

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
D		Float type (N.O.)
G	Pressure Gauge	NAW1000
G		NAW2000-NAW4000-N06

Accessories And Combinations

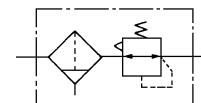
- ▼ Combination
- No Combination
- Refer to "How to Order"

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				▼	●	●	▼				▼	▼				▼	▼

- 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



ANSI Symbol



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.

- 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

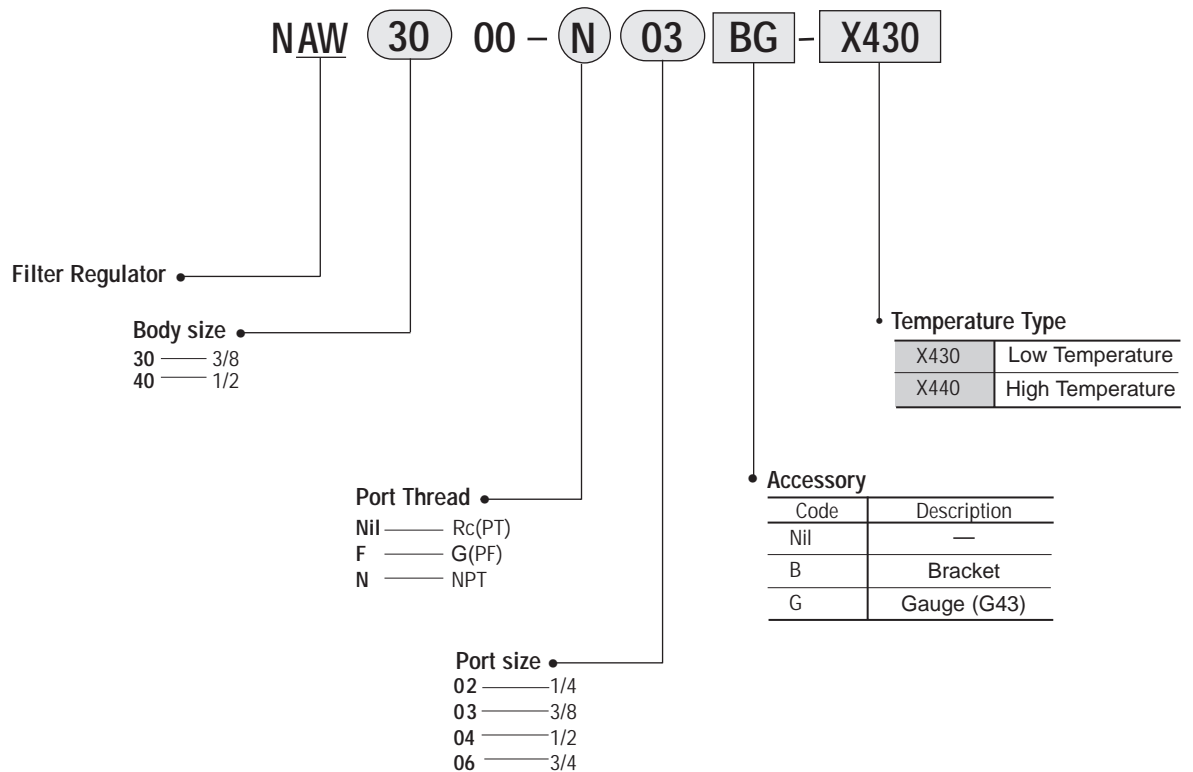
Specifications (Low Temp) -X430

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



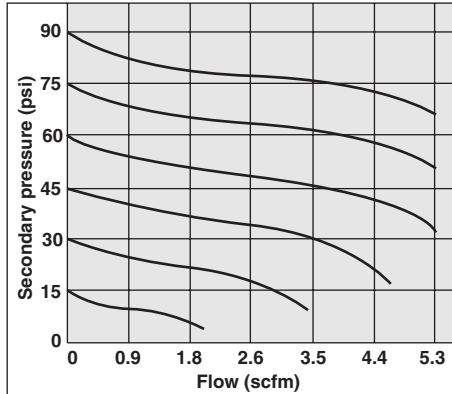
Filter/Regulator

NAW1000, 2000, 3000, 4000

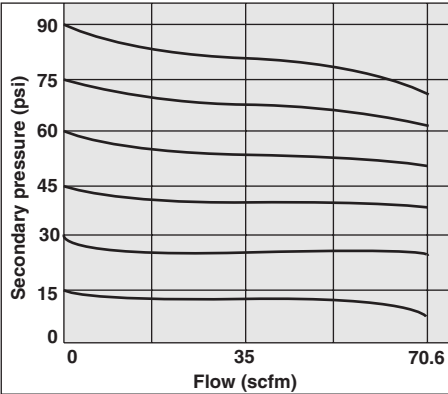
