



## Quick Exhaust Valve with Push-in Fitting

# Quick Exhaust Valve Series

- *For Faster return/movement of Cylinder*

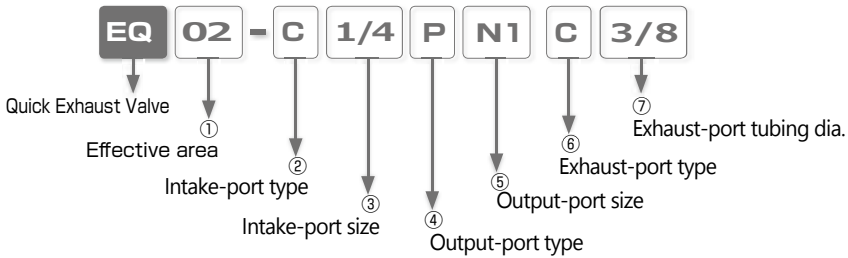


- *Standard Quick Exhaust Valve with needle is equipped with Silencer. Re-adjustment of exhaust flow is not needed when replacing silencer element.*



- *Mini type offers high flow in a compact and lightweight body, a wide variety of style – available port O.D. sizes are 5/32~1/4", 3~6mm*
- *Ideal countermeasure to prevent condensation caused by adiabatic expansion of small actuators which leads malfunction, deterioration and the washing down grease of valves etc. (Install quick exhaust valves close to cylinders or actuators.)*
  - *Certain models can be used as a shuttle Valve*

## ■ Standard type Model Designation (Example)



### ① Effective area

Code	01	02	03
Effective area	8mm <sup>2</sup>	16mm <sup>2</sup>	30mm <sup>2</sup>

### ② Intake port type

- C : Push-In Fitting  
P : Taper pipe thread

### ③ Intake port size

Code	Tube dia.							Taper pipe thread size			
	1/4	3/8	04	06	08	10	12	01	02	03	04
Size	1/4"	3/8"	ø4	ø6	ø8	ø10	ø12	R1/8	R1/4	R3/8	R1/2

### ④ Output port type

- C : Push-In Fitting  
P : Taper pipe thread

### ⑤ Output port size

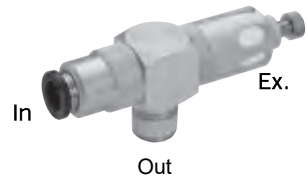
Code	Tube dia.					Taper pipe thread size							
	04	06	08	10	12	N1	N2	N3	01	02	03	04	
Size	ø4	ø6	ø8	ø10	ø12	1/8NPT	1/4NPT	3/8NPT	R1/8	R1/4	R3/8	R1/2	

### ⑥ Exhaust port type

- C : Push-In Fitting  
E : Exhaust needle

### ⑦ Exhaust side tubing dia. (Exhaust-side type: Push-In Fitting only)

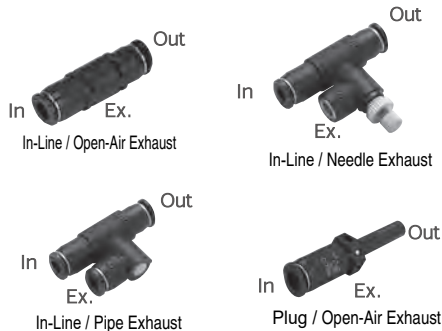
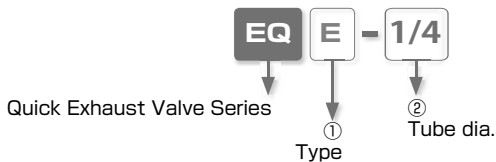
Code	3/8	1/2	08	10	12
Size	3/8"	1/2"	ø8	ø10	ø12



# Quick Exhaust Valve Series

## ■ Mini type Model Designation (Example)

### \* In-Line/Plug Type



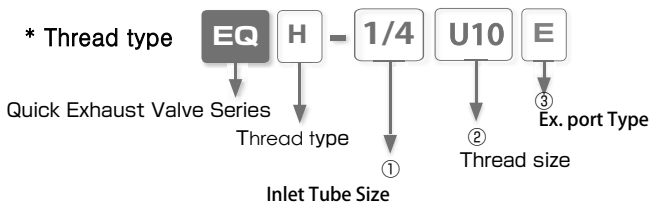
#### ① Type

Code	Type	Code	Type	Code	Type	Code	Type
U	In-Line / Open-Air Exhaust	Y	In-Line / Pipe Exhaust	E	In-Line / Needle Exhaust	J	Plug / Open-Air Exhaust

#### ② Tube dia.

Code	5/32	1/4	3	4	6
Dia.	5/32"	1/4"	ø3	ø4	ø6

### \* Thread type



For direct-mounting on cylinders/actuators to control the exhaust flow rate



#### ① Inlet Tube Size

Code	5/32	1/4	3	4	6
Dia.	5/32"	1/4"	ø3	ø4	ø6

#### ② Thread Size

Code	U10	M3	M5
Size	10-32UNF	M3×0.5	M5×0.8

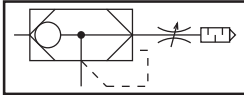
#### ③ Ex. port type

Code	E	U10	M6
Type	Exhaust needle control	10-32UNF	M6×1

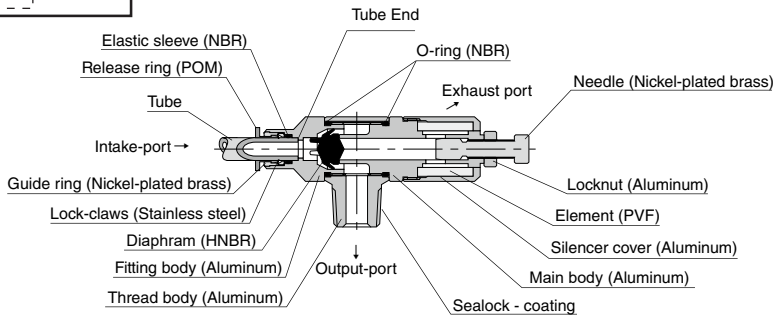
## Specifications

Fluid medium	Air
Operating pressure range	14.5~102psi (0.1 ~ 0.7 MPa)
Proof pressure	196psi (1.35MPa)
Operating temp. range	41 ~ 140°F (5 ~ 60°C) (no freezing)
Min. opening pressure	7.25psi (0.05MPa)

