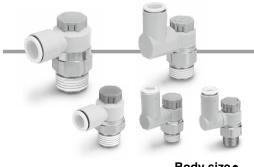
Speed Controller with One-touch Fitting Stainless Steel Type Push-lock Type

Elbow Type/Universal Type

S-FG Series **In-line Type** AS-FG Series

This product (standard product) is a secondary battery compatible product. For details on specifications and dimensions, refer to the Web Catalog.





How to Order









Port size €

Applicable tubing O.D. *1

Metric size	
02	ø2
23	ø3.2 *2
04	ø4
06	ø6

Inch size 01 ø1/8" 03 ø5/32" 07 ø1/4"

*1 For selecting applicable tubing O.D., refer to the "Model" on the Web Catalog. The color of the release button is white (metric, inch).

*2 Use ø1/8" tube.



M5 M5 x 0.8 U10/32 10-32 UNF

Body size 1

Body size 2/3/4

AS 2 2 0 1 F G 01

Thread type

Push-lock type

Body size 2 1/8, 1/4 3 3/8 4 1/2

Type • 2 Elbow 3 Universal

Nil NPT G G Control type *1

Port size 01 1/8 02 1/4 03 3/8 04 1/2

Seal method		
Nil Without sealant		
S	With sealant	

Face seal method is used for the G thread type.

Select "Nil/Without sealant." Example) AS2201FG-G01-06A

Meter-in *1 Meter-out and meter-in types can be

visually identified by color of the knob. Meter-out: Gray Meter-in: Light blue

Stainless steel type (Stainless steel 303)

Meter-out

- * The material can be visually identified by color of the release
 - Stainless steel type: White

Applicable tubing O.D. *1

Metric size		Inch	Inch size *3	
23	ø3.2 *2	01	ø1/8"	
04	ø4	03	ø5/32"	
06	ø6	07	ø1/4"	
80	ø8	09	ø5/16"	
10	ø10	11	ø3/8"	
12	ø12	13	ø1/2"	
16	ø16]		

*1 For selecting applicable tubing O.D., refer to the "Model" on the Web Catalog.

The color of the release button is white (metric, inch).

- *2 Use ø1/8" tube.
- *3 Only the metric size is available for the G thread type.



How to Order





AS 200 2 F G - 06 A

Body size

	Dody cize
100	M5 standard
200	1/8 standard
205	1/4 standard
300	3/8 standard
400	1/2 standard

With One-touch fittings

(Stainless steel 303)

The material can be visually identified by color of the release button.

Stainless steel type: White White is also used for inch size.

♠ Applicable tubing O.D.*1

◆Push-lock type

/letric size		
23	ø3.2* ²	
04	ø4	
06	ø6	
80	ø8	
10	ø10	
10	~10	

Inch size		
01	ø1/8"	
03	ø5/32"	
07	ø1/4"	*
09	ø5/16"	
11	ø3/8"	
	4 (01)	1

*1 For selecting applicable tubing O.D., refer to the "Model" on the Web Catalog.

ø12 ___ **13** | ø1/2" *2 Use ø1/8" tubing.



Speed Controller with Indicator Stainless Steel Series Elbow Type/Universal Type

S-FSG Series In-line Type

This product (standard product) is a secondary battery compatible product. For details on specifications and dimensions, refer to the Web Catalog.





How to Order



8 Indicator window direction Elbow Universal





Body size 1

Nil

2

3

0°

180°

90°

270°

Indicator window

Body size

	, 00
	M5 x 0.8
	10-32 UNF

2 Port size

M5	M5 x 0.8
U10/32	10-32 UNF

6 Control type*1

U		Weter-out
1		Meter-in
	*1 Me	ter-out and mete

types can be visually identified by color of the knob. Meter-out: Gray Meter-in: Light blue

Applicable tubing O.D.*1

Metric size Inch size*3

23	ø3.2*2	01	ø1/8"
04	ø4	03	ø5/32"
06	ø6	07	ø1/4"
08	ø8	09	ø5/16"
10	ø10	11	ø3/8"
12	ø12	13	ø1/2"
16	α16		

3 Applicable tubing O.D.*1

Metric size		Inch size	
02	ø2	01	ø1/8"
23	ø3.2*2	03	ø5/32"
04	ø4	07	ø1/4"
06	ø6		

- *1 For selecting applicable tubing O.D., refer to the "Model" on the Web Catalog. Metric size and inch size types can be visually identified by color of the release button. Stainless steel type: White White is also used for inch size.
- *2 Use ø1/8" tubing.

