Silencer

$AN \square 00/AN \square 02/AN \square 03/25/AN$

Standard

Series AN□00

Over30dB(A)noise reduction Lowbackpressure Compactandeasymounting





Specifications

Fluid	Compressedair
Max.operatingpressure	1.0MPa
Noisereduction	30dB(A)ormore
Ambientandfluidtemperature	5to60°C *



*Itcanoperateintemperaturesbetween–10to60°Cifthereis noriskofthemoistureintheairfreezing.

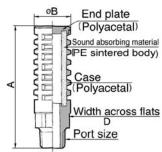
Model

Model	Portsize	Portsize Effectivearea		Dime	nsions(mm)
Wodel	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	127	50	41
AN700-12	1 ¹ /4	440	490	186	74	50
AN800-14	1 ¹ /2	590	580	217	74	55
AN900-20	2	960	820	256	86	65

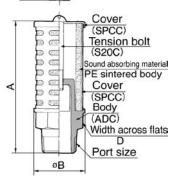
Note)NPTthreadisalsoavailable.Specify"N"after"AN□00-". (Ex.:AN200-N02)

Construction/Parts/Dimensions

AN200to400



AN500to900



Highnoisereductionstyle

Series **AN 02**

Over35dB(A)noisereduction CaseisUL94-V0Grade Flameresistancematerial



Specifications

Fluid	Compressedair
Max.operatingpressure	1.0MPa
Noisereduction	35dB(A)ormore
Ambientandfluidtemperature	5to60°C *

*Itcanoperateintemperaturesbetween-10to60°Cifthereis noriskofthemoistureintheairfreezing.

Model

Model	Portsize	Effectivearea	Weight	Dime	nsions(r	mm)
Wodel	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)NPTthreadisalsoavailable.Specify"N"after"AN□02-". (Ex.:AN200-N02)

Construction/Parts/Dimensions

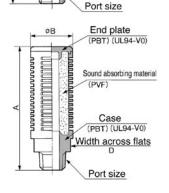
AN202

End plate
(PBT) (UL94-V0)

Sound absorbing material
(PVF)

Case
(PBT) (UL94-V0)
Width across flats
D

AN302/402



$AN \square 00/AN \square 02/AN \square 03/25/AN$

Compactstyle

Series AN 03

Over25dB(A)noisereduction Spacesaving Compactstyle





Opcomodions	
Operatingfluid	Compressedair
Max.operatingpressure	1.0MPa
Noisereduction	25dB(A)ormore
Ambientandfluidtemperature	5to60°C *

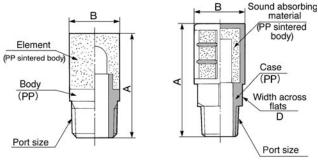
*Itcanoperateintemperaturesbetween-10to60°Cifthereisno riskofthemoistureintheairfreezing.

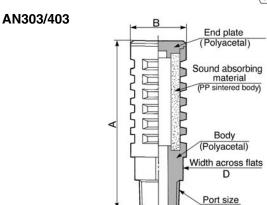
Model

Model	Portsize	Effectivearea	Weight	Dimensions(mm)		
Wodel	R(PT)	(mm²)	(ğ)	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 \square 03-". (Ex.:AN103-N01)

Construction/Parts/Dimensions AN103 AN203





Metalcasestyle

Series 25

Exhaustinonlyonedirection. **Preventsscattering**



Specifications

opoomounomo	
Operatingfluid	Compressedair
Max.operatingpressure	1.0MPa
Noisereduction	19dB(A)ormore
Ambientandfluidtemperature	5to60°C *

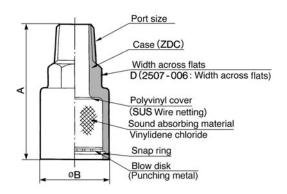
*Itcanoperateintemperaturesbetween-10to60°Cifthereisno riskofthemoistureintheairfreezing.

