Silencer Compact Resin Type/Male Thread Series AN05 to 40 (RoHS)



AN 20 - 02 Body size								
S	Symbol					Symbol	P	
	05		Thre	ad type		M5	Ν	
	10		Nil	M thread		01		
	15		INII	R		02		
	20		Ν	NPT		03		
	30					04		
	40							

How to Order

<u> </u>		
↓ ● Thr	ead connect	tion port size
Symbol	Port size	Applicable model
M5	M5 x 0.8	AN05
01	1/8	AN10
02	1/4	AN15/20
03	3/8	AN30
04	1/2	AN40

Specifications

Fluid	Compressed air		
Max. operating pressure Note 1)	145psi (1.0 MPa)		
Noise reduction	30 dB(A) Note 2)		
Ambient and fluid temperature	41 to 140°F (5 to 60°C) Note 3)		

Note 1) It indicates the inlet pressure for solenoid valve.

Note 2) The value may vary, depending on the pneumatic circuit or pressure that is exhausted from the solenoid valve. Note 3) The product can be used in temperatures 14 to 140°F (–10 to 60°C) if there is no risk of water droplets forming and freezing.

Refer to page 5 for Precautions on these products.

Performance

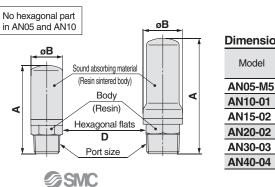
Model	Effective area mm ²	Sonic conductance C [dm ³ /(s·bar)]	Recommended flow m ³ /min(ANR)	Weight g
AN05-M5	5	1	0.4 or less	0.5
AN10-01	10	2	0.8 or less	1
AN15-02	15	3	1.0 or less	2.5
AN20-02	35	7	3.0 or less	4
AN30-03	60	12	5.0 or less	5.5
AN40-04	90	18	8.0 or less	8.5

Note) Recommended flow rate is the flow at 72.5psi (0.5 MPa) in the inlet pressure.

Construction/Parts/Dimensions

AN05/10/20

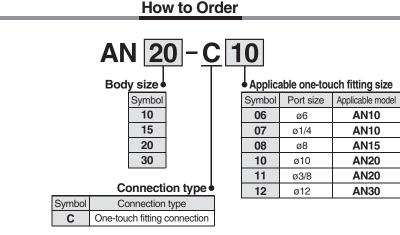
AN15/30/40



Dimensions (mm					
Model	Port size R, NPT	Α	в	D	
AN05-M5	M5 x 0.8	15	6.5	-	
AN10-01	1/8	23	11	I	
AN15-02	1/4	32	16	14	
AN20-02	1/4	45	16.5	14	
AN30-03	3/8	58.5	20	17	
AN40-04	1/2	68	24	21	
				-	

Silencer Compact Resin Type/One-touch Fitting Connection Series AN10 to 30-C ROHS





Specifications

Fluid	Compressed air
Max. operating pressure Note 1)	145psi (1.0 MPa)
Noise reduction	30 dB(A) Note 2)
Ambient and fluid temperature	41 to 140°F (5 to 60°C) Note 3)

Note 1) It indicates the inlet pressure for solenoid valve.

Note 2) The value may vary, depending on the pneumatic circuit or pressure that is exhausted from the solenoid valve. Note 3) The product can be used in temperatures 14 to 140°F (-10 to 60°C) if there is no risk of water droplets forming and freezing.

Refer to page 5 for Precautions on these products.

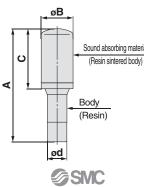
Performance

Model	Effective area mm ²	Sonic conductance C [dm ³ /(s·bar)]	Recommended flow m ³ /min(ANR)	Weight g
AN10-C06	7	1.4	0.8 or less	1
AN10-C07	/	1.4	0.6 OF less	1
AN15-C08	20	4	3.0 or less	1.4
AN20-C10	30	6	5.0 or less	3.5
AN20-C11	25	5	3.0 or less	3.5
AN30-C12	41	8.2	5.0 or less	5

Note) Recommended flow rate is the flow at 72.5psi (0.5 MPa) in the inlet pressure.

Construction/Parts/Dimensions

AN10-C to 30-C



	Dimensions					
al	Model	Α	В	С	ød	
	AN10-C06	00 F	11	14.5	ø6	
	AN10-C07	36.5			ø1/4	
	AN15-C08	45	13	20	ø8	
	AN20-C10		16.5	30.5	ø10	
	AN20-C11	57.5	10.5	30.5	ø3/8	
	AN30-C12	71.5	20	43.5	ø12	

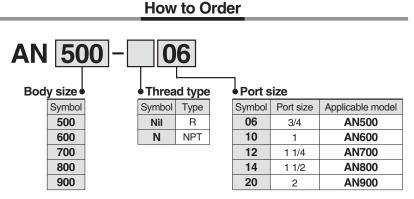
Silencer **Metal Body Type** Series AN 00



Noise reduction 30 dB(A) Low back pressure Easy mounting



JIS Symbol



Specifications

Fluid	Compressed air
Max. operating pressure Note 1)	145psi (1.0 MPa)
Noise reduction	30 dB(A) Note 2)
Ambient and fluid temperature	41 to 140°F (5 to 60°C) Note 3)

Note 1) It indicates the inlet pressure for solenoid valve.

