

- Quickly exhausts air pressure on secondary side
- Internal check valve allows for reverse flow for precise force control of extending and retracting cylinder applications
- Modular design connects with other SMC air preparation equipment



NAR4060



NAR3060



NAR2560

## Specifications

Model	NAR1000	NAR2060	NAR2560	NAR3060	NAR4060	NAR4060-N06	NAR5060	NAR6060
Port size	10-32 Nom (M5)	1/8 • 1/4	1/4 • 3/8	1/4 • 3/8	1/4 • 3/8 • 1/2	3/4	3/4 • 1	1
Proof pressure psig (MPa)	220 (1.5)							
Max oper. pressure psig (MPa)	150 (1.0)							
Regulating range pres. psig (MPa)	7~100 (0.05~0.7)		15~120 (0.1~0.85)					
(OUT → IN) Cv	0.15	1/8: 0.33 1/4: 0.36	1/4: 1.00 3/8: 1.11 0.36	1/4: 1.44 3/8: 1.72	1/4: 1.88 3/8: 3.11 1/2: 4.66 0.36	5.11	3/4: 7.05 1: 7.28	11.28
Gauge port size	1/16 Rc(PT)	1/8 NPT	1/8 NPT	1/8 NPT	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT
Ambient and media temperature	23° ~ 140° F (-5 ~ 60° C)							
Construction	Relieving style							
Weight lbs. (Kgf)	0.18 (0.08)	0.57 (0.26)	0.57 (0.26)	0.86 (0.39)	1.85 (0.84)	2.07 (0.94)	2.62 (1.19)	3.42 (1.55)

## Accessories (Optional)

Name	Part No.							
	NAR1000	NAR2060	NAR2560	NAR3060	NAR4060	NAR4060-N06	NAR5060	NAR6060
Bracket	B120	B220	B220	B320	B420	B420	B640A	B640A
Gauge	G27-P10-R1	K40A-MP1.0-N01M			K50A-MP1.0-N02M			

