### **Quick Exhaust Valve**

# Series AQ



Excellent exhaust characteristics
Large flow capacity
Compact and lightweight
A wide selection of models

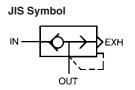


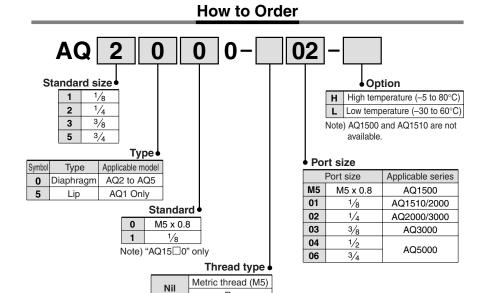
#### Model

Model	Dout sine	Effective a	Mass (s)	
Model	Port size	$IN \to OUT$	$OUT \to EXH$	Mass (g)
AQ1500-M5	M5 x 0.8	2	2.8	25
AQ1510-01	1/8	4	5.8	45
AQ2000-01	1/8	25	25	110
AQ2000-02	1/4	35	40	105
AQ3000-02	1/4	40	42	215
AQ3000-03	3/8	60	70	205
AQ5000-04	1/2	105	115	690
AQ5000-06	3/4	135	180	650

#### **Specifications**

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





Rc

NPT

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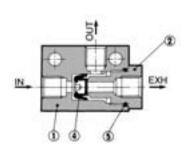
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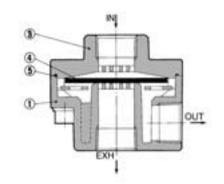
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#### Construction

#### AQ1500/1510

#### AQ2000/3000/5000





**Component Parts** 

No. Description	Description	Material/Model									
	Description	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.		
INO.	No. Description	on Material	AQ1500	AQ1510	AQ2000	AQ3000	AQ5000
4	Valve	NBR	30083	30093	30073	30053	30063
5	O-ring	NBR	9 x 7 x 1	JISB2401P-7	CA40-1601	CA50-1602	30066

#### 

Be sure to read before handling. Refer to front matters 58 and 59 for Safety Instructions and pages 412 to 414 for Flow Control Equipment Precautions.

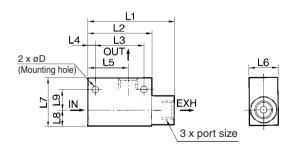
#### **Design/Selection**

#### **⚠** Caution

- 1. In the following cases, insufficient exhaust or vibration may cause noise.
  - (a) With residual pressure or back pressure on the IN side.
  - (b) When the differential pressure between the IN and OUT sides is smaller than the minimum operating pressure.
  - (c) When the effective area of the IN side piping of AQ, or the solenoid valve, is smaller than AQ.

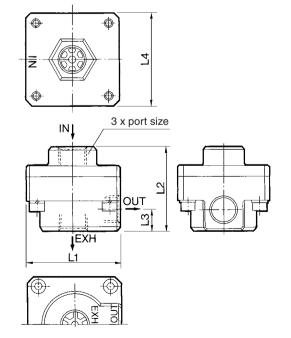
#### **Dimensions**

#### 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



AS

**ASP** 

ASN

AQ

ASV

AK

VCHC

ASS

ASR ASQ

KE

**TMH** 

### **Quick Exhaust Valve** with One-touch Fittings



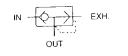
# Series AQ240F/340F

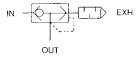


With exhaust port fitting

With silencer

#### JIS Symbol

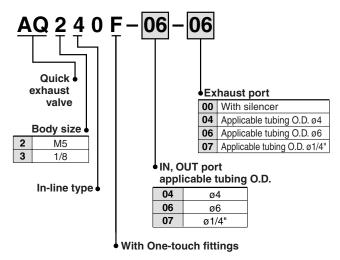




With exhaust port fitting

With silencer

#### **How to Order**



Note) Brass parts are all electroless nickel plated.

#### **Specific Product Precautions**

Be sure to read before handling.

Refer to front matters 58 and 59 for Safety Instructions and pages 412 to 414 for Flow Control Equipment Precautions.

#### **Design/Selection**

#### **∕**∴Caution

- 1. In the following cases, insufficient exhaust or vibration may cause noise.
  - (a) With residual pressure or back pressure on the IN side.
  - (b) When the differential pressure between the IN and OUT sides is smaller than the minimum operating pressure.
  - (c) When the effective area of the IN side piping of AQ, or the solenoid valve, is smaller than AQ.

