	1.52 (45)
Weight lbs. (kgf)	0.15 (0.07)	0.42 (0.19)	0.64 (0.29)	1.21 (0.55)	1.28 (0.58)	2.38 (1.08)	2.60 (1.18)
Accessory (standard)	Bowl guard	—	●	●	●	●	●

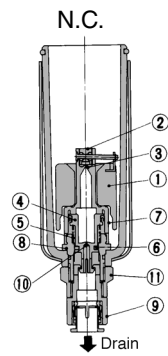
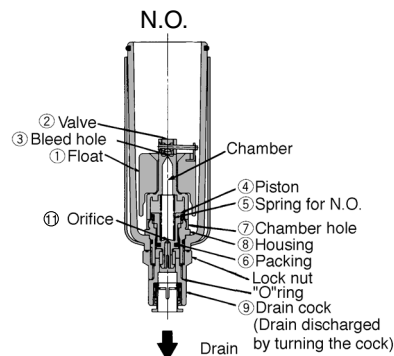
Attachments/Accessories (Optional)

Type	Part No.						
	NAF1000	NAF2000	NAF3000	NAF4000	NAF4000-06	NAF5000	NAF6000
Bracket	—	B240A	B340A	B440A	B540A	B640A	B640A
Float auto drain*	N.O.	—	—	NAD43	NAD44	NAD44	NAD44
	N.C.	—	—	NAD53	NAD54	NAD54	NAD54
Differential pressure auto drain*	NAD61	NAD62-C	—	—	—	—	—

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

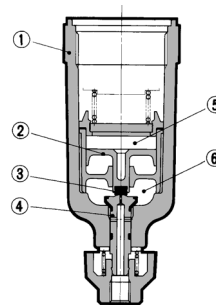
Auto Drain Types

Float Type (N.O.- NAD43•44 / N.C.- NAD53•54)



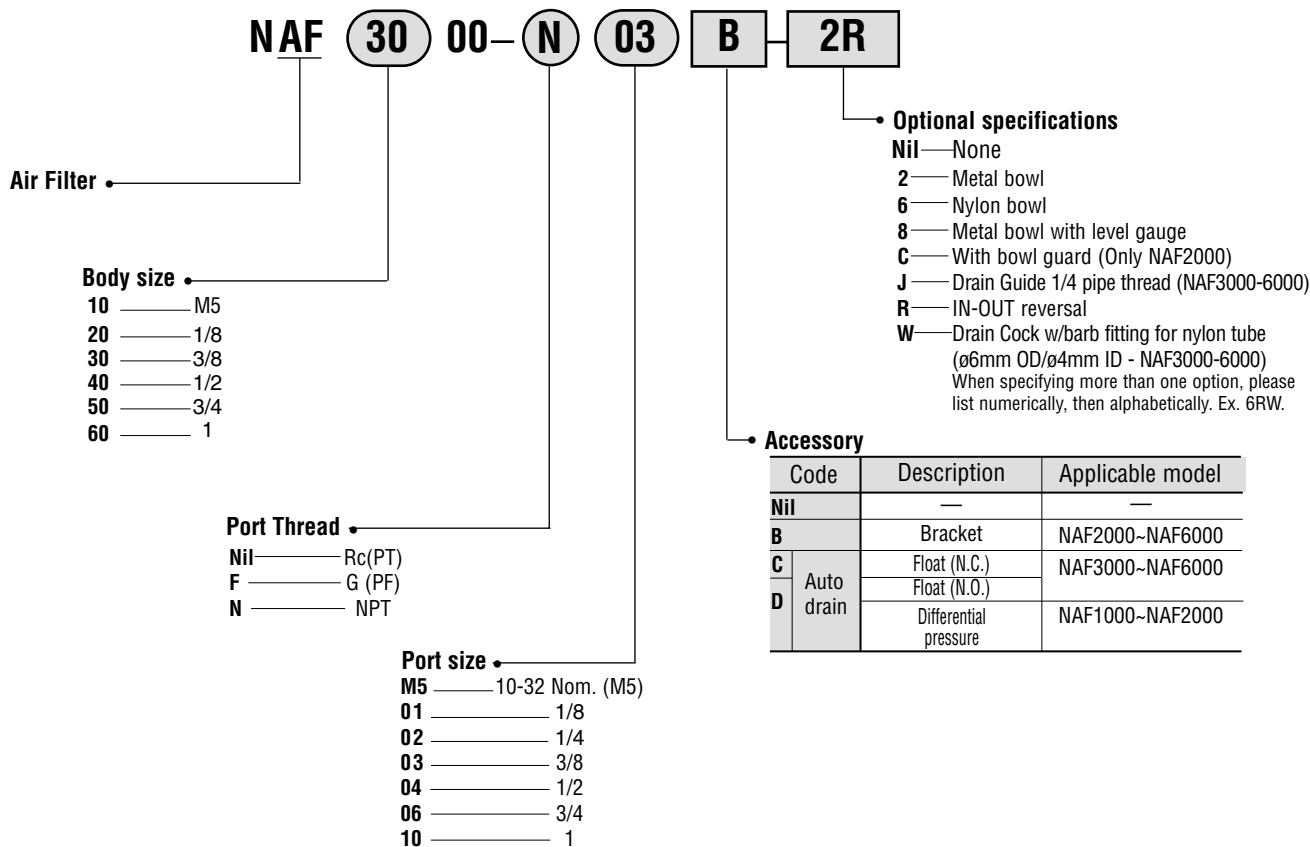
With no liquid inside the bowl, ① float is forced down by gravity and closes the valve ②. Piston ④ is held by spring ⑤ in position where it is sealed by O-ring ⑥. When liquid collects, float ① rises due to buoyancy, and opens the bleed hole ③ allowing pressure to enter the chamber. Piston ④ is forced down by pressure and liquid is exhausted through chamber hole ⑦, drain housing ⑧ and stem ⑩. When the liquid is exhausted and valve closes again, pressure in the chamber escapes through piston ④ and orifice ⑪ with the result that piston ④ is pushed upward by spring ⑤ to be sealed again by O-ring ⑥.

