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AIR PREPARATION PRODUCTS

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Air Preparation Products

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Air Preparation Products

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Air Preparation Products



1. Polycarbonate Bowls can be attacked by a wide variety of chemicals (see List below for examples). These cause embrittlement and subsequent brittle failure, or softening. Metal Bowls should be specified for use in the presence of aggressive chemicals.

2. It is strongly recommended that metal bowl guards are specified to provide additional protection from mechanical damage to polycarbonate bowls.

3. Before air treatment units are commissioned, and after any adjustment or maintenance has been carries out, the following points should be checked before connection to air supplies.
   - All fittings and spacers are finally attached
   - All removable bowls are securely screwed/latched into position

4. Polycarbonate bowls should be regularly inspected.

Some of the Materials that will Attack Polycarbonate Plastic Bowls		
Acetaldehyde	Cresol	Milk of lime (CaOH)
Acetic acid	Cyclohexanol	Nitric acid
Acetone	Cyclohexanone	Nitrobenzene
Acrylonitrile	Cyclohexene	Nitrocellulose lacquer
Caustic soda solution	Methanol	Perchlorethylene and others
Ammonia	Dimethyl formamide	Phenol
Ammonium fluoride	Dioxane	Phosphorous Hydroxychloride
Ammonium hydroxide	Ethane tetrachloride	Phosphorous Trichloride
Ammonium sulphide	Ethyl acetate	Propionic acid
Antifreeze	Ethyl ether	Pyridine
Benzene	Ethylamine	Sodium hydroxide
Benzoic acid	Ethlene chlorohydrin	Sodium sulphide
Benzyl alcohol	Ethlene dichloride	Styrene
Bromobenzene	Formic acid	Sulphural chloride
Brake fluids	Ethlene glycol	Sulphuric acid
Butyric acid	Freon (refrigerant & propellant)	Tetrahydronaphthalene
Carbolic acid	Gasoline	Thiophene
Carbon disulphide	Hydrazine	Toluene
Carbon tetrachloride	Hydrochloric acid	Turpentine
Caustic potash solution	Lacquer thinner	Xylene
Chlorobenzene	Methylene chloride	
Chloroform	Methylene salicylate	

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F.R.L. Combination Units



Modular Type
(N)AC1000–(N)AC6000 M5–1"

- Combination of filter, regulator and lubricator including mounting bracket and pressure gauge

How To Order
Filter/Regulator/Lubricator

(N)AC ○ 00 — ○ ○ ○ G

- ……Japanese
N ……North American

Body Size
10 …M5
20 …⅛ ¼
30 …⅜
40 …½
50 …¾
60 …1

Port Thread
- ……Rc(PT)* Remove (N) when ordering
N ……NPT*
F……G(PF)* Remove (N) when ordering

Drain
- ……Manual drain
D ……Auto drain

Port Size
M5 …M5X0.8
01 …⅛
02 …¼
03 …⅜
04 …½
06 …¾
10 …1

0.5 ~ 7 Bar / 8 ~100PSI

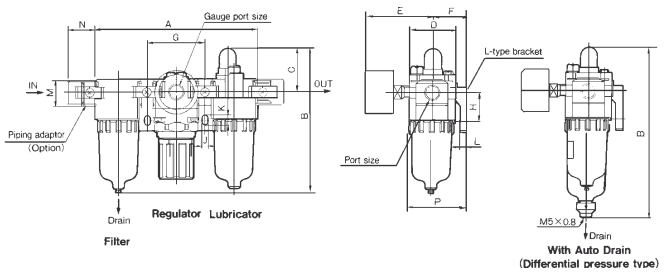
Note)
0.5 Bar = 0.05MPa
7 Bar = 0.7MPa
8.5 Bar = 0.85MPa

Technical Specifications

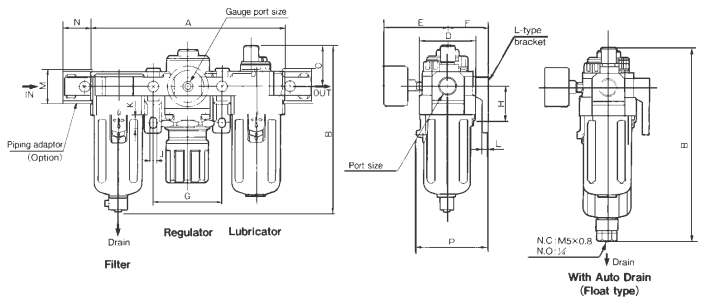
Model		NAC1000	NAC2000	NAC3000	NAC4000	NAC5000	NAC6000
Combination	Air filter	NAF1000	NAF2000	NAF3000	NAF4000	NAF5000	NAF6000
	Regulator	NAR1000	NAR2000	NAR3000	NAR4000	NAR5000	NAR6000
	Lubricator	NAL1000	NAL2000	NAL3000	NAL4000	NAL5000	NAL6000
Port Size		M5X0.8	⅛, ¼	⅜	½	¾	1
Port Size for pressure gauge		1/16	⅛	⅛	¼	¼	¼
Max Supply Pressure		15 Bar / 220PSI					
Max Operating Pressure		9.9 Bar / 145PSI					
Regulating Range		0.5~7 Bar	0.5 ~ 8.5 Bar / 8~125PSI				
Max flow rate ℓn/min*		90	500	2000	4000	5000	7000
Min. operating conditions for autodrain		1 Bar / 14.5 PSI					
Ambient and media temperature		5 ~ 60°C / 40~140°F					
Filtration		Standard: 5μm					
Recommended oil		Turbin oil ISO VG32					
Bowl material		Polycarbonate					
Construction/Regulator		Relieving type					
Accessories (standard)	Bowl guard	—	—	•	•	•	•

*Conditions: Supply pressure—7 Bar. Setting pressure—5 Bar Flow quoted at 1 bar pressure drop

Dimensions
NAC1000, 2000

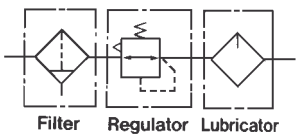


Dimensions
NAC3000,4000, 5000, 6000



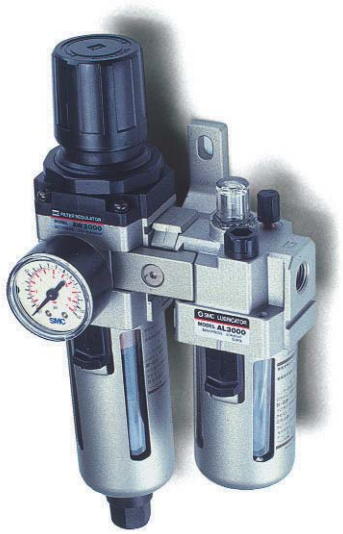
Model	Port size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	With auto drain	
																Float type N.O.	Differential pressure type
																B	B
NAC1000	M5X0.8	91	84.5	25.5	25	26	25	33	20	4.5	7.5	5	17.5	16	38.5	—	86.5
NAC2000	⅛ ¼	140	125	38	40	56.8	30	50	24	5.5	8.5	5	22	23	50	—	120.5
NAC3000	⅜	181	156.5	38	53	60.8	41	64	35	7	11	7	34.2	26	70.5	182	—
NAC4000	½	238	191.5	41	70	65.5	50	84	40	9	13	7	42.2	33	88	217	—
NAC5000	¾	300	271.5	48	90	75.5	70	105	50	12	16	10	55.2	40	115	297	—
NAC6000	1	315	285.5	48	95	78	70	110	50	12	16	10	55.2	40	117.5	311	—

Symbols



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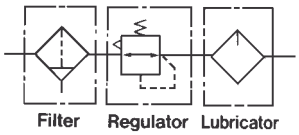
F.R.L. COMBINATION UNITS



MODULAR TYPE
(N)AC1010–(N)AC4010 M5–1"

- Combination of filter, regulator and lubricator including mounting bracket and pressure gauge

SYMBOLS



HOW TO ORDER FILTER/REGULATOR, LUBRICATOR

(N)AC ○ 10 — ○ ○ ○ G

- ……Japanese
N ……North American

BODY SIZE
10 …M5
20 …⅛ ¼
30 …⅜
40 …½

PORT SIZE
M5 …M5X0.8
01 …⅛
02 …¼
03 …⅜
04 …½

PORT THREAD
- ……Rc(PT)* Remove (N) when ordering
N ……NPT*
F……G(PF)* Remove (N) when ordering

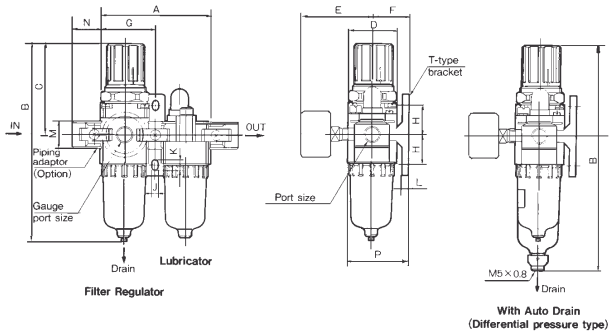
DRAIN
- ……Manual Drain
D ……Auto Drain

TECHNICAL SPECIFICATIONS

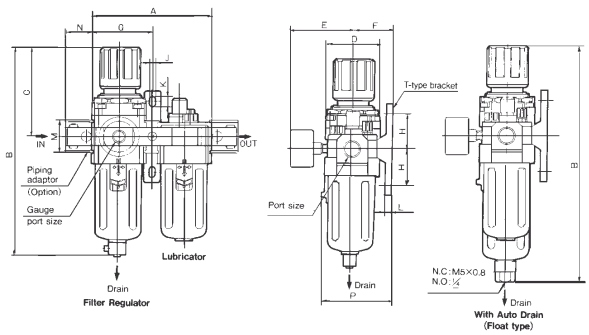
Model		NAC1010	NAC2010	NAC3010	NAC4010
Combination	Filter regulator	NAW1000	NAW2000	NAW3000	NAW4000
	Lubricator	NAL1000	NAL2000	NAL3000	NAL4000
Port Size		M5X0.8	⅛, ¼	⅜	½
Port Size for Pressure Gauge		1/16	⅛	⅛	¼
Maximum Supply Ppressure		15 Bar / 220PSI			
Maximum Operating Pressure		9.9 Bar / 145PSI			
Regulating Range		0.5 ~ 7 Bar	0.5 ~ 8.5 Bar / 8~125PSI		
Max Flow Rate ℓn/min*		90	500	1700	3000
Min Operating Conditions for Autodrain		1 Bar / 14.5 PSI			
Ambient and Media Temperature		5 ~ 60°C / 40~140°F			
Filtration		Standard: 5μm			
Recommended Oil		Turbine oil ISO VG32			
Bowl Material		Polycarbonate			
Construction / Regulator		Relieving type			
Accessories (standard)	Bowl guard	—	—	•	•

*Conditions: Supply pressure—7 Bar. Setting pressure—5 Bar Flows quoted at 1 Bar pressure drop 0.5~7 Bar = 8~100PSI

DIMENSIONS NAC1010, 2010



DIMENSIONS NAC3010,4010



Model	Port size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	With auto drain	
																Float type N.O.	Differential pressure type
																B	B
NAC1010	M5X0.8	58	109.5	50.5	25	26	25	29	20	4.5	7.5	5	17.5	16	38.5	—	86.5
NAC2010	⅛ ¼	90	164.5	78	40	56.8	30	45	24	5.5	8.5	5	22	23	50	—	120.5
NAC3010	¼ ⅜	117	211	92.5	53	60.8	41	58.5	35	7	11	7	34.2	26	70.5	236.5	—
NAC4010	¼ ⅜ ½	154	262.5	112	70	70.5	50	77	40	9	13	7	42.2	33	88	288	—

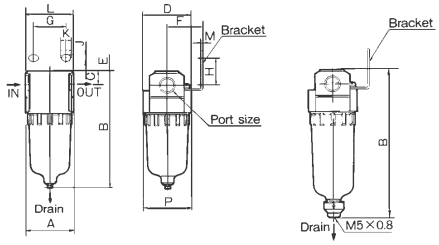
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AIR FILTER SERIES (N)AF

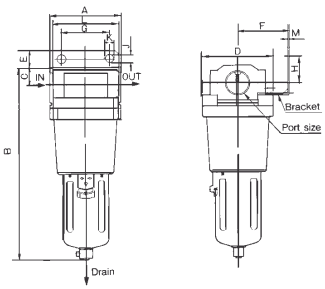
- Port Size M5 – 1"
- Autodrain available
- New super efficient 5µm Poly-element
- Quick release bowl guard on some sizes
- High flow



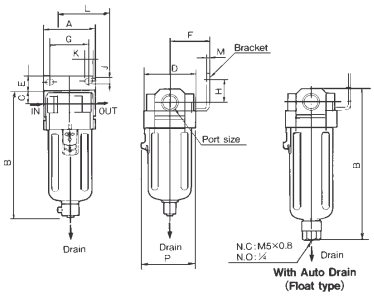
DIMENSIONS NAF1000•2000



DIMENSIONS NAF5000•6000



DIMENSIONS NAF3000•4000



TECHNICAL SPECIFICATIONS

Model	NAF1000	NAF2000	NAF3000	NAF4000	NAF5000	NAF6000
Port size	M5x0.8	⅛ ¼	¼ ⅜	⅜ ½	¾ 1	1
Flow rate ℓn/min*	140	1050	2800	5000	7000	8000
Max supply pressure	1.5MPa / 220PSI					
Max. operating pressure	1MPa / 145PSI					
Ambient and media temperature	5 ~ 60°C / 40~140°F					
Filtration	Standard: 5µm					
Bowl material	Polycarbonate					
Bowl capacity cm³	4	15	20	45	130	130
Min. operating condition for autodrain type	Minimum flow 100 nℓ/min					
	Minimum Pressure 0.1MPa / 14.5 PSI					

* 0.7MPa supply, Pressure drop ΔP = 0.05MPa
* Flow data is for new Poly-Element

HOW TO ORDER AIR FILTER

(N)AF ○ — ○ ○ ○

- ……Japanese
N ……North American

BODY SIZE
1000 M5
2000 ⅛•¼
3000 ¼•⅜
4000 ⅜•½
5000 ¾•1
6000 1

PORT THREAD
- ……Rc (PT)* Remove (N) when ordering
N ……NPT
F ……G(PF)* Remove (N) when ordering