Model

Model	Portsize Effectiveare		Weight	Dime	nsions((mm)
Wodel	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 \square - ". (Ex.:2504-N002)

Construction/Parts/Dimensions



$AN \square 00/AN \square 02/AN \square 03/25/AN$

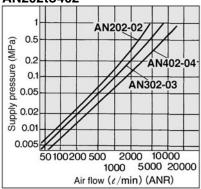
FlowCharacteristics(Initialconditions)

AN200to900 1 0.5 AN300-03 0.2 AN400-04 0.01 0.05 0.02 AN400-04 AN900-20 AN800-14 AN700-12 AN600-10 AN500-06

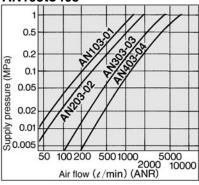
200 1000 5000 20000 100000 500 2000 10000 50000

Air flow (e/min) (ANR)

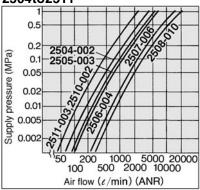
AN202to402



AN103to403



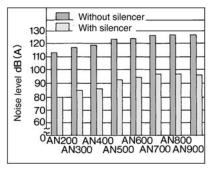
2504to2511



NoiseLevel(Initialconditions)

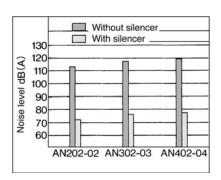
AN200to900

Condition:0.5MPaatsupplypressureofsolenoidvalve Measurementdistance: AN200to500→1MAN600to700→2m AN800to900→3m



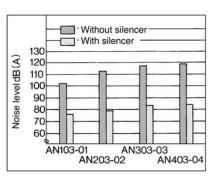
AN202to402

Condition:0.5MPaatsupplypressureofsolenoidvalve Measurementdistance:1m



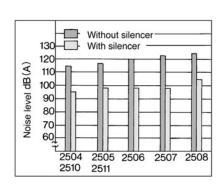
AN103to403

Condition:0.5MPaatsupplypressureofsolenoidvalve Measurementdistance:1m



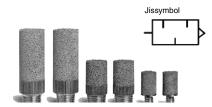
2504to2511

Condition:0.5MPaatsupplypressureofsolenoidvalve Measurementdistance:1m



(BCSinteredBody) Series **AN**

Idealfortheexhaustofacompact valveorpilotair.



Specifications/Model

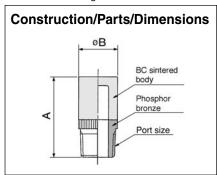
	Model	AN101	AN110	AN120	AN120
Specification	<u>S</u>	-01	-01	-M3	-M5
Port size		R(PT) 1/8	R(PT) 1/8	МЗ	M5
Noisereductio	ndB(A)	16	21	13	18
Fluid		(Compre	ssedair	
Max.operatin	gpress		1.01	/IPa	
Ambientano temperaturo		5to50°C *			
Effectiveare (mm²)	20	35	1	5	
Weight(g)		9.5	20	1	3.3
Dimensions	Α	21	34	9	15,5
(mm)	В	11	13	6	8



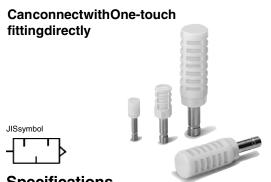
Note)NPTthreadforAN101andAN110 isalsoavailable.Modelno.ofNPT threadisAN101-N01and AN110-N01.



*Itcanoperateintemperatures between–10°to150°Cifthereis noriskofthemoistureintheair freezing.



