

## General Purpose Fittings/Metric Size

### One-touch Mini: *KJ*

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15-2-1



Features	One-touch connection and release Possible to use in vacuum to -100 kPa
Applicable tubing O.D.	ø3.2, ø4, ø6
Connection thread	M3, M5, 1/8

### One-touch Fittings: *KQ2*

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15-2-10



Features	One-touch connection and release Possible to use in vacuum to -100 kPa
Applicable tubing O.D.	ø3.2, ø4, ø6, ø8, ø10 ø12, ø16
Connection thread	M5 x 0.8, M6 x 1.0 1/8, 1/4, 3/8, 1/2

### Uni One-touch Fittings: *KQ2*

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Features	New-stand male threads for piping that reduces the screw-in time by 1/3.
Applicable tubing O.D.	ø4, ø6, ø8, ø10, ø12, ø16
Connection thread	Uni thread: 1/8, 1/4, 3/8, 1/2

### Rotary One-touch Fittings: *KS/KX*

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Features	Low torque rotation for fast swivel and oscillating applications
Applicable tubing O.D.	ø4, ø6, ø8, ø10, ø12
Connection thread	M5 x 0.8, M6 x 1.0 1/8, 1/4, 3/8, 1/2

### One-touch Fittings Manifold: *KM*

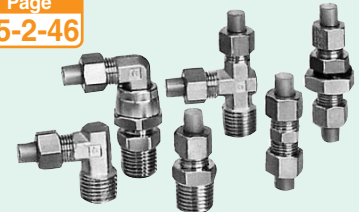
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15-2-42



Features	One-touch In/Out connection for compact and concentrated tubing applications
Applicable tubing O.D.	ø4, ø6, ø8, ø10, ø12
Connection thread	1/8, 1/4, 3/8, 1/2

### Insert Fittings: *KF*

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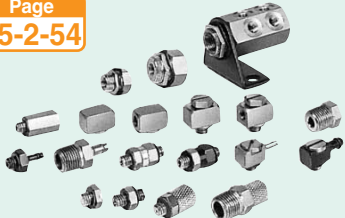


Features	Possible to use in vacuum to $1.3 \times 10^{-2}$ kPa
Applicable tubing O.D.	ø4, ø6, ø8, ø10, ø12
Connection thread	1/8, 1/4, 3/8, 1/2

## General Purpose Fittings/Metric Size

### Miniature Fittings: *M*

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15-2-54



Features	Small tubing connection/ disconnection without using tools
Applicable tubing O.D.	ø3.2, ø4, ø6
Connection thread	M3, M5, 1/8

### Self-align Fittings: *H/DL/L/LL*

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15-2-60



Features	Accepts soft copper tubing
Applicable tubing O.D.	ø4, ø6, ø8, ø10, ø12
Connection thread	1/8, 1/4, 3/8, 1/2

### Self-seal Fittings: *KC*

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15-2-66



Features	One-touch connection and release Built-in self-seal mechanism
Applicable tubing O.D.	ø4, ø6, ø8, ø10, ø12
Connection thread	M5 x 0.8 1/8, 1/4, 3/8, 1/2

### S Couplers: *KK*

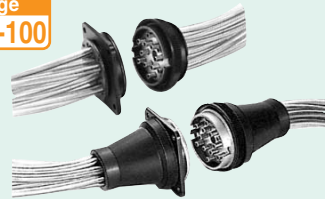
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15-2-73



Features	One-touch fitting type standardized
Applicable tubing O.D.	ø4, ø6, ø8, ø10, ø12, ø16
Connection thread	1/8 1/4, 3/8, 1/2, 3/4

### Multi-connector: *DM*

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15-2-100



Features	One-touch In/Out connection, Multi-tube connector
No. of connecting tubes	6, 12
Applicable tubing O.D.	ø4, ø6

### Multi-connector with One-touch Fittings : *DMK*

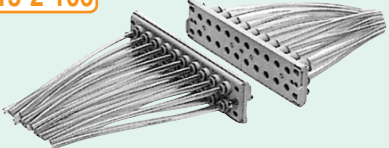
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Features	Combines multiple tube connections
No. of connecting tubes	6, 12
Applicable tubing O.D.	ø3.2, ø4

### Rectangular Multi-connector: *KDM*

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15-2-106



Features	One-touch In/Out connection, Multi-tube connector
No. of connecting tubes	10, 20
Applicable tubing O.D.	ø3.2, ø4, ø6, ø8

### Piping Module: *KB*

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15-2-109



Features	Centralized distribution of supply air
Applicable tubing O.D.	ø4, ø6, ø8, ø10, ø12, ø16
Connection thread	1/8, 1/4, 3/8, 1/2