ACCESSORIES
- ……Without
D ……W/Auto Drain
B ……Bracket

PORT SIZE
M5 …M5
01 …⅛
02 …¼
03 …⅜
04 …½
06 …¾
10 …1

ACCESSORIES AIR FILTER

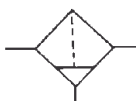
Poly Filter Element	Sintered Bronze Filter Element 5µm	Applicable Filter Series
111344	11134-5B	NAF1000
1129116A	11294-5B	NAF2000
111585A	111511-5B	NAF3000
1116103A	11104-5B	NAF4000
111724A	11173-5B	NAF5000
111825A	11074-5B	NAF6000

Note: Sintered bronze and Poly-elements are not interchangable

Bracket
B240 ……NAF2000
B340 ……NAF3000
B440 ……NAF4000
B640 ……NAF5000/6000

Model	A	B	C	D	E	F	G	H	J	K	L	M	P	With Auto Drain	
														B	Type
NAF1000	25	66	7	25	-	-	-	-	-	-	-	-	26.5	86.5	Differential pressure
NAF2000	40	97.5	11	40	17	30	27	22	5.4	8.4	40	2.3	40	120.5	Differential pressure
NAF3000	53	132.5	14	53	16	41	40	23	6.5	8	53	2.3	56	158	Float
NAF4000	70	168.5	18	70	17	50	54	26	8.5	10.5	70	2.3	73	194	Float
NAF5000	90	247.5	24	90	23	70	66	35	11	13	90	3.2	90	273	Float
NAF6000	95	261.5	24	95	23	70	66	35	11	13	90	3.2	95	287	Float

SYMBOLS



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Regulator Series (N)AR

- Port Size M5 – 1"
- "Q" and "P" compensation
- Design includes panel mount ring
- High flow
- Non-modular, higher flow and precision type regulators are available (see index)
- Check valve option available
- Built in gauge available



Technical Specifications

Model	NAR1000	NAR2000	NAR2500	NAR3000	NAR4000	NAR5000	NAR6000
Port Size	M5x0.8	⅛ ¼	¼ ⅜	¼ ⅜	⅜ ½	¾ 1	1
Flow Rate ℓn/min*	100	550	2000	2500	6000	8000	10000
Max Supply Pressure	1.5MPa / 220PSI						
Max Operating Pressure	1MPa / 145PSI						
Pressure Regulating Range	0.05-0.7MPa	0.05~0.8MPa/ 8~125PSI (AR*000); *see Note 1 below*					
Optional low pressure regulator range	0.02~0.2MPa / 3~30PSI						
Port Size for Pressure Gauge	1/16	⅛	⅛	⅛	¼	¼	¼
Ambient and Media Temperature	5 ~ 60°C / 40~140°F						
Construction	Relieving Type						

* 0.7MPa supply, pressure = 0.5MPa, Pressure drop ΔP = 0.1MPa;

*Note 1) 14.4~125PSI (AR*060)*

How To Order Pressure Regulator

(N)AR ○ ○ ○ — ○ ○ ○ — ○

- ..... Japanese
N ..... North American

Body Size
10 ...M5
20 ...⅛•¼
25 ...¼•⅜
30 ...¼•⅜
40 ...⅜•½•¼
50 ...¾•1"
60 ...1"

0 .....Relieving
6 .....With Check Valve
* Built-in Gauge not available with this option. Standard on AR1000

Gauge
0 .....With gauge port
1 .....With Built-in Gauge
(Available for body sizes 20~40 only)

Port Size
M5 ...M5
01 ...⅛
02 ...¼
03 ...⅜
04 ...½
06 ...¾
10 ...1"

Port Thread
- .....Rc(PT)* Remove (N) when ordering
F .....PF
N .....NPT* Remove (N) when ordering

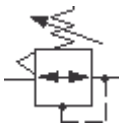
Accessories
- .....Without
G .....Gauge for NAR**01 type
B .....Bracket

Regulator Range
- .....Standard
1 .....Low pressure 0.2~2 Bar
R .....For right to left flow (with Built-In Gauge Type only)
M .....Metal Seal Type
N .....Non-Relieving Type

Accessories Pressure Regulator

Bracket
B120 .....NAR1000
B220 .....NAR2000/2500
B320 .....NAR3000
B420 .....NAR4000
B540 .....NAR5000
B640 .....NAR6000

Symbols



Relieving type



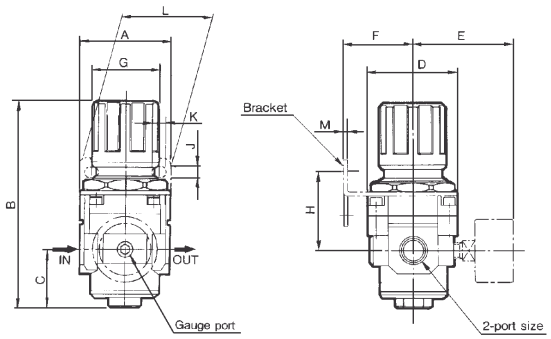
Check valve type

Pressure Gauges

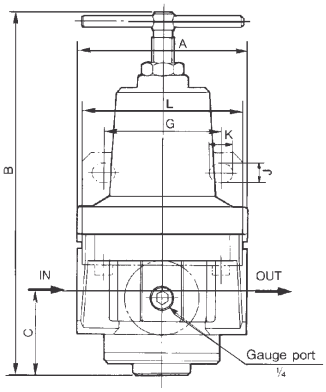
See Pressure Gauges Page

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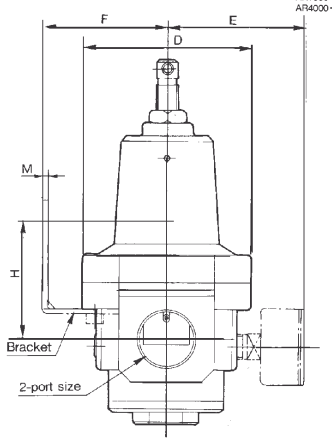
DIMENSIONS
NAR1000~NAR5000



DIMENSIONS
NAR6000

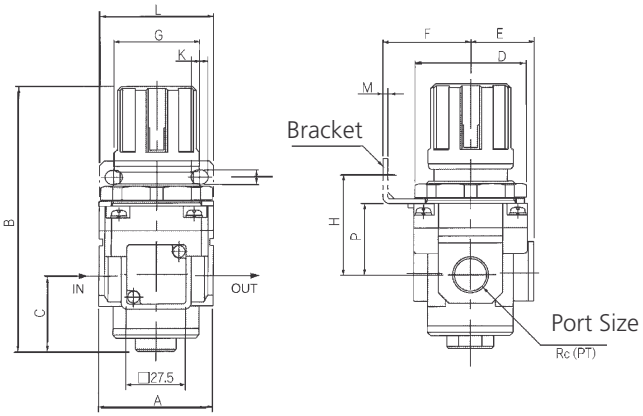






Model	A	B	C	D	E	F	G	H	J	K	L	M	N
NAR1000	25	61.5	11	25	26	25	18	30	4.5	6.5	40	2	20.5
NAR2000	40	95	17	40	56.8	30	30	45	5.4	15.4	55	2.3	33.5
NAR2500	53	102.5	25	48	60.8	30	34	44	5.4	15.4	55	2.3	33.5
NAR3000	53	127.5	35	53	60.8	41	40	46	6.5	8	53	2.3	42.5
NAR4000	70	149.5	37.5	70	65.5	50	54	54	8.5	10 .5	70	2.3	52.5
NAR5000	90	168	48	90	75.5	70	66	65.8	11	13	90	3.2	52.5
NAR6000	95	204.5	48	95	78	70	66	65.8	11	13	90	3.2	-

DIMENSIONS
NAR2001 ~ NAR4001



Model	Part Size	A	B	C	D	E	Bracket Dimensions							N
							F	G	H	J	K	L	M	
NAR2001	1/8 • 1/4	40	95	17	40	35	30	34	44	5.4	15.4	55	2.3	33.5
NAR25O1	1/4 • 3/8	53	102.5	25	48	32	30	34	34	44	5.4	15.4	55	2.3
NAR3001	1/4 • 3/8	53	127.5	35	53	29.5	41	40	46	6.5	8	53	2.3	42.5
NAR4001	1/4 • 3/8 • 1/2	70	149.5	37.5	70	38	50	54	54	8.5	10.5	70	2.3	52.5

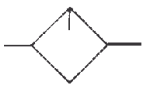
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Lubricator Series (N)AL



- Port Size M5 – 1″
- Precise adjustment
- Uniform lubrication even at extremely low flow rates
- Over 97% of atomized oil particles <10 microns
- Quick release bowl guard on some sizes

Symbols



Technical Specifications

Model		NAL1000	NAL2000	NAL3000	NAL4000	NAL5000	NAL6000
Port size		M5x0.8	1/8 1/4	1/4 3/8	3/8 1/2	3/4 1	1
Flow Rate ℓn/min		95	800	1700	5000	7000	7500
Max Supply Pressure		1.5MPa / 220PSI					
Max Operating Pressure		1MPa / 145PSI					
Min Operating Flow ℓn/min*		4	15	1/4: 30 3/8: 40	3/8: 40 1/2: 50	190	220
Bowl Capacity cm³		7	25	50	130	130	130
Recommended Oil		ISO VG32					
Ambient and Media Temperature		5 ~ 60°C / 40~140°F					
Bowl Material		Polycarbonate					
Accessory (Standard)	Bowl Guard	-	-	•	•	•	•

*Conditions: Supply pressure - 0.5MPa Number of DROPS - 5 drops/min ISOVG32, 20°C
Max Flow Data @0.5Mpa Supply 0.03MPa Pressure Drop

How To Order Lubricator

(N)AL — [Body Size] [Port Thread] [Port Size] [Accessories] [Optional Specs]

- ……Japanese
N ……North American

Body Size
1000 M5
2000 1/8•1/4
3000 1/4•3/8
4000 3/8•1/2
5000 3/4•1
6000 1

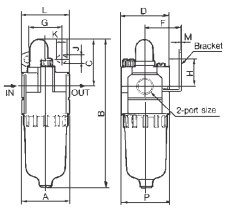
Port Thread
- ……Rc(PT)* Remove (N) when ordering
F ……PF
N ……NPT* Remove (N) when ordering

Port Size
M5 …M5
01 …1/8
02 …1/4
03 …3/8
04 …1/2
06 …3/4
10 …1

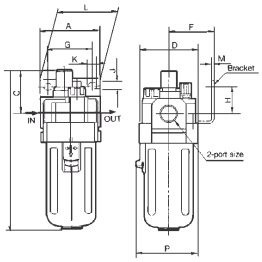
Accessories
- ……W/O Bracket
B ……With Bracket

Optional Specs

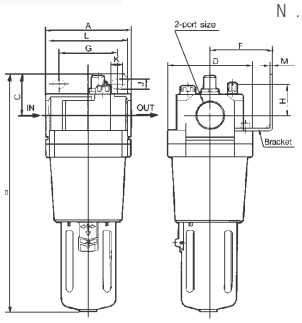
Dimensions NAL1000•NAL2000



Dimensions NAL3000•NAL4000



Dimensions NAL5000•NAL6000



Model	A	B	C	D	F	G	H	J	K	L	M	P
NAL1000	25	81.5	25.5	25	-	-	-	-	-	-	-	27
NAL2000	40	122	38	40	30	27	22	5.4	8.4	40	2.3	40
NAL3000	53	142	38	53	41	40	23	6.5	8	53	2.3	56
NAL4000	70	177	41	70	50	54	26	8.5	10.5	70	2.3	73
NAL5000	90	254	45	90	70	66	35	11	13	90	3.2	90
NAL6000	95	268	45	95	70	66	35	11	13	90	3.2	95

Accessories Lubricator

Bracket
B240 ……AL2000
B340 ……AL3000
B440 ……AL4000
B640 ……AL5000/6000

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FILTER REGULATOR SERIES (N)AW

- Port Size M5 – ¾"
- Differential or float type autodrain
- Quick release bowl guard on some sizes
- High flow
- 5µm filter element
- Built in gauge available

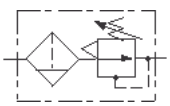


TECHNICAL SPECIFICATIONS

Model		NAW1000	NAW2000	NAW2001	NAW3000	NAW3001	NAW4000	NAW4001
Port Size		M5x0.8	⅛ ¼	⅛ ¼	¼ ⅜	¼ ⅜	¼ ⅜ ½	¼ ⅜ ½
Flow rate ℓ/n/min*		100	550	550	2000	2000	4000	4000
Max Supply Pressure		1.5MPa / 220PSI				1.5MPa / 220PSI		
Max Operating Pressure		1MPa				1MPa		
Pressure Regulating Range		0.05~0.7MPa	0.05 ~0.85MPa / 8~125PSI					
Port Size for Pressure Gauge		1/16	⅛	N/A	⅛	N/A	¼	N/A
Ambient and Media Temperature		5 ~ 60°C / 40~140°F				5 ~ 60°C / 40~140°F		
Filtration		Standard: 5µm				Standard: 5µm		
Bowl Capacity cm³		4	15	15	20	20	45	45
Bowl Material		Polycarbonate				Polycarbonate		
Construction / Regulator		Relieving type				Relieving type		
Accessory (Standard)	Bowl Guard	-	-	-	•	•	•	•

*0.7MPa supply, 0.5MPa static set pressure, 0.1MPa pressure drop / 0.05~0.7MPa

SYMBOLS



HOW TO ORDER FILTER REGULATOR

(N)AW ○ 0 ○ — ○ ○ ○ ○

- ..... Japanese
N ..... North American

BODY SIZE
10 ...M5
20 ...⅛•¼
30 ...¼•⅜
40 ...⅜•½

0 ..... Standard
1 ..... With Built-in Gauge
2 ..... With Built-in Gauge for right to left flow
(1 & 2 available for body sizes 20~40 only)

PORT THREAD
- ..... Rc(PT)* Remove (N) when ordering
F ..... PF
N ..... NPT* Remove (N) when ordering

PORT SIZE
M5 ...M5
01 ...⅛
02 ...¼
03 ...⅜
04 ...½
06 ...¾

ACCESSORIES
- ..... Without
D ..... W/ Auto Drain
B ..... Bracket

OPTIONAL SPECS

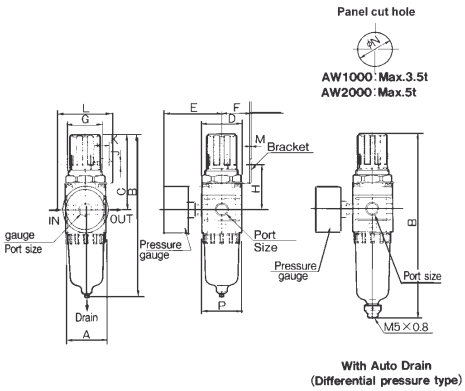
ACCESSORIES FILTER REGULATOR

Filter Element 5µm
11134-5 ..... NAW1000
11294-5B NAW2000
111511-5B NAW3000
11104-5B NAW4000
11173-5B NAW5000
11074-5B NAW6000
Bracket
B120 ..... NAW1000
B220 ..... NAW2000
B320 ..... NAW3000
B420 ..... NAW4000