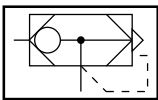
## Construction Standard type Ex. (Intake: Push-In Fitting, Output: Thread, Exhaust: Needle)



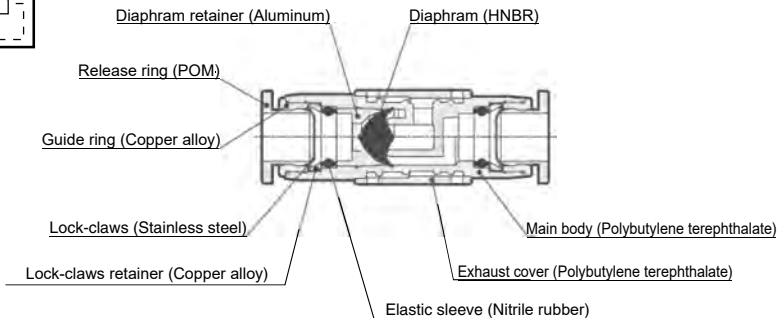
Symbol  
with needle exhaust



## Construction Mini type Ex. (Union Open-Air Exhaust)

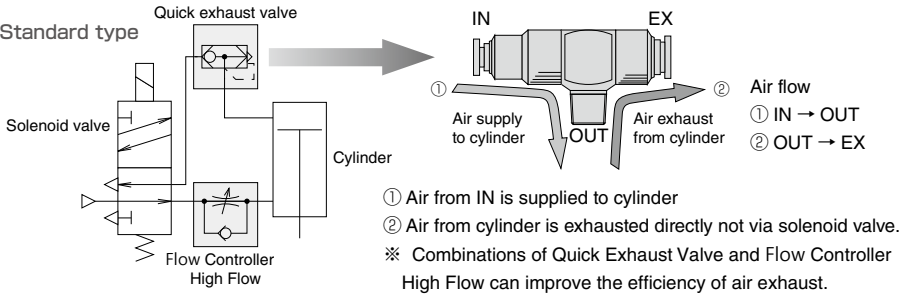


Symbol



## Control direction (Example)

### Standard type



### Mini type

Direct-mounting type ( : [ . 1 ] 'g h Y ' a c g h Y Z Z V Y b h U j f X j g W U f [ Y ' k ] h ' Y I \ U i g h b [ ' U j f c b ' h Y W h ] b X Y f d c f g ' ' H Y ' Y I \ U i g h Y Z Z V Y b h X Y d Y b X g c b ' h Y ' h V ] b [ ' ' Y b [ h ' ] b ' W U g ' c Z - b ] ' b Y h m d Y f Z [ ' ' & z h Y ' g ' c f Y f ' h Y ' V Y h Y f ' ' H Y ' U j f ' f U j Y ' g ' V U W ' h f c i [ \ g n Y a ' ] b ' W U g ' c Z Z c k ' V b f f c ' ' Y f g (condensation may also be caused in case of short stroke of actuators) z h Y ' e i ] W ' Y I \ U i g h j U j Y g U F Y f Y W e a ' Y b Y X ' k \ Y b ' f U d ] X ' W h ] b X Y f f Y h f b ] g ' b Y Y X Y X or for preventing condensation"

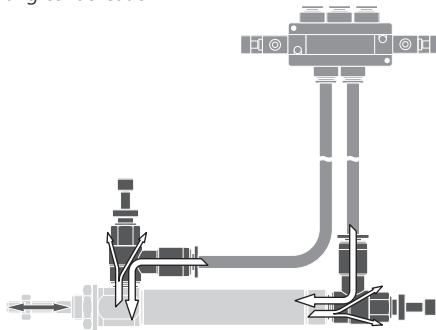


Fig. 1. Example - Direct-mounting type

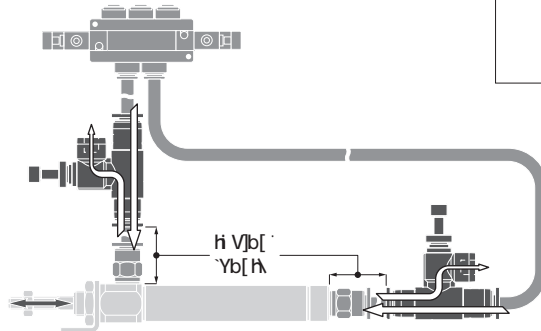
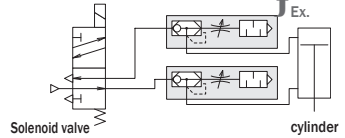


Fig. 2. Example - In-line type

### ● Cylinder speed control by quick exhaust valves (needle type)



### ● Cylinder speed control by flow controllers

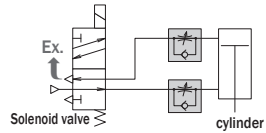
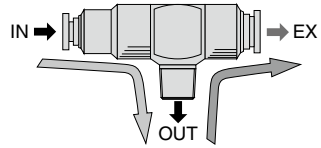
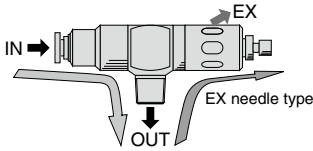


Fig. 3.