## Space-saving Rectilinear IN-OUT tubing connections

- With One-touch fittings and silencer
- With silencer
- Lightweight (Resin body)

#### **Specifications**

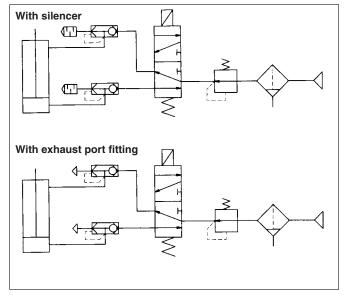
Fluid	Air
Proof pressure	1.5 MPa
Max. operating pressure	1 MPa
Min. operating pressure	0.1 MPa
Ambient and fluid temperature	-5 to 60°C (No freezing)
Applicable tubing material (1)	Nylon, Soft nylon, Polyurethane

Note 1) Use caution regarding the max. operating pressure when soft nylon or polyurethane tubing is used. (Refer to pages 371 and 372 for details.)

#### Model

Model	Applica	able tubir	ng O.D.	Effective area (mm²)			
Model	4	4 6 1		IN→OUT	OUT→EXH.		
AQ240F-04-□	•			1.7	2.5		
AQ240F-06-□		•		2.4	2.7		
AQ340F-06-□		•		4	4		
AQ240F-07-□		•		2.4	2.7		
AQ340F-07-□			•	4	4		

#### Circuit

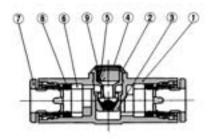




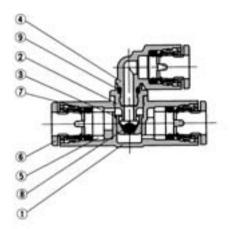
## Quick Exhaust Valve with One-touch Fittings Series AQ240F/340F

#### Construction

#### With silencer



#### With exhaust port fitting

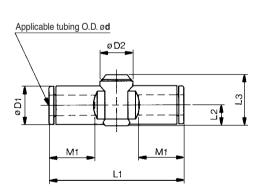


No.	Description	Material	Note
1	Body A	PBT	
2	Seat ring	Brass	Electroless nickel plated
3	Valve seat	Brass	Electroless nickel plated
4	Silenser cover	Stainless steel 304	
5	Silencer	PVA sponge	
6	Spacer	POM	
7	Cassette	_	
8	Seal	NBR	-
9	Valve	HNBR	

No.	Description	Material	Note
1	Body A	PBT	
2	Seat ring	Brass	Electroless nickel plated
3	Valve seat	Brass	Electroless nickel plated
4	Elbow union body	POM	
5	Spacer	POM	
6	Cassette	_	
7	Seal	NBR	
8	Valve	HNBR	
9	O-ring	NBR	

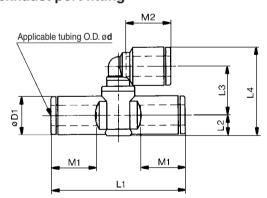
#### **Dimensions**

#### With silencer



Model	Tubing O.D. ød	D1	D2	L1	L2	L3	M1	Weight (g)
AQ240F-04-00	4	9.3	10.0	39.2	5.2	14.3	12.9	5
AQ240F-06-00	6	11.6	10.0	40.7	6.2	15.4	13.7	6
AQ340F-06-00	6	11.6	11.8	44.8	6.3	19.5	13.7	11
AQ240F-07-00	1/4"	12	10.0	40.7	6.2	15.4	13.7	6
AQ340F-07-00	1/4"	13.2	11.8	52.2	7.1	20.3	16.8	11

#### With exhaust port fitting



Model	Tubing O.D. ød	D1	L1	L2	L3	L4	M1	M2	Weight (g)
AQ240F-04-04	4	9.3	39.2	5.2	13.7	23.5	12.9	12.9	6
AQ240F-06-06	6	11.6	40.7	6.2	14.7	26.7	13.7	13.7	8
AQ340F-06-06	6	11.6	44.8	6.3	19.6	31.7	13.7	13.7	13
AQ240F-07-07	1/4"	12	40.7	6.2	15.1	27.3	13.7	13.7	8
AQ340F-07-07	1/4"	13.2	52.2	7.1	20.0	33.1	16.8	13.7	13

AS

ASP

ASN

AQ

ASV

AK

VCHC ASS

ASR ASQ

KE

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