## How To Order

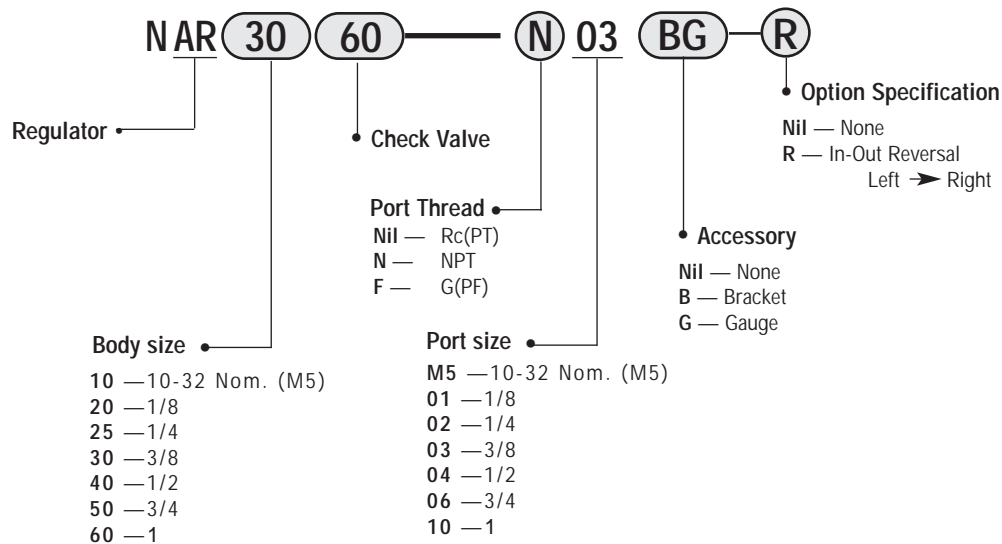


Figure 1

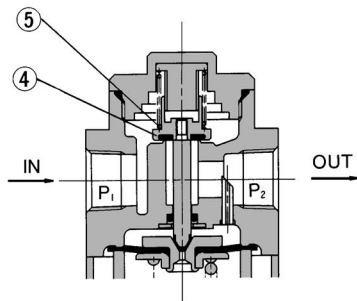
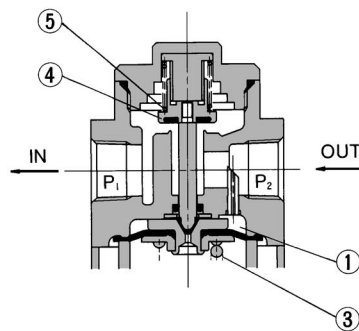


Figure 2



When primary pressure ( $P_1$ ) is higher than the secondary pressure ( $P_2$ ), the operation follows that of a standard regulator (see Figure "1"). If  $P_1$  is exhausted by shifting a valve,  $P_1$  is reduced and the pressure under the regulator valve (4) will vent to  $P_1$ . Therefore, the force pushing on the regulator valve (4) will be reduced to only the valve spring (5) which opens the passage from  $P_2$  to  $P_1$ . This slowly decreases the pressure in the lower chamber of the diaphragm (1) and the force of the adjustment spring (3) exerts a force directly to the valve stem. This completely opens the flow path from  $P_2$  to  $P_1$  (see Figure "2") and quickly exhausts the pressure from  $P_2$  to  $P_1$ .

Figure 1

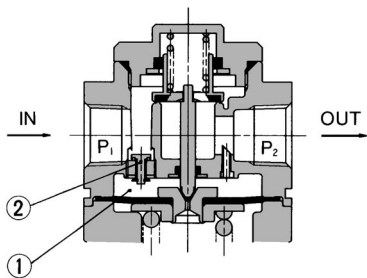


Figure 2

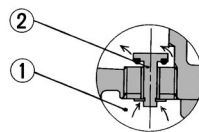
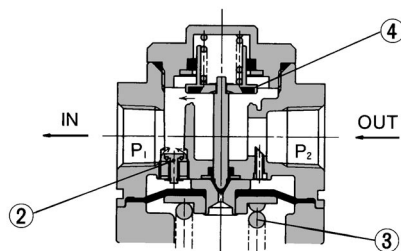


Figure 3



When primary pressure ( $P_1$ ) is higher than the secondary pressure ( $P_2$ ), the internal check valve (2) will seat, and the operation follows that of a standard regulator (see Figure "1"). If  $P_1$  is exhausted by shifting a valve, the internal check valve (2) will crack open ( $P_1$  is less than the pressure in the lower diaphragm chamber (1)). See Figure "2". The force of the adjustment spring (3) pushes directly on the valve stem and opens the Flow path from  $P_2$  to  $P_1$  completely (see Figure "3") and quickly exhausts the pressure from  $P_2$  to  $P_1$ .

## Setting

- 1 The adjustment knob is the 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.



- 2 Turning the adjustment knob clockwise increases the pressure and turning the knob counter clockwise will reduce the pressure. Check supply pressure before adjusting pressure.

## Precautions

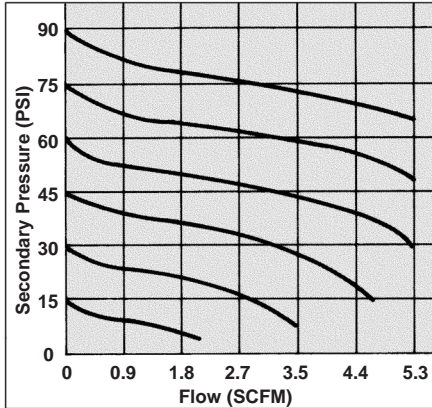
<Installation>

- 1 Air flush piping before installation.
- 2 Install with at least 2.5 in. of free space below the unit to allow easy access.