Flow Characteristics

Conditions: Supply pressure 100 psig

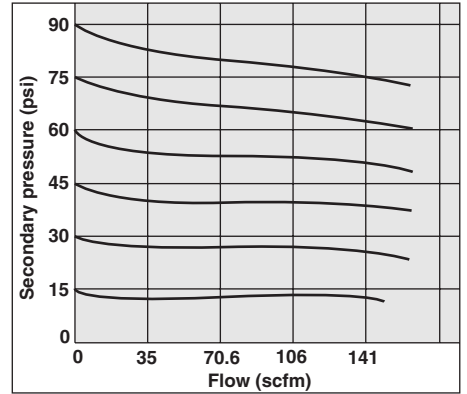
NAW1000 M5X0.8



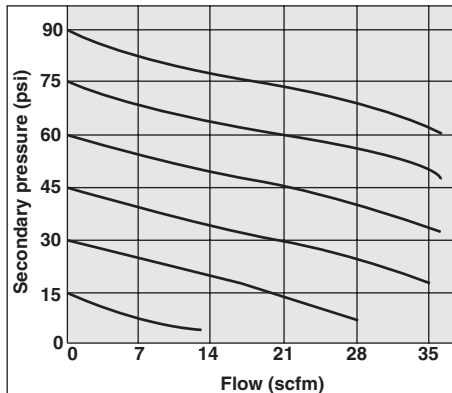
NAW3000 NPT 3/8



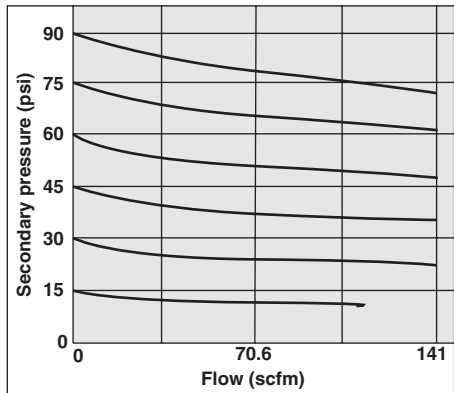
NAW4000-06 NPT 3/4



NAW2000 NPT 1/4



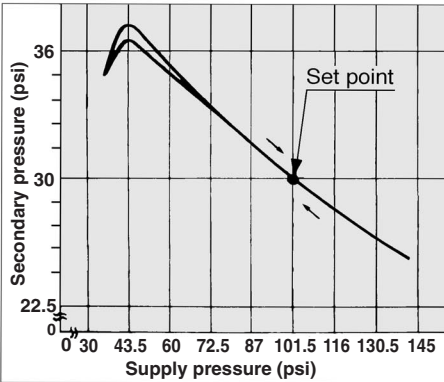
NAW4000 NPT 1/2



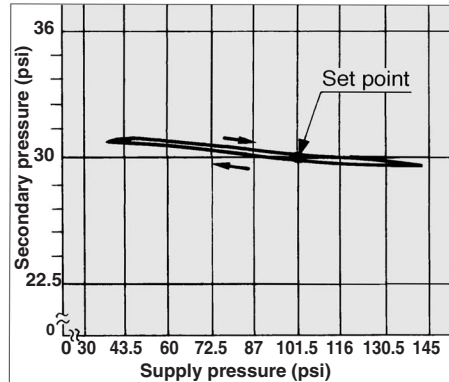
Pressure Characteristics

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

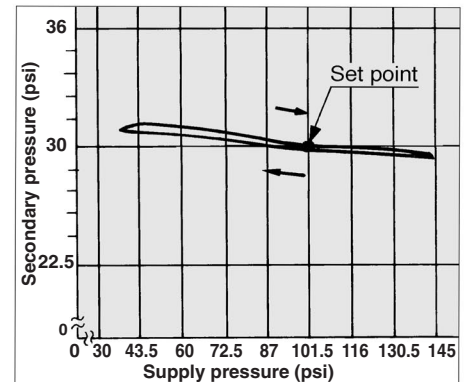
NAW1000 M5X0.8



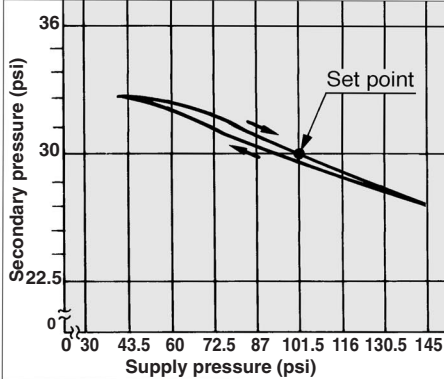
NAW3000 NPT 3/8



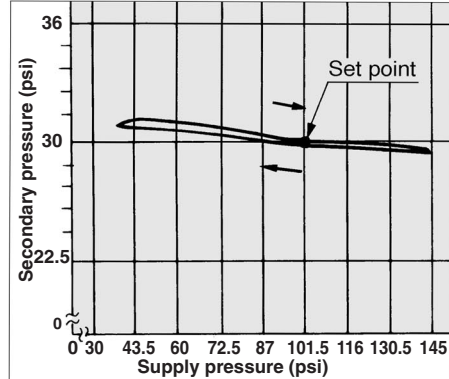
NAW4000-06 NPT 3/4



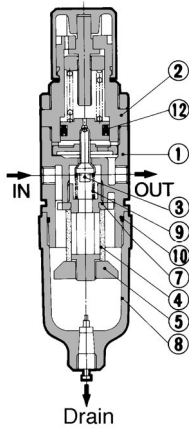
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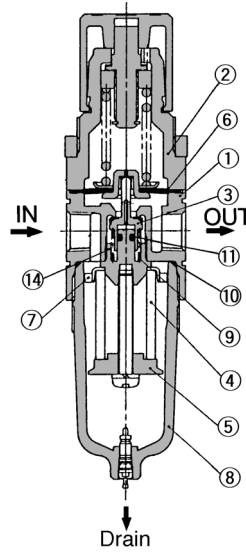