Differential Pressure (NAD61•62)



With no pressure in bowl, piston ② is forced down by gravity. When the piston is pressurized to 15 psi or higher, valve seat ③ closes. At this time the pressure of upper chamber ⑤ and lower chamber ⑥ will be the same. When air is consumed, pressure of the upper chamber decreases and a pressure differential is created between upper and lower chambers. Piston ② then raises and the valve ④ opens, draining the accumulated liquid. During the process of draining, the pressure of the lower chamber ⑥ decreases, pressurizing piston ② and the valve ④ closes. When air consumption is constant, the pressure of the two chambers are equal and valve ④ remains closed.

How to Order



▼ Combination
 □ No Combination
 ● Refer to "How to order"

Accessories and Combination Table

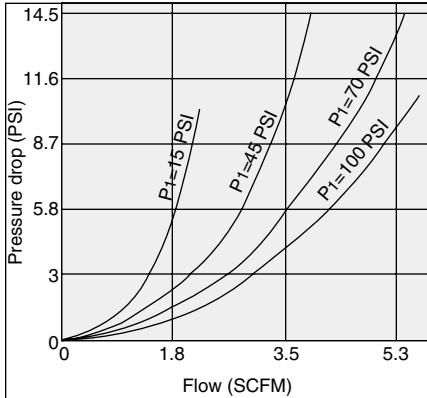
Accessory	Suffix	D	D	C	2	6	8	C	J	R	W	Applicable model			
												NAF1000	NAF2000	NAF3000	NAF4000 NAF6000
Differential pressure auto drain	D				▼	▼		●		▼		▼	▼		
Float auto drain (N.O.)	D				▼	▼	●			▼				▼	▼
Float auto drain (N.C.)	C				▼	▼	●			▼				▼	▼
Metal bowl	-2	▼	▼	▼					●	▼			▼	▼	▼
Nylon bowl	-6	▼	▼	▼				●	●	▼	●		▼	▼	▼
Metal bowl with level gauge	-8		▼	▼					●	▼				▼	▼
With bowl guard	-C	▼				▼				▼			▼		
Drain guide (1/4)	-J				▼	▼	●			▼				▼	▼
In-Out reversal	-R	▼	▼	▼	▼	▼	●	●	●		●		▼	▼	▼
Drain cock, with barb fitting	-W					▼				▼				▼	▼