## Fittings for Special Environments

### FR One-touch Fittings: KR

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15-3-1



Features	For use where spatter is generated
Applicable tubing O.D.	ø6, ø8, ø10, ø12
Connection thread	1/8, 1/4, 3/8, 1/2

### FR One-touch Fittings Manifold: KMR

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15-3-6



Features	For use where spatter is generated
Applicable tubing O.D.	ø6, ø8, ø10, ø12
Connection thread	1/4, 3/8

### Stainless One-touch Fittings: KG

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15-3-8



Features	For use applicable in corrosive environments
Applicable tubing O.D.	ø4, ø6, ø8, ø10, ø12, ø16
Connection thread	M5 x 0.8, M6 x 1.0 1/8, 1/4, 3/8, 1/2

### Antistatic One-touch Fittings: KA

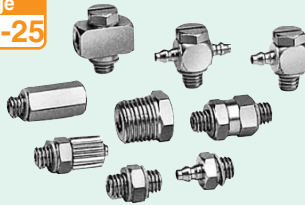
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15-3-20



Features	For antistatic electricity
Applicable tubing O.D.	ø3.2, ø4, ø6, ø8, ø10, ø12
Connection thread	M5 x 0.8, M6 x 1.0 Standard Uni thread 1/8, 1/4, 3/8, 1/2

### Miniature Fittings: MS

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15-3-25



Features	For use in corrosive environments
Applicable tubing O.D.	ø4, ø6, ø8
Connection thread	M5

## Inch-size One-touch Fittings

### One-touch Mini: KJ

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15-4-1



Features Inch-size tube/UNF, NPT thread

Applicable tubing O.D.  $\phi 1/8$ ,  $\phi 5/32$ ,  $\phi 1/4$

Connection thread 10-32 UNF, 1/16, 1/8

### One-touch Fittings: KQ2

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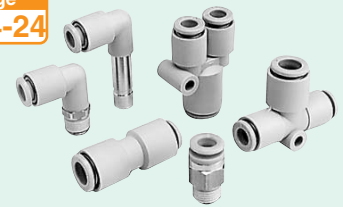
Features Inch-size tube/UNF, NPT thread

Applicable tubing O.D.  $\phi 1/8$ ,  $\phi 5/32$ ,  $\phi 3/16$ ,  $\phi 1/4$ ,  $\phi 5/16$ ,  $\phi 3/8$ ,  $\phi 1/2$

Connection thread 10-32 UNF, 1/16, 1/8, 1/4, 3/8, 1/2

### One-touch Fittings: KQ2

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15-4-24



Features Inch-size tube/M5, R, Rc thread

Applicable tubing O.D.  $\phi 3/16$ ,  $\phi 1/4$ ,  $\phi 5/16$ ,  $\phi 3/8$ ,  $\phi 1/2$

Connection thread M5 x 0.8, 1/8, 1/4, 3/8, 1/2

### Uni One-touch Fittings: KQ2

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15-4-31



Features New-stand male threads for piping that reduces the screw-in time by 1/3.

Applicable tubing O.D.  $\phi 1/8$ ,  $\phi 5/32$ ,  $\phi 3/16$ ,  $\phi 1/4$ ,  $\phi 5/16$ ,  $\phi 3/8$ ,  $\phi 1/2$

Connection thread Uni thread: 1/8, 1/4, 3/8, 1/2

### Rotary One-touch Fittings: KS

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15-4-36



Features Low torque rotation for fast swivel and oscillating applications

Applicable tubing O.D.  $\phi 5/32$ ,  $\phi 1/4$ ,  $\phi 5/16$ ,  $\phi 3/8$

Connection thread 10-32 UNF, 1/8, 1/4, 3/8

### One-touch Fittings Manifold: KM

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15-4-39



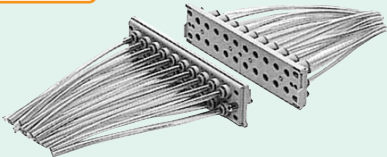
Features One-touch In/Out connection for compact and concentrated tubing applications

Applicable tubing O.D.  $\phi 5/32$ ,  $\phi 1/4$ ,  $\phi 5/16$ ,  $\phi 3/8$ ,  $\phi 1/2$