NAW4000 NPT 1/2



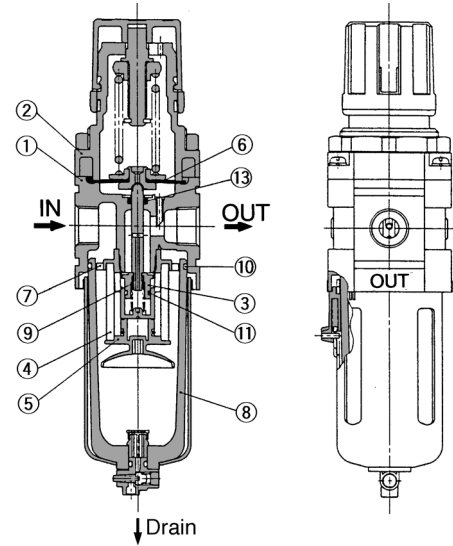
NAW1000



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

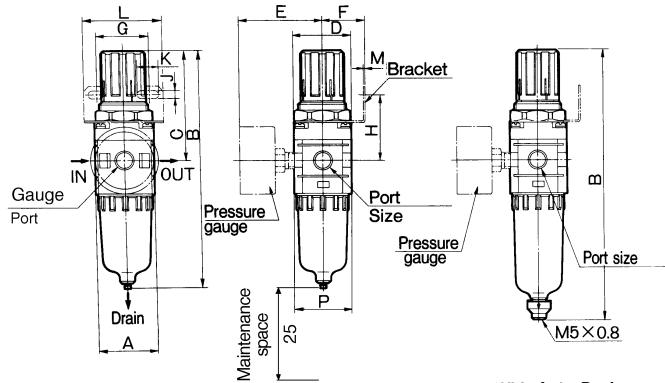
NAW1000, 2000, 3000, 4000

NAW1000•2000

Panel cut hole



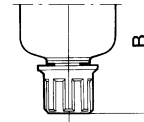
Max. Panel thickness: 9/64" (3.5)



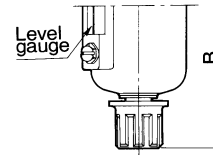
With Auto Drain
(Differential pressure type)

Semi-standard Type/Dimensions

Metal Bowl



Metal bowl with level gauge



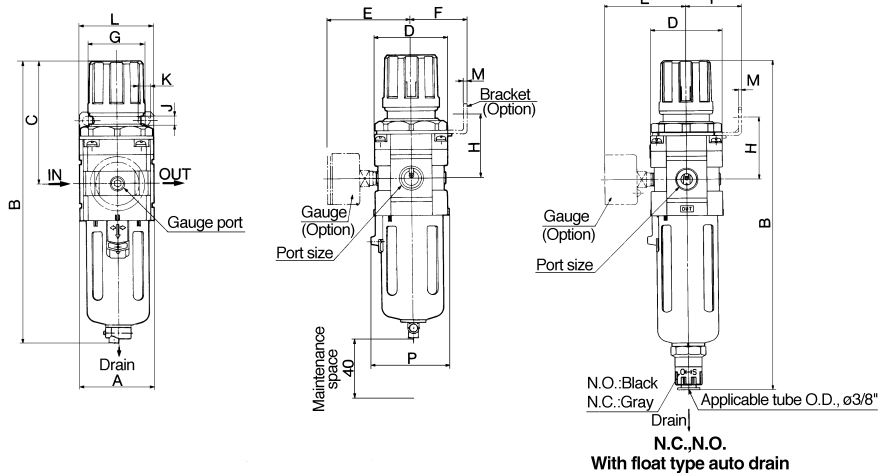
Model	Metal bowl	Metal bowl with level gauge
	B	B
NAW1000	4.31 (109.5)	—
NAW2000	6.48 (164.5)	—
NAW3000	8.68 (220.5)	9.47 (240.5)
NAW4000	10.71 (272)	11.50 (292)
NAW4000-N06	10.89 (276.5)	11.67 (296.5)

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)	—