Filter

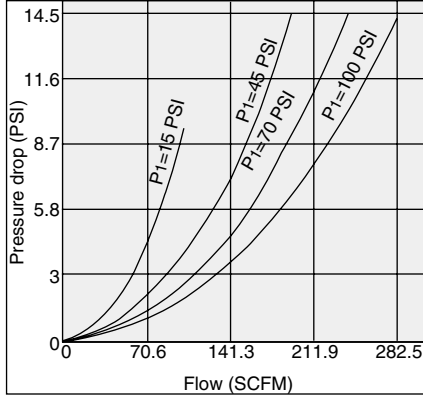
NAF1000, 2000, 3000, 4000, 5000, 6000

Flow Characteristics

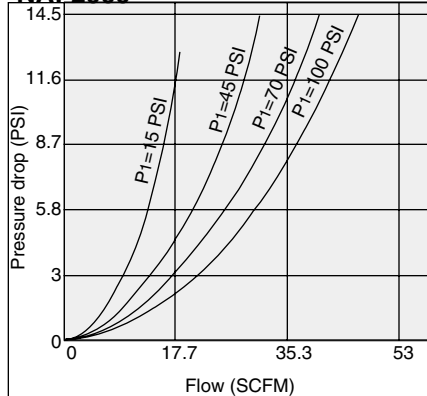
NAF1000



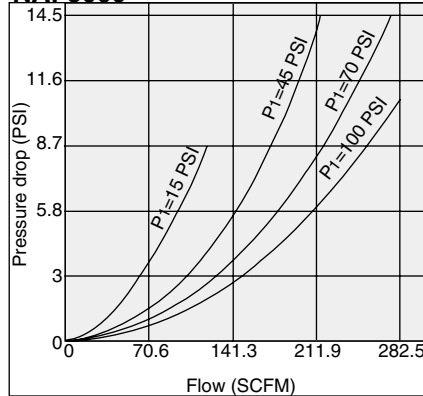
NAF4000-06



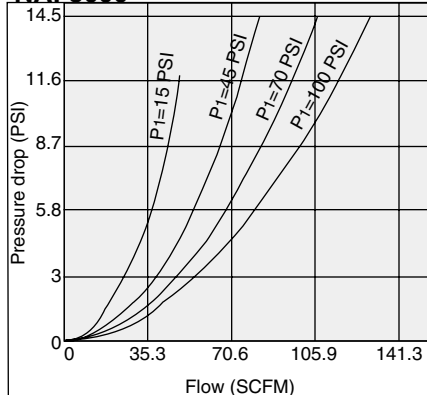
NAF2000



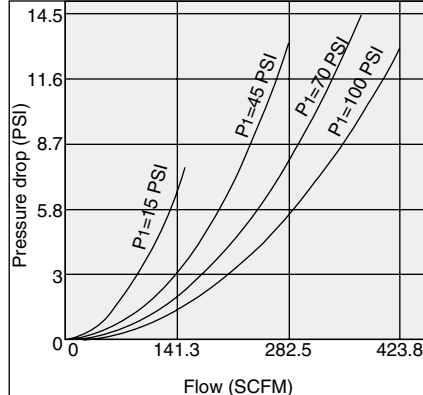
NAF5000



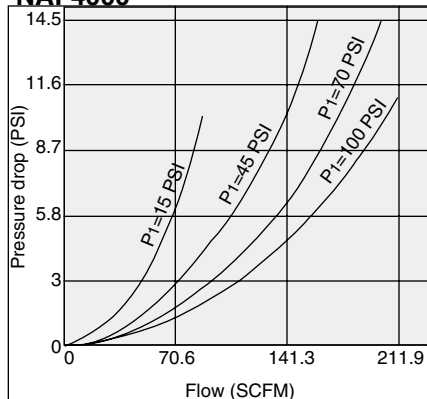
NAF3000



NAF6000



NAF4000



Precautions

Installation

- ❶ Flush piping before installation.

Atmosphere

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

Auto Drain

- ❶ 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.
- ❷ Unsuitable for flow below 3.5scfm (100Nℓ/min).
- ❸ Min. operating pressure 15psi (0.1MPa).

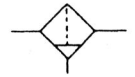
Differential type

- ❶ Min. operating pressure 15psi (0.1MPa).
- 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

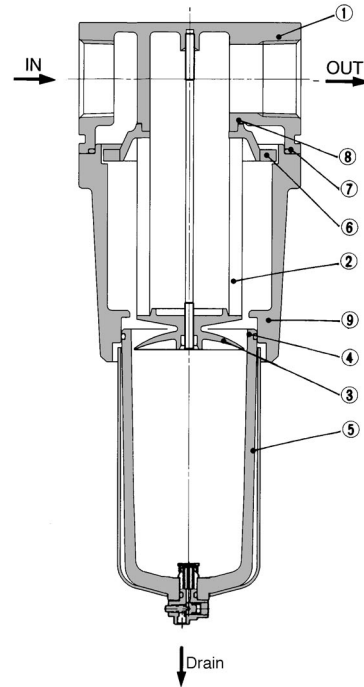
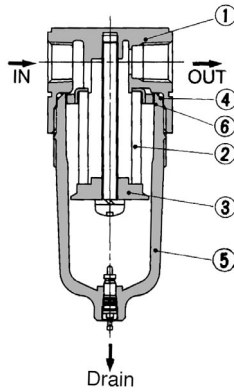
- ❶ Filter element to be changed after 1 year or when a pressure drop of 15psi (0.1MPa) is reached.