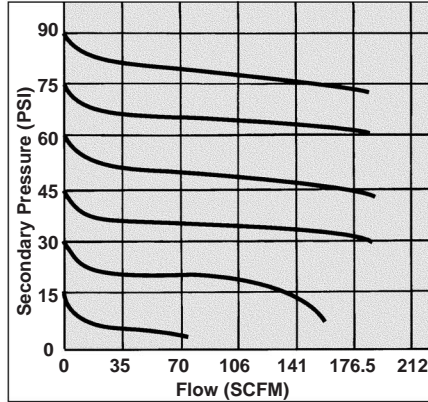
Flow Characteristics

Conditions: Supply pressure 100 psi

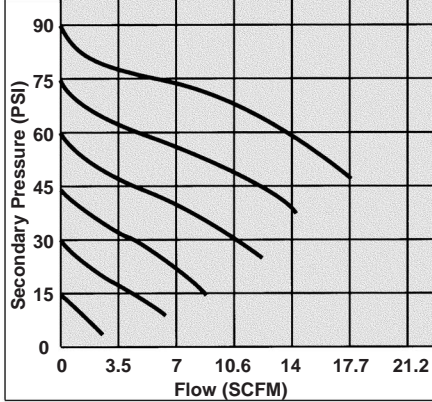
**NAR1000** M5



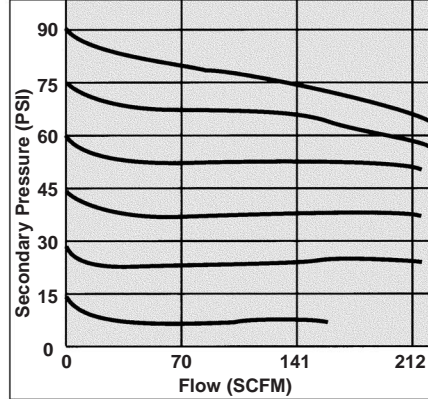
**NAR4060** NPT 1/2



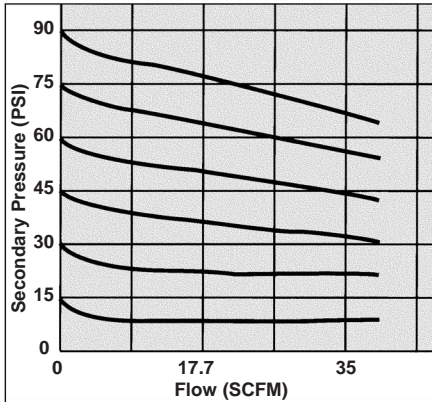
**NAR2060** NPT 1/4



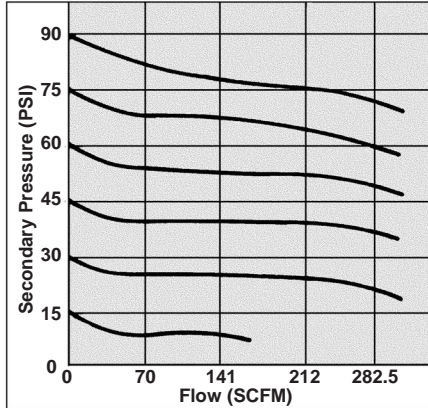
**NAR4060-06** NPT 3/4



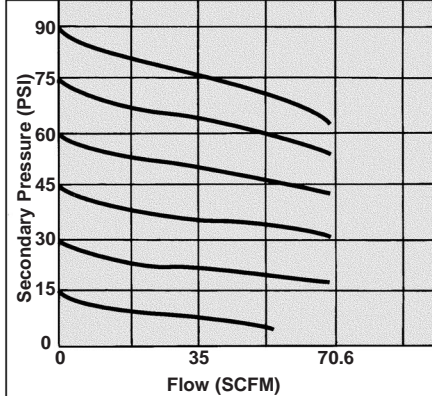
**NAR2560** NPT 3/8



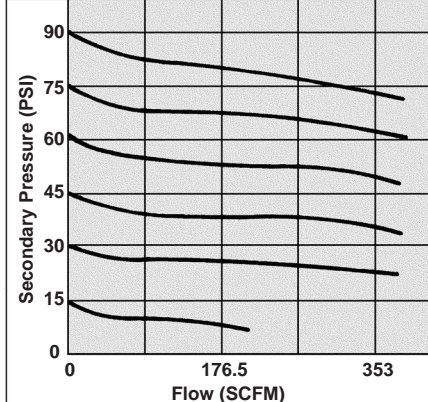
**NAR5060** NPT 3/4



**NAR2060** NPT 3/8



**NAR4060-06** NPT 1





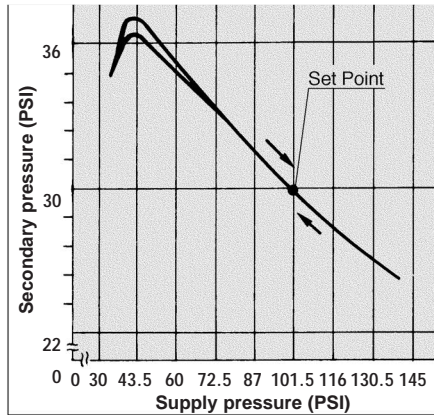
## Pressure Characteristics

NAR 1000, 2060, 2560, 3060, 4060, 5060, 6060

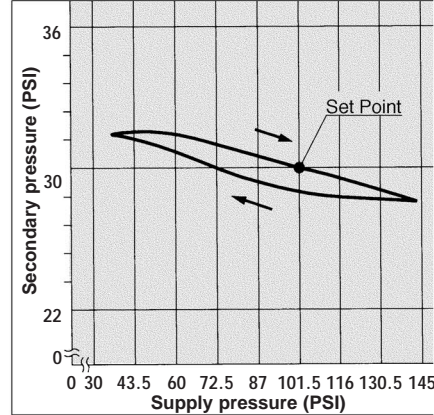
### Pressure Characteristics

Conditions: Supply pressure 100 psi  
 Secondary pressure 30 psi  
 Flow rate .7 SCFM