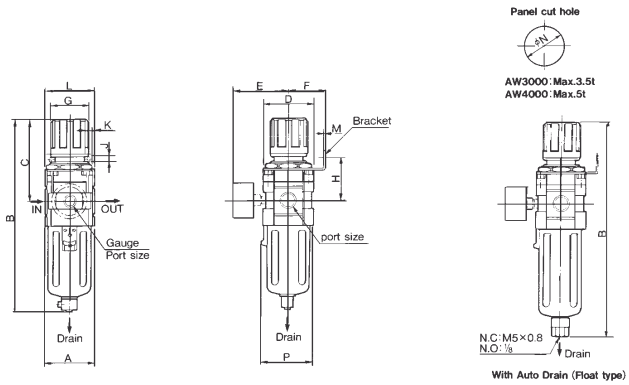
DIMENSIONS SEE NEXT PAGE ☞

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DIMENSIONS NAW1000•2000

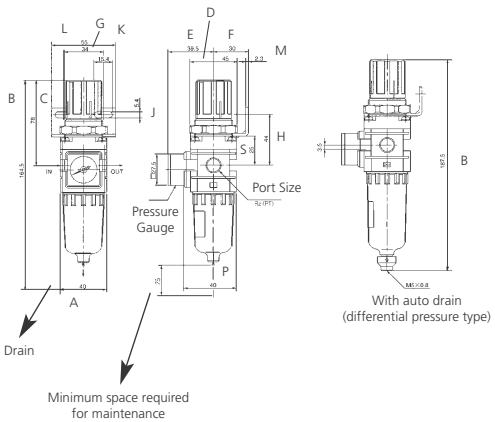


DIMENSIONS NAW 3000•4000

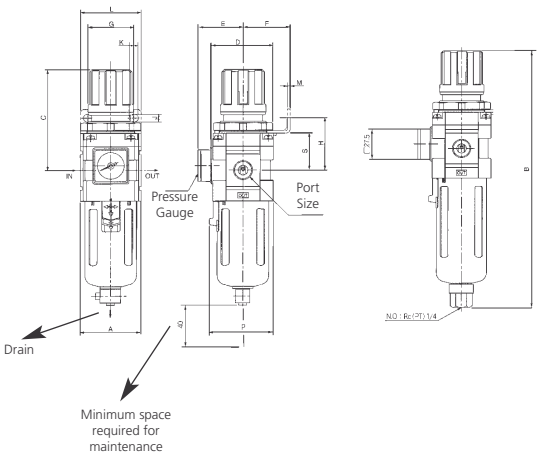


MODEL	A	B	C	D	E	F	G	H	J	K	L	M	ØN	P	With auto drain	
															B	Type
NAW1000	25	109.5	50.5	25	26	25	28	30	4.5	6.5	40	2.0	20.5	28	86.5	Differential pressure
NAW2000	40	164.5	78	40	56.8	30	34	45	5.4	15.4	55	2.3	33.5	40	120.5	Differential pressure
NAW3000	53	211	92.5	53	60.8	41	40	46	6.5	8.0	53	2.3	42.5	56	236.5	Float
NAW4000	70	262.5	112	70	70.5	50	54	54	8.5	10.5	70	2.3	52.5	73	288	Float

DIMENSIONS NAW2001



DIMENSIONS NAW3001 - 4001



MODEL	A	B	C	D	E	F	G	H	J	K	L	M	ØN	P	With auto drain	
															B	Type
NAW2001	40	164.5	78	40	56.8	30	34	45	5.4	15.4	55	2.3	33.5	40	120.5	Differential pressure
NAW3001	53	211	92.5	53	60.8	41	40	46	6.5	8.0	53	2.3	42.5	56	236.5	Float
NAW4001	70	262.5	112	70	70.5	50	54	54	8.5	10.5	70	2.3	52.5	73	288	Float

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TECHNICAL SPECIFICATIONS

Model		NAFM2000	NAFM3000	NAFM4000
Port Size		1/8 1/4	1/4 3/8	3/8 1/2 3/4
Flow Rate ℓ/n/min*		200	450	1100
Max Supply Pressure		1.5MPa / 220PSI		
Max Operating Pressure		1MPa / 145PSI		
Min Operating Pressure		0.05MPa / 8PSI		
Bowl Material		Polycarbonate		
Accessory (Standard)	Bowl Guard	-	•	•

0.7MPa supply, 0.01MPa pressure drop (new)

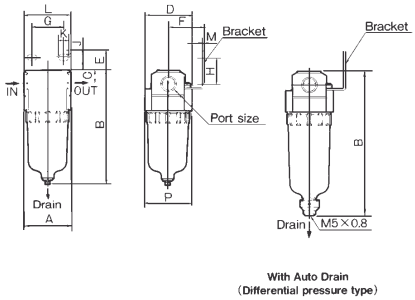
MIST SEPARATOR SERIES (N)AFM

- Port Size 1/8 – 3/4"Rc
- Removes more than 99.9% of oil mist
- 0.3μm filter element
- Quick release metal bowl guard on some sizes
- Automatic or manual drain

Mist Separators are also available in larger port sizes - see:
Filters: High Efficiency

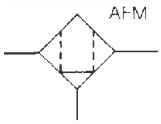


DIMENSIONS
MIST SEPARATOR NAFM2000



With Auto Drain
(Differential pressure type)

SYMBOLS



HOW TO ORDER MIST SEPARATOR

(N)AFM — — — —

- ……Japanese
N ……North American

BODY SIZE
2000 1/8•1/4
3000 1/4•3/8
4000 3/8•1/2•3/4

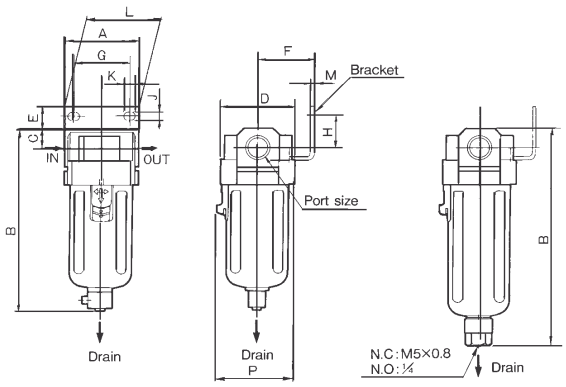
PORT THREAD
- ……Rc(PT)* Remove (N) when ordering
F ……PF
N ……NPT* Remove (N) when ordering

PORT SIZE
01 …1/8
02 …1/4
03 …3/8
04 …1/2
06 …3/4

ACCESSORIES
- ……Without
D ……W/Auto Drain
B ……Bracket

OPTIONAL SPECS

DIMENSIONS
MIST SEPARATOR NAFM3000•4000



With Auto Drain
(Float type)

ACCESSORIES
MIST SEPARATOR

Filter Element
630611 ……NAFM2000
630617 ……NAFM3000
630623 ……NAFM4000
Filter Elements should be changed after 1 year or when a pressure drop of 1 Bar is reached.
Bracket
B240 ……NAFM2000
B340 ……NAFM3000
B440 ……NAFM4000

Model	Port size	A	B	C	D	E	F	G	H	J	K	L	M	P	With auto drain	
															B	Type
NAFM2000	1/8 1/4	40	97.5	11	40	17	30	27	22	5.4	8.4	40	2.3	40	120.5	Differential pressure
NAFM3000	1/4 3/6	53	132.5	14	53	16	41	40	23	6.5	8	53	2.3	56	158	Differential pressure
NAFM4000	1/4 3/8 1/2	70	168.5	18	70	17	50	54	26	8.5	10.5	70	2.3	73	194	Float type
NAFM4000-06	3/4	75	172.5	20	70	14	50	54	25	8.5	10.5	70	2.3	73	198	Float type

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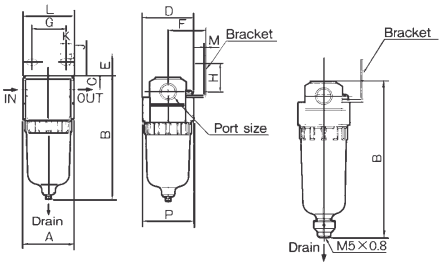
Micro-Mist Separator Series (N)AFD

- Port Size 1/8 – 3/4"
- Removes more than 99.9999% of oil mist
- 0.01µm filter element
- Quick release metal bowl guard on some sizes
- Automatic or manual drain

Micro-Mist Separators are also available in larger port sizes - see: Filters: High Efficiency



Dimensions
Mist Separator NAFD2000



Technical Specifications

Model		NAFD2000	NAFD3000	NAFD4000
Port Size		1/8 1/4	1/4 3/8	3/8 1/2 3/4
Flow Rate ℓ/n/min*		120	240	600
Max Supply Pressure		1.5MPa / 220PSI		
Max Operating Pressure		1MPa / 145PSI		
Min Operating Pressure		0.05MPa / 8PSI		
Bowl Material		Polycarbonate		
Accessory (Standard)	Bowl Guard	-	•	•

0.7MPa supply, 0.01MPa pressure drop (new)

How To Order Mist Separator

(N)AFD — [Body Size] [Port Size] [Port Thread] [Autodrain]

- ……Japanese
N ……North American

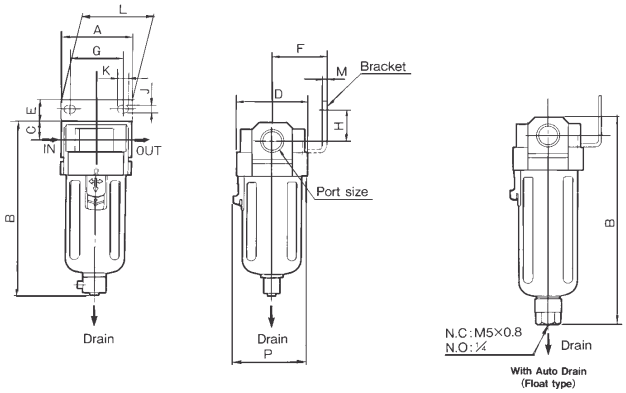
Body Size
2000 1/8•1/4
3000 1/4•3/8
4000 3/8•1/2•3/4

Port Size
M5 …M5
01 …1/8
02 …1/4
03 …3/8
04 …1/2
06 …3/4

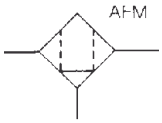
Port Thread
- ……Rc(PT)* Remove (N) when ordering
N ……NPT
F ……G(PF)* Remove (N) when ordering

Autodrain
- ……Without
D ……With

Dimensions
Mist Separator NAFD3000•4000



Symbols



Accessories
Mist Separator

Filter Element
63092 ……NAFD2000
63093 ……NAFD3000
63094 ……NAFD4000
Filter Elements should be changed after 1 year or when a pressure drop of 1 Bar is reached.
Bracket
B240 ……NAFD2000
B340 ……NAFD3000
B440 ……NAFD4000
B540 ……NAFD4000-06

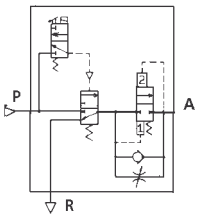
Model	Port size	A	B	C	D	E	F	G	H	J	K	L	M	P	With auto drain	
															B	Type
NAFD2000	1/8 1/4	40	97.5	11	40	17	30	27	22	5.4	8.4	40	2.3	40	120.5	Differential pressure
NAFD3000	1/4 3/8	53	132.5	14	53	16	41	40	23	6.5	8	53	2.3	56	158	Differential pressure
NAFD4000	1/4 3/8 1/2	70	168.5	18	70	17	50	54	26	8.5	10.5	70	2.3	73	194	Float type
NAFD4000-06	3/4	75	172.5	20	70	14	50	54	25	8.5	10.5	70	2.3	73	198	Float type

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SOFT START-UP VALVE SERIES (N)AV 2000, 3000, 4000 ¼, ⅜, ½"

- Combined Soft Start and Dump Valve
- Compatible with Modular Series FRL
- Large Cv Factor
- Low Power
- Air Supply and Exhaust can be operated manually

SYMBOLS







The NAV valve pictured together with an NAW series Filter/Regulator and an NAN series Silencer. (To order these items, see Air Preparation section {NAW} and Valves section {NAN}

TECHNICAL SPECIFICATIONS

Model			NAV2000	NAV3000	NAV4000
Port Size			¼	⅜	½
Proof Pressure			1.5MPa / 220PSI		
Operating Pressure Range			1MPa / 145PSI		
Pressure Gauge Port Size			⅛		
Ambient and Fluid Temperature			0 ~ 60°C* / 32~140°F		
CV Factor		P→A	1.19	2.20	3.60
		A→R	1.39	2.89	4.49
Weight (kg)			0.27	0.48	0.74
Electrical Spec	Coil Rated Voltage		110, 240V AC (50/60Hz); 12, 24V DC		
	Allowable Voltage Fluctuation		-15% to +10% of rated voltage		
	Coil Insulation Type		Type B equivalent (130°C)		
	Apparent Power AC (Power Consumption)	Inrush	5.6VA (50Hz)		
		Holding	3.4VA (2.1W)/50Hz		
	Power Consumption DC		1.8W		
	Electrical Connector		DIN 43650 (industrial form)		
	Semi-Standard Spec		With indicator light and surge voltage suppressor		
Pilot Valve Manual Override			Non-locking push type		

*Use dry air when temperature is low.

