

# Silencer AN \( \bigcup 00/AN \( \bigcup 02/AN \( \bigcup 03/25/AN \)

## **Standard**

Series AN□00

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





#### **Specifications**

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

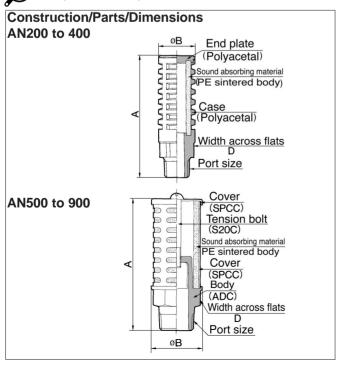


\* It can operate in temperatures between –10 to 60°C if there is no risk of the moisture in the air freezing.

#### Model

Model	Port size	Effective area	Weight	Dimensions (r		(mm)
iviouei	R(PT)	(mm²)	(g)	Α	В	D
AN200-02	1/4	35	17	63	22	19
AN300-03	3/8	60	25	84	25	22
AN400-04	1/2	90	35	92	30	27
AN500-06	3/4	160	165	107	46	36
AN600-10	1	270	225	132	50	41
AN700-12	1 <sup>1</sup> / <sub>4</sub>	440	490	200	74	55
AN800-14	11/2	590	580	233	74	60
AN900-20	2	960	820	263	86	70

Note) NPT thread is also available. Specify "N" after "AN□00-". (Ex.: AN200-N02)



## High noise reduction style

## Series AN 02

Over 35dB(A) noise reduction Case is UL94-V0 Grade Flame resistance material



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#### **Specifications**

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



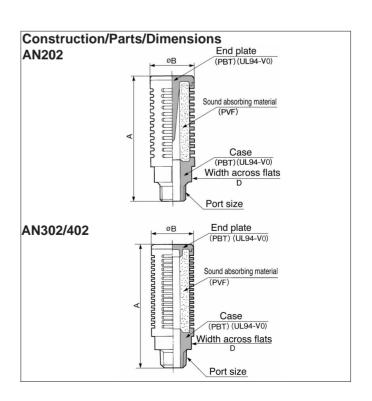
\* It can operate in temperatures between –10 to 60°C if there is no risk of the moisture in the air freezing.

#### Model

Model	Port size	Effective area	Weight	Dime	nsions (	mm)
Model	R(PT)	(mm²)	(g)	Α	В	D
AN202-02	1/4	35	16	64	22	19
AN302-03	3/8	60	33	84	28	24
AN402-04	1/2	90	47	95	34	24



Note) NPT thread is also available. Specify "N" after "AN□02-". (Ex.: AN200-N02)



Compact style

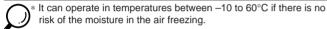
Series AN□03

Over 25dB(A) noise reduction Space saving Compact style



**Specifications** 

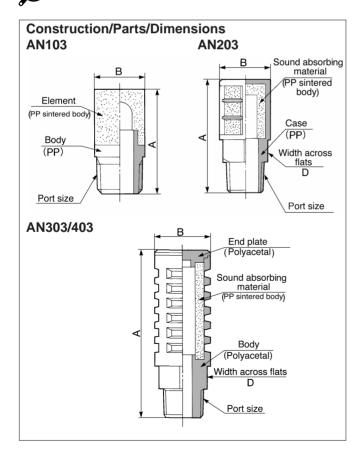
Operating fluid	Compressed air
Max. operating pressure	1.0MPa
Noise reduction	25dB(A) or more
Ambient and fluid temperature	5 to 60°C*



#### Model

Model	Port size	Effective area	Weight	Dimensions (mm)		
Model	R(PT)	(mm²)	(g)	Α	В	D
AN103-01	1/8	10	1	23.5	11	_
AN203-02	1/4	15	3	36	16	14
AN303-03	3/8	35	17	66	22	19
AN403-04	1/2	60	25	84	25	22

Note) NPT thread is also available. Specify "N" after "AN□03-". (Ex.: AN103-N01)



# Metal case style Series **25**

Exhaust in only one direction. Prevents scattering of mist and noise.



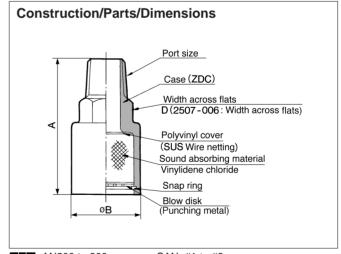
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Operating fluid	Compressed air
Max. operating pressure	1.0MPa
Noise reduction	19dB(A) or more
Ambient and fluid temperature	5 to 60°C*

\* It can operate in temperatures between –10 to 60°C if there is no risk of the moisture in the air freezing.

