Quick Exhaust Valve Series AQ

Model

RoHS

Mass (g)

25

45

110

105

215

205

690

650

 $\mathsf{OUT}\to\mathsf{EXH}$ 2.8

5.8

42

70

115

180

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



	6	Effective area (mm ²)			
Model	Port size	$IN\toOUT$	$OUT \rightarrow$		
AQ1500-M5	M5 x 0.8	2	2.8		
AQ1510-01	1/8	4	5.8		
AQ2000-01	1/8	25	25		
AQ2000-02	1/4	35	40		

1/4

1/4

3/8

 $1/_{2}$

3/4

Specifications

AQ3000-02

AQ3000-03

AQ5000-04

AQ5000-06

opeemeations					
Fluid		Air			
Proof pressure		1.5 MPa			
Max energing processes	AQ15⊡0	0.7 MPa			
Max. operating pressure	AQ2000 to 5000	1 MPa			
Min operating 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)			

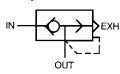
40

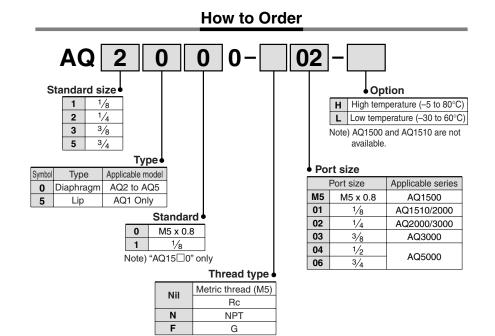
60

105

135

JIS Symbol





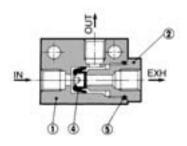
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 SSC

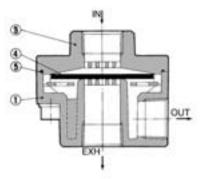
 Sourcesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com

Construction

AQ1500/1510



AQ2000/3000/5000



Component Parts

No.	Description	Material/Model					
No. 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			

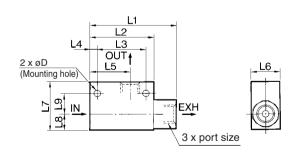
Replacement Parts

No.	Description	Material	Part no.					
NO.	Description	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	

Dimensions

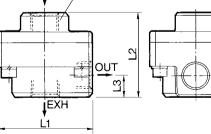
AQ1500/1510

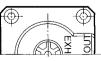
AQ2000/3000/5000



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

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$(\bullet) (\bullet)$	
INI 3 x port siz	ze





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 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

- 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.

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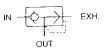
Quick Exhaust Valve with One-touch Fittings RoHS Series AQ240F/340F

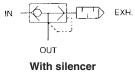




With exhaust port fitting

JIS Symbol

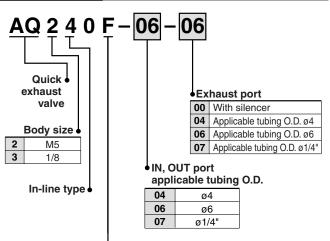




With silencer

With exhaust port fitting

How to Order



With One-touch fittings

Note) Brass parts are all electroless nickel plated.

Specific Product Precautions

Be sure to read before handling. L 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

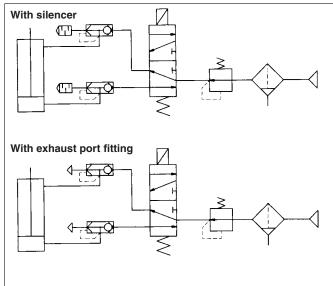
Fluid	Air		
Proof pressure	1.5 MPa		
Max. operating pressure	1 MPa		
Min. operating pressure	0.1 MPa		
Ambient and fluid temperature	-5 to 60°C (No freezing)		
Applicable tubing material (1)	Nylon, Soft nylon, Polyurethane		

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

Model

Model	Applicable tubing O.D.			Effective area (mm ²)		
Model	4	6	1/4"	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

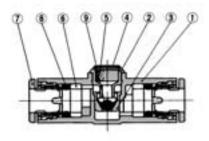


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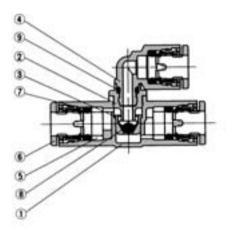
Quick Exhaust Valve with One-touch Fittings *Series* AQ240F/340F

Construction

With silencer



With	exhaust	port	fitting
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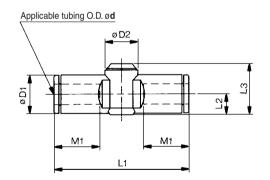


No.	Description	Material	Note
1	Body A	PBT	
2	Seat ring	Brass	Electroless nickel plated
3	Valve seat	Brass	Electroless nickel plated
4	Silenser cover	Stainless steel 304	
5	Silencer	PVA sponge	
6	Spacer	POM	
7	Cassette	—	
8	Seal	NBR	
9	Valve	HNBR	

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	

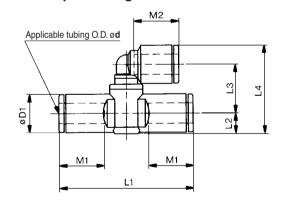
Dimensions

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

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