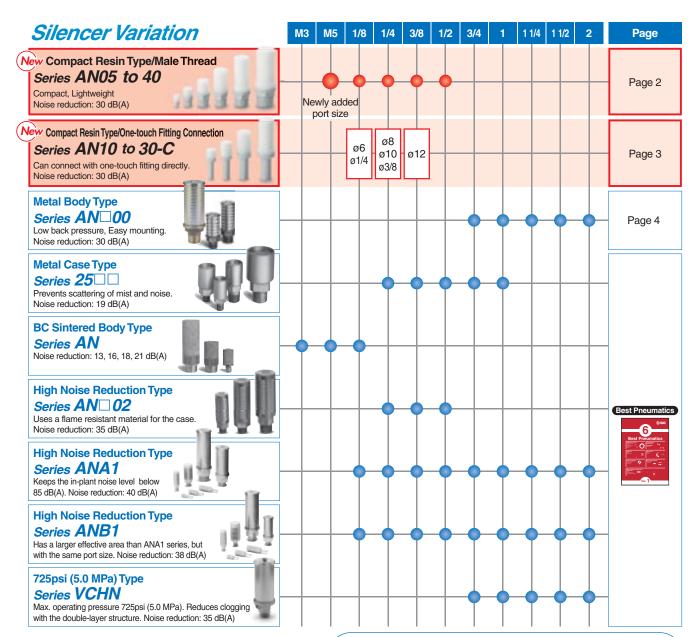
Silencer











Comparison between existing and new

The resin silencer is now a more compact size!

(AN200 to 400, AN103 to 403, AN103-KM6 to 300-KM12)

Male Thread (Resin body)

Туре	Type New model			Existing model								
	Sonic conductance Length Noise		Standard			Compact type						
Port size	Model	C [dm³/(s·bar)]	(mm)			Sonic conductance C [dm³/(s·bar)]	Length (mm)	Noise reduction	Model	Sonic conductance C [dm³/(s·bar)]	Length (mm)	Noise reduction
M5 x 0.8	AN05	1	15		_	_			_		_	
1/8	AN10	2	23		_	_	_	_	AN103	2	23.5	OE dD(A)
1/4	AN15	3	32	20 4B(A)	_	_	_	_	AN203	3	36	25 dB(A)
1/4	AN20	7	45	30 dB(A)	AN200	7	63		_	_	_	_
3/8	AN30	12	58.5		AN300	12	84	30 dB(A)	AN303	7	66	OF JD(A)
1/2	AN40	18	68		AN400	18	92		AN403	12	84	25 dB(A)

One-touch Fitting Connection (Resin body)

One-touch Fitting Connection (Resin body)										
Type	New model				Existing model					
Port size	Model	Sonic conductance C [dm³/(s·bar)]	Length (mm)	Noise reduction	Model	Sonic conductance C [dm³/(s·bar)]	Length (mm)	Noise reduction		
ø6	AN10-C06				AN103-KM6		37	25 dB(A)		
		1.4	36.5	36.5	AN103-X233	1.4				
ø1/4	AN10-C07				AN103-X235					
ø8	AN15-C08	4	4	4	4 45		AN203-KM8	2.8	45	
. 00	AN15-CU6	4	45	45		30 dB(A)	AN200-KM8	4	73	
10	ANIO0 C10				AN200-KM10	5.2	76	30 dB(A)		
ø10	AN20-C10	6	57.5		AN300-KM10	6	90			
ø3/8	AN20-C11	5			_	_	_			
ø12	AN30-C12	8.2	71.5		AN300-KM12	8.2	91	30 dB(A)		

Silencer

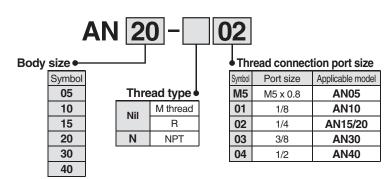
Compact Resin Type/Male Thread

Series AN05 to 40





How to Order



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.