**Standard Size List**

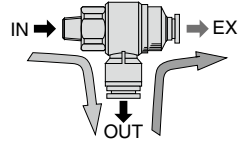
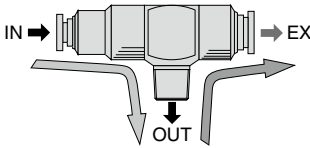
**Standard type Inch dia. tubing / NPT thread**



Type	IN port dia.	OUT thread size		
		1/8NPT	1/4NPT	3/8NPT
<b>EQ</b> IN port: Fitting OUT port: Thread EX needle type (Open-air exhaust)	1/4"	●	●	
	3/8"		●	●

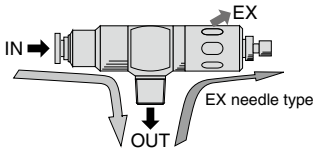
Type	IN port dia.	OUT thread size			EX port dia.
		1/8NPT	1/4NPT	3/8NPT	
<b>EQ</b> IN & EX port: Fitting OUT port: Thread (Tube exhaust)	1/4"	●	●		3/8"
	3/8"		●	●	1/2"

**Standard type Metric**



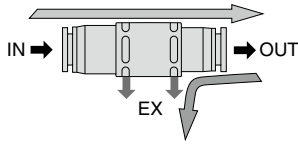
Type	IN tube dia.	OUT thread size				EX tube dia.
		R1/8	R1/4	R3/8	R1/2	
<b>EQ</b> IN & EX port: Fitting OUT port: Thread (Tube exhaust)	4	●				8
	6	●	●			10
	8	●	●	●		12
	10	●	●	●	●	
	12	●	●	●	●	

Type	IN tube dia.	OUT thread size				EX tube dia.
		6	8	10	12	
<b>EQ</b> OUT & EX port: Fitting IN port: Thread (Tube exhaust)	R1/8	●				8
	R1/4	●	●			10
	R3/8			●	●	12
	R1/2			●	●	

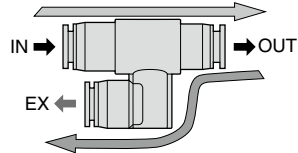


Type	IN tube dia.	OUT thread size			
		R1/8	R1/4	R3/8	R1/2
<b>EQ</b> IN port: Fitting OUT port: Thread EX needle type (Open-air exhaust)	4	●			
	6	●	●		
	8	●	●	●	
	10	●	●	●	●
	12	●	●	●	●

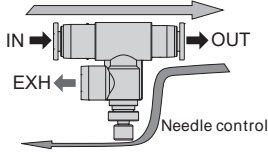
## Mini type "In-Line type



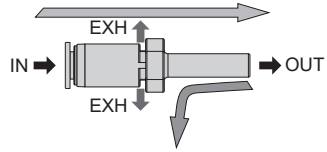
Type	Tube dia.				
	5/32"	1/4"	3	4	6
<b>EQU</b> In-Line Straight Open-Air Exhaust	●	●	●	●	●



Type	Tube dia.				
	5/32"	1/4"	3	4	6
<b>EQV</b> In-Line Straight Tubing Exhaust	●	●	●	●	●



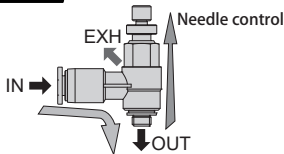
Type	Tube dia.				
	5/32"	1/4"	3	4	6
<b>EQE</b> In-Line Straight Needle Muffler Exhaust	●	●	●	●	●



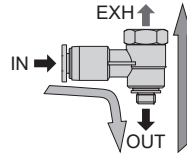
Type	Stem dia.	Tube dia.				
		5/32"	1/4"	3	4	6
<b>EQU</b> Plug Open-Air Exhaust	5/32"	●				
	1/4"		●			
	3			●		
	4				●	
	6					●

## Mini type "Direct-mounting type

### 10-32UNF thread

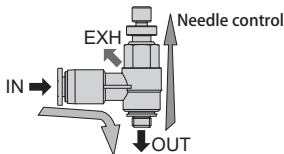


Type	IN Tube dia.	OUT thread size	
		10-32UNF	
<b>EQH</b> Cylinder Direct Mounting with Needle Exhaust	5/32"	●	
	1/4"		●

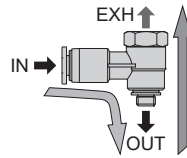


Type	IN Tube dia.	OUT thread size		EX thread size
		10-32UNF		
<b>EQH</b> Cylinder Direct Mounting Exhaust Female Thread	5/32"	●		10-32UNF
	1/4"		●	

### Metric thread



Type	IN Tube dia.	OUT thread size	
		M3×0.5	M5×0.8
<b>EQH</b> Cylinder Direct Mounting with Needle Exhaust	3	●	●
	4	●	●
	6	●	●



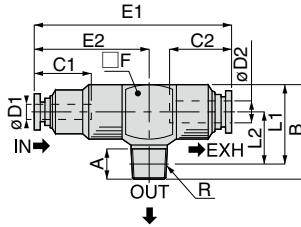
Type	IN Tube dia.	OUT thread size		EX thread size
		M3×0.5	M5×0.8	
<b>EQH</b> Cylinder Direct Mounting Exhaust Female Thread	3	●	●	M6×1
	4	●	●	
	6	●	●	

## Standard type

EQ

IN & EX port: Fitting OUT port: Thread  
(Tube exhaust)

R6HS compliant



Unit : mm

Model code	Tube O.D. øD1	Tube O.D. øD2	R	A	B	L1	L2	Tube end C1	Tube end C2	E1	E2	□ F	Effective area(mm <sup>2</sup> )		Weight (g)
													IN→OUT	OUT→EX	
EQ02-C1/4PN1C3/8	1/4"	3/8"	1/8NPT	8	29	24.9	15.9	11.4	20.7	54.2	27.9	18	9	16	27
EQ02-C1/4PN2C3/8			1/4NPT	11	31	25.2	16.2						9	16	29
EQ03-C3/8PN2C1/2	3/8"	1/2"	1/4NPT	11	40.5	34.7	22.2	20.7	23.1	74.4	42.8	25	24	34	69
EQ03-C3/8PN3C1/2			3/8NPT	12		34.4	21.9						25	35	72
EQ01-C04P01C08	4	8	R1/8	8	25.5	21.5	14	10.9	18.2	46.5	23.8	15	4	9	19
EQ01-C06P01C08	6							11.7		46.8	24.1		6		
EQ02-C06P01C10	6	10	R1/8	8	29	25	16	11.7	20.7	54.4	28.1	18	9	16	27
EQ02-C06P02C10			R1/4	11	31										9
EQ02-C08P01C10	8		R1/8	8	29	11	31	18.2		59.7	33.4		12		25
EQ02-C08P02C10		R1/4	11	31	31				33						
EQ03-C10P02C12	10	12	R1/4	11	40.5	34.5	22	20.7	23.3	74.6	42.8	25	24	34	69
EQ03-C10P03C12			R3/8	12	34.2	21.7	25						35	72	
EQ03-C10P04C12	R1/2		15	42.5	34.3	21.8	27	37		77					
EQ03-C12P02C12	12	R1/4	11	40.5	34.5	22	23.3	76.2	44.4	25	28	37	80		
EQ03-C12P03C12		R3/8	12	34.2	21.7	26								35	75
EQ03-C12P04C12		R1/2	15	42.5	34.3	21.8	28							37	80