Note 2) The value may vary, depending on the pneumatic circuit or pressure that is exhausted from the solenoid valve. Note 3) The product can be used in temperatures 14 to 140°F (-10 to 60°C) if there is no risk of water droplets forming and freezing

Refer to page 5 for Precautions on these products.

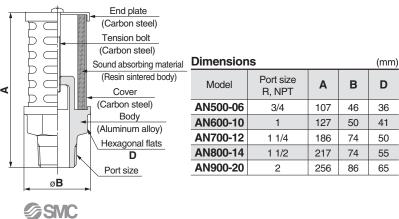
Performance

Model	Effective area mm ²	Sonic conductance C [dm ³ /(s·bar)]	Recommended flow m ³ /min(ANR)	Weight g
AN500-06	160	32	12 or less	165
AN600-10	270	54	20 or less	220
AN700-12	440	88	30 or less	435
AN800-14	590	118	50 or less	510
AN900-20	960	192	80 or less	740

Note) Recommended flow rate is the flow at 72.5psi (0.5 MPa) in the inlet pressure.

Construction/Parts/Dimensions

AN500 to 900



Series AN Specific Product Precautions

Be sure to read before handling. Refer to back cover for Safety Instructions.

Design

≜ Warning

1. The silencer clogging may result in a blocked exhaust port.

Provide a safety design so as not to cause the whole system to malfunction.

≜Caution

1. The silencer is intended to reduce the noise of compressed air that is exhausted from the pneumatic equipment.

Since noises generated by sources other than the exhaust, such as noise generated inside piping, equipment vibration and solenoid valve switching, cannot be reduced, locate the cause of these noises and take countermeasures.

The product does not function as a filter. Do not use the product as a filter regardless of negative and positive pressures.

2. If the compressed air supply is contaminated with fluids such as oil and oil mist, such fluids will be dispersed to the environment.

In such a case, an exhaust cleaner is recommended to recover fluids and reduce noise.

3. The value of the noise reduction may vary, depending on the pneumatic circuit or pressure that is exhausted from the solenoid valve.

Selection

Caution

1. When selecting the silencer, the sonic conductance* (including combined sonic conductance) of the silencer should be larger than that of the solenoid valve.

*Sonic conductance C [dm³/(s·bar)] = Effective area [mm²] \div 5

2. Use within the range of specifications.

Operating Environment

Warning

1. Do not use in an atmosphere having corrosive gases, chemicals, sea water, water, water steam, or where there is direct contact with any of these.

Refer to the construction drawings for silencer materials.

- 2. Avoid exposure to direct sunlight.
- 3. Do not operate in locations where vibration or impact occurs.
- 4. Do not use the product in locations where it is near heat sources and exposed to radiation heat.
- 5. Do not use in an environment where the product is exposed to cutting oil, lubricating oil, or coolant, etc. If it is used in an environment where there is possible contact with cutting oil, lubricating oil, or coolant, exercise preventive measures.
- 6. Do not use in an environment where foreign matter may stick to the product or get mixed in the product's interior. It may result in clogging at an early stage, coming off or causing damage.

Mounting

≜Caution

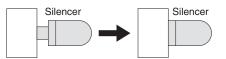
- 1. If the silencer body is made of resin and is tightened too much, the silencer may be damaged.
- 2. Tightening by using a pipe wrench or pliers may cause damage to the silencer. This method is not recommended.

Please follow the procedures below for mounting.

When the body is made of resin

Hold the tip of the body (the side without thread) and screw it in. At the point where the thread begins to feel tight, use a wrench on the hexagonal flats to tighten an additional 1/4 turn.

Tighten the AN05-M5 by hand completely until the ends of the fitting come into contact with the mounting surface. Then apply additional tightening. Note that the additional tightening should be 30° or less. (Tighten it with 0.1 N·m or less.)



When the body is made of metal

Within the recommended tightening torque shown in the table below, use a wrench on the hexagonal flats and tighten.

