

Quick Exhaust Valve

AQ Series

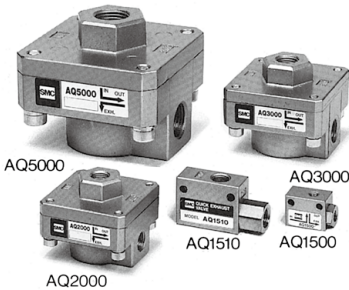


Excellent exhaust characteristics

Large flow capacity

Compact and lightweight

A wide selection of models



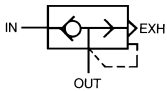
Model

Model	Port size	Sonic conductance dm ³ /(s·bar)		Critical pressure ratio		Weight (g)
		IN → OUT	OUT → EXH	IN → OUT	OUT → EXH	
AQ1500-M5	M5 x 0.8	0.4	0.56	0.35	0.3	25
AQ1510-01	1/8	0.8	1.16			45
AQ2000-01	1/8	5	5	0.45	0.35	110
AQ2000-02	1/4	7	8			105
AQ3000-02	1/4	8	8.4			215
AQ3000-03	3/8	12	14			205
AQ5000-04	1/2	21	23			690
AQ5000-06	3/4	27	36			650

Specifications

Fluid		Air
Proof pressure		1.5 MPa
Max. operating pressure	AQ15□0	0.7 MPa
	AQ2000 to 5000	1 MPa
Min. operating pressure	AQ15□0	0.1 MPa
	AQ2000 to 5000	0.05 MPa
Ambient and fluid temperature		-5 to 60°C (No freezing)

Symbol



How to Order

AQ 2 0 0 0 - □ 02 - □

Standard size

1	1/8
2	1/4
3	3/8
5	3/4

Type

Symbol	Type	Applicable model
0	Diaphragm	AQ2 to AQ5
5	Lip	AQ1 Only

Standard

0	M5 x 0.8
1	1/8

Note) *AQ15□0" only

Thread type

	Metric thread (M5)
Nil	Rc
N	NPT
F	G

Option

	Standard (-5 to 60°C)
Nil	
H	High temperature (-5 to 80°C)
L	Low temperature (-30 to 60°C)

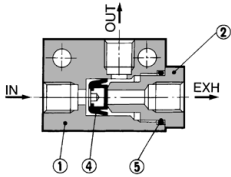
Note) AQ1500 and AQ1510 are not available.

Port size

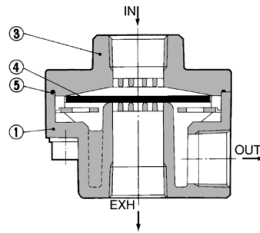
Port size	Applicable series
M5	M5 x 0.8
01	1/8
02	1/4
03	3/8
04	1/2
06	3/4

Construction

AQ1500/1510



AQ2000/3000/5000



Component Parts

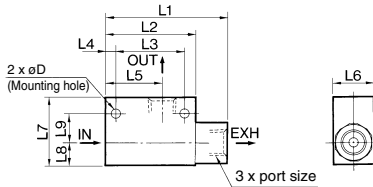
No.	Description	Material/Model		
		AQ1500	AQ1510	AQ2000, 3000, 5000
1	Body	Zinc die-casted	Zinc die-casted	Aluminum die-casted
2	Guide	Brass	Brass	—
3	Cover	—	—	Aluminum die-casted

Replacement Parts

No.	Description	Material	Part no.				
			AQ1500	AQ1510	AQ2000	AQ3000	AQ5000
4	Valve	NBR	30083	30093	30073	30053	30063
5	O-ring	NBR	KA00327 9 x 7 x 1	KA00476 JISB2401P-7	CA40-1601	CA50-1602	30066

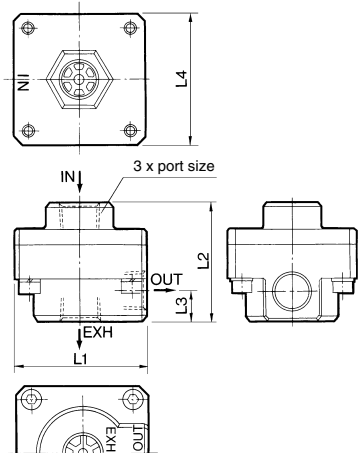
Dimensions

AQ1500/1510



Model	Port size	L1	L2	L3	L4	L5	L6	L7	L8	L9	D
AQ1500	M5 x 0.8	23	20	14	3	12.5	12	15	5.5	6.5	3.1
AQ1510	1/8	45	33	25	4	21	15	25	8	11	4.3

AQ2000/3000/5000



Model	Port size	L1	L2	L3	L4
AQ2000	1/8, 1/4	45	40	10	45
AQ3000	1/4, 3/8	56	50	12.5	56
AQ5000	1/2, 3/4	85	75	18	85

⚠ Specific Product Precautions

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 543 to 546 for Flow Control Equipment Precautions.

Design/Selection

⚠ Caution

- In the following cases, insufficient exhaust or vibration may cause noise.
 - With residual pressure or back pressure on the IN side.
 - When the differential pressure between the IN and OUT sides is smaller than the minimum operating pressure.
 - When the effective area of the IN side piping of AQ, or the solenoid valve, is smaller than AQ.
- In the case of applications where the IN side is constantly pressurized, there is a risk of exhaust failure.

Compared to the state where the IN side is open to the atmosphere (no pressurization), the differential pressure that operate the valve become larger, which may cause exhaust failure.

- AS-F
- TMH
- ASD
- AS
- AS-FE
- KE
- AS-FG
- AS-FP
- AS-FM
- AS-D
- AS-T
- ASP
- ASN
- AQ
- ASV
- AK
- VCHC
- ASR
- ASQ