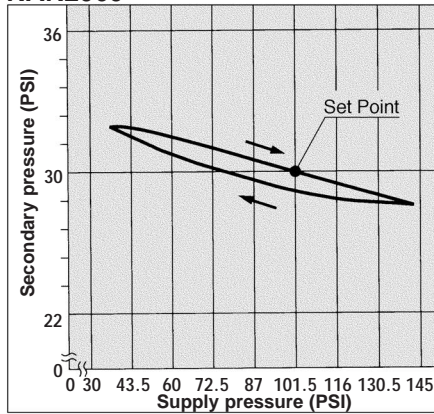
**NAR1000**



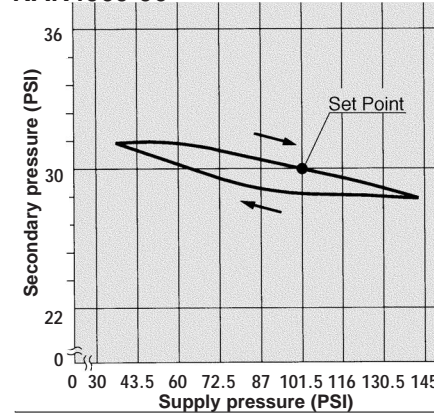
**NAR4060**



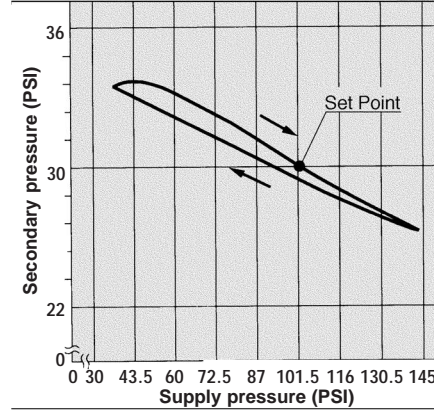
**NAR2060**



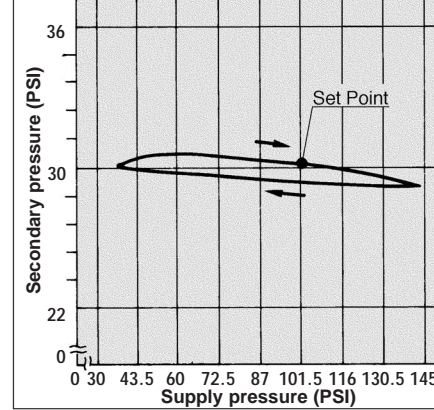
**NAR4060-06**



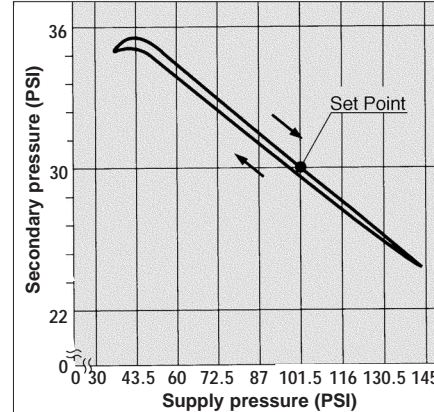
**NAR2060**



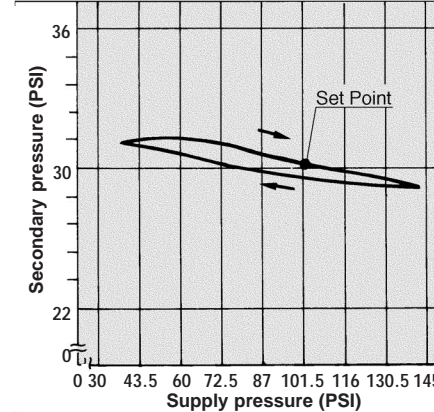
**NAR4060-06**



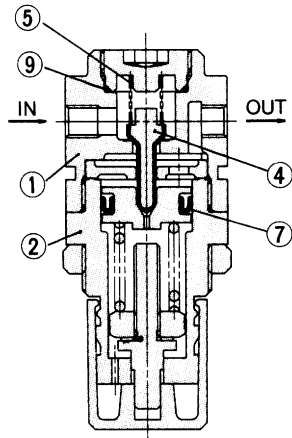
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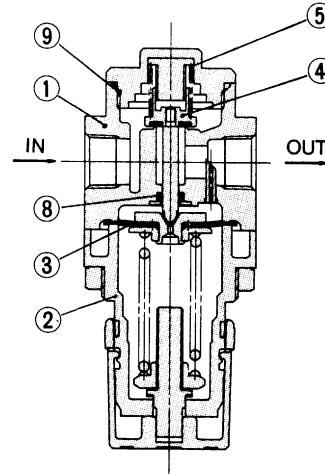