#### Model

Model	Port size	Effective area Weigh		Dime	(mm)	
Model	R(PT)	(mm²)	(g)	Α	В	D
2504-002	1/4	33.9	111	62	30	24
2505-003	3/8	45.9	106	64	30	24
2506-004	1/2	50.0	113	68	30	24
2507-006	3/4	105.6	310	88.5	48	35
2508-010	1	129.6	514	97.5	60	41
2510-002	1/4	17.2	57	54	22	19
2511-003	3/8	17.2	55	56	22	19

Note) NPT thread is also available. Specify "N" after "25 ---. (Ex.: 2504-N002)



AN200 to 900......SAN, #1 to #8
AN202 to 402.....SAN, #9 to #11
AN103 to 403.....SAN, #12 to #15

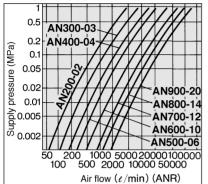
VEX

AN

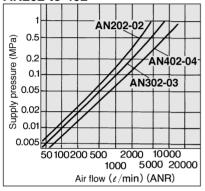
**AMC** 

#### Flow Characteristics (Initial conditions)

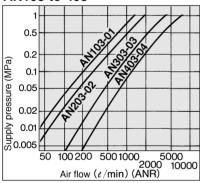
#### AN200 to 900



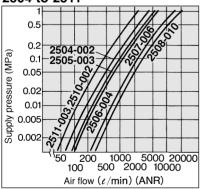
#### AN202 to 402



#### AN103 to 403



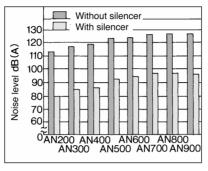
#### 2504 to 2511



#### **Noise Level (Initial conditions)**

#### AN200 to 900

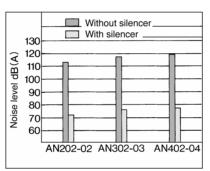
Condition: 0.5MPa at supply pressure of solenoid valve
Measurement distance: AN200 to 500→1M AN600 to 700→2m
AN800 to 900→3m



#### AN202 to 402

Condition: 0.5MPa at supply pressure of solenoid valve

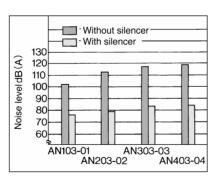
Measurement distance: 1m



#### AN103 to 403

Condition: 0.5MPa at supply pressure of solenoid valve

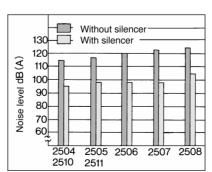
Measurement distance: 1m



#### 2504 to 2511

Condition: 0.5MPa at supply pressure of solenoid valve

Measurement distance: 1m



# (BC Sintered Body) Series AN

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



#### Specifications/Model

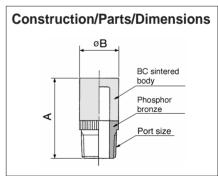
	Model	AN101	AN110	AN120	AN120	
Specification	iS	-01	-01	-M3	-M5	
Port size		R(PT) 1/8	R(PT) 1/8	МЗ	M5	
Noise reduction	on dB(A)	16 21 13 18				
Fluid	Compressed air					
Max. operatir	ng press	1.0MPa				
Ambient ar temperatur		5 to 50°C*				
Effective ar (mm²)	20 35 1 5					
Weight (g)		9.5	20	1	3.3	
Dimensions	Α	22.5	38	9	17	
(mm)	В	11	13	6	8	



Note) NPT thread for AN101 and AN110 is alsoavailable. Model no. of NPT thread is AN101-N01 and AN110-N01.

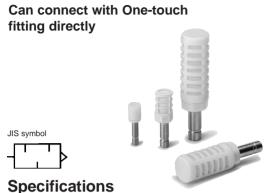


It can operate in temperatures between –10° to 150°C if there is no risk of the moisture in the air freezing.



	AN101-01	·SAN,	#16
CAD	AN101-01	·SAN,	#17
<u> </u>	AN120-M3	·SAN,	#18
	ΔN120-M5	NA2.	#10

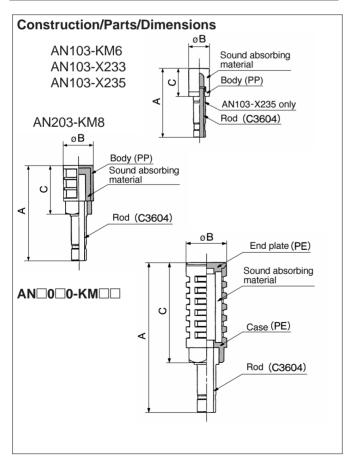
# One-touch Fitting Connection Style Series AN