HOW TO ORDER SOFT START-UP VALVE

(N)AV ○ 00 — ○ ○ — ○ — D ○

- ..... Japanese
N ..... North American

BODY SIZE
20 ... ¼
30 ... ⅜
40 ... ½

PORT THREAD
- ..... Rc(PT)* Remove (N) when ordering
F ..... G(PF)* Remove (N) when ordering
N ..... NPT

PORT SIZE
02 ... ¼ (NAV2000 only)
03 ... ⅜ (NAV3000 only)
04 ... ½ (NAV4000 only)

COIL RATED VOLTAGE
3 ..... 110V AC (50/60Hz)
4 ..... 240V AC (50/60Hz)
5 ..... 24V DC
6 ..... 12V DC

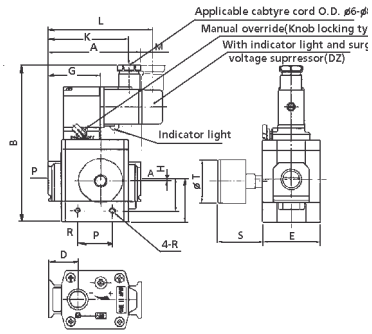
INDICATOR LIGHT AND SURGE VOLTAGE SUPRESSOR
- ..... None
S ..... With surge voltage suppressor only
Z ..... With Indicator light and surge voltage suppressor

DIMENSIONS SEE NEXT PAGE ☞

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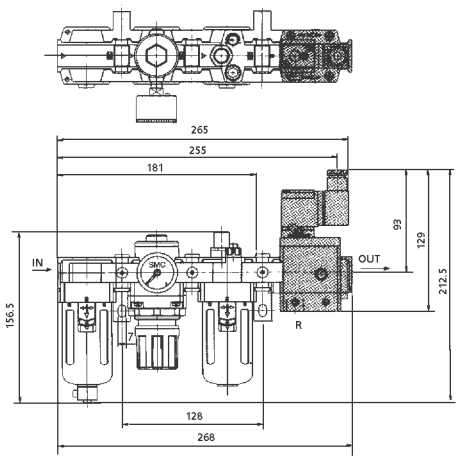
MODULAR TYPE – ACCESSORIES

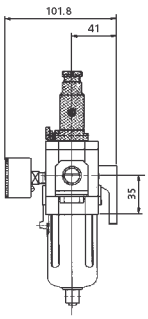
DIMENSIONS
DIN CONNECTOR



Model	Port size	A	B	C	D	E	Pressure gauge Mounting port F	G	H	I	J	K	L	M	N	P	Q	R
NAV2000-☐02-☐D	1/4	66	125.5	31	22	40	1/8	38	0	—	—	67.5	—	10.5	—	29	23.5	M4X0.7 depth 4.5
NAV2000-☐02-☐DZ												—	84.5	27.5				
NAV3000-☐03-☐D	3/8	76	132.5	36	24	48	1/8	43	2	—	—	70.5	—	3.5	—	28	27.5	M5X0.8 depth 5
NAV3000-☐03-☐DZ												—	87.5	20.5				
NAV4000-☐04-☐D	1/2	98	147.5	47	32	52	1/8	57	3	—	—	82.5	—	—	—	42	37	M6X1 depth 6
NAV4000-☐04-☐DZ												—	99.5	10.5				

DIMENSIONS
EXAMPLE OF NAC3000 + SOFT START-UP VALVE





Safety Note

1. This valve cannot prevent cylinders shooting out when a closed-center solenoid valve is used, or equipment driving with a load factor of 50% or more.
2. When a regulator is to be mounted on the secondary side, use a check valve regulator (NAR**60). Standard regulators (NAR2000, 3000, 4000) do not allow large volume back-flow.
3. Mount a lubricator, as necessary, on the primary side (P port side) of the valve. When the lubricator is mounted on the secondary side (A port side), oil back-flows and is exhausted from port R.

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PRESSURE SWITCH: SERIES IS1000

- Reed Switch Type Design
- Compact
- Pressure setting made easy by Scale Plate
- Type M Sandwiches between Air Preparation Units: Type E acts as an End Connector

NOTE

The pressure switches can be mounted on both IN and OUT sides on (N)AF, (N)AR, (N)AFM, and (N)AFD units but cannot be mounted in this way on (N)AW units when the handle of an (N)AR Series Regulator faces upwards.



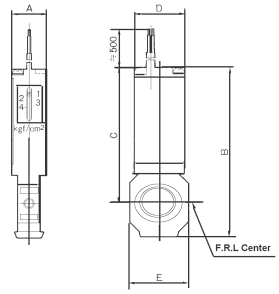


The switches shown DO NOT come with Yoke Clips attached.

TECHNICAL SPECIFICATIONS

Fluid	Air
Proof Pressure	1MPa / 145PSI
Max Operating Pressure	0.7MPa / 100PSI
Setting Range (off)	0.1~0.4MPa / 14.5~60PSI
Differential Pressure	Less than 0.08MPa / 12PSI
Ambient & Fluid Temperature	5 ~ 60°C / 40~140°F
Type of Actuation	1a (N.O.)
Switch Capacity	AC2VA • DC2W
Operating Voltage (AC, DC)	12V, 24V, 48V, 100V
Max Operating Current	AC, DC 12V ~ 48V: 50mA
	AC, DC 100V: 25mA
Response Time	1.2ms

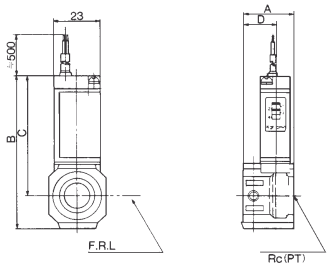
DIMENSIONS PRESSURE SWITCH IS1000M



Model*	A	B	C	D	E
IS1000M-2	15	73.5	62.6	23	28
IS1000M-3	15	82	64.9	23	29
IS1000M-4	15	88.7	67.6	23	35
IS1000M-5	15	91	71	23	44
IS1000M-6	15	100	72.5	23	54

*Without Yoke Clip.

DIMENSIONS PRESSURE SWITCH IS1000E



Model*	Port	A	B	C	D	Combination Series
IS1000E-201	1/8	28	73	62	18.5	AC2000
IS1000E-202	1/4					
IS1000E-203	3/8					
IS1000E-302	1/4	26	80	63	16.5	AC3000
IS1000E-303	3/8					
IS1000E-304	1/2	40	80	63	17.5	
IS1000E-402	1/4	33	87	66	17.5	AC4000
IS1000E-403	3/8					
IS1000E-404	1/2					
IS1000E-406	3/4	50	87	66	17.5	

*Without Yoke Clip.

HOW TO ORDER PRESSURE SWITCH

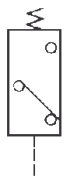
Modular end unit pressure switch including Y20 or Y30 type yoke clips and extended lead to switch (3 metres):

IS1000M-2Y-X201 2000 SERIES
IS1000M-3Y-X201 3000 SERIES
IS1000M-4Y-X201 4000 SERIES
IS1000M-6Y-X201 5/6000 SERIES
IS1000E-202Y-X201 ...2000 SERIES 1/4
IS1000E-303Y-X201 ...3000 SERIES 3/8



THE IS1000E SHOWN TOGETHER WITH A FILTER/REGULATOR SERIES AW

SYMBOLS



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SHUT OFF VALVE SERIES (N)VHS (3 PORT RELIEVING)

- Relieves the Downstream Pressure for System Servicing
- Visual PositionIndication

Series NVHS 3 Port Valves provide a means to prevent accidental start-ups while personnel are cleaning or servicing equipment. When in the exhaust position, the valve may be padlock-secured.
To eliminate any uncertainty of valve status, a window displays when the valve is in supply or exhaust position.

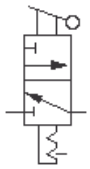
* Simple user modification allows lock in pressure supply position.



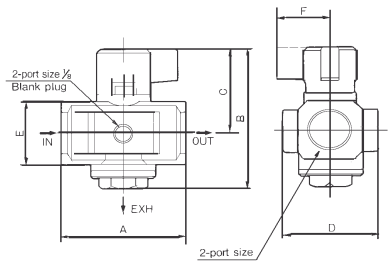


Lockable Unit. Color may not be available as shown.

SYMBOLS

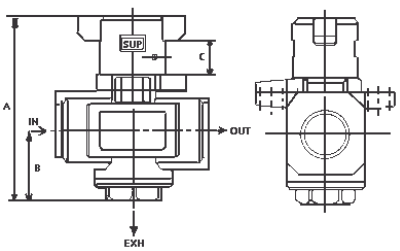


DIMENSIONS SERIES (N)VHS SHUT-OFF VALVE



Model	Port Size	Exh. Port	A	B	C	D	E	F
NVHS2000	1/8, 1/4	1/8	40	56	36	28	22	25
NVHS3000	1/4, 3/8	1/4	53	74	45	48	28	30
NVHS4000	1/4, 3/8, 1/2	3/8	70	80	48	54	36	30

DIMENSIONS SERIES (N)VHS 3 PORT VALVE WITH LOCKING FACILITY



Model	Port Size	Exh Port	A	B	C	D	E	ØF	G	ØH
NVHS2500	1/8, 1/4	1/8	60	20	12.8	40	44	33	28	7.5
NVHS3500	1/4, 3/8	1/4	73	29	12.8	53	53	42	29	7.7
NVHS4500	1/4, 3/8, 1/2	3/8	85	32	12.6	70	64	49	36	10
NVHS5500	3/4, 1	1/2	136	56	32	90	80	65	54	10

HOW TO ORDER SERIES (N)VHS SHUT-OFF VALVES

(N)VHS ○○ 00 — ○ — ○

- ……Standard
N ……North American

BODY SIZE AND APPLICABLE FRL SERIES

2 ……2000
3 ……2500, 3000
4 ……4000
5 ……5000, 6000

LOCKING OPTION

0 ……Standard
5 ……Lockable

INPUT PORT SIZE

01 …1/8
02 …1/4
03 …3/8
04 …1/2
06 …3/4
10 …1

HANDLE COLOR OPTIONS

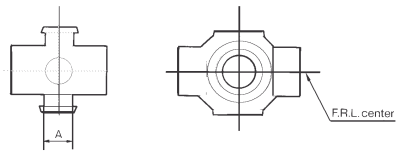
- ……Black Handle; Silver Body
X116 ……Red Handle (Lockable); Silver Body - Standard
X1……Red Handle; Red Body

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MODULAR TYPE – ACCESSORIES

SPACER

DIMENSIONS SPACER



Model	A	Applicable Model
Y10	8	NAC100~NAC1040
Y20	10	NAC2000~NAC2040
Y30	11	NAC2500~NAC2540 NAC3000~NAC3040
Y40	14	NAC4000~NAC4040
Y50	14	NAC4000-06~NAC4040-60
Y60	15	NAC5000/5500/6000 NAC5020/5520/6020

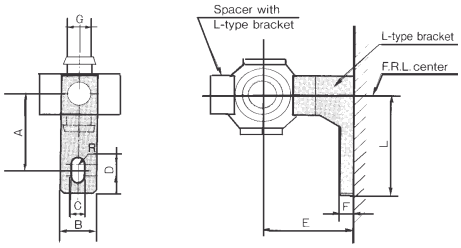


HOW TO ORDER SPACER

Y10 ...(1000 SERIES)
Y20 ...(2000 SERIES)
Y30 ...(3000 SERIES)
Y40 ...(4000 SERIES)
Y50 ...(4000-06 SERIES)
Y60 ...(5/6000 SERIES)

L TYPE BRACKET

DIMENSIONS L TYPE BRACKET





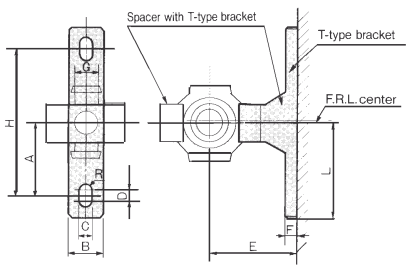
Spacer with L-type bracket	A	B	C	D	E	F	G	R	L
Y10L	20	12	4.5	3	25	5	8	2.25	27
Y20L	24	15	5.5	3	30	5	10	2.75	33
Y30L	35	16	7	4	41	7	11	3.5	45
Y40L	40	22	9	4	50	7	14	4.5	50
Y50L	40	22	9	4	50	7	14	4.5	50
Y60L	50	24	12	4	70	10	15	6	62.5

HOW TO ORDER L TYPE BRACKET

	Spacer with Bracket	Bracket Only
1000 SERIES	Y10L	B110L
2000 SERIES	Y20L	B210L
3000 SERIES	Y30L	B310L
4000 SERIES	Y40L	B410L
4000-06 SERIES	Y50L	B510L
5/6000 SERIES	Y50L	B610L

T TYPE BRACKET

DIMENSIONS T TYPE BRACKET





Spacer with T-type bracket	A	B	C	D	E	F	G	H	R	L
Y10T	20	12	4.5	3	25	5	8	40	2.25	27
Y20T	24	15	5.5	3	30	5	10	40	2.75	33
Y30T	35	16	7	4	41	7	11	70	3.5	45
Y40T	40	22	9	4	50	7	14	80	4.5	50
Y50T	40	22	9	4	50	7	14	80	4.5	50
Y60T	50	24	12	4	70	10	15	100	6	62.5

HOW TO ORDER T TYPE BRACKET

	Spacer with Bracket	Bracket Only
1000 SERIES	Y10T	B110T
2000 SERIES	Y20T	B210T
3000 SERIES	Y30T	B310T
4000 SERIES	Y40T	B410T
4000-06 SERIES	Y50T	B510T
5/6000 SERIES	Y60T	B610T

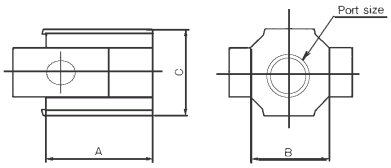
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END BLOCK ADAPTOR

- Port Sizes: M5 ~ 1"Rc
- Allows for easy installation and maintenance

DIMENSIONS
PIPING ADAPTOR



mm

Model	Port size	A	B	C
E10-M5	M5x0.8	16	17.5	14
E20-N01	⅛	23	22	22
E20-N02	¼			
E20-N03	⅜			
E30-N02	¼	26	34.2	29
E30-N03	⅜			
E30-N04	½	40	34.2	29
E40-N03	⅜	33	42.2	35
E40-N04	½			
E40-N06	¾	50	42.2	35
E50-N06	¾	36	44	46.2
E60-N06	¾	40	54	55.2
E60-N10	1			

HOW TO ORDER
PIPING ADAPTOR

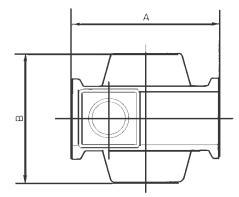
E10-M5 .....1000 SERIES
E20-N01 .....2000 SERIES
E20-N02 .....2000 SERIES
E20-N03 .....2000 SERIES
E30-N02 .....3000 SERIES
E30-N03 .....3000 SERIES
E30-N04 .....3000 SERIES
E40-N03 .....4000 SERIES
E40-N04 .....4000 SERIES
E40-N06 .....4000 SERIES
E60-N06 .....5/6000 SERIES
E60-N10 .....5/6000 SERIES

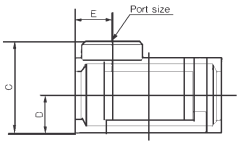


CHECK VALVE SERIES (N)AKM

The Check Valve Spacer is designed to prevent back flow of lubricated air from a lubricator when both lubricated and non-lubricated supplies are required.