Connection thread 1/4, 3/8

### Rectangular Multi-connector: KDM

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15-4-41



Features One-touch In/Out connection, Multi-tube connector

No. of connecting tubes 10, 20

Applicable tubing O.D.  $\phi 1/8$ ,  $\phi 5/32$ ,  $\phi 1/4$ ,  $\phi 5/16$

### Clean One-touch Fittings: KP/KPQ/KPG

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15-5-5



Features One-touch fittings for clean room blowing systems and drive air system

Applicable tubing O.D.  $\phi 42$ ,  $\phi 6$ ,  $\phi 8$ ,  $\phi 10$ ,  $\phi 12$

Connection thread M5 x 0.8, 1/8, 1/4, 3/8, 1/2

## Tubing

### Nylon Tubing: *T*

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15-6-2



Features	General tubing 1.5 MPa max. at 20°C	
Tubing O.D.	Metric size	ø4, ø6, ø8, ø10, ø12, ø16
	Inch size	ø1/8, ø3/16, ø1/4, ø3/8, ø1/2
Color	Black, White, Red, Blue Yellow, Green	

### Soft Nylon Tubing: *TS*

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15-6-3



Features	Slightly flexible 1.0 MPa max. at 20°C	
Tubing O.D.	Metric size	ø4, ø6, ø8, ø10, ø12, ø16
	Inch size	ø1/8, ø3/16, ø1/4, ø3/8, ø1/2
Color	Black, White, Red, Blue Yellow, Green	

### Polyurethane Tubing: *TU*

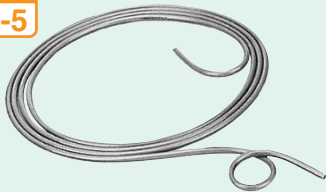
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15-6-4



Features	Flexible 0.8 MPa max. at 20°C	
Tubing O.D.	Metric size	ø4, ø6, ø8, ø10, ø12
	Inch size	ø1/8, ø3/16, ø1/4, ø3/8, ø1/2
Color	Black, White, Red, Blue, Yellow Green, Clear, Orange	

### Soft Polyurethane Tubing: *TUS*

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15-6-5



Features	Extremely flexible 0.6 MPa max. at 20°C
Tubing O.D.	ø4, ø6, ø8, ø10, ø12
Color	Black, White, Red, Blue, Yellow Green, Translucent, Yellow brown

### Hard Polyurethane Tubing: *TUH*

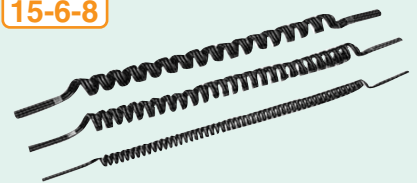
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15-6-6



Features	Excellent in resiliency even compared with nylon-based tubing.
Tubing O.D.	ø4, ø6, ø8, ø10, ø12
Color	Black, White, Blue, Translucent

### Polyurethane Coil Tubing: *TCU*

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15-6-8



Features	For flexible and moving applications
Number of cores	1 core, 2 cores, 3 cores
Tubing O.D.	ø4, ø6, ø8
Color	Black

### Polyurethane Flat Tubing: *TFU*

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15-6-9



Features	For flexible and moving applications
Number of cores	2 cores, 3 cores
Tubing O.D.	ø4, ø6, ø8
Color	Black

### FR Soft Nylon Tubing: *TRS*

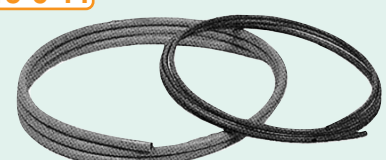
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15-6-10



Features	Use in spatter generating atmosphere/Flame resistant material
Tubing O.D.	ø6, ø8, ø10, ø12
Color	Black, White, Red, Blue, Green

### FR Double Layer Tubing: *TRB*

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15-6-11



Features	Use in spatter generating atmosphere/Flame resistant material
Tubing O.D.	ø6, ø8, ø10, ø12
Color	Black, White, Red, Blue, Yellow, Green

## Tubing

### FR Double Layer Polyurethane Tubing : **TRBU**

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**15-6-13**



Features	Excellent in resiliency even compared with nylon-based tubing.
Tubing O.D.	ø6, ø8, ø10, ø12
Color	Black, White, Red, Blue, Yellow, Green

### Double Layer Tube Stripper : **TKS**

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**15-6-15**



Features	Allows easy stripping of the outer layer from double layer tubing.
Tubing O.D.	ø6, ø8, ø10, ø12
Color	Black, White, Red, Blue, Yellow, Green

### Antistatic Tubing: **TA□**

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**15-6-17**

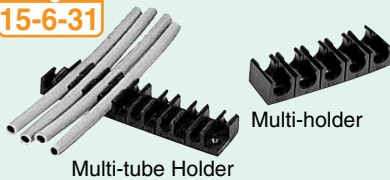


Features	For preventing static electricity	
Tubing O.D.	Metric size	ø3.2, ø4, ø6, ø8, ø10, ø12
	Inch size	ø1/8
Color	Black	