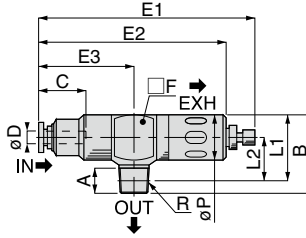
\*. "L1" and "L2" are reference values for height dimensions after tightening taper thread.



EQ

# IN port: Fitting OUT port: Thread Needle silencer exhaust (Silencer exhaust)

RoHS compliant



Unit : mm

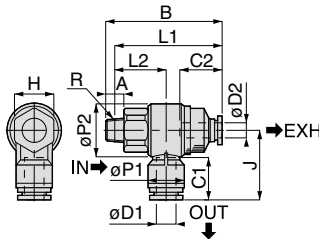
Model code	Tube O.D. $\phi D$	R	A	B	L1	L2	$\phi P$	Tube end C	E1		E2	E3	□ F	Effective area(mm <sup>2</sup> )		Weight (g)
									max.	min.				IN→OUT	OUT→EX	
EQ02-C1/4PN1E	1/4"	1/8NPT	8	29	24.9	15.9	18	11.4	78.3	71.4	62.9	27.9	18	9	15	35
EQ02-C1/4PN2E		1/4NPT	11	31	25.2	16.2										37
EQ03-C3/8PN2E	3/8"	1/4NPT	11	40.5	34.7	22.2	25	20.7	112.9	105.3	95.8	42.8	25	24	31	96
EQ03-C3/8PN3E		3/8NPT	12	40.5	34.4	21.9										98
EQ01-C04P01E	4	R1/8	8	25.5	21.5	14	15	10.9	66.7	61.8	54.3	23.8	15	4	8	23
EQ01-C06P01E	6	R1/8	8	25.5	21.5	14	15	11.7	67	62.1	54.6	24.1	15	6	8	23
EQ02-C06P01E			29	25	16	18	77.4		71.6	63.1	28.1	18	9	15	35	
EQ02-C06P02E		R1/4	11	31	25	16	18	77.4	71.6	63.1	28.1	18	9	15	37	
EQ02-C08P01E	8	R1/8	8	29	25	16	18	18.2	82.7	76.9	68.4	33.4	18	12	15	39
EQ02-C08P02E		R1/4	11	31												41
EQ03-C10P02E	10	R1/4	11	40.5	34.5	22	25	20.7	112.7	105.3	95.8	42.8	25	24	31	97
EQ03-C10P03E		R3/8	12	40.5	34.2	21.7										98
EQ03-C10P04E		R1/2	15	42.5	34.3	21.8										102
EQ03-C12P02E	12	R1/4	11	40.5	34.5	22	25	23.3	114.3	106.9	97.4	44.4	25	25	31	99
EQ03-C12P03E		R3/8	12	40.5	34.2	21.7										102
EQ03-C12P04E		R1/2	15	42.5	34.3	21.8										106

\*. "L1" and "L2" are reference values for height dimensions after tightening taper thread.

EQ

# OUT & EX port : Fitting IN port: Thread (Tube exhaust)

RoHS compliant



Unit : mm

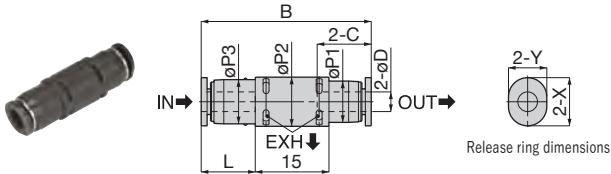
Model code	Tube O.D. $\phi D1$	Tube O.D. $\phi D2$	R	A	B	L1	L2	$\phi P1$	$\phi P2$	Tube end C1	Tube end C2	J	Hex. H	Effective area(mm <sup>2</sup> )		Weight (g)	CAD file name
														IN→OUT	OUT→EX		
EQ01-P01C06C08	6	8	R1/8	8	43.2	39.2	14.9	12.4	18.4	17	18.2	25.5	14	5.5	6.5	22	CRE-002
EQ02-P01C06C10	6	10	R1/8	8	50.3	46.3	18.8	14.4	22	17	29	20.7	17	8	9	33	
EQ02-P01C08C10	8									18.1	28.9			10	12		
EQ02-P02C06C10	6		R1/4	11	53.3	47.3	19.7			17	29	8	9				
EQ02-P02C08C10	8									18.1	28.9	10	12	35			
EQ03-P03C10C12	10	12	R3/8	12	64.2	57.9	22.5	17.6	28	20.2	33.6	23.3	22	21	24	75	
EQ03-P03C12C12	12				64.3	58	24.2	21		23.4	36.4			22	27	78	
EQ03-P04C10C12	10		R1/2	15	67.2	59	23.6	17.6	21	20.2	33.6	21	24	81			
EQ03-P04C12C12	12									23.4	36.4	23	27	84			

\*. "L1" and "L2" are reference values for height dimensions after tightening taper thread.