$AN \square 00/AN \square 02/AN \square 03/25/AN$



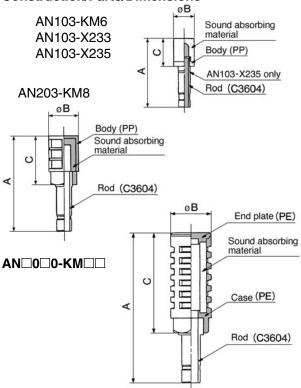
Specifications

Fluid	Compressedair
Max.operatingpressure	1.0MPa
Ambientandfluidtemperature	5to60°C

Model

Model	ApplicableOne-touch	Noise reduction	Effective area	Dimensions(mm)		
Wiodei	fittingsize	dB(A)	(mm²)	Α	В	С
AN103-KM6	ø6(SeriesKQ)					
AN103-X233	ø6(SeriesKQ)	25	7	37	11	15
AN103-X235	ø ¹ / ₄ " (SeriesKQ)	/ ₄ " (SeriesKQ)				
AN203-KM8	ø8(SeriesKQ)		14	45	13	20
AN200-KM8	ø8(SeriesKQ)		20	73	22	49
AN200-KM10	ø10(SeriesKQ)	30	26	76	22	49
AN300-KM10	ø10(SeriesKQ)	30	30	90	25	63
AN300-KM12	ø12(SeriesKQ)		41	91	25	63

Construction/Parts/Dimensions



△Precautions

Design

Δ Warning

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

∧ Caution

 $\begin{tabular}{ll} \textcircled{The silencing effect could vary depending on the pneumatic circuitor the pressure that is used.} \end{tabular}$

Mounting

- ①Ifthesilencerbody(case)ismadeofplasticandisBCsintered: Tomountonavalve,holdtheendofthebody(thesidethatisnot threaded)withyourfingersandscrewitin.Aftersomeresistance isfelt,useawrenchthatmatchesthewrenchflatsofthehexagon portiontotightenitanadditional1/4turn.(Ifthesilencerisnotprovidedwithahexagonportion,manuallytightenitfirmly.)
- ②Ifthesilencerbodyismadeofmetal(excepttheBCsinteredstyle), tightenitatthetorquegivenbelow.

Connectionthread	Applicabletighteningtorque(Nm)
Rc(PT) 1/4	12to14
Rc(PT) 3/8	22to24
Rc(PT) 1/2	28to30
Rc(PT) 3/4	28to30
Rc(PT)1	36to38
Rc(PT)1 1/4	40to42
Rc(PT)1 1/2	48to50
Rc(PT)2	48to50

③Makesurenottoapplyalateralloadtothebodyduringorafterthe installation.

Maintenance/Inspection

- Neverdisassemblethesilencer. The silencing materialis not replaceable.
- ②Iftheexhaustspeeddropsandthesystemperformancedecreasesduetoclogging,replacewithanewsilencer.Makesureto verifytheoperatingconditionsoftheactuatoratleastonceaday.

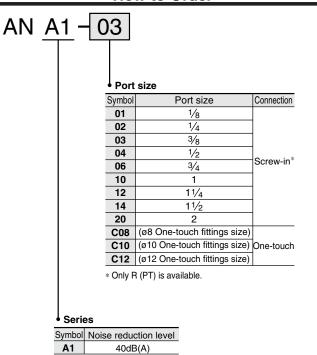
42dB(A): High Noise Reduction Silencer

Series ANA1

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



How to Order



Specifications

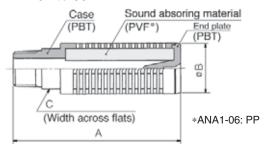
Fluid	Compressed air		
Max. operating pressure	1.0MPa		
Noise reduction effect	42dB(A)		
Ambient and fluid temparature	5 to 60°c		

Model (Screw-in connection)

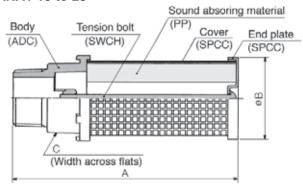
Model	Port size	Effective area Weight		Dimensions (mm)		mm)	
Model	FUIT SIZE	(mm²)	(g)	Α	В	С	
ANA1-01	1/8	10	4	37	16	_	
ANA1-02	1/4	15	14	64	22	18	
ANA1-03	3/8	35	22	84	25	21	
ANA1-04	1/2	60	36	98	30	24	
ANA1-06	3/4	90	110	111	46	36	
ANA1-10	1	160	180	132	50	41	
ANA1-12	11/4	280	544	200	74	60	
ANA1-14	11/2	450	612	230	74	60	
ANA1-20	2	610	873	271	86	70	