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

#### Model

Model	Applicable One-touch	Noise reduction	Effective area	Dimensions (mm)		
Wiodei	fitting size		(mm <sup>2</sup> )	Α	В	С
AN103-KM6	ø6(Series KQ)					
AN103-X233	ø6(Series KQ)	25	7	37	11	15
AN103-X235	ø <sup>1</sup> ⁄ <sub>4</sub> " (Series KQ)	25				
AN203-KM8	ø8(Series KQ)		14	51	16	26
AN200-KM8	ø8(Series KQ)		20	78	22	54
AN200-KM10	ø10(Series KQ)	30	26	81	22	54
AN300-KM10	ø10(Series KQ)	30	30	97	25	70
AN300-KM12	ø12(Series KQ)		41	98	25	70



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Be sure to read before handling. Refer to p.0-33 to 0-36 for Safety

Instructions and common precautions.

#### Design

### **⚠** Warning

1) The exhaust port could become blocked by the clogging of the silencer. Therefore, make sure to provide a safe design so as not to cause the system as a whole to malfunction.

#### Caution

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

#### Mounting

#### Caution

- ① If the silencer body (case) is made of plastic and is BC sintered: To mount on a valve, hold the end of the body (the side that is not threaded) with your fingers and screw it in. After some resistance is felt, use a wrench that matches the wrench flats of the hexagon portion to tighten it an additional 1/4 turn. (If the silencer is not provided with a hexagon portion, manually tighten it firmly.)
- (2) If the silencer body is made of metal (except the BC sintered style), tighten it at the torque given below.

Connection thread	Applicable tightening torque (Nm)
Rc(PT) 1/4	12 to 14
Rc(PT) 3/8	22 to 24
Rc(PT) 1/2	28 to 30
Rc(PT) 3/4	28 to 30
Rc(PT)1	36 to 38
Rc(PT)1 1/4	40 to 42
Rc(PT)1 ½	48 to 50
Rc(PT)2	48 to 50

(3) Make sure not to apply a lateral load to the body during or after the installation

#### Maintenance/Inspection

## 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.

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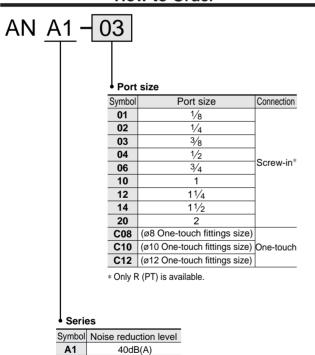
# 40dB(A): High Noise Reduction Silencer

# Series ANA1

A high noice reduction style silencer keeps the noise level inside a plant below 85dB(A).



#### **How to Order**



#### **Specifications**

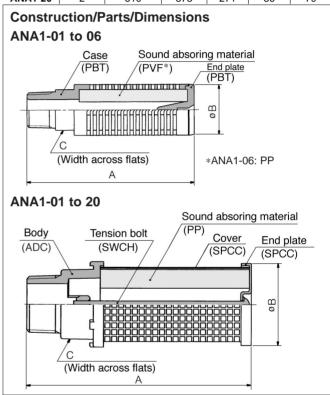
Fluid	Compressed air
- 1010	<u>'</u>
Max. operating pressure	1.0MPa
Noise reduction effect	40dB(A)
Ambient and fluid temparature	5 to 60°c



Refer to p.5.2-4 for precautions on these products.

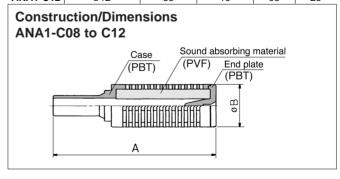
#### Model (Screw-in connection)

111001	0 0: 0 ::			-/			
Model	Port size	Effective area	Weight	Dim	nensions (mm)		
Model	FUIT SIZE	(mm <sup>2</sup> )	(g)	Α	В	С	
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	11/4	280	544	200	74	60	
ANA1-14	11/2	450	612	230	74	60	
ANA1-20	2	610	873	271	86	70	



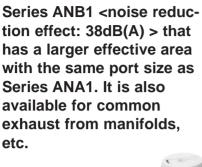
#### Model (One-touch fitting connection)

		<u> </u>			
Model	One -touch	Effective area	Weight	Dimension	ons (mm)
Model	fitting size	(mm <sup>2</sup> )	(g)	Α	В
ANA1-C08	ø8	11	5	58	16
ANA1-C10	ø10	15	13	76	22
ANA1-C12	ø12	33	19	95	25