## Mini type

### EQU Mini Union Straight Open-Air Exhaust

RoHS compliant

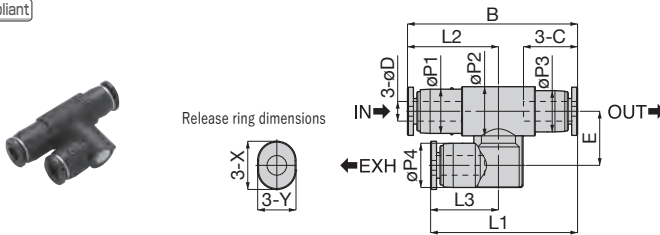


Unit : mm

Model code	Tube O.D. øD	B	L	øP1	øP2	øP3	Tube end C	X	Y	Weight (g)	CAD file name
EQU-5/32	5/32"	34.6	11	8.4	10	9	11	9.8	7.8	3.5	—
EQU-1/4	1/4"	37.4	12.2	10.4	12	11	11.4	11.8	9.8	5.5	—
EQU-3	3	34.6	11	8.4	10	9	11	9.8	7.8	3.5	EQU-3
EQU-4	4	34.6	11	8.4	10	9	11	9.8	7.8	3.3	EQU-4
EQU-6	6	37	12	10.4	12	11	11.6	11.8	9.8	4.9	EQU-6

### EQU Mini Union Straight Tube Exhaust

RoHS compliant



Unit : mm

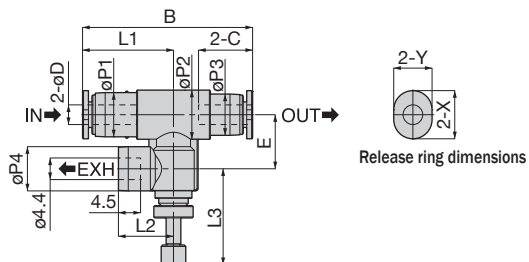
Model code	Tube O.D. øD	B	L1	L2	L3	øP1	øP2	øP3	øP4	Tube end C	E	X	Y	Weight (g)	CAD file name
EQU-5/32	5/32"	34.6	29.9	18.5	13.8	9	10	8.4	9	11	11	9.8	7.8	6.1	—
EQU-1/4	1/4"	37.4	32.4	20.2	15.2	11	12	10.4	11	11.4	13	11.8	9.8	8.1	—
EQU-3	3	34.6	29.9	18.5	13.8	9	10	8.4	9	11	11	9.8	7.8	5.6	EQU-3
EQU-4	4	34.6	29.9	18.5	13.8	9	10	8.4	9	11	11	9.8	7.8	6.1	EQU-4
EQU-6	6	37	32	20	15	11	12	10.4	11	11.6	13	11.8	9.8	7.6	EQU-6

# Quick Exhaust Valve Series



## Union Straight Needle Silencer Exhaust

RoHS compliant



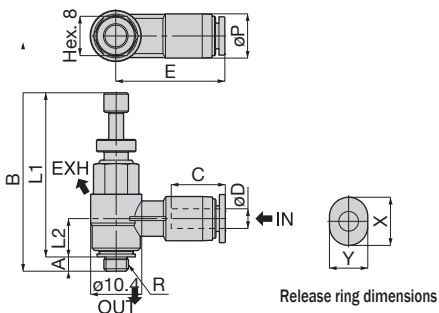
Unit : mm

Model code	Tube O.D. øD	B	L1	L2	L3		øP1	øP2	øP3	øP4	Tube end C	E	X	Y	Weight (g)	CAD file name
					max.	min.										
EQE-5/32	5/32"	34.6	18.5	11.2	19.5	14.5	9	10	8.4	9	11	11	9.8	7.8	7.7	EQE-3
EQE-1/4	1/4"	37.4	20.2	12	19	14	11	12	10.4	11	11.4	13	11.8	9.8	9.8	EQE-4
EQE-3	3	34.6	18.5	11.2	18.5	13.5	9	10	8.4	9	11	11	9.8	7.8	7.4	EQE-3
EQE-4	4	34.6	18.5	11.2	19.5	14.5	9	10	8.4	9	11	11	9.8	7.8	7.7	EQE-4
EQE-6	6	37	20	12	19	14	11	12	10.4	11	11.6	13	11.8	9.8	9.2	EQE-6



## Cylinder Direct-Mounting with Needle Exhaust

RoHS compliant



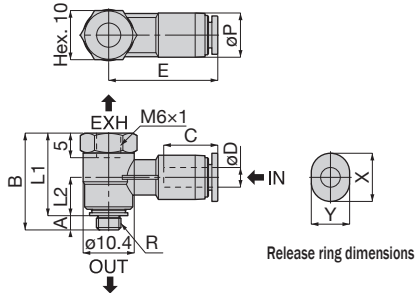
Unit : mm

Model code	Tube O.D. øD	R	A	B		L1		L2	øP	Tube end C	E	X	Y	Weight (g)	CAD file name
				max.	min.	max.	min.								
EQH-5/32U10E	5/32"	10-32UNF	2.9	36.3	31.3	33.4	28.4	7.8	9	11	22.2	9.8	7.8	10	-
EQH-1/4U10E	1/4"							7.6	11	11.4	23.9	11.8	9.8	12	-
EQH-3M3E	3	M3×0.5	2.5	35.8	30.8	33.3	28.3	7.7	9	11	22.2	9.8	7.8	9.2	EQH-3M3E
EQH-3M5E		M5×0.8	2.9	36.3	31.3	33.4	28.4	7.3						9.9	EQH-3M5E
EQH-4M3E	4	M3×0.5	2.5	35.8	30.8	33.3	28.3	7.7	9	11	22.2	9.8	7.8	9.1	EQH-4M3E
EQH-4M5E		M5×0.8	2.9	36.3	31.3	33.4	28.4	7.3						9.8	EQH-4M5E
EQH-6M3E	6	M3×0.5	2.5	35.8	30.8	33.3	28.3	7.5	11	11.6	23.7	11.8	9.8	10	EQH-6M3E
EQH-6M5E		M5×0.8	2.9	36.3	31.3	33.4	28.4	7.6						11	EQH-6M5E