**NAR4060-06**



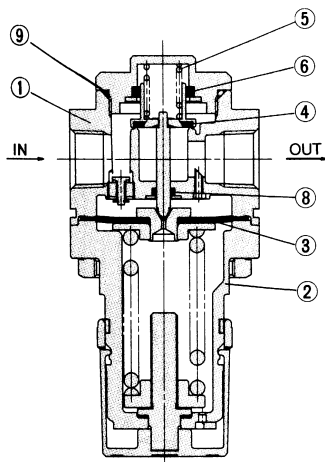
NAR1000



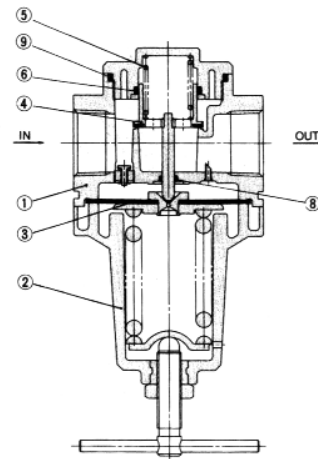
NAR2060 • 2560 • 306



NAR4060•5060



NAR6060



Main Parts

No.	Name	Material			Note
		NAR1000•2060	NAR2560•3060	NAR4060-6060	
①	Body	Zinc die casting	Aluminum die casting		Platinum silver painting
②	Bonnet	Polyacetal		Zinc die casting	Black painting (NAR4060-NAR6060)