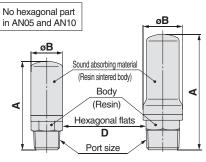
Performance

Model	Effective area mm ²	Sonic conductance C [dm³/(s·bar)]	Recommended flow m³/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	_			
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

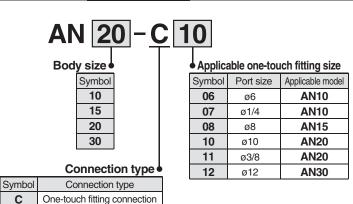
Compact Resin Type/One-touch Fitting Connection

Series AN10 to 30-C ROHS





How to Order



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

Refer to page 5 for Precautions on these products.

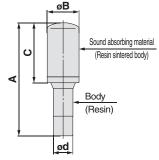
Performance

Model	Effective area mm ²	Sonic conductance C [dm ³ /(s·bar)]	Recommended flow m³/min(ANR)	Weight g
AN10-C06	7	1.4	0.8 or less	1
AN10-C07		1.4	0.6 or 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



Dimension	(mm)			
Model	Α	В	C	ød
AN10-C06	36.5	11	14.5	ø6
AN10-C07	30.3	11	14.5	ø1/4
AN15-C08	45	13	20	ø8
AN20-C10	57.5	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

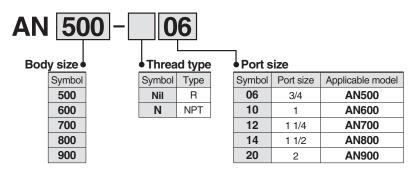


Noise reduction 30 dB(A) Low back pressure Easy mounting



JIS Symbol

How to Order



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.

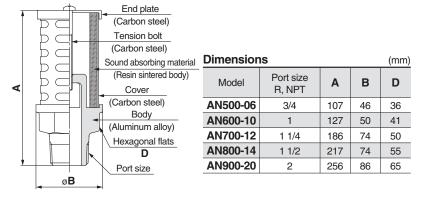
Performance

Model	Effective area mm ²	Sonic conductance C [dm ³ /(s·bar)]	Recommended flow m³/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

 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

 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.

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.

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

Selection

⚠ Caution

- 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 [dm 3 /(s·bar)] = Effective area [mm 2] ÷ 5
- 2. Use within the range of specifications.

Operating Environment

. Marning

 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.
- 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

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

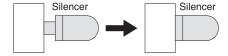
- 1. If the silencer body is made of resin and is tightened too much, the silencer may be damaged.
- Tightening by using a pipe wrench or pliers may cause damage to the silencer. This method is not recommended.

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)

<u> </u>	· , ,
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

1. The sound absorbing material is not replaceable.

Since the sound absorbing material is not replaceable, never disassemble the product.

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.

If operation continues when it is clogged, breakage can result.



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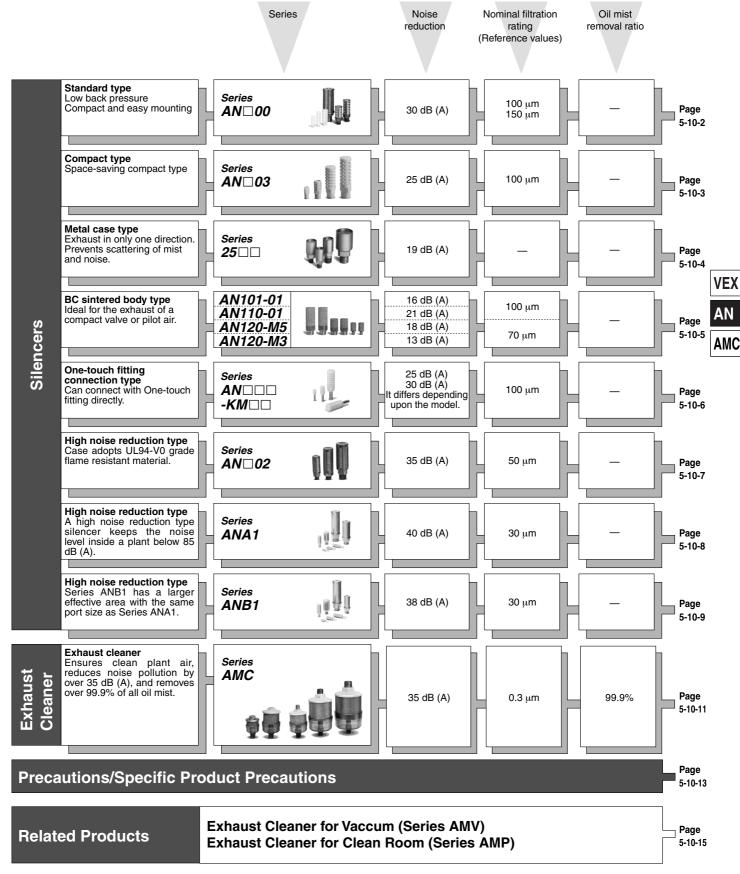
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Silencers/Exhaust Cleaner Series AN /Series AMC