## Cylinder Direct-Mounting with Female Thread Exhaust

RoHS compliant



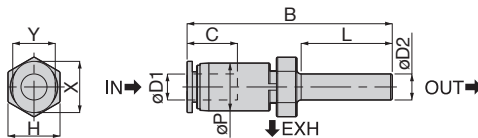
Unit : mm

Model code	Tube O.D. øD	R	A	B	L1	L2	øP	Tube end C	E	X	Y	Weight (g)	CAD file name
EQH-5/32U10U10	5/32"	10-32UNF	2.9	19.7	16.8	7.8	9	11	22.2	9.8	7.8	8.2	—
EQH-1/4U10U10	1/4"					7.6	11	11.4	23.9	11.8	9.8	9.4	—
EQH-3M3M6	3	M3×0.5	2.5	19.2	16.7	7.7	9	11	22.2	9.8	7.8	6.6	EQH-3M3M6
EQH-3M5M6		M5×0.8	2.9	19.7	16.8	7.8						7.4	EQH-3M5M6
EQH-4M3M6	4	M3×0.5	2.5	19.2	16.7	7.5	9	11	22.2	9.8	7.8	6.5	EQH-4M3M6
EQH-4M5M6		M5×0.8	2.9	19.7	16.8	7.6						7.3	EQH-4M5M6
EQH-6M3M6	6	M3×0.5	2.5	19.2	16.7	7.7	11	11.6	23.7	11.8	9.8	7.4	EQH-6M3M6
EQH-6M5M6		M5×0.8	2.9	19.7	16.8	7.8						8.1	EQH-6M5M6



## Plug Open – Air Exhaust

RoHS compliant



Unit : mm

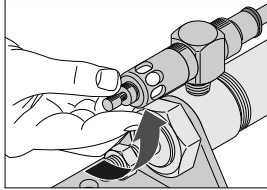
Model code	Tube O.D. øD1	Stem O.D. øD2	B	L	øP	Tube end C	Hex H	X	Y	Weight (g)	CAD file name
EQJ-5/32	5/32"	5/32"	41	18.2	9	11	10	9.8	7.8	2.3	—
EQJ-1/4	1/4"	1/4"	47.5	12	11	11.4	12	11.8	9.8	3.8	—
EQJ-3	3	3	41	11.5	9	11	10	9.8	7.8	2.4	—
EQJ-4	4	4	41	18.2	9	11	10	9.8	7.8	2.3	EQJ-4
EQJ-6	6	6	47.3	21	11	11.6	12	11.8	9.8	3.9	EQJ-6

## How to adjust the speed (Exhaust needle type only)

### 1. Speed adjustment of actuators

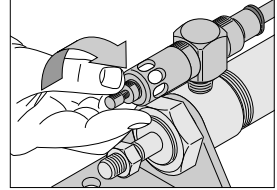
#### ① Increasing speed

Turn the needle in the counterclockwise from a fully closed state. The more the needle is opened, the faster the actuator moves. Make sure to tighten the locknut at the desired speed. The speed setting can be changed without tightening the locknut.



#### ② Reducing speed

Turn the needle in the clockwise when the speed is too fast. Make sure to tighten the locknut at the desired speed. The speed setting can be changed without tightening the locknut.

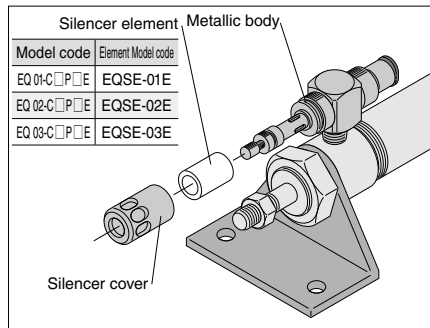


## How to replace silencer element

### 1. Replacement of silencer element

- ① Remove the silencer cover by loosening it in the counterclockwise direction.
- ② Remove the silencer element.
- ③ Attach a new silencer element to the metallic body up to the end.
- ④ Place the silencer cover over the element and tighten the cover in the clockwise direction.

※ Make sure to stop air supply before replacing silencer element. No need to readjust the needle after the replacement of silencer element.



## How to insert and disconnect

### 1. How to insert and disconnect tubes

#### ① Tube insertion

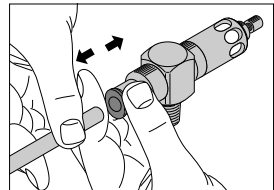
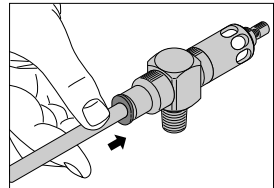
Insert a tube into Push-In Fitting up to the tube end. Lock-claws bite the tube and fix it automatically, then the elastic sleeve seals around the tube.

Refer to "2. Instructions for Tube Insertion" under "Common Safety Instructions for Fittings".

#### ② Tube disconnection

The tube is disconnected by pushing release-ring to release Lock-claws.

Make sure to stop air supply before the tube disconnection.

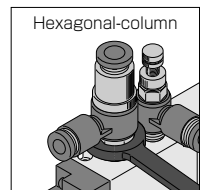


### 2. How to tighten thread

#### ① Tightening thread

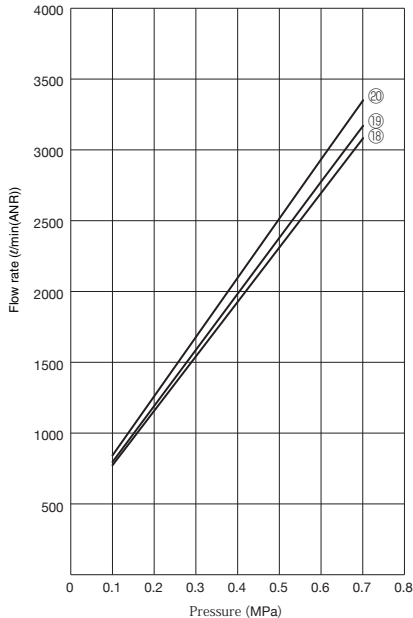
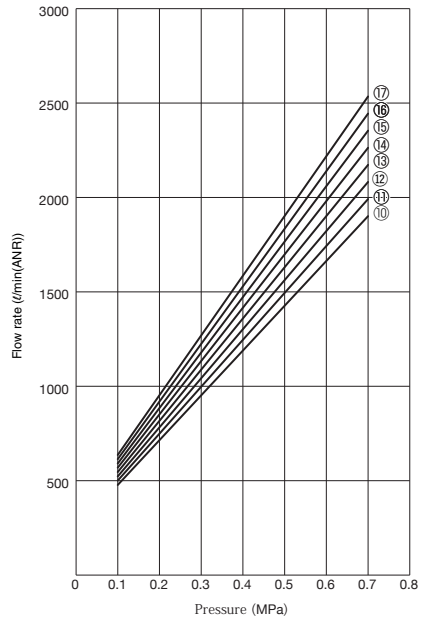
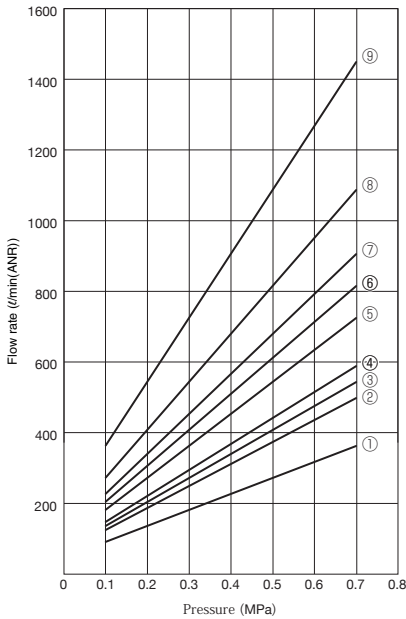
Use a spanner to tighten a hexagonal-column or square part of the product.