## Related Products

### Multi-tube Holder: **TM** Multi-holder: **TMA**

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**15-6-31**



Multi-tube Holder

Multi-holder

### Tube Cutter: **TK** Tube Releasing: **TG**

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Tube Cutter

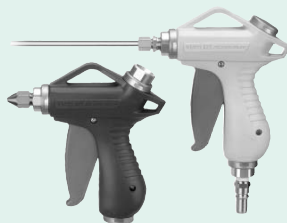
Tube Releasing

### Tube Reel: **TBR** Tube Stand: **TB**

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**15-6-35**



### Blow Gun: **VMG**



## Speed Controllers (Standard Type)

Elbow Type: AS12□1F to 42□1F  
 Universal Type: AS13□1F to 43□1F

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 15-9-2



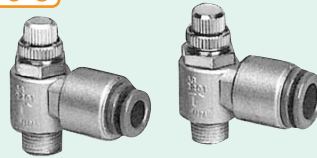
Elbow Type

Universal Type

Port size on cylinder side		M3 to 1/2
Tubing	Metric size	ø3.2 to ø12
	O.D. Inch size	ø1/8 to ø1/2
Applicable cylinder bore size		ø2.5 to ø100

Elbow Type (Metal Body):  
 AS12□1 to 42□1F

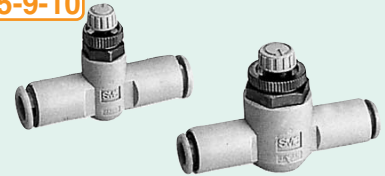
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Port size on cylinder side		M5 to 1/2
Tubing	Metric size	ø4 to ø12
	O.D. Inch size	—
Applicable cylinder bore size		ø6 to ø100

In-line Type:  
 AS1001F to 4001F

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Port size on cylinder side		—
Tubing	Metric size	ø3.2 to ø12
	O.D. Inch size	ø1/8 to ø1/2

Dual Speed Controller:  
 ASD

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Port size on cylinder side		M5 to 1/2
Tubing	Metric size	ø4 to ø12
	O.D. Inch size	ø1/8 to ø3/8
Applicable cylinder bore size		ø6 to ø100

Uni One-touch Fittings:  
 AS□□□1F-U□

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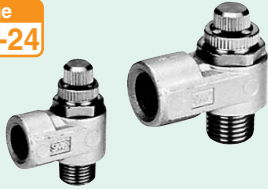


Port size on cylinder side		1/8 to 1/2
Tubing	Metric size	ø3.2 to ø12
	O.D. Inch size	ø1/8 to ø1/2
Applicable cylinder bore size		ø20 to ø100

## Speed Controllers (Standard Type)

### Elbow Type: AS1200 to 4200

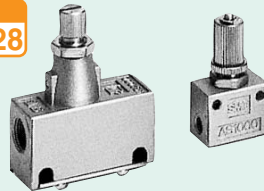
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Port size on cylinder side	M3 to 1/2
Applicable cylinder bore size	ø2.5 to ø100

### In-line Type: AS1000 to 5000

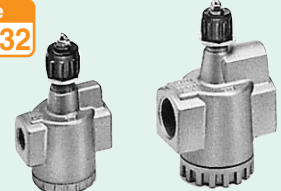
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Port size on cylinder side	M3 to 1/2
Applicable cylinder bore size	ø2.5 to ø100

### Large Flow In-line Type: AS420 to 900

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Port size on cylinder side	1/4 to 1/2
Applicable cylinder bore size	ø63 to ø300

### Speed Controller with Residual Pressure Release Valve

### Speed Controller with Residual Pressure Release Valve

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Series Elbow with One-touch fittings, Universal type: **AS□□□1FE**  
Metal body in-line type: **AS□□□00E**

Port size on cylinder side	1/8 to 1/2
Applicable tubing O.D.	ø4 to ø12
Applicable cylinder bore size	ø20 to ø100

### Stainless Series Speed Controllers

### Stainless Series Speed Controllers

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Series With One-touch fittings Elbow, Universal type: **AS□□□1FG**  
In-line type: **AS□□□1FG**  
Dual speed controller: **ASD□□□FG**

Port size on cylinder side	M5 to 1/2	
Tubing O.D.	Metric size	ø3.2 to ø12
	Inch size	ø3/8 to ø1/2
Applicable cylinder bore size	ø20 to ø100	