Silencer **Standard Type**

Series AN 00

How to Order

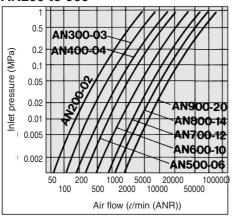
Over 30 dB (A) noise reduction Low back pressure Compact and easy mounting





Flow Characteristics (Initial conditions)

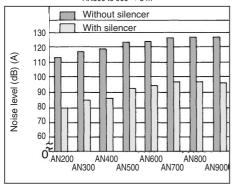
AN200 to 900



Noise Level (Initial conditions)

AN200 to 900

Condition: 0.5 MPa at inlet pressure of solenoid valve Measurement distance: AN200 to $500 \rightarrow 1$ m, AN600 to $700 \rightarrow 2$ m, AN800 to 900 \rightarrow 3 m



AN 400 04						
Body size	Threa	d type	Po	rt size		
200	Nil	R	02	1/4		
300	N	NPT	03	3/8		
400			04	1/2		
500			06	3/4		
600			10	1		
700			12	1 1/4		
800			14	1 1/2		
900			20	2		

Specifications

Fluid	Compressed air
Max. operating pressure (1)	1.0 MPa
Noise reduction	30 dB (A)
Ambient and fluid temperature	5 to 60°C (2)

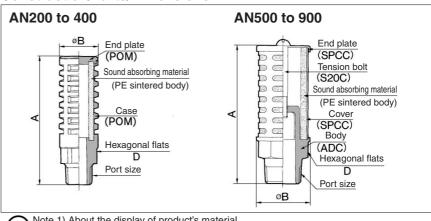
Note 1) It indicates the inlet pressure for solenoid valve. Note 2) It can operate in temperature between -10 to 60°C if there is no risk of the moisture in

the air freezing. Refer to page 5-10-13 for Precautions on these products.

Model

Model Port size		Effective	Recommended flow	Weight	Dimensions (mm)			
Model	R	area (mm²)	(m³/min (ANR))	(g)	Α	В	D	
AN200-02	1/4	35	3 or less	17	63	22	19	
AN300-03	3/8	60	5 or less	25	84	25	22	
AN400-04	1/2	90	8 or less	35	92	30	27	
AN500-06	3/4	160	12 or less	165	107	46	36	
AN600-10	1	270	20 or less	225	132	50	41	
AN700-12	1 1/4	440	30 or less	490	200	74	55	
AN800-14	1 1/2	590	50 or less	580	233	74	60	
AN900-20	2	960	80 or less	820	263	86	70	

Construction/Parts/Dimensions



Note 1) About the display of product's material

POM: Polyacetal PE: Polyethylene

SPCC: Carbon steel S20C: Carbon steel ADC: Aluminum allov

Note 2) Recommended flow rate is the flow at 0.5 MPa in the inlet pressure.