Refer to "Table: Recommended tightening torque" under "2. Instructions for Installing Controllers" in "Common Safety Instructions for Controllers".



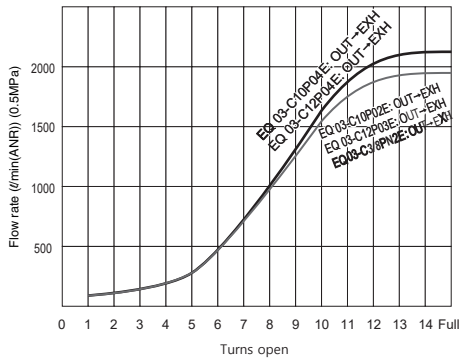
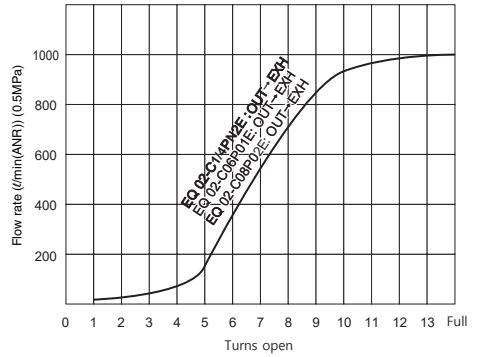
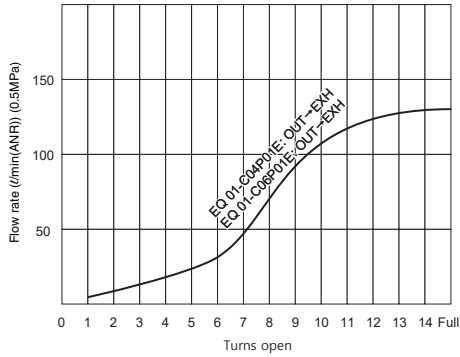
## Flow characteristic

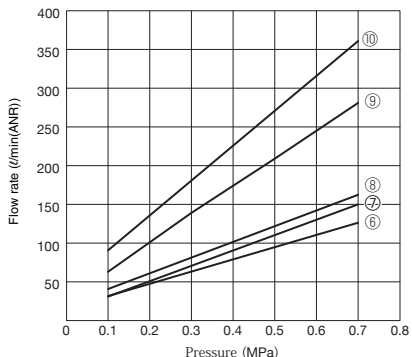
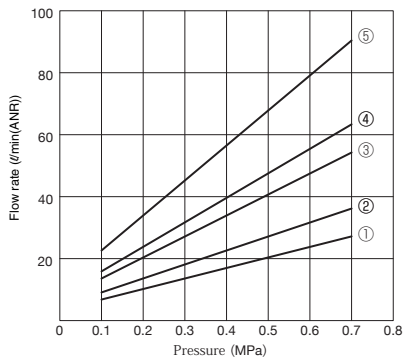
Standard type



No.	Model	Direction	No.	Model	Direction
①	EQ01-C04P01C08	IN→OUT	⑩	EQ03-P03C10C12	IN→OUT
	EQ01-C04P01E			EQ03-P04C10C12	
②	EQ01-P01C06C08	IN→OUT	⑪	EQ03-P03C12C12	IN→OUT
	EQ01-C06P01C08			EQ03-P04C12C12	
③	EQ01-C06P01E	IN→OUT	⑫	EQ03-C3/8PN2C1/2	IN→OUT
	EQ01-P01C06C08			EQ03-C10P02C12	
④	EQ02-P01C06C10	OUT→EXH	⑬	EQ03-P03C10C12	OUT→EXH
	EQ02-P02C06C10			EQ03-P04C10C12	
⑤	EQ01-C04P01C08	OUT→EXH	⑭	EQ03-C3/8PN2E	IN→OUT
	EQ01-C06P01C08			EQ03-C10P02E	
⑥	EQ02-C1/4PN1C3/8	IN→OUT	⑮	EQ03-C3/8PN3C1/2	IN→OUT
	EQ02-C1/4PN2C3/8			EQ03-C10P03C12	
⑦	EQ02-C06P01C10	OUT→EXH	⑯	EQ03-C12P02C12	IN→OUT
	EQ02-C06P02C10			EQ03-C3/8PN3E	
⑧	EQ02-P01C08C10	OUT→EXH	⑰	EQ03-C10P03E	IN→OUT
	EQ02-P02C08C10			EQ03-C12P02E	
⑨	EQ02-C1/4PN1E	IN→OUT	⑱	EQ03-C12P03C12	OUT→EXH
	EQ02-C1/4PN2E			EQ03-C10P04C12	
⑩	EQ02-C06P01E	IN→OUT	⑲	EQ03-P03C12C12	OUT→EXH
	EQ02-C06P02E			EQ03-P04C12C12	
⑪	EQ02-P01C08C10	IN→OUT	⑳	EQ03-C10P04E	IN→OUT
	EQ02-P02C08C10			EQ03-C12P04C12	
⑫	EQ02-C08P01C10	IN→OUT	㉑	EQ03-C10P02C12	OUT→EXH
	EQ02-C08P02C10			EQ03-C12P04E	
⑬	EQ02-P01C08C10	OUT→EXH	㉒	EQ03-C10P02C12	OUT→EXH
	EQ02-P02C08C10			EQ03-C12P02C12	
⑭	EQ02-C08P01E	IN→OUT	㉓	EQ03-C12P02C12	OUT→EXH
	EQ02-C08P02E			EQ03-C3/8PN3C1/2	
⑮	EQ02-C1/4PN1C3/8	OUT→EXH	㉔	EQ03-C10P03C12	OUT→EXH
	EQ02-C1/4PN2C3/8			EQ03-C12P03C12	
⑯	EQ02-C06P01C10	OUT→EXH	㉕	EQ03-C10P04C12	OUT→EXH
	EQ02-C06P02C10			EQ03-C12P04C12	
⑰	EQ02-C08P01C10	OUT→EXH			
	EQ02-C08P02C10				