Tightening Torque (Metal type)

Connection thread	Applicable tightening torque N·m
R 3/4	28 to 30
R1	36 to 38
R11/4	40 to 42
R11/2	48 to 50
R2	48 to 50

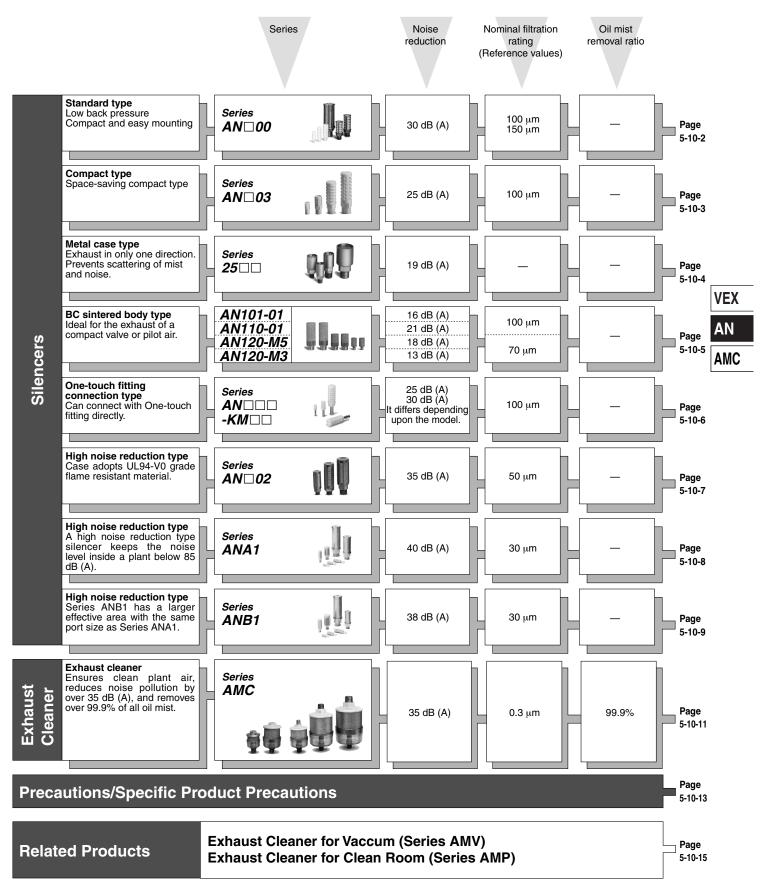
- 3. Make sure not to apply a lateral load to the body during or after the installation.
- 4. When the silencer body is loosened by vibration, etc. of equipment on which a silencer is assembled, apply glue to threads to prevent loosening and reattach.

Maintenance

▲Caution

- The sound absorbing material is not replaceable. Since the sound absorbing material is not replaceable, never disassemble the product.
- 2. If the exhaust speed drops and the system performance decreases due to clogging, replace with a new silencer. Make sure to verify the operating conditions of the actuator at least once a day.
- 3. If operation continues when it is clogged, breakage can result.

Silencers/Exhaust Cleaner



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SERIES (N)AN SILENCER M3, M5, ¹/8 SINTERED BRONZE Suitable for miniature valves and pilot air exhaust ports

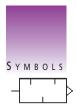
✓ 13 - 21 dB noise reduction



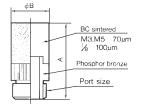
SPECIFICATIONS

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	Ambient & Fluid Temperature 5~150°C / 40~300°F				
Effective Orifice mm ² (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



DIMENSIONS SERIES NAN SILENCER





Model

NAN110-N01

NAN120-M3

NAN120-M5

NAN101-N01 22.5

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11

38 13

9 6

17 8

How To ORDER SERIES NAN SILENCER NAN120-M3 (M3) NAN120-M5 (M5) NAN110-N01 (1/8 NPT) NAN101-N01 (% NPT)

Ηοω Το ORDER SERIES AN SILENCER AN120-M3 (M3) AN120-M5 (M5) AN110-01 (1/2 PT) AN101-01 (1/8 PT)

SERIES (N)AN SILENCER 1/4~2

- ✓ Over 30 dB noise reduction
- \star Low back pressure
- 🗹 Compact and easy mounting

How To ORDER SERIES NAN SILENCER

Model	Port Size* NPT	Effective Orifice mm ² (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	11/4 440 (24)		
NAN800-N14	1 1/2	590 (33)	
NAN900-N20	2	960 (53)	

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





DIMENSIONS

AN200 - 400

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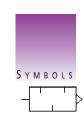
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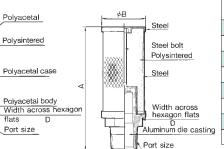
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Max Operating Pressure	1MPa / 145PSI	
Noise Reduction	30dB or more	
Ambient & Fluid Temperature	5~60°C / 40~140°F	









AN500~900

Model	Dimensions (mm)		
woder	А	В	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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 LW1L-M1C70-A
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 00-9089-RDPP
 00-9300-RDPP
 01-1003W-8/32-10
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 601-JJ-06
 601-SPB
 602/JJ-03
 602SPB
 602/G2
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