Stainless steel type

- * Metric size and inch size types can be visually identified by color of the release button. Stainless steel type: White
- White is also used for inch size.
 - *1 For selecting applicable tubing O.D., refer to the "Model" on the Web Catalog.
 - *2 Use ø1/8" tubing.
 - *3 Only the metric size is available for the G thread type.

indicator 4 Body size

2	1/8, 1/4
3	3/8
4	1/2

Type

2	Elbow				
3	Universal				

9 Thread type

Nil	R
N	NPT
G	G

Port size

_	
01	1/8
02	1/4
03	3/8
04	1/2

Seal method

Nil	Without sealant
S	With sealant
* Face s	seal type is used

Orientation of indicator direction is fixed when manufacturing, and cannot be changed by the user. In addition, the universal type is only available with 180° setting.

d for the G thread type. Select "Nil/Without sealant".

Example) AS2201FSG-G01-06







AS 200 indicator

Body size

100	M5 standard
200	1/8 standard
205	1/4 standard
300	3/8 standard
400	1/2 standard

Stainless steel type (Stainless steel 303)

- The material can be visually identified by color of the release button. Stainless steel type: White
- * White is also used for inch size.

4 Applicable tubing O.D.*1

Metri	c size	Inch size					
23	ø3.2*2	08	ø8	01	ø1/8"	09	ø5/16"
04	ø4	10	ø10	03	ø5/32"	11	ø3/8"
06	ø6	12	ø12	07	ø1/4"	13	ø1/2"

*1 For selecting applicable tubing O.D., refer to the "Model" on the Web Catalog. *2 Use ø1/8" tubing.

3 Indicator direction

		Indicator window			atio
Nil	0°	Index plate	2	90°	Index plate
	1000	Indicator window Index plate	_	0700	Indicator window Index plate
1	180°	Index plate	3	270°	index plate



Clean Speed Controller with One-touch Fitting

AS-FPQ/AS-FPG Series





AS-FPQ: Brass (electroless nickel plated) and AS-FPG: Stainless steel 304 are now available as a series.



Speed Controller with Pilot Check Valve This product (standard product) is a

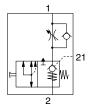
Stainless Steel Type ASP-G Series

secondary battery compatible product. For details on specifications and dimensions, refer to the Web Catalog.





Symbol



Model with residual pressure release function

Model

Horizontal type

			Appli	cable tubing	O.D.		
Port size	Pilot port size	Metric size					
		4	6	8	10	12	
M5 x 0.8	ø4	•	•	_	_	_	
10-32UNF	94	•	•	_	_	_	
R1/8		_	•	_	_	_	
NPT1/8	ø6	_	•	_	_	_	
G1/8		_	•	_	_	_	
R1/4		_	_	•	_	_	
NPT1/4	ø8	_	_	•	_	_	
G1/4		_	_	•	_	_	
R3/8		_	_	_	•	_	
NPT3/8	ø10	_	_	_	•	_	
G3/8		_	_	_	•	_	
R1/2		_	_	_	_	•	
NPT1/2	ø12	_	_	_	_	•	
G1/2		_	_	_	_	•	

Specifications

Fluid	Air
Proof pressure	1.05 MPa
Max. operating pressure	0.7 MPa
Min. operating pressure	0.1 MPa
Pilot check valve operating pressure	50% or more of the cylinder supply pressure $\{0.1 (0.15^{*1}) \text{ MPa or more}\}$
Ambient and fluid temperatures	−5 to 60°C (No freezing)
Applicable tubing material	Nylon, Soft nylon, Polyurethane, FEP, PFA*2

- *1 The value in brackets is for the AKP-□-M5/U10.
- *2 Use caution at the max. operating pressure when using soft nylon or polyurethane tubing. (Refer to the Web Catalog for details.)