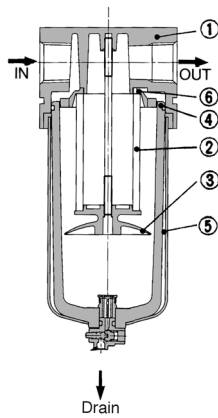
Construction/Parts List

NAF1000 • 2000

NAF5000 • 6000



NAF3000 • 4000



Main Parts

	Name	Material			Note
		NAF1000• 2000	NAF3000• 4000• 4000-N06	NAF5000• 6000	
①	Body	Zinc die casting	Aluminum die casting		Platinum silver painting
⑨	Housing	—		Aluminum die casting	Platinum silver painting

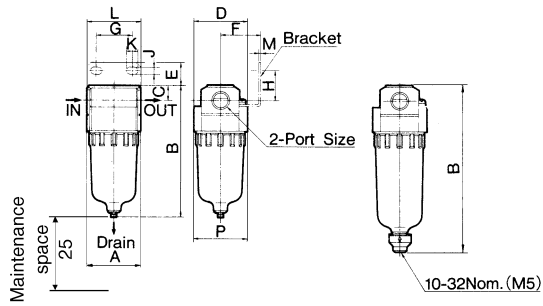
Parts List

	Name	Material	Part No.						
			NAF1000	NAF2000	NAF3000	NAF4000	NAF4000-N06	NAF5000	NAF6000
②	Filter Element	Polyolefin	111344	1129116	111585	1116103	1116103	111724	111825
③	Baffle	ABS	111312	—	—	—	—	111727	111824
		PBT	—	11295	111522	111622	111622	—	—
④	O-ring	NBR	111325	11297	111512	111636	111636	111636	111636
⑤	Bowl assembly	Polycarbonate	NC100F	NC200F-C	NC300F	NC400F	NC400F	NC400F	NC400F
⑥	Deflector	ABS	11133A	—	—	—	—	111726	111823
		PBT	—	1129111	11158	11167	11167	—	—
⑦	O-ring	NBR	—	—	—	—	—	111710	11189
⑧	Packing	NBR	—	—	—	—	—	111711	111810