Construction/Parts/Dimensions

ANA1-01 to 06



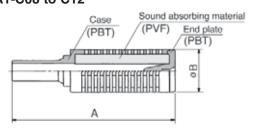
ANA1-10 to 20



Model (One-touch fitting connection)

Model	One -touch	Effective area	Weight	Dimensions (mm	
Model	fitting size	(mm²)	(g)	Α	В
ANA1-C08	ø8	11	5	58	16
ANA1-C10	ø10	15	13	76	22
ANA1-C12	ø12	33	19	95	25

Construction/Dimensions ANA1-C08 to C12

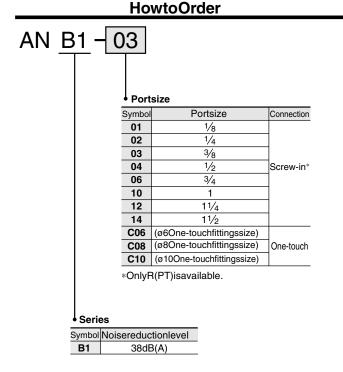




40dB(A):HighNoiseReductioneSilencer

Series ANB1





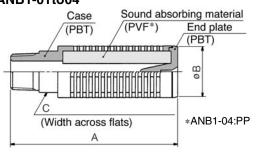
Specifications

Fluid	Compressedair		
Max.operatingpressure	1.0MPa		
Noisereductioneffect	40dB(A)		
Ambientandfluidtemparature	5to60°C		

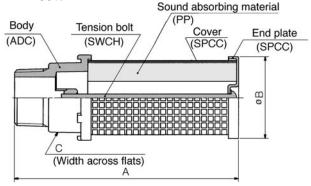
Model(Screw-inconnection)

Model	Portsize	Effectivearea	Weight	ht Dimensions(mm)		nm)
iviodei	odei Portsize (mm²		(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

Construction/Parts/Dimensions ANB1-01to04



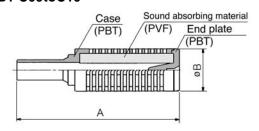
ANB1-06to14



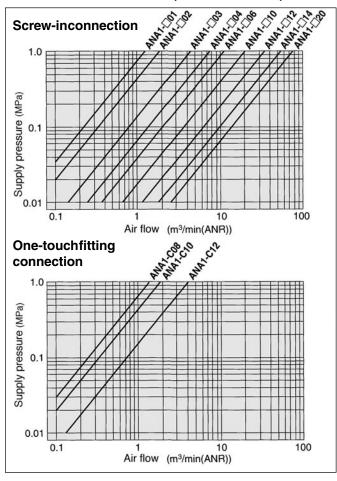
Model(One-touchfittingconnection)

Model	One-touch	Effectivearea	Weight	Dimensions(mm)	
Model	fittingsize	(mm ²)	(g)	Α	В
ANB1-C06	ø6	8	5	52	16
ANB1-C08	ø8	13	12	73	22
ANB1-C10	ø10	28	28	94	25

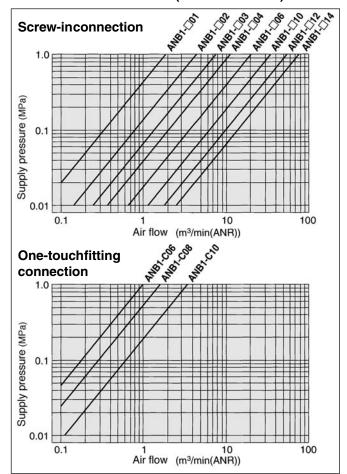
Construction/Dimensions ANB1-C06toC10



FlowCharacteristics/ANA1(Initialconditions)



FlowCharacteristics/ANB1(Initialconditions)



NoiseLevel(Initialconditions)