Flow Rate and Sonic Conductance

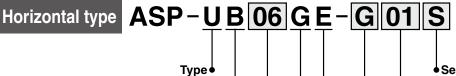
Model		ASP-□-M5/U10	ASP-□-□01	ASP-□-□02	ASP-□-□03	ASP-□-□04
Port size		M5 10-32UNF	1/8	1/4	3/8	1/2
Tubing O.D.	Metric size	ø4 ø6	ø6	ø8	ø10	ø12
C values: Sonic conductance	Free flow	0.25	0.58	1.06	2.19	3.43
dm³/(s·bar)	Controlled flow	0.22	0.46	1.06	1.69	3.09
b values: Critical	Free flow	0.20	0.20	0.15	0.15	0.20
pressure ratio	Controlled flow	0.30	0.20	0.25	0.20	0.30

∕ Caution

Be sure to read this before handling the products. Refer to the back cover for safety instructions. For flow control equipment precautions, refer to the "Handling Precautions I for SMC Products" and the "Operation Manual" on the SMC website: https://www.smcworld.com

How to Order





Piping type

B Horizontal

Universal

Applicable tubing O.D. • Metric size

04	ø4
06	ø6
08	ø8
10	ø10
12	ø12

 For selecting applicable tubing O.D., refer to the "Model" on page 11-1.

Material •

G Stainless steel type

Residual pressure release • With

Seal method

Nil	Without sealant
S	With sealant

 Select "Nil: Without sealant" for M5, 10-32UNF, and G thread types.
 Example) ASP-UB06GE-G01

• Port size

M5*1	M5
U10*1	10-32UNF
01	1/8
02	1/4
03	3/8
04	1/2

*1 Use the M5 or U10 port size model in a circuit that uses an exhaust center valve. These sizes cannot be used in a circuit that uses a closed center valve only because the responsiveness of the intermediate stop of the actuator may be slow. Therefore, if you want to use those models in a circuit with a closed center valve only, contact us.

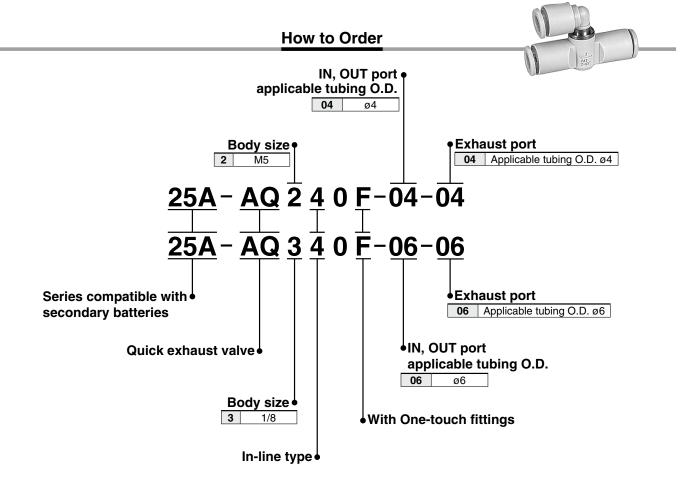
Thread type

Nil	R
N	NPT
G	G

 Select (R: Nil) for connection thread port size M5 or U10.



Quick Exhaust Valve with One-touch Fittings 25A-AQ240F/340F Series



^{*} The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Check Valve with One-touch Fittings

25A-AKH Series



How to Order

Straight type

secondary batteries

25A - AKH **04** - 00

Series compatible with • • A

Applicable tubing O.D.

04	ø4
06	ø6
08	ø8
10	ø10
12	ø12

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.



Rotary One-touch Fittings

25A-KX Series



High Speed Type

How to Order

25A-KXH06-01S

Series compatible with secondary batteries

Rotary One-touch fittings High speed type

Model •

Symbol	Model
Н	Male connector
1	Male elbow

Bore size

Syn	nbol	Size	Male thread seal method
	M5	M5 x 0.8	Gasket seal
read ection	01S	R1/8	With sealant
irea nect	02S	R1/4	vviin seaiani
G01		G1/8	Face and
	G02	G1/4	Face seal

♦ Applicable tubing O.D.

Symbol	Size
04	ø4
06	ø6
08	ø8
10	ø10

Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Tubing O.D.	ø4, ø6, ø8, ø10

KX Series

Model	Connection thread	Ap	plicable tub	ing O.D. [r	nm]
Model	Connection thread	ø 4	ø 6	ø 8	ø10
	,				
Male connector 25A-KXH	M5 x 0.8	-	•		
	R 1/8		<u> </u>	-	
	R 1/4				•
	G 1/8		<u> </u>	-	
	G 1/4				-
Male elbow 25A-KXL	M5 x 0.8	-	-igaphi		
	R 1/8		<u> </u>	-	
4.00	R 1/4				-
	G 1/8		<u> </u>	-	
	G 1/4				_

^{*} The 25A- series specifications are the same as those of the standard model. For the G thread dimensions, refer to page 258-2 for details.

For details, refer to the Web Catalog.