VEX

AN

AMC

Silencer Compact Type

Series AN □ 03

How to Order

Over 25 dB (A) noise reduction Space-saving compact type



JIS Symbol

Specifications

Fluid	Compressed air		
Max. operating pressure (1)	1.0 MPa		
Noise reduction	25 dB (A)		
Ambient and fluid temperature	5 to 60°C (2)		

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

Note 2) It can operate in temperature between -10 to 60°C if there is no risk of the moisture in the air freezing.



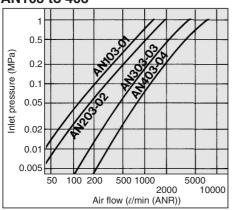
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Model

Model	Port size	Effective	Recommended flow	Weight	Dime	ensions (mm)
Model	R	area (mm²)	(m³/min (ANR))	(g)	Α	В	D
AN103-01	1/8	10	0.8 or less	1	23.5	11	
AN203-02	1/4	15	1.0 or less	3	36	16	14
AN303-03	3/8	35	2.0 or less	17	66	22	19
AN403-04	1/2	60	4.0 or less	25	84	25	22

Flow Characteristics (Initial conditions)

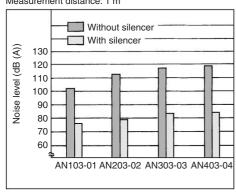
AN103 to 403



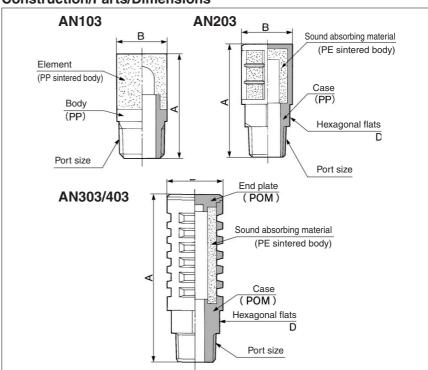
Noise Level (Initial conditions)

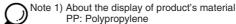
AN103 to 403

Condition: 0.5 MPa at inlet pressure of solenoid valve Measurement distance: 1 m



Construction/Parts/Dimensions





PE: Polyethylene POM: Polyacetal

Note 2) Recommended flow rate is the flow at 0.5 MPa in the inlet pressure.



Silencer BC Sintered Body Type Series AN

Ideal for the exhaust of a compact valve or pilot air.



JIS Symbol

Specifications/Model

Specifications	Model	AN101-01	AN110-01	AN120-M3	AN120-M5	
Port size (1)		R 1⁄8	R 1⁄8	M3	M5	
Noise reduction (dE	3 (A))	16	21	13	18	
Fluid	Compressed air					
Max. operating pres	ssure (2)	1.0 MPa				
Ambient and fluid to	emperature		5 to 15	0°C (3)		
Effective area (mm²)		20	35	1	5	
Weight (g)		9.5	20	1	3.3	
Dimensions (mm)		22.5	38	9	17	
Dimensions (mm)	В	11	13	6	8	

Note 1) NPT thread for AN101 and AN110 is also available. Model no. of NPT thread is AN101-N01 and AN110-N01.

Note 2) It indicates the inlet pressure for solenoid valve.

Note 3) It can operate in temperatures between -10 to 150°C if there is no risk of the moisture in the air freezing.



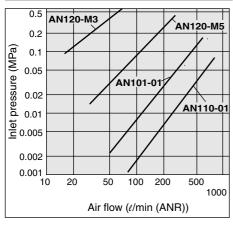
Refer to page 5-10-13 for Precautions on these products.

VEX

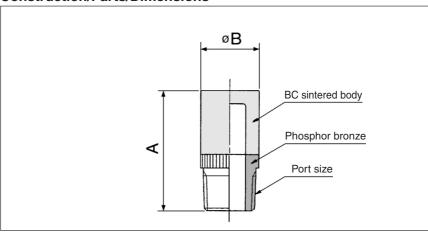
ΑN

AMC

Flow Characteristics (Initial conditions)



Construction/Parts/Dimensions



Note) About the display of product's material BC: Copper alloy

Phosphor bronze: Copper alloy





Can connect with One-touch fitting directly.