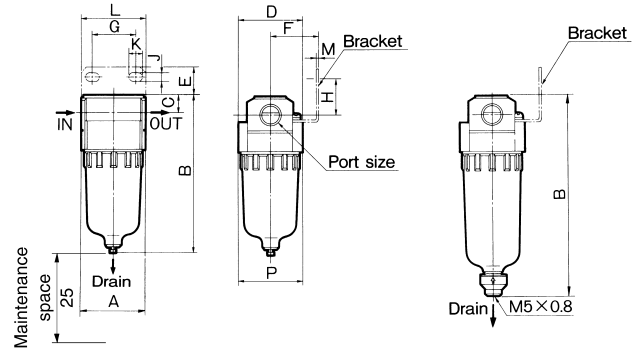
Dimensions

NAF1000, 2000, 3000, 4000, 5000, 6000

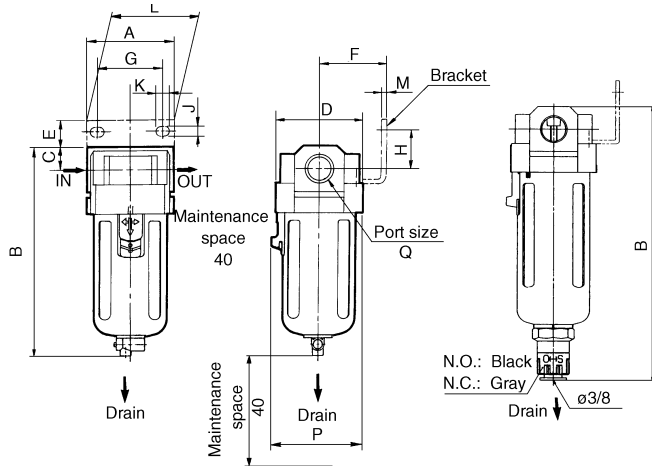
NAF1000



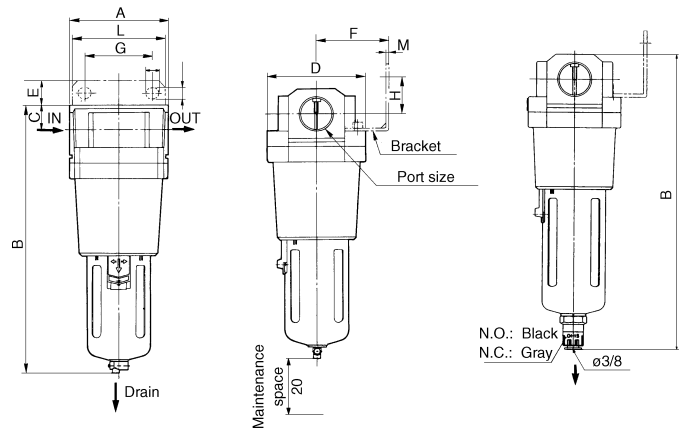
NAF2000



NAF3000•4000•4000-06



NAF5000•6000



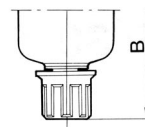
(mm)

Model	Port size	A	B	C	D	E	F	G	H	J	K	L	M	P	With auto drain	
															Float B	Differential pressure B
NAF1000	10-32 Nom. (M5)	0.98 (25)	2.60 (66)	0.28 (7)	0.98 (25)	—	—	—	—	—	—	—	—	1.08 (27.5)	—	3.41 (86.5)
NAF2000	1/8 • 1/4	1.57 (40)	3.84 (97.5)	0.43 (11)	1.57 (40)	0.67 (17)	1.18 (30)	1.06 (27)	0.87 (22)	0.21 (5.4)	0.33 (8.4)	1.57 (40)	0.09 (2.3)	1.57 (40)	—	4.74 (120.5)
NAF3000	1/4 • 3/8	2.09 (53)	5.08 (129)	0.55 (14)	2.09 (53)	0.63 (16)	1.61 (41)	1.57 (40)	0.91 (23)	0.26 (6.5)	0.31 (8)	2.09 (53)	0.09 (2.3)	2.20 (56)	6.69 (170)	—
NAF4000	1/4 • 3/8 • 1/2	2.76 (70)	6.50 (165)	0.71 (18)	2.76 (70)	0.67 (17)	1.97 (50)	2.13 (54)	1.02 (26)	0.33 (8.5)	0.41 (10.5)	2.76 (70)	0.09 (2.3)	2.87 (73)	8.11 (206)	—
NAF4000-N06	3/4	2.95 (75)	6.55 (169)	0.79 (20)	2.76 (70)	0.55 (14)	1.97 (50)	2.13 (54)	0.98 (25)	0.33 (8.5)	0.41 (10.5)	2.76 (70)	0.09 (2.3)	2.87 (73)	8.27 (210)	—
NAF5000	3/4 • 1	3.54 (90)	9.61 (244)	0.94 (24)	3.54 (90)	0.91 (23)	2.76 (70)	2.60 (66)	1.38 (35)	0.43 (11)	0.51 (13)	3.54 (90)	0.13 (3.2)	—	11.24 (285.5)	—
NAF6000	1	3.74 (95)	10.16 (258)	0.94 (24)	3.74 (95)	0.91 (23)	2.76 (70)	2.60 (66)	1.38 (35)	0.43 (11)	0.51 (13)	3.54 (90)	0.13 (3.2)	—	11.79 (299.5)	—

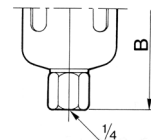
Model	Metal Bowl	w/ Drain Guide	Drain Cock w/ barb fitting	Metal bowl w/ level gauge
	B	B	B	B
NAF1000	2.60 (66)	—	—	—
NAF2000	3.84 (97.5)	—	—	—
NAF3000	5.59 (142)	5.31 (135)	5.41 (137.5)	6.38 (162)
NAF4000	7.01 (178)	6.73 (171)	6.83 (173.5)	7.80 (198)
NAF4000-N06	7.17 (182)	6.89 (175)	6.99 (177.5)	7.95 (202)
NAF5000	10.12 (257)	9.84 (250)	9.94 (252.5)	10.91 (277)
NAF6000	10.67 (271)	10.39 (264)	10.49 (266.5)	11.46 (291)

Semi-standard Type

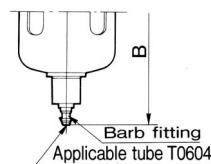
Metal bowl



With drain guide



Drain cock/with barb fitting



Metal bowl with level gauge