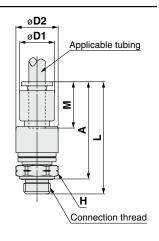


Rotary One-touch Fittings 25A-KX Series

Male Connector: KXH (High speed)



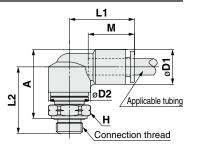
Applicable tubing O.D. [mm]	Connection thread	Model	(Width across flats)		ø D2	L	A	М	Min. port size	Effectiv [mi	m²]	Weight [g]
6	G1/8	25A-KXH06-G01	14	12.8	15.5	41.2	35.7	17	4	10.4	10.4	21
8	G1/8	25A-KXH08-G01	17	15.2	18	46.1	40.6	18.5	6	26.1	18	30
10	G1/4	25A-KXH10-G02	22	18.5	24.5	55.1	48.6	21	7	36.3	29.5	67



Male Elbow: KXL (High speed)



	Applicable ubing O.D. [mm]	Connection thread	Model	(Width across flats)		ø D2	L1	L2	A	М	port	Effectiv [mi	m²]	(n)
-	6	G1/8	25A-KXL06-G01	14	12.8	15.5	24	24.5	25.4	17	4	8.6	8.6	21
	8	G1/8	25A-KXL08-G01	17	15.2	18	27	28.5	30.6	18.5	6	21.6	14.9	30
_	10	G1/4	25A-KXL10-G02	22	18.5	24.5	32	35.2	37.9	21	7	30.5	25	68



One-touch Fittings Stainless Steel

KQ2-G Series



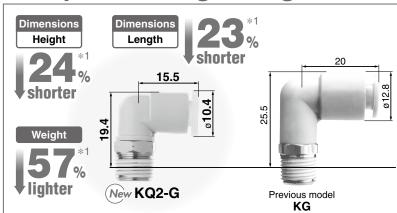
Metal material: Stainless steel 303

Improved tube insertion/removal



st 1: Tube removal strength is ensured to be equivalent to previous model.

Compact and lightweight



*1: Previous KG series model: Male elbow, applicable tubing O.D. Ø6, connection thread R1/8

Body type: total of **27** models



Clean One-touch Fittings

KP/KPQ/KPG Series



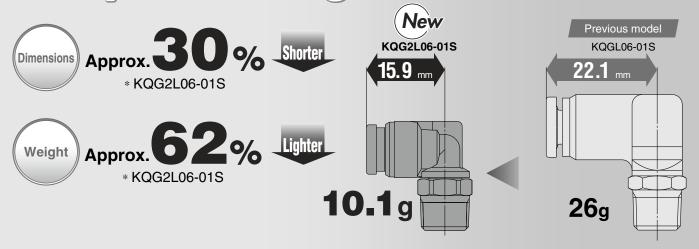


Stainless Steel 316 Fittings

KQG2 Series



Compact and Light



Material

Stainless steel 316

Seal parts: Special FKM

Fluid temperature

-**5** to **150**°c

Applicable tubing

Metric size, Inch size

Connection thread

M, R, Rc, UNF, NPT

- O Grease-free/Can be used with steam.
- Certified to meet current Food Sanitation Law standards.

(Component materials have met apparatuses and container-packages standards.)



Stainless Steel 316 Fittings

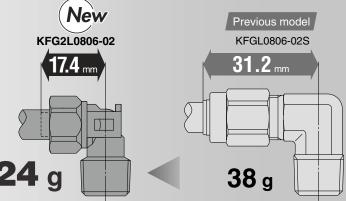
KFG2 Series



Compact and Light







Material

Stainless steel 316

Rubber material is not used. (Except swivel elbow)

Fluid temperature

-65 to 260°C (Swivel elbow: -5 to 150°C)

Applicable tubing

Metric size, Inch size

Connection thread

R, Rc, NPT

- O Grease-free/Can be used with steam.
- Certified to meet current Food Sanitation Law standards. (Component materials have met apparatuses and container-packages standards.)



SMC

262

Miniature Fittings Stainless Steel 316

MS Series



Applicable Tubes: Ø3.2, Ø4, Ø6 Connection Thread: M5, R 1/8

This product (standard product) is a secondary battery compatible product. For details, refer to the **Web Catalog**.

For use in corrosive environments Stainless steel 316

Compact piping space

Tube has a large retaining force. Hose nipple assures easy installation and removal.