### Speed Controller for Low Speed Operation

### Speed Controller for Low Speed Operation

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Series With One-touch fittings Elbow, Universal type: **AS□□□1FM**  
In-line type: **AS□□□01FM**  
Dual speed controller: **ASD□□□0FM**  
Standard type (Metal body): **AS□□□0M**

Port size on cylinder side	M5 to 1/2	
Tubing O.D.	Metric size	ø3.2 to ø10
	Inch size	ø1/8 to ø3/8
Applicable cylinder bore size	ø6 to ø40	

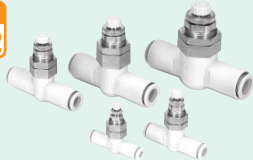
### Panel Mount Type/ In-line Type

### Speed Controller Adjustable by Flat Head Screwdriver

### Tamper Proof/ Speed Controller

### Panel Mount Type, In-line Type

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15-9-72



Series	<b>AS□□□1F-3</b>	
Tubing O.D.	Metric size	ø3.2 to ø12
	Inch size	ø1/8 to ø1/2
Applicable cylinder bore size	ø6 to ø100	

### Speed Controller Adjustable by Flat Head Screwdriver

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15-9-75



Series With One-touch fittings Elbow, Universal type: **AS□□□1F-D**  
In-line type: **AS□□□1F-D**  
Dual speed controller: **ASD□□□F-D**  
Metal body: **AS□2□0-D**

Port size on cylinder side	M5 to 1/2	
Tubing O.D.	Metric size	ø3.2 to ø12
	Inch size	ø1/8 to ø1/2
Applicable cylinder bore size	ø6 to ø100	

### Tamper Proof Speed Controller

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15-9-92



Series With One-touch fittings Elbow, Universal type: **AS□□□1F-T**  
In-line type: **AS□□□1F-T**  
Dual speed controller: **ASD□□□F-T**  
Metal body: **AS□2□0-T**

Port size on cylinder side	M5 to 1/2	
Tubing O.D.	Metric size	ø3.2 to ø12
	Inch size	ø1/8 to ø1/2
Applicable cylinder bore size	ø6 to ø100	

# Flow Control Equipment

## Speed Controller with Pilot Check Valve

Speed Controller with Pilot Check Valve : **ASP**

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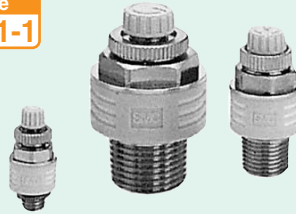


Port size on cylinder side	1/8 to 1/2	
Tubing O.D.	Metric size	ø6 to ø12
	Inch size	ø1/8 to ø1/2
Applicable cylinder bore size	ø20 to ø100	

## Metering Valve with Silencer

Metering Valve with Silencer : **ASN2**

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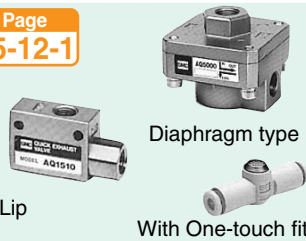


Port size	M5 to 1/2
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## Quick Exhaust Valve

Quick Exhaust Valve: **AQ**

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Diaphragm type

Lip

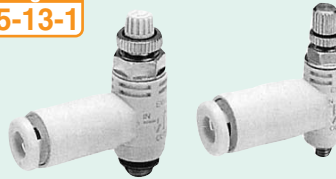
With One-touch fitting

Series	Port size	Applicable tubing O.D.
Lip	AQ1500 AQ1510	M5, 1/8
Diaphragm type	AQ2000 to 5000	1/8 to 3/4
With One-touch fitting	AQ240F AQ340F	ø4 to ø6

## Speed Exhaust Controller

Speed Exhaust Controller: **ASV**

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Port size	M3 to 1/2
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## Check Valve

Check Valve: **AK**

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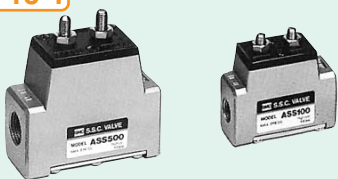


Series	Port size	Applicable tubing O.D.	
		Metric	Inch
AK2000, AK4000 AK6000	1/8 to 1	—	—
Straight type: AKH	—	ø4 to ø12	ø5/32 to ø1/2
Male connector type: AKH	—	ø4 to ø12	ø5/32 to ø1/2
Bushing type: AKB	1/8 to 1/2	—	—

## Safety Speed Control Valve

Safety Speed Control Valve : **SSC Valve**

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Series	Port size
Meter-out control type	ASS