Specifications

Fluid	Compressed air
Max. operating pressure Note)	1.0 MPa
Ambient and fluid temperature	5 to 60°C

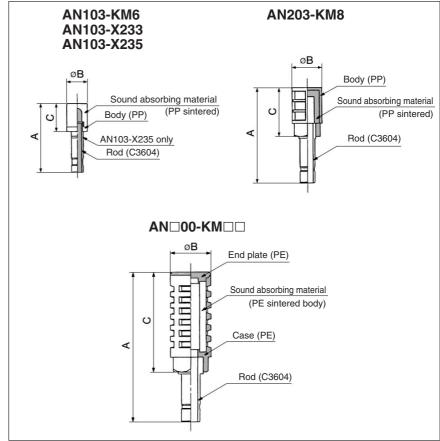
Note) It indicates the inlet pressure for solenoid valve.



Model

Model	Model Applicable One-touch No		Effective	Recommended flow	Dime	nsions	(mm)
Model	fitting size	(dB (A))	area (mm²)	(m³/min (ANR))	Α	В	С
AN103-KM6	ø6 (Series KQ)						
AN103-X233	ø6 (Series KQ, KJ)	0.5	7	0.8 or less	37	11	15
AN103-X235	ø1/4" (Series KQ, KJ)	25					
AN203-KM8	ø8 (Series KQ)		14	1.0 or less	51	16	26
AN200-KM8	ø8 (Series KQ)		20	0.0 0 1000	78	22	54
AN200-KM10	ø10 (Series KQ)	26		3.0 or less	81	22	54
AN300-KM10	ø10 (Series KQ)	30	30		97	25	70
AN300-KM12	ø12 (Series KQ)		41	5.0 or less	98	25	70

Construction/Parts/Dimensions





PP: Polypropylene PE: Polyethylene

C3604: Copper alloy

Note 2) Recommended flow rate is the flow at 0.5 MPa in the inlet pressure.





Silencer High Noise Reduction Type Series AN 02

How to Order

Over 35 dB (A) noise reduction Case adopts UL94-V0 grade Flame resistant material



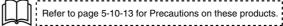


Specifications

Fluid	Compressed air
Max. operating pressure (1)	1.0 MPa
Noise reduction	35 dB (A)
Ambient and fluid temperature	5 to 60°C ⁽²⁾

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

Note 2) It can operate in temperature between -10 to 60°C if there is no risk of the moisture in the air freezing.



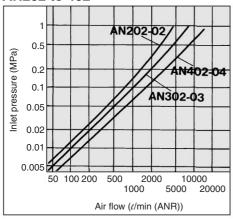
VEX

AN

AMC

Flow Characteristics (Initial conditions)

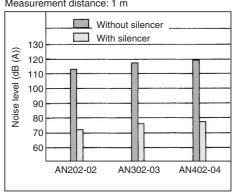
AN202 to 402



Noise Level (Initial conditions)

AN202 to 402

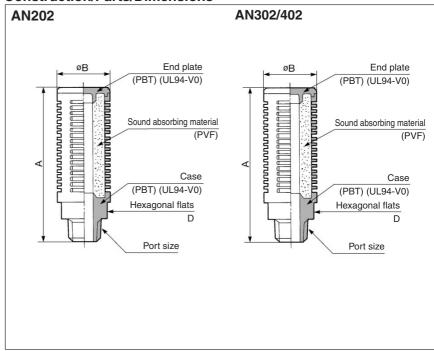
Condition: 0.5 MPa at inlet pressure of solenoid valve Measurement distance: 1 m

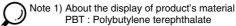


Model

Model	Port size	Effective	Recommended flow	Weight	Dime	ensions (mm)
Model	R	area (mm²)	(m³/min (ANR))	(g)	Α	В	D
AN202-02	1/4	35	3 or less	16	64	22	19
AN302-03	3/8	60	5 or less	33	84	28	24
AN402-04	1/2	90	8 or less	47	95	34	24

Construction/Parts/Dimensions





PVF: Polyvinyl formal

Note 2) Recommended flow rate is the flow at 0.5 MPa in the inlet pressure.