Line up various types

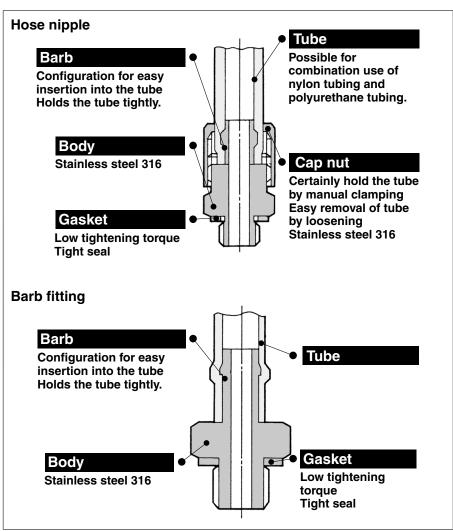
Possible for special tubing in the same direction. Accepts many types of plastic tubing

Hose nipple and hose elbow

Accepts nylon, soft nylon, and polyure-thane tubing.







Specifications

Applicable tubing material	Nylon	Soft nylon		Polyurethane	PFA (1)	FEP (2)	Modified PTFE (3)	Wear resistant polyurethane (4)	
Applicable tubing O.D./I.D.	ø4/ø2.5 ø6/ø4	1 0/1/02 5		ø3.18/ø2 ø4/ø2.5 ø6/ø4	ø4/ø2.5 ø6/ø4	ø4/ø2.5 ø6/ø4	ø4/ø2.5 ø6/ø4	ø4/ø2.5 ø6/ø4	
Fluid				Air, N2, W	ater (5, 6, 7)				
Maximum operating pressure (at 20°C)	1.5 MPa	1 M	1Pa	0.8 MPa	1 MPa	1.5 MPa	1.4 MPa	0.8 MPa	
Ambient and fluid temperature	-5 to 60°C, Water: 0 to 40°C (No freezing)								
Connection size M5, R1/8					N	15			
Thread		0205 (Me 03 (Taper		,	JIS B0205, Class 2 (Metric fine thread)				

Note 1) , Note 2) , Note 3) , Note 4) Applicable only for hose nipple type.

Note 5) Barb fitting, barb elbow and barb tee are not compatible with water.

Note 6) Deionized water is not recommended for use as it may affect the material used in the fittings. In addition, it is known to degrade the water quality.

Note 7) As the universal nipple comes with grease, it cannot be used when N2 is used as clean, dry air.

Principal Parts Material

Meterial	Body	Stainless steel 316
Material	Gasket	PVC, Nylon 66, GF30%



Rectangular Multi-connector 25A-KDM Series

No. of Connecting Tubes: 20



How to Order

25A-KDM 20-06

Series compatible with secondary batteries

No. of connecting tubes

Applicable Tubing

Tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane	
i ubiliu ilialeliai	FEF. FFA. INVIOII. SOIL IIVIOII. FOIVUIELIIAIIE	

♦ Tubing O.D.

Metric size

Symbol	Size	Color of release button		
23	ø3.2			
04	ø4	Blue		
06	ø6			

Inch size

Symbol	Size	Color of release button
01	ø1/8"	
03	ø5/32"	Red
07	ø1/4"	

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.



S Couplers Stainless steel type

KKA Series





Body material: Stainless steel 304

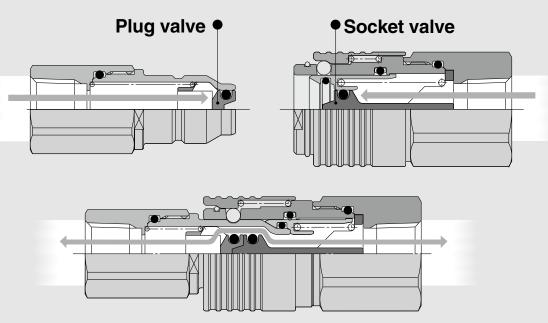
Seal material: Fluororubber (Special FKM)

Both plug and socket have an integral check valve.

Available with and without check valves depending on the operating conditions.

Reduces liquid dripping when the plug and socket are uncoupled.

Liquid dripping: 0.02 to 0.77 cm³ at each removal Aeration: 0.1 to 2.7 cm³ at each removal



Non-greased specification (standard)

Allows smooth installation and removal even without grease

- O-ring: Fluorine coated
- Sliding parts of plug and socket: Fluorine coated is used.
- Fluid: Water, Air
- Operating temperature range: -5 to 150°C

Note) This product should not be used with steam.