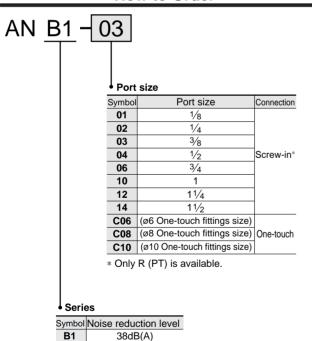
# 38dB(A): High Noise Reductione Silencer

# Series ANB1





#### **How to Order**



#### **Specifications**

Fluid	Compressed air
Max. operating pressure	1.0MPa
Noise reduction effect	38dB(A)
Ambient and fluid temparature	5 to 60°C

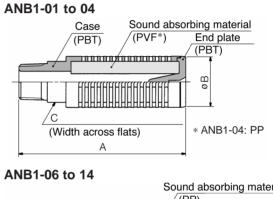


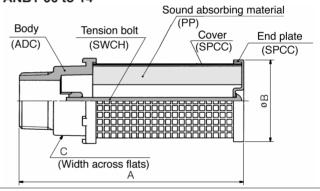
Refer to p.5.2-4 for precautions on these products

#### Model (Screw-in connection)

Construction/Parts/Dimensions

Model	Port size	Effective area	Weight	Dim	Dimensions (mm)		
Model	FUIT SIZE	(mm <sup>2</sup> )	(g)	Α	В	С	
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	11/4	450	612	230	74	60	
ANB1-14	11/2	610	871	271	86	70	

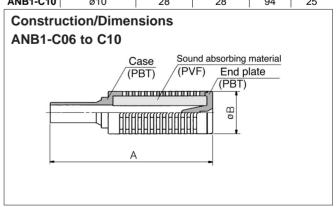




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## **Model (One-touch fitting connection)**

Madal		One -touch	Effective area	Weight	Dimension	ons (mm)
Model	fitting size	(mm <sup>2</sup> )	(g)	Α	В	
	ANB1-C06	ø6	8	5	52	16
	ANB1-C08	ø8	13	12	73	22
	ANB1-C10	ø10	28	28	94	25



AN

Compact style

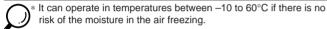
Series AN□03

Over 25dB(A) noise reduction Space saving Compact style



**Specifications** 

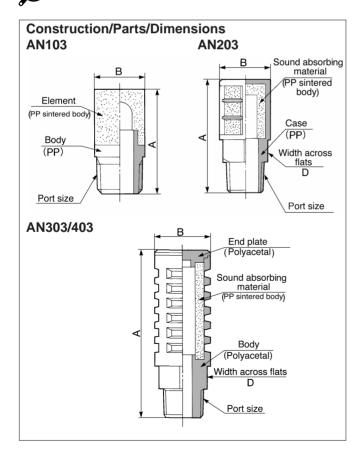
Operating fluid	Compressed air
Max. operating pressure	1.0MPa
Noise reduction	25dB(A) or more
Ambient and fluid temperature	5 to 60°C*



#### Model

Model	Port size	Effective area	Weight	Dime	nsions	(mm)
Model	R(PT)	(mm²)	(g)	Α	В	D
AN103-01	1/8	10	1	23.5	11	_
AN203-02	1/4	15	3	36	16	14
AN303-03	3/8	35	17	66	22	19
AN403-04	1/2	60	25	84	25	22

Note) NPT thread is also available. Specify "N" after "AN□03-". (Ex.: AN103-N01)



# Metal case style Series **25**

Exhaust in only one direction. Prevents scattering of mist and noise.



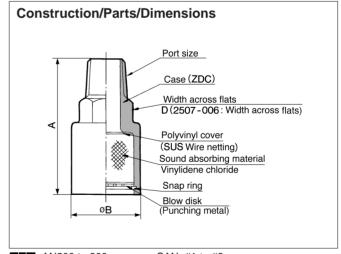
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Operating fluid	Compressed air
Max. operating pressure	1.0MPa
Noise reduction	19dB(A) or more
Ambient and fluid temperature	5 to 60°C*

\* It can operate in temperatures between –10 to 60°C if there is no risk of the moisture in the air freezing.

#### Model

Model	Port size	Effective area	Weight	Dimensions (mm)		
Model	R(PT)	(mm²)	(g)	Α	В	D
2504-002	1/4	33.9	111	62	30	24
2505-003	3/8	45.9	106	64	30	24
2506-004	1/2	50.0	113	68	30	24
2507-006	3/4	105.6	310	88.5	48	35
2508-010	1	129.6	514	97.5	60	41
2510-002	1/4	17.2	57	54	22	19
2511-003	3/8	17.2	55	56	22	19

Note) NPT thread is also available. Specify "N" after "25 ---. (Ex.: 2504-N002)



AN200 to 900......SAN, #1 to #8
AN202 to 402.....SAN, #9 to #11
AN103 to 403.....SAN, #12 to #15

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