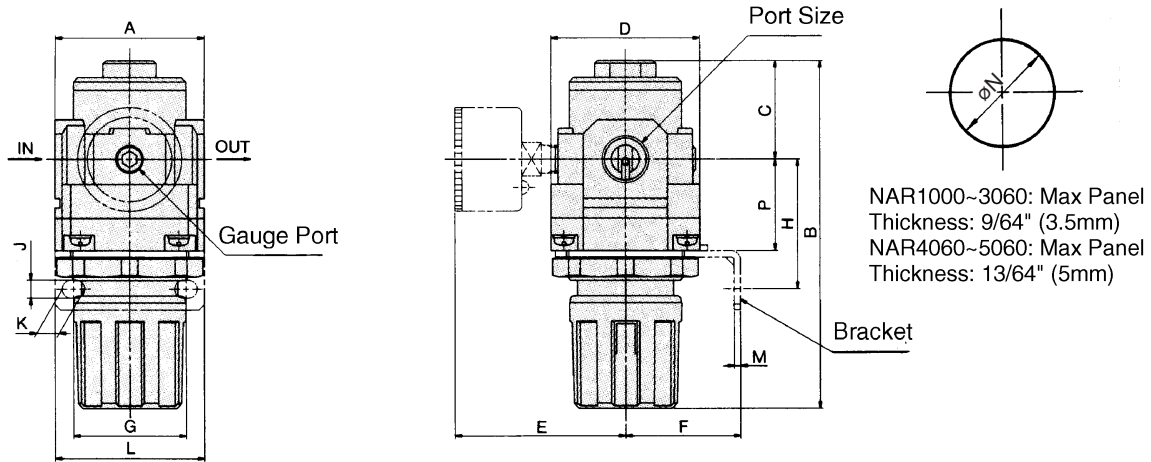
Component Parts List/Packing List

No.	Parts Name	Material	Part No.							
			NAR1000	NAR2060	NAR2560	NAR3060	NAR4060	NAR4060-N06	NAR5060	NAR6060
⑤	Diaphragm ass'y	NBR	—	134926A	131450A	1315528A	1316108A	1316108A	1316108A	131815A
④	Valve ass'y	Brass•NBR	134819-30	1349304	131449A	1315529A	13165A	131653A	131750A	13184A
⑤	Valve spring	Stainless steel	134824	XTO-3503	131463	1315121	1316172	1316172	13174	131810
⑥	Valve O-ring	NBR	—	—	—	—	ø22.53 X ø15.47 X ø3.53		131710	131811
⑦	Piston mini Y packing	NBR	NYN-10A	—	—	—	—	—	—	—
⑧	O-ring	NBR	—	—	P3	P5	P5	P5	P5	P6
⑨	O-ring	NBR	131336	P14	P22	131545	131647	131647	G50	G55