Caution on Design

 The exhaust port could become blocked by the clogging of the exhaust cleaner.

Therefore, make sure to provide a safe design so as not to cause the whole system to malfunction.

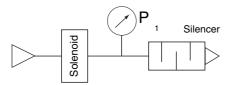
⚠ Caution

2. Silencer is intended to reduce the noise of exhaust air of the compressed air emitted from pneumatic equipment.

Noises other than exhaust air (noise generated inside piping, noise generated by vibration of equipment, noise of switching valves, etc.) cannot be reduced.

Take appropriate measures to find the cause of those noises other than those generated by exhaust air.

3. The inlet pressure obtained in the flow characteristic graph of silencer indicates the pressure (P1) prior to silencer. (Refer to the diagram below.)



Inlet pressure for silencer

 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.

The silencing effect could vary depending on the pneumatic circuit or the pressure that is used.

Selection

- Select a model which has a bigger effective area than that of the solenoid valve (including compound effective area).
- 2. Be certain to use at or below the level of recommended flow.

Mounting

⚠ Caution

1. If the silencer body (case) is made of plastic and is tightened too much, the silencer may be damaged.

Please follow the procedures below for mounting.

When the body (case) is made of resin

Hold the tip of the main body (side without thread) and screw 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 securely by hand for AN103-01.

For BC element

Hold the tip of the main body (side without thread) with fingers and screw in tightly.

Do not hold the part of sintered metal with a wrench, etc. to tighten.

When the main body is made of metal (Except BC element) [Series 25]

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

Tightening by using a pipe wrench or pliers may cause damage to the silencer. This method is not recommended.

Tightening Torques for Silencers

<u> </u>	
Connection thread	Applicable tightening torque (N·m)
R 1/4	12 to 14
R 3/8	22 to 24
R 1/2	28 to 30
R 3/4	28 to 30
R 1	36 to 38
R 1 1/4	40 to 42
R 1 ½	48 to 50
R 2	48 to 50

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

Maintenance

⚠ Caution

- 1. Never disassemble the silencer.
 - The silencing material is not replaceable.
- 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.



VEX

AIR PREPARATION: ACCESSORIES

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



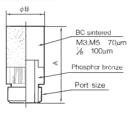
Model	NAN101-01	NAN110-01	NAN120-M3	NAN120-M5	
Port Size	1/8" *	1/8" *	M3	M5	
Noise Reduction (dB)	16	21	13	18	
Max Operating Pressure	1MPa / 145PSI				
Ambient & Fluid Temperature	5~150°C / 40~300°F				
Effective Orifice mm² (Cv)	20 (1.1)	35 (1.9)	1 (0.05)	5 (0.27)	
Weight (gf)	9.5	20	1	3.3	



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







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

How To ORDER SERIES AN SILENCER AN120-M3 (M3) AN120-M5 (M5) AN110-01 (% PT) AN101-01 (% PT)

Series (N)AN SILENCER 1/4~2

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

How To ORDER SERIES NAN SILENCER

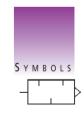
Model	Port Size* NPT	Effective Orifice mm² (Cv)				
NAN200-N02	1/4"	35 (1.9)				
NAN300-N03	3/8"	60 (3.3)				
NAN400-N04	1/2"	90 (5.0)				
NAN500-N06	3/4"	160 (8.8				
NAN600-N10	1	270 (15)				
NAN700-N12	11/4	440 (24)				
NAN800-N14	1 ½	590 (33)				
NAN900-N20	2	960 (53)				

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

TECHNICAL **SPECIFICATIONS**

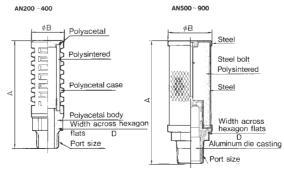
Max Operating Pressure	1MPa / 145PSI	
Noise Reduction	30dB or more	
Ambient & Fluid Temperature	5~60°C / 40~140°F	











Model	Dimensions (mm)			
wodei	Α	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	