Standard type

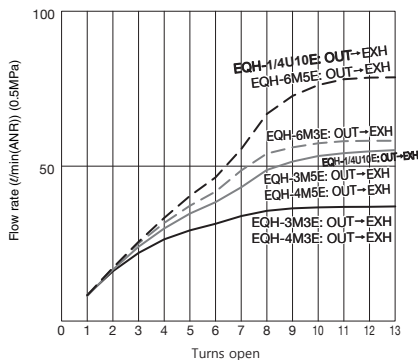
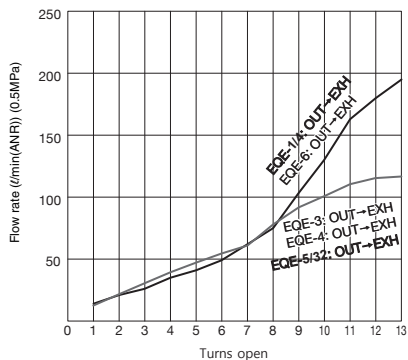




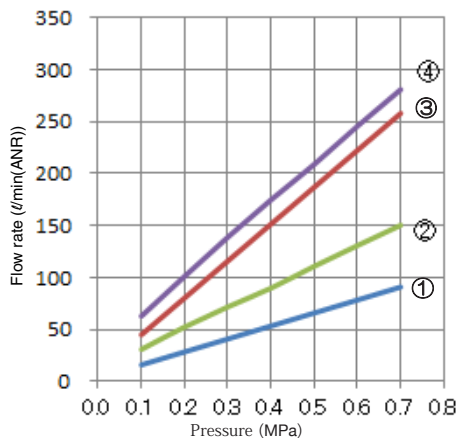
No.	Model	Flow direction
①	EQH-3M3E	IN→OUT
	EQH-3M3M6	IN→OUT OUT→EXH
②	EQH-3M5E	IN→OUT
	EQH-4M3E	IN→OUT
③	EQH-3M5M6	IN→OUT OUT→EXH
	EQH-4M3M6	IN→OUT OUT→EXH
	EQH-5/32U10E	IN→OUT
④	EQH-4M5E	IN→OUT
	EQH-5/32U10U10	IN→OUT
	EQH-4M5M6	OUT→EXH

No.	Model	Flow direction
④	EQH-6M3E	IN→OUT
	EQH-6M3M6	IN→OUT OUT→EXH
	EQH-1/4U10U10	OUT→EXH
⑤	EQH-6M5M6	OUT→EXH
	EQU-3	IN→OUT OUT→EXH
⑥	EQY-3	IN→OUT OUT→EXH
	EQE-3	IN→OUT
⑦	EQH-1/4U10E	IN→OUT
	EQH-1/4U10U10	
	EQH-6M5E	
	EQH-6M5M6	
⑩	EQJ-4	IN→OUT OUT→EXH

No.	Model	Flow direction
⑧	EQU-5/32	IN→OUT
	EQU-4	OUT→EXH
	EQY-5/32	IN→OUT
⑨	EQY-4	OUT→EXH
	EQE-5/32	IN→OUT
⑩	EQJ-6	IN→OUT OUT→EXH
	EQU-1/4	IN→OUT
⑩	EQU-6	OUT→EXH
	EQY-1/4	IN→OUT
	EQY-6	OUT→EXH
	EQE-1/4	IN→OUT
	EQE-6	IN→OUT







Plug-in type

No.	Model	Flow direction
①	EQJ-3	IN→OUT
		OUT→EXH
②	EQJ-4 EQJ-5/32	IN→OUT
		OUT→EXH
③	EQJ-1/4	IN→OUT
		OUT→EXH
④	EQJ-6	IN→OUT
		OUT→EXH

## ⚠ Detailed Safety Instructions

Before using PISCO products, be sure to read "Safety Instructions" and "Safety Instruction Manual" and "Common Safety Instructions for Controllers"

### Warning

1. When controlling the speed of actuators with needle type, slowly release the air by adjusting the needle from a fully closed state. In case the needle is opened, actuator can move suddenly. As for other than needle types, make sure to confirm the safety before operation.
2. Do not swing or rotate resin body of the products by force. It may damage to the products and cause a fluid leakage.

### Caution

1. The clogging of silencer element increases exhaust-resistance. There is a possibility that it causes the system malfunction.
2. Make sure to provide a differential pressure when Quick Exhaust Valve is used as a shuttle valve. It can cause a malfunction without the differential pressure.
3. When replacing a silencer element, make sure to place the silencer cover over the element and tighten the cover by hand firmly. The element for mini type, EQE can not be replaced.
4. Use a proper tool to tighten a hexagonal-column or square part of Quick Exhaust Valve. Refer to "2. Instructions for Installing Controllers" in "Common Safety Instructions for Controllers".
5. Adjust the tube direction while tightening thread within the tightening torque limits, since some PISCO products do not swivel after the installation.
6. Exhaust air dirt may adhere to Exhaust port area (around outer hexagonal thread) of EQH (Exhaust needle type) and become discolored depending on the use conditions and use frequency, but it is not an abnormality.