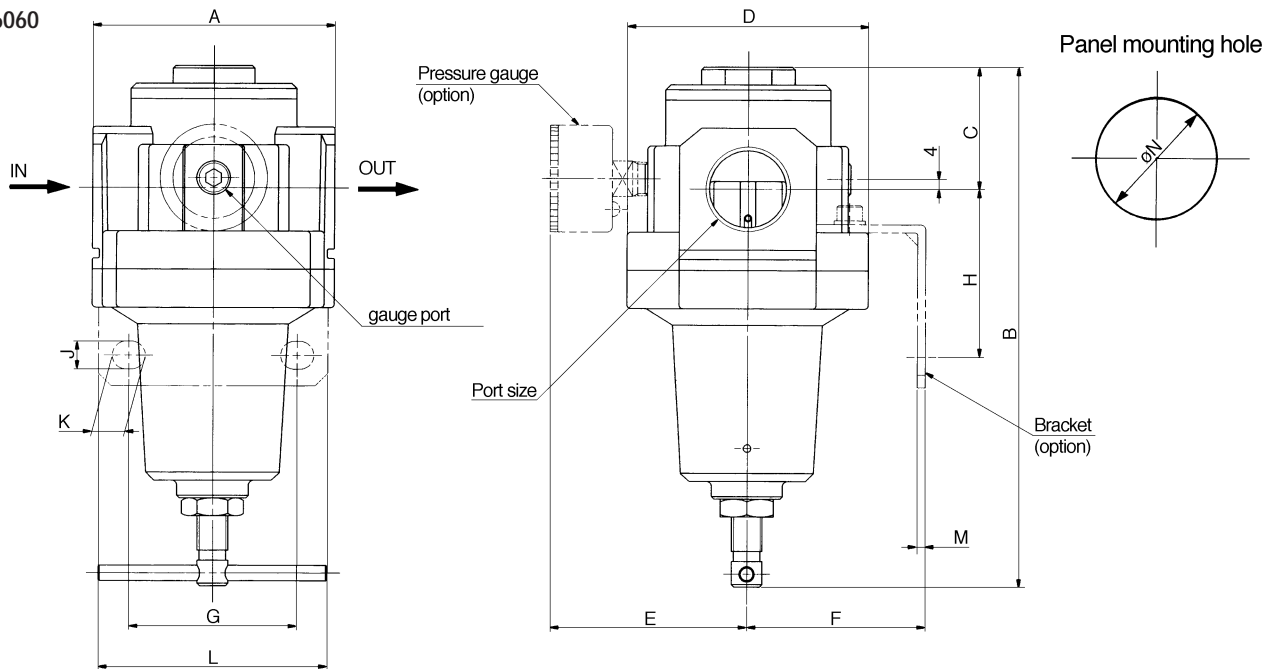
## Dimensions

NAR 1000, 2060, 2560, 3060, 4060, 5060, 6060

### NAR1000-5060



### NAR6060



inch (mm)

Model	Port size	A	B	C	D	E	With Bracket							N	P
							F	G	H	J	K	L	M		
NAR1000	10-32 Nom. (M5)	.98 (25)	2.42 (61.5)	.43 (11)	.98 (25)	1.02 (26)	.98 (25)	1.10 (28)	1.18 (30)	.18 (4.5)	.26 (6.5)	1.57 (40)	.08 (2)	.81 (20.5)	.75 (19)
NAR2060	1/8 • 1/4	1.57 (40)	3.66 (93)	.59 (15)	1.57 (40)	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)	.98 (25)
NAR2560	1/4 • 1/8	2.09 (53)	4.04 (102.5)	.98 (25)	1.89 (48)	2.44 (62)	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)	.98 (25)
NAR3060	1/4 • 3/8	2.09 (53)	5.02 (127.5)	1.38 (35)	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)	1.28 (32.5)
NAR4060	1/4 • 3/8 • 1/2	2.76 (70)	5.89 (149.5)	1.48 (37.5)	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)	1.42 (36)
NAR4060-06	3/4	2.95 (75)	6.08 (154.5)	1.59 (40.5)	2.76 (70)	2.91 (74)	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)	1.50 (38)
NAR5060	3/4 • 1	3.54 (90)	6.61 (168)	1.89 (48)	3.54 (90)	3.15 (80)	2.76 (70)	2.60 (66)	2.59 (65.8)	.43 (11)	.51 (13)	3.54 (90)	.13 (3.2)	2.07 (52.5)	1.73 (44)
NAR6060	1	3.74 (95)	8.05 (204.5)	1.89 (48)	3.74 (95)	3.25 (82.5)	2.76 (70)	2.60 (66)	2.59 (65.8)	.43 (11)	.51 (13)	3.54 (90)	.13 (3.2)	—	—