DIMENSIONS
CHECK VALVE SERIES NAKM





HOW TO ORDER
CHECK VALVE SERIES (N)AKM

(N)AKM ● — ● ●

-.....Japanese
N .....North American

BODY SIZE
2000.....2000 Series
3000.....3000 Series
4000.....4000 Series

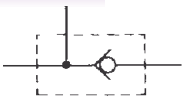
PORT SIZE
01 ...⅛
02 ...¼
03 ...⅜

PORT THREAD
- .....Rc(PT)* Remove (N) when ordering
N .....NPT

mm

Model	Port Size	A	B	C	D	E
NAKM2000	⅛ ¼	40	40	28	11	11
NAKM3000	⅛ ¼	53	48	34	14	13
NAKM4000	¼ ⅜	70	54	42	18	15

SYMBOLS



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MODULAR TYPE – ACCESSORIES

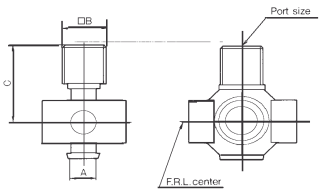




BRANCHING UNITS

DIMENSIONS T TAKE OFF

Cannot be installed adjacent to combined filter/regulator unit

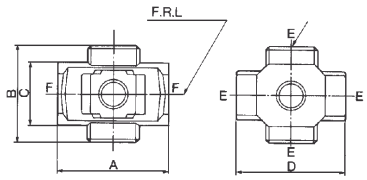


mm

Model	Port Size	A	B	C
Y11-M5	M5X0.8	8	12	8
Y21-01	1/8	10	29	19
Y21-02	1/4	10	29	19
Y31-01	1/8	11	33	19
Y31-02	1/4	11	33	19
Y41-02	1/4	14	39	24
Y41-03	3/8	14	39	24
Y51-02	1/4	14	24	41
Y52-03	3/8	14	24	41
Y61-03	3/8	15	30	50.5
Y61-04	1/2	15	30	50.5

DIMENSIONS X TAKE OFF

Fits between modular units using 'Y' Type Connectors



mm

Model	Port Size	A	B	C	D
Y14-M5	M5	23	16	14	25
Y24-01	1/8	40	40	22	40
Y24-02	1/4	40	40	22	40
Y34-02	1/8	49	43	28	48
Y44-02	1/4	60	48	36	54
Y44-03	3/8	60	48	36	54
Y54-03	3/8	72	62	40	62
Y54-04	1/2	72	62	40	62

HOW TO ORDER "T" TAKE-OFF

Y ○ ○ — ○ ○

APPLICABLE FRL SERIES
1 1000
2 2000
3 3000
4 4000
5 4000-06
6 .....5000, 6000

TAKE-OFF TYPE
1 ....."T" Type
4 ....."X" Type

THREAD TYPE
Nil ...Rc(PT)
N .....NPT

PORT SIZE
M5 ...M5 x 0.8
01 ...1/8
02 ...1/4
03 ...3/8
04 ...1/2

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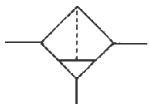
FILTERS: HIGH EFFICIENCY

HIGH FLOW AIR FILTER SERIES (N)AF

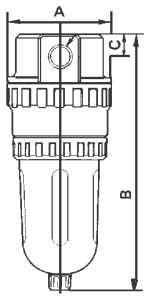
- Port Sizes 1½- 2"Rc, NPT, PF
- 5µm Filter Element
- High Efficiency Drainage
- Bowl Guard Standard



SYMBOLS

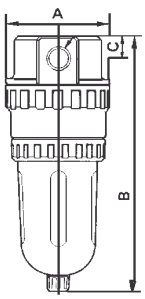


DIMENSIONS
AIR FILTER MODELS (N)AF800/900



Model	A	B	C	Pipe Size
(N)AF800	150	410	33	1½, 1¼
(N)AF900	200	488	46	2

DIMENSIONS
AIR FILTER MODELS (N)AF811/911



Model	A	B	C	Pipe Size
(N)AF811	150	439	33	1½, 1¼
(N)AF911	200	519	46	2

TECHNICAL SPECIFICATIONS

	(N)AF800	(N)AF900
Pipe Size	1½"	2"
Max Flow Rate ℓn/min	9000	15000
Drain Capacity (cm³)	180	180
Max Operating Pressure	1MPa / 145PSI	
Ambient & Fluid Temp	5~60°C / 40~140°F	
Bowl	Polycarbonate	

Flows are for 0.7MPa Supply, 0.01MPa Pressure Drop

HOW TO ORDER AIR FILTER

(N)AF800-12 (1¼)
(N)AF800-14 (1½)
(N)AF900-20 (2)

HOW TO ORDER AIR FILTER WITH AUTODRAIN

(N)AF811-12 (1¼)
(N)AF811-14 (1½)
(N)AF911-20 (2)

Note) **(N)AF**
AF - Japanese
NAF - North American

ACCESSORIES AIR FILTER

Filter Elements
11345-5B NAF800
11352-5B NAF900

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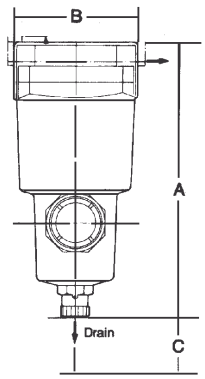
MIST SEPARATOR SERIES (N)AM

- Port Sizes 1/4, 3/8, 1/2, 3/4, 1 1/2, 2"
- Removes 99.9% of Oil Mist and Fine Particles down to 0.3µm
- Manual or Automatic Drain
- Cartridge Type Element for easy replacement
- Small additional clearance required for cartridge replacement

Mist Separators are also available for the Modular Range of Air Preparation Products



DIMENSIONS
MIST SEPARATOR SERIES NAM



(Clearance required for cartridge change)

Model	Port NPT	A mm	B mm	C mm
NAM150-N02D	1/4	159	63	10
NAM250-N03D	3/8	172	76	10
NAM350-N04D	1/2	204	90	10
NAM450-N06D	3/4	225	106	10
NAM550-N10D	1"	259	122	10
NAM650-N14D	1 1/2"	361	160	10
NAM850-N14D	2"	473	220	10

Manual and Autodrain types are same overall dimensions.

TECHNICAL SPECIFICATIONS

Max Operating Pressure	1MPa / 145PSI
Min Operating Pressure	0.05MPa / 8PSI
Ambient & Fluid Temp	5~60°C / 40~140°F
Filtration Degree	0.3µm
Oil Mist Removal	99.9%
Max Flow Rate ℓn/min*	NAM150 300 NAM250 750 NAM350 1500 NAM450 2,200 NAM550 3,500 NAM650 6,000 NAM850 12,000

*0.7MPa Supply, 0.03MPa or less pressure drop

SYMBOLS



ACCESSORIES

Bracket
NAM150 ..... BM51
NAM250 ..... BM52
NAM350 ..... BM53
NAM450 ..... BM54
NAM550 ..... BM55
NAM650 ..... BM56
NAM850 ..... BM57
Filter element
NAM150 ..... AM-EL150
NAM250 ..... AM-EL250
NAM350 ..... AM-EL350
NAM450 ..... AM-EL450
NAM550 ..... AM-EL550
NAM650 ..... AM-EL650
NAM850 ..... AM-EL850
GD40-2-01 ..... Differential pressure gauge

Note) **(N)AM**
AM - Japanese
NAM - North American

HOW TO ORDER
MIST SEPARATOR SERIES (N)AM

(N)AM ○ — ○○○○ — ○

BODY SIZE
150 ...1/8 Basis
250 ...1/4 Basis
350 ...3/8 Basis
450 ...1/2 Basis
550 ...3/4 Basis
650 ...1 Basis
850 ...1 1/2 Basis

THREAD
- ..... Rc(PT)* Remove (N) when ordering
F ..... G(PF)* Remove (N) when ordering
N ..... NPT

PORT SIZE
01 ...1/8
02 ...1/4
03 ...3/8
04 ...1/2
06 ...3/4
10 ...1
14 ...1 1/2
20 ...2

OPTIONS
- ..... None
B ..... Bracket
C ..... NC Autodrain
D ..... NO Autodrain

SUB-STANDARD SPECIFICATIONS
Y ..... Drain Guide 1/4 Internal Thread
M ..... With Drain Lock M5 Screw
R ..... IN, OUT Reverse Direction

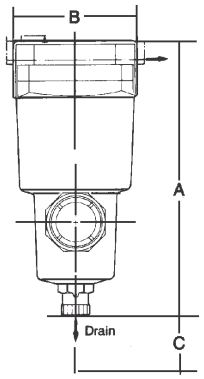
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Micro Mist Separator Series (N)AMD



- Port Sizes ¼, ⅜, ½, ¾, 1", 1½, 2"
- Removes Oil. Water and Dirt from Compressed Air
- 99.9999% Efficient
- Particle removal down to 0.01μm
- Oil Carry-over less than 0.08 p.p.m.
- Cartridge Type Element for easy replacement
- Small additional clearance required for cartridge replacement

Dimensions
Mist Separator Series NAMD



(Clearance required for cartridge change)

Model	Port NPT	A mm	B mm	C mm
NAMD150-N02	¼	159	63	10
NAMD250-N03	⅜	172	76	10
NAMD350-N04	½	204	90	10
NAMD450-N06	¾"	225	106	10
NAMD550-N10	1"	259	122	10
NAMD650-N14	1½"	361	160	10
NAMD850-N20	2"	473	220	10

Manual and Autodrain Types are same overall dimensions.

Technical Specifications

Max Operating Pressure	1MPa / 145PSI
Minimum Operating Pressure	0.05MPa / 8 PSI
Ambient and Fluid Temperatures	5 - 60°C / 40~140°F
Filtration Degree	0.01μm
Oil Mist Removal	99.9%
Max Flow Rate ℓn/min*	NAMD150 - 200 NAMD250 - 250 NAMD350 - 1000 NAMD450 - 2000 NAMD550 - 3500 NAMD650 - 6000 NAMD850 - 12000

*0.7MPa supply, 0.02MPa pressure drop

Symbols



Accessories
Mist Separator Series (N)AMD

Brackets
NAMD150 .....BM51
NAMD250 .....BM52
NAMD350 .....BM53
NAMD450 .....BM54
NAMD550 .....BM55
NAMD650 .....BM56
NAMD850 .....BM57
Filter Element
NAMD150 .....AMD-EL150
NAMD250 .....AMD-EL250
NAMD350 .....AMD-EL350
NAMD450 .....AMD-EL450
NAMD550 .....AMD-EL550
NAMD650 .....AMD-EL650
NAMD850 .....AMD-EL850
GD40-2-01.....Differential pressure gauge

How To Order
Mist Separator Series (N)AMD

Note) **(N)AMD**
AMD - Japanese
NAMD - North American

(N)AMD ○ — ○ ○ ○ — ○

Body Size
150 ...1/8 Basis
250 ...1/4 Basis
350 ...3/8 Basis
450 ...1/2 Basis
550 ...3/4 Basis
650 ...1 Basis
850 ...1 1/2 Basis

Thread
- .....Rc(PT)* Remove (N) when ordering
F .....G(PF)* Remove (N) when ordering
N .....NPT

Port Size
01 ...1/8
02 ...1/4
03 ...3/8
04 ...1/2
06 ...3/4
10 ...1
14 ...1 1/2
20 ...2

Options
- .....None
B .....Bracket
C .....NC Autodrain
D .....NO Autodrain

Sub-Standard Specifications
Y .....Drain Guide 1/4 Internal Thread
M .....With Drain Lock M5 Screw
R .....IN, OUT Reverse Direction

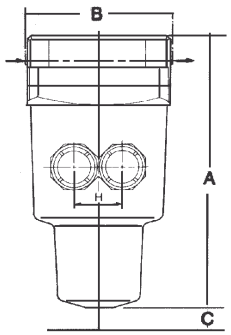
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ODOR REMOVAL FILTER SERIES (N)AMF



- Port Sizes ¼,⅜,½,¾,1",1½,2"
- Activated Carbon Filter Element with large filtration area (1420 m²/g)for the removal of hydrocarbon and organic vapors
- 99.9999% Efficient
- Particle removal down to 0.01μm
- Cartridge Type Element for easy replacement
- Small additional clearance required for cartridge replacement

DIMENSIONS
ODOR REMOVAL FILTER SERIES NAMF



(Clearance required for cartridge change)

Model	Port NPT	A mm	B mm	C mm
NAMF150-N02	¼"	139	63	10
NAMF250-N03	⅜"	152	76	10
NAMF350-N04	½"	184	90	10
NAMF450-N06	¾"	205	106	10
NAMF550-N10	1"	239	122	10
NAMF650-N14	1½"	321	160	10
NAMF850-N20	2"	403	220	10

TECHNICAL SPECIFICATIONS

Media	Compressed air - filtered to 10 micron
Operating Pressure	0.05 - 1MPa / 8~145PSI
Operating Temperature	5 - 60°C / 40~140°F
Max Flow Rate ℓn/min*	NAMF150 - 200 NAMF250 - 500 NAMF350 - 1000 NAMF450 - 2000 NAMF550 - 3500 NAMF650 - 6000

*0.7MPa supply, 0.015MPa pressure drop

SYMBOLS



ACCESSORIES
ODOR REMOVAL FILTER SERIES NAMF

Bracket
NAMF150 .....BM51
NAMF250 .....BM52
NAMF350 .....BM53
NAMF450 .....BM54
NAMF550 .....BM55
NAMF650 .....BM56
NAMF850 .....BM57
Filter element
NAMF150 .....NAMF-EL150
NAMF250 .....NAMF-EL250
NAMF350 .....NAMF-EL350
NAMF450 .....NAMF-EL450
NAMF550 .....NAMF-EL550
NAMF650 .....NAMF-EL650
NAMF850 .....NAMF-EL850

Note) **(N)AMF**
AMF - Japanese
NAMF - North American

HOW TO ORDER
ODOR REMOVAL FILTER SERIES (N)AMF

(N)AMF ○ — ○ ○ ○ — R

BODY SIZE
150 ...1/8 Basis
250 ...1/4 Basis
350 ...3/8 Basis
450 ...1/2 Basis
550 ...3/4 Basis
650 ...1 Basis
850 ...1 1/2 Basis

THREAD
- .....Rc(PT)* Remove (N) when ordering
F .....G(PF)* Remove (N) when ordering
N .....NPT

PORT SIZE
01 ...1/8
02 ...1/4
03 ...3/8
04 ...1/2
06 ...3/4
10 ...1
14 ...1 1/2
20 ...2

ACCESSORIES
- .....None
B .....Bracket

IN, OUT REVERSE DIRECTION

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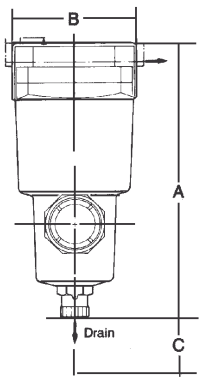
FILTERS: WATER SEPARATOR

WATER SEPARATOR SERIES AMG

- Port Sizes ¼, ⅜, ½, ¾, 1, 1½, 2"
- Removes 99.9% of Water Droplets
- Automatic Drain as Standard
- Element is resistant to clogging
- Small additional clearance required for cartridge replacement



DIMENSIONS
WATER SEPARATOR SERIES AMG



(Clearance required for cartridge change)

Model	Port NPT	A mm	B mm	C mm
AMG150	¼	170	63	10
AMG250	⅜	191	76	10
AMG350	½	220	90	10
AMG450	¾	241	106	10
AMG550	1	279	122	10
AMG650	1 ½	388	160	10
AMG850	2	479	220	10

TECHNICAL SPECIFICATIONS

Max Operating Pressure	1MPa / 145PSI
Min Operating Pressure	0.15MPa / 22PSI
Ambient & Fluid Temp	5~60°C / 40~140°F
Max Flow Rate ℓn/min*	AMG150 300 AMG250 750 AMG350 1500 AMG450 2200 AMG550 3500 AMG650 6000 AMG850 12000

*0.7MPa Supply, 0.03MPa or less pressure drop

SYMBOLS



ACCESSORIES

Bracket
AMG150 ..... BM51
AMG250 ..... BM52
AMG350 ..... BM53
AMG450 ..... BM54
AMG550 ..... BM55
AMG650 ..... BM56
AMG850 ..... BM57

HOW TO ORDER
WATER SEPARATOR SERIES AMG

AMG ○ — ○○○○ — ○

BODY SIZE
150 ...1/8 Basis
250 ...1/4 Basis
350 ...3/8 Basis
450 ...1/2 Basis
550 ...3/4 Basis
650 ...1 Basis
850 ...1 1/2 Basis

THREAD
- .....Rc(PT)* Remove (N) when ordering
F .....G(PF)* Remove (N) when ordering
N .....NPT

PORT SIZE
01 ...1/8
02 ...1/4
03 ...3/8
04 ...1/2
06 ...3/4
10 ...1
14 ...1 1/2
20 ...2

OPTIONS
Nil ...None
B .....Bracket
C .....NC Autodrain
D .....NO Autodrain

SUB-STANDARD SPECIFICATIONS

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PRESSURE CONTROL VALVE

The (N)AP Series pressure relief regulator is an adjustable relief valve with a control range of 18 ~ 100PSI. If a pressure greater than the set pressure is reached, the unit will open, closing when pressure is less than set pressure.

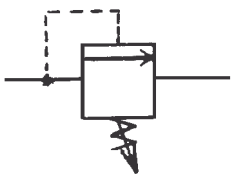


*BLACK HANDLE AVAILABLE IN NORTH AMERICA

TECHNICAL SPECIFICATIONS

Characteristics	(N)AP100
Port Size	⅛" (01), ¼" (02)
Max Operating Pressure	1MPa / 145PSI
Relieving Range	0.05 - 0.7MPa / 18~100PSI
Temperature Range	5 - 60°C / 40~140°F
Body Material	Aluminum Die Cast

SYMBOLS



HOW TO ORDER SERIES (N)AP100

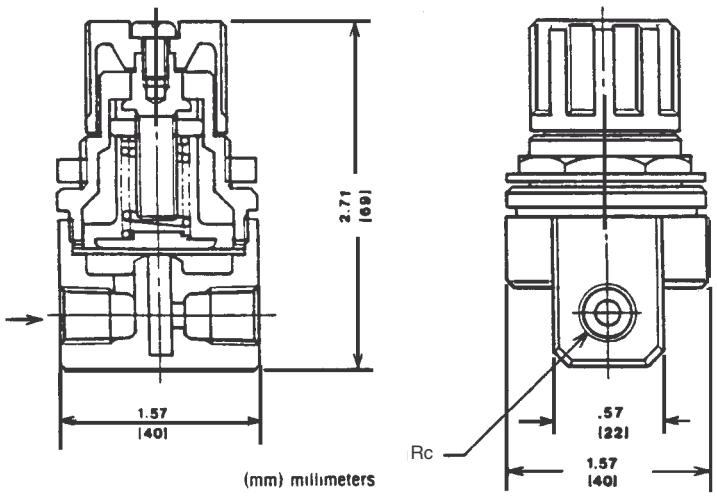
(N)AP100 — ○ ○

- ……Japanese
N ……North American

PORT SIZE
01 …⅛"
02 …¼"

THREAD
- ……Rc(PT)* Remove (N) when ordering
N ……NPT

DIMENSIONS (N)AP SERIES



ACCESSORIES SERIES (N)AP100

Bracket ……B21-1P

PRESSURE REGULATOR PILOT ASSISTED

- Compact, Lightweight Construction
- High Flow Capacity
- Stable Accurate Pressure Control

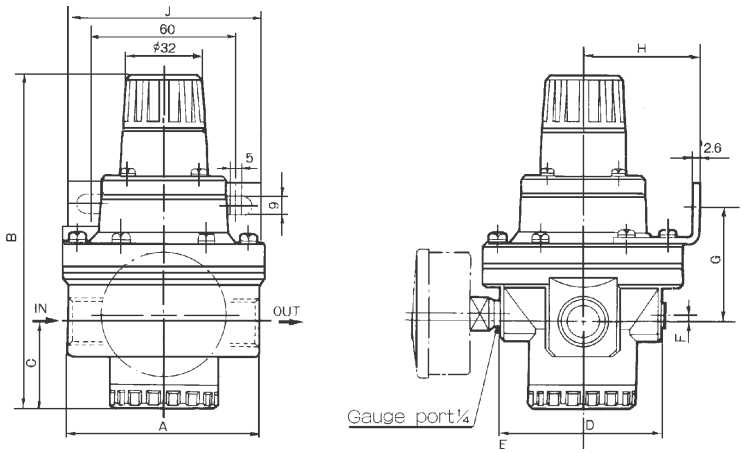


TECHNICAL SPECIFICATIONS

Pressure Regulating Range (Bar)	0.5 ~ 8.5	NAR425	NAR625	NAR825	NAR925
Pipe Size		¼ ⅜ ½	¾ 1	1½	2
Flow Rate ℓn/min 7bar suply, 1 bar pressure drop		8,000	14,000	18,000	22,000

1MPa = 145 PSI

DIMENSIONS
PILOT OPERATED PRESSURE REGULATOR

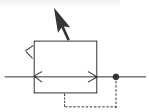


Model	A	B	C	D	E	F	Bracket Dimensions G	H	J	Bracket No.
NAR425	80	141	37	67	71 (72)	3	50	48	80	B24
NAR625	98	152	40	78	76.5 (77.5)	7	87	52	90	B25
NAR825	126	217	75	110	92.5 (93.5)	5	-	-	-	-
NAR925	160	242	89	140	107.5 (108.5)	10	-	-	-	-

ACCESSORIES
PILOT OPERATED PRESSURE REGULATOR

Mounting Bracket
B24 ……NAR425
B25 ……NAR625

SYMBOLS



HOW TO ORDER
PILOT OPERATED PRESSURE REGULATOR

(N)AR ○ 25 — ○ ○ ○

- ……Japanese
N ……North American

BODY SIZE
4 ……1/2
6 ……1
8 ……1 1/2
9 ……2

PRESSURE
25 …0.05~0.83MPa

THREAD
- ……Rc(PT)* Remove (N) when ordering
F ……F(PF)
N ……NPT

PORT SIZE
01 …1/8
02 …1/4
03 …3/8
04 …1/2
06 …3/4
10 …1
14 …1 1/2
20 …2

OPTIONS
B ……Bracket
G ……Gauge

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MINIATURE REGULATOR (N)ARJ1020F

- Compact Design
- Piston Construction offers High Frequency and Long Life
- One-Touch Tube Connection
- Panel Mount

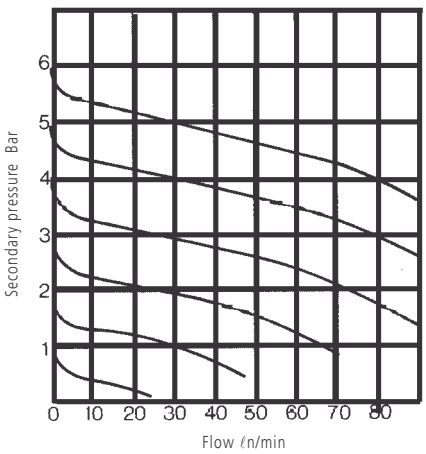


TECHNICAL SPECIFICATIONS

Model		NARJ1020F
Media		Air
Operating Pressure		0.1~0.7MPa / 14.5~100PSI
Max Pressure		0.8MPa / 120PSI
Temperature		5-60°C / 40~140°F
Piping	IN	M5X0.8 male
	OUT	Ø4, Ø6

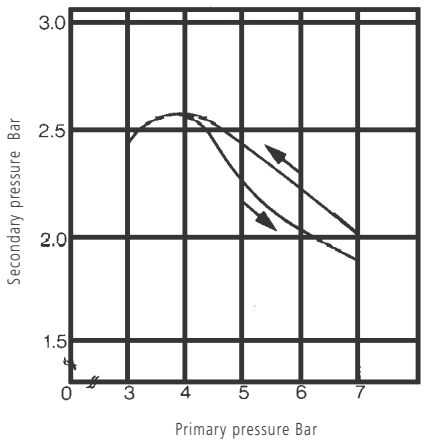
FLOW SPECIFICATIONS

Primary Pressure – 7 Bar

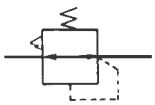


PRESSURE SPECIFICATIONS

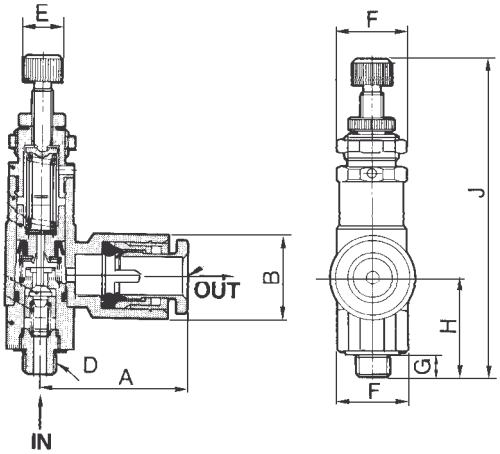
Test condition–(initial setting
Primary pressure–7 Bar
Secondary pressure–2 Bar
Flow rate–10ℓn/min



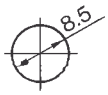
SYMBOLS



DIMENSIONS SERIES NARJ



Panel Mount Dimension



HOW TO ORDER MINIATURE REGULATOR (N)ARJ1020F

(N)ARJ1020F — M5 —

- ……Japanese
N ……North American

M5 …M5X0.8

04 …4mm
06 …6mm

Model	A	B	C	D	E	F	G	H	J
NARJ1020F-M5-04	21	10.4	4	M5X0.8	6	10.6	3.5	15.5	50
NARJ1020F-M5-06	22	12.8	6						

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Lubricator Series (N)AL

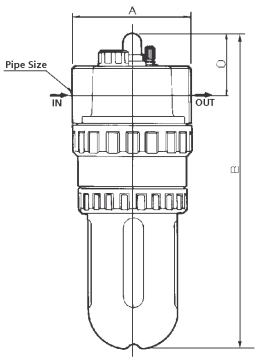
- Port Sizes 1½~2
- Atomizes Lubricant into fine particles at a uniform rate
- Drip Rate easily monitored with Sight Dome
- Can be filled under pressure
- Bowl Guard Standard
- Damper precludes oil flooding



Symbols



Dimensions Lubricator



Model	A	B	C	Pipe Size
NAL800	100	283	59	1½
NAL900	100	288	63	2

How To Order Lubricator Series NAL

NAL800-N12 (1¼ NPT)
NAL800-N14 (1½ NPT)
NAL900-N20 (2 NPT)

Technical Specifications

	NAL800	NAL900
Max Supply pressure	1.5MPa / 220PSI	
Max Operating Pressure	1MPa / 145PSI	
Operating Temp Range	5~60°C /40~140°F	
Recommended lubricant	Turbine oil #1 (ISO VG32)	
Bowl	Polycarbonate	
Pipe Size	11/4, 11/2	2
Min Flow for Oil Drip	650	1800
Oil Capacity (cm3)	500	500
Flow Rate ℓn/min	12500	16500

Flow rate quoted at: 0.5MPa supply
0.03MPa pressure drop

How To Order Lubricator Series AL

AL800-12 (1¼ PT)
AL800-14 (1½ PT)
AL900-20 (2 PT)

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AUTO DRAIN SERIES (N)AD

- Port Sizes ¼~1
- Float Type Automatic Drain Valve

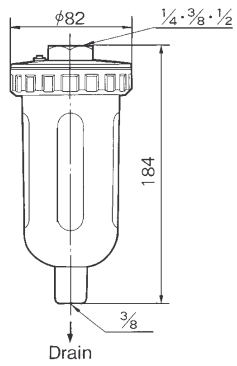


TECHNICAL SPECIFICATIONS

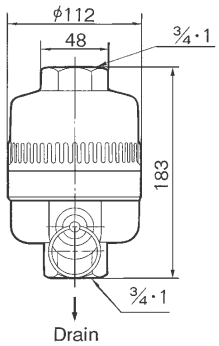
Type	(N)AD402	(N)AD600
Operating Pressure	1.5~9.9 Bar 22~145PSI	3~9.9 Bar 45~145PSI
Max Supply Pressure	15 Bar / 220PSI	
Max Operating Pressure	9.9 Bar / 145PSI	
Ambient & Fluid Temperature	5 ~ 60°C / 40~140°F	
Port Size	1/2	3/4, 1
Drain Port	3/4	3/4, 1

DIMENSIONS
AD SERIES AUITO DRAINS

AD402



AD600



SYMBOLS



HOW TO ORDER
AUTODRAIN SERIES AD

AD402-02 (1/4) PT
AD402-03 (3/8) PT
AD402-04 (1/2) PT
AD600-06 (3/4) PT
AD600-10 (1) PT

HOW TO ORDER
AUTODRAIN SERIES NAD

NAD402-N02 (1/4) NPT
NAD402-N03 (3/8) NPT
NAD402-N04 (1/2) NPT
NAD600-N06 (3/4) NPT
NAD600-N10 (1) NPT

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AUTO DRAINS

SERIES ADH 4000 HEAVY AUTO DRAIN

- Long Life
- Reliable
- Large Capacity
- No Risk of Back Pressure
- Easy Operation and Maintenance



TECHNICAL SPECIFICATIONS

Auto Drain Type	Float Type
Auto Drain Valve Type	Normally Open
Max Supply Pressure	1.5MPa / 220PSI
Max Operating Pressure	1.0 MPa / 145PSI
Operating Pressure Range	0.05 ~ 1.0 MPa {8~145PSI)
Ambient and Fluid Temperature	Compressed Air 5 ~ 60°C (non-freezing)
Max Exhaust Drain	400cc/min (at pressure 0.7MPa, water)
Weight	1.2kg (with bracket: 1.3kg)
Color	Light Grey

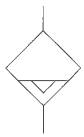
HOW TO ORDER SERIES ADH 4000 HEAVY AUTO DRAIN

ADH4 ○ 00 — ○ 04

MAX. OPERATING PRESSURE
0.....1.0MPa
1.....1.6MPa

THREAD
- .....Rc(PT)
N.....NPT

SYMBOLS



ACCESSORIES

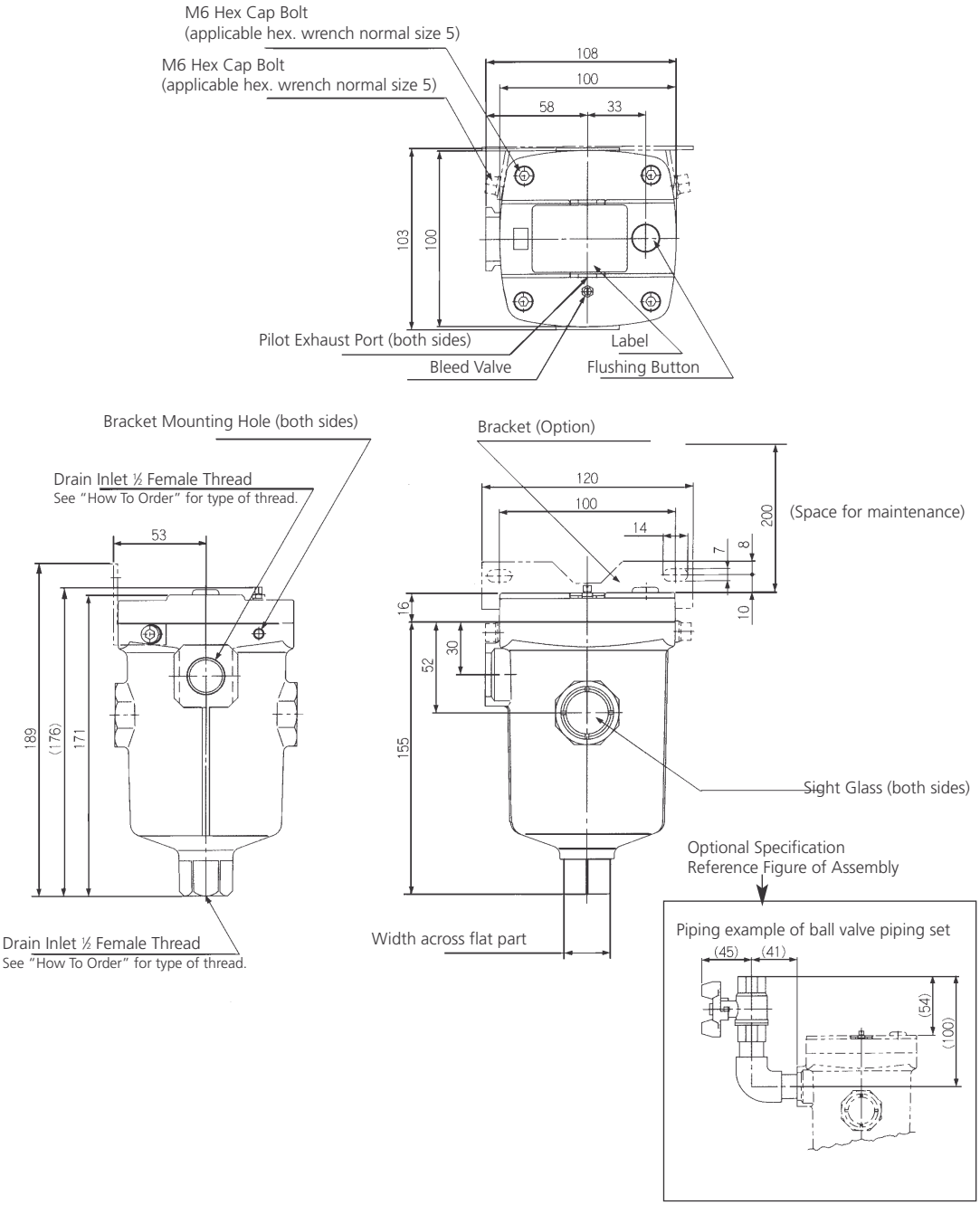
Bracket	BM58
Ball Valve Piping Kit	ADH-C400
(See note below)	
Silencer for Drain	2506-004-X228

Note: The Ball Valve Piping Kit includes a ball valve, two barrel nipples and an elbow. It can be fitted to the inlet of the unit and allows it to be isolated for examination and maintenance.

DIMENSIONS SEE NEXT PAGE ☞

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DIMENSIONS



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BOOSTER REGULATOR

BOOSTER REGULATOR SERIES (N)VBA

- Increases Main Line Pressure
- Compact Design
- Protects Downstream Equipment from Pressure Fluctuations
- Increases the power of actuator without changing to a larger cylinder
- No need for electrical input
- Optional Air Tanks for high demand
- Pressure Gauges and Silencers included
- Remote Adjustment possible

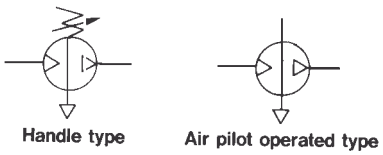


TECHNICAL SPECIFICATIONS

1MPa = 145PSI

Specification	(N)VBA1	(N)VBA2, (N)VBA4
Pressure Increase Ratio	Max. 2:1	Max. 2:1
Media	Air	Air
Proof Pressure	3MPa	1.5MPa
Max Working Pressure	2MPa	1MPa
Set Pressure Range	0.2 ~ 2MPa	0.2 ~ 1MPa
Ambient and Media Temp Range	0 ~ 50°C / 32~125°F	0 ~ 50°C / 32~125°F
Lubrication	Not Required	Not Required
Installation	Horizontal	Horizontal
Pressure Adjustable Mechanism	Relieving Type	Relieving Type

SYMBOL



Type	Handle Type			Air Pilot Operated Type	
	(N)VBA1110-02	(N)VBA2100-03	(N)VBA4100-04	(N)VBA2200-03	(N)VBA4200-04
Max Flow*	400 ℓn/min*	1000 ℓn/min**	1900 ℓn/min**	1000 ℓn/min**	1900 ℓn/min*
Port Size (IN, OUT)	¼	⅜	½	⅜	½
EXH Port Size	¼	⅜	½	⅜	½
Pilot EXH Port Size	–			⅛	
Pilot Pressure	–			1 ~ 5 Bar	
Weight	0.85 kg	3.8 kg	7.5 kg	3.8 kg	7.5 kg

*Pressure IN=OUT=10 Bar
**Pressure IN=OUT=5 Bar

INSTALLATION

The Booster Regulator should be installed with its piston in a horizontal position.

HOW TO ORDER (N)VBA BOOSTER REGULATOR

(N)VBA ○ ○ ○ 0 — ○ ○ ○

- ……Japanese
N ……North American

BODY SIZE
1 ……¼"
2 ……⅜"
4 ……½"

PRESSURE ADJUSTMENT
1 ……Handle
2 ……Air Pilot (VBA 2000, 4000 only)

PRESSURE RANGE
0 ……1MPa Max (2000, 4000 Series)
1 ……2MPa Max (1000 Series)

OPTION
G ……Pressure Gauge
N ……Silencer

PORT THREAD
T ……NPTF* Remove (N) when ordering
F ……G(PF)* Remove (N) when ordering
N ……NPT

PORTING
02 …1/4" (1110)
03 …3/8" (2100, 2200)
04 …1/2" (4100, 4200)

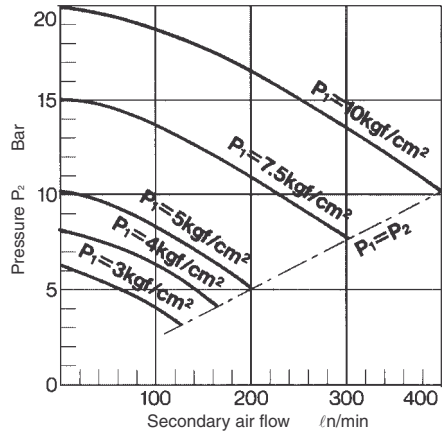
ACCESSORIES (N)VBA BOOSTER REGULATOR

SPARES KITS
KT-VBA2100-P ……(N)VBA2000 Series
KT-VBA4100-P ……(N)VBA4000 Series

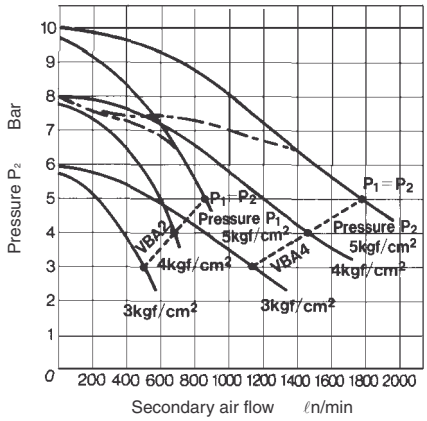
DIMENSIONS SEE NEXT PAGE ☞

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(N)VBA1
FLOW CHARACTERISTICS

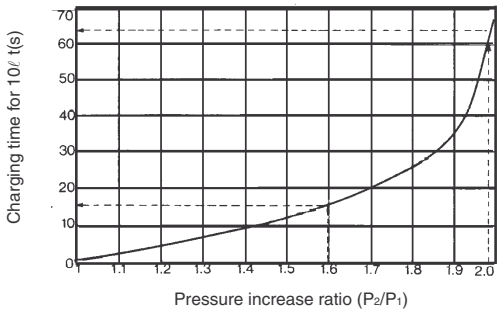


(N)VBA2, (N)VBA4
FLOW CHARACTERISTICS

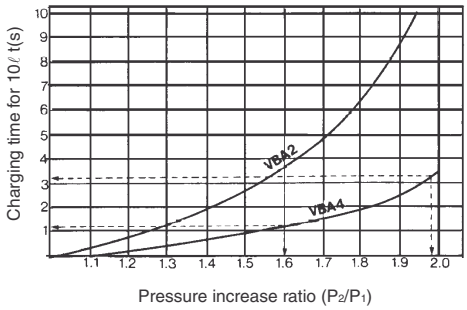


Example:
(N)VBA 4
P1 = 5 bar
P2 = 8 bar
Then maximum flow demand = 1000 ℓn/min

NVBA1
CHARGE CHARACTERISTICS



(N)VBA2, (N)VBA4
CHARGE CHARACTERISTICS



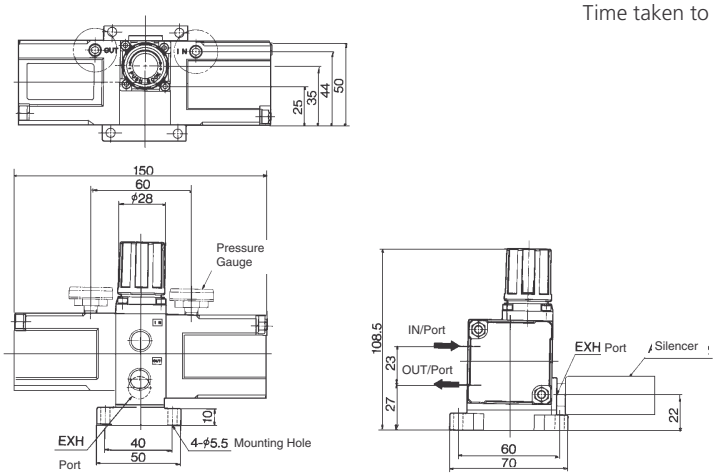
These graphs illustrate the time required to inrease pressure in a closed tank e.g. (V)BA 1
If we wish to increase tank pressure to 8 bar, where P1 = 4 bar and tank pressure = 6.4 bar:

initial $\frac{p2}{p1} = \frac{6.4}{4} = 1.6$ (charging line from graph = 15 seconds)

final $\frac{p2}{p1} = \frac{8}{4} = 2$ (charging line from graph = 65 seconds)

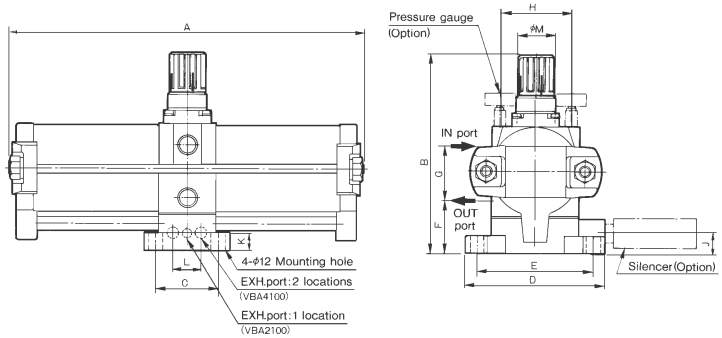
Time taken to increase pressure = 65 − 15 seconds
= 50 seconds per 10 litre volume of tank

DIMENSIONS
HANDLE TYPE
(N)VBA1110-02



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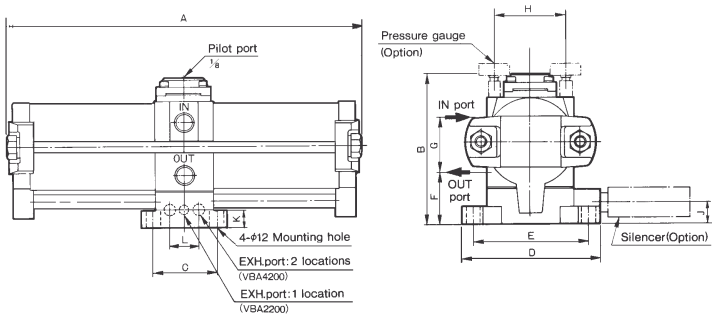
DIMENSIONS
HANDLE TYPE
(N)VBA2100-03, (N)VBA4100-04



mm

Model	Port Size	A	B	C	D	E	F	G	H	J	K	L	ØM
(N)VBA2100-(N)03	⅜	300	170	53	118	98	44	45	60.5	18	15	–	31
(N)VBA4100-(N)04	½	404	207.5	96	150	130	62.8	62	90	17	15	40	40

DIMENSIONS
AIR PILOT OPERATED TYPE
(N)VBA2200-03, (N)VBA4200-04



mm

Model	Port Size	A	B	C	D	E	F	G	H	J	K	L
(N)VBA2200-(N)03	⅜	300	126.5	53	118	98	44	45	60.5	18	15	–
(N)VBA4200-(N)04	½	404	167	96	150	130	62.8	62	90	17	15	40

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PRESSURE GAUGES



PRESSURE GAUGES

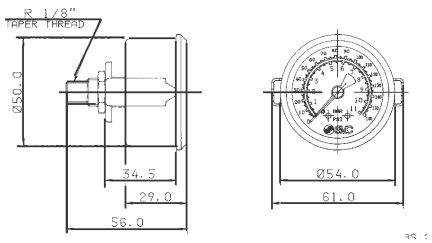
- 3 Pressure Ranges
- Center Back or Panel Mount
- ⅛ or ¼ Connection
- 40 or 50mm Diameter Face

HOW TO ORDER PRESSURE GAUGES

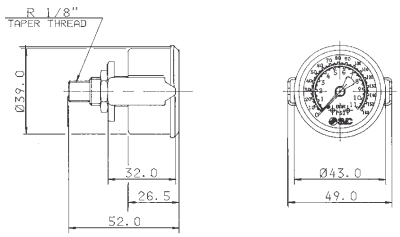
MODEL	PORT SIZE	PRESSURE RANGE	APPLICABLE MODEL
G27-P10-R1	Rc(PT)1/16	0 ~ 150PSI	NAR1000 • NAW1000
K10	1/8NPT	0 ~ 160PSI	NAR2000 • 2500 • NAW2000 • 3000
K12	1/4NPT	0 ~ 160PSI	NAR4000 • NAW4000
K13	1/4NPT	0 ~ 30PSI	NAR4000 • NAW4000
K20	1/8NPT	0 ~ 30PSI	NAR2000 • 2500 • NAW2000 • 3000

G27-10-R1 1/16 Connection

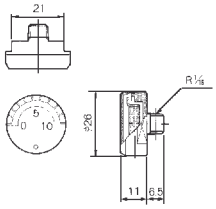
DIMENSIONS 5K8-10P/4P/2.5P



DIMENSIONS 4K8-10P/4P/2.5P



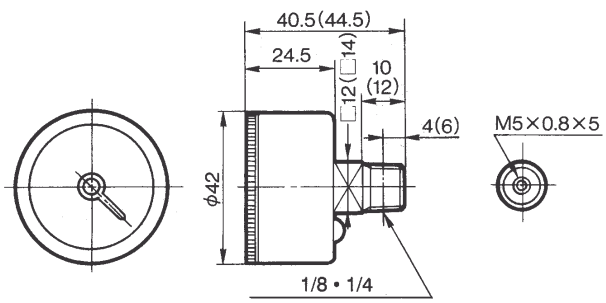
DIMENSIONS G27-10-R1





VACUUM GAUGES

- Scale in mmHg
- Center Back Mount
- ⅛ or ¼ Connection
- 42mm Diameter Face



HOW TO ORDER VACUUM GAUGES

GZ46 — A — ○○○ — ○

THREAD TYPE
- ……Rc(PT)
N ……NPT

CONNECTION THREAD
01 …1/8
02 …1/4

INTERNAL THREAD
M ……M5 (10-32Nom) Female

MOUNTING
- ……Standard
C ……Panel Mounting

SILENCERS SERIES (N)AN

SERIES (N)AN SILENCER M3, M5, 1/8 SINTERED BRONZE

- Suitable for miniature valves and pilot air exhaust ports
- 13 - 21 dB noise reduction



TECHNICAL SPECIFICATIONS

Model	NAN101-01	NAN110-01	NAN120-M3	NAN120-M5
Port Size	1/8"*	1/8"*	M3	M5
Noise Reduction (dB)	16	21	13	18
Max Operating Pressure	1MPa / 145PSI			
Ambient & Fluid Temperature	5~150°C / 40~300°F			
Effective Orifice mm² (Cv)	20 (1.1)	35 (1.9)	1 (0.05)	5 (0.27)
Weight (gf)	9.5	20	1	3.3

*Tapered thread ISO7/1

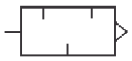
HOW TO ORDER SERIES NAN SILENCER

NAN120-M3 (M3)
NAN120-M5 (M5)
NAN110-N01 (1/8 NPT)
NAN101-N01 (1/8 NPT)

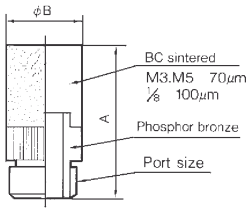
HOW TO ORDER SERIES AN SILENCER

AN120-M3 (M3)
AN120-M5 (M5)
AN110-01 (1/8 PT)
AN101-01 (1/8 PT)

SYMBOLS



DIMENSIONS SERIES NAN SILENCER



Model	A	ØB
NAN101-N01	22.5	11
NAN110-N01	38	13
NAN120-M3	9	6
NAN120-M5	17	8

SERIES (N)AN SILENCER 1/4~2

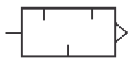
- Over 30 dB noise reduction
- Low back pressure
- Compact and easy mounting

TECHNICAL SPECIFICATIONS

Max Operating Pressure	1MPa / 145PSI
Noise Reduction	30dB or more
Ambient & Fluid Temperature	5~60°C / 40~140°F



SYMBOLS



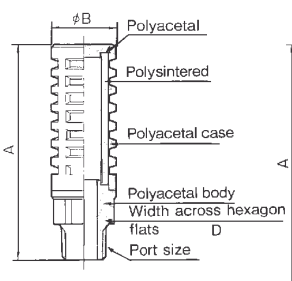
HOW TO ORDER SERIES NAN SILENCER

Model	Port Size* NPT	Effective Orifice mm² (Cv)
NAN200-N02	1/4"	35 (1.9)
NAN300-N03	3/8"	60 (3.3)
NAN400-N04	1/2"	90 (5.0)
NAN500-N06	3/4"	160 (8.8
NAN600-N10	1	270 (15)
NAN700-N12	1 1/4	440 (24)
NAN800-N14	1 1/2	590 (33)
NAN900-N20	2	960 (53)

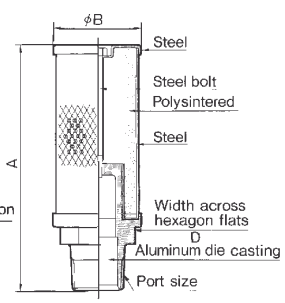
Note: When ordering PT Ports, remove (N) from Model Number
Eg: AN200-02

DIMENSIONS SERIES NAN SILENCER

AN200~400



AN500~900



Model	Dimensions (mm)		
	A	B	D
NAN200-N02	63	22	19
NAN300-N03	84	25	22
NAN400-N04	92	30	27
NAN500-N06	107	46	36
NAN600-N10	132	50	41
NAN700-N12	200	74	55
NAN800-N14	233	74	60
NAN900-N20	263	86	70

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HIGH NOISE REDUCTION TYPE SILENCER SERIES ANA1/ANB1

- Standardized Thread and One-touch Connection
- Choice of two Orifice Sizes
- Compact, Robust Construction
- Minimum Flow Restriction for Low Back Pressure
- Wide Range of Options
- High Noise Attenuation (40dB)(A) for ANA1



TECHNICAL SPECIFICATIONS

Series	A1	B1
Max Operating Pressure	1.0MPa / 145PSI	1.0MPa / 145PSI
Noise Reduction Effect	40dB(A)	38dB(A)
Ambient and Fluid Temperature	5~60°C / 40~140°F	5~60°C / 40~140°F
Thread	R(PT) One Touch Fittings	R(PT) One Touch Fittings

HOW TO ORDER ANA1/ANB1 SERIES

AN ○ — ○

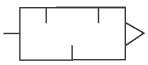
PORT SIZE (SCREW-IN)

		One Touch
01	...1/8	C06 ...Ø6 (B1 only)
02	...1/4	C08 ...Ø8
03	...3/8	C10 ...Ø10
04	...1/2	C12 ...Ø12 (A1 only)
06	...3/4	
10	...1	
12	...1 1/4	
14	...1 1/2	
20	...2 (A1 only)	

SERIES

A1 ...Noise Reduction at 40dB(A)
B1 ...Noise Reduction at 38dB(A)

SYMBOLS

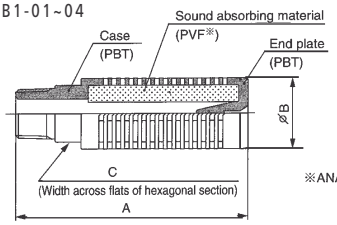


DIMENSIONS MODEL (THREAD CONNECTION)

Model	Port Size	Effective orifice (mm2)	Weight (g)	Dimensions (mm) A	B	C
ANA1-01	1/8	10	4	37	16	-
ANA1-02	1/4	15	14	64	22	18
ANA1-03	3/8	35	22	84	25	21
ANA1-04	1/2	60	36	98	30	24
ANA1-06	3/4	90	110	111	46	36
ANA1-10	1	160	180	132	50	41
ANA1-12	1 1/4	280	544	200	74	60
ANA1-14	1 1/2	450	612	230	74	60
ANA1-20	2	610	873	271	86	70
ANB1-01	1/8	15	10	51	22	-
ANB1-02	1/4	35	22	81	25	18
ANB1-03	3/8	60	35	93	30	21
ANB1-04	1/2	90	94	107	46	24
ANB1-06	3/4	160	175	133	50	41
ANB1-10	1	280	462	190	74	41
ANB1-12	1 1/4	450	612	230	74	60
ANB1-14	1 1/2	610	871	271	86	70

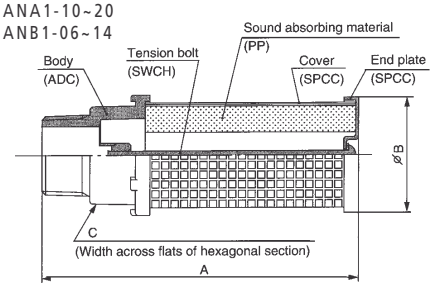
DIMENSIONS

ANA1-01~06
ANB1-01~04



※ANA1-06 : PP

ANA1-10~20
ANB1-06~14



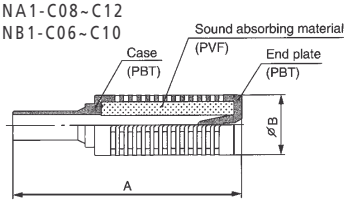
DIMENSIONS MODEL (ONE TOUCH FITTINGS CONNECTION)

Model	Applicable One Touch Fittings Size	Effective Orifice (mm²)	Weight (g)	Dimensions (mm) A	B
ANA1-C08	Ø8	11	5	58	16
ANA1-C10	Ø10	15	13	76	22
ANA1-C12	Ø12	33	19	95	25
ANB1-C06	Ø6	8	5	52	16
ANB1-C08	Ø8	13	12	73	22

Notes: •To install threaded versions screw in hand tight then wrench tighten 1/4 turn only.
•Avoid contact with solvants or corrosive gases.

DIMENSIONS

ANA1-C08~C12
ANB1-C06~C10



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EXHAUST CLEANER SERIES NAMC

SERIES (N)AMC EXHAUST CLEANER

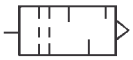
- Ensures Clean Plant Air and Noise Reduction of distributing noise contamination
- Over 35 dB Noise Reduction
- Over 99.9% Oil Mist Removal



TECHNICAL SPECIFICATIONS

Max Operating Temperature	60°C / 140°F
Noise Reduction	35dB or more
Oil Mist Removal	99.9% or more
Exhaust of Oil Mist	Drain cock
Option	Bracket*
*Bracket not available on NAMC810 and 910	

SYMBOLS



HOW TO ORDER NAMC SERIES

Model	Male					Female		
	NAMC310	NAMC510	NAMC610	NAMC810	NAMC910	NAMC220	NAMC320	NAMC520
Port Size NPT	⅜"	¾"	1	1½	2	¼"	¼•⅜"	½•¾"
Max Air Flow (Nℓ/min)	300	1,000	3,000	6,000	10,000	200	300	1,000
Effective Orifice mm² (Cv)	16 (0.88)	55 (3.1)	165 (9.2)	330 (18.3)	550 (31)	12 (0.66)	16 (0.88)	55 (3.1)
Element Model No	635321	635521	635619	635812P	635917P	63522	635321	635521
Bracket Model No	BE30	BE50	BE60	–	–	BE20	BE30	BE50

ACCESSORIES SERIES (N)AMC EXHAUST CLEANER

Element .....See "How To Order"
Bracket .....See "How To Order"

HOW TO ORDER EXHAUST CLEANER SERIES (N)AMC

(N)AMC ○○ 0 — ○○○

- .....Japanese
N .....North American

BODY SIZE
2 .....1/4
3 .....3/8
5 .....3/4
6 1
8 .....1 1/2
9 2

THREAD
1 .....Male
2 .....Female
(Only NAMC220, 320, 520 Special Order Only)

THREAD
- .....R(PT)* Remove (N) when ordering
N .....NPT

PORT SIZE
02 ...1/4
03 ...3/8
04 ...1/2
06 ...3/4
10 ...1
14 ...1 1/2
20 ...2

OPTION
B .....Bracket
D .....Threaded Drain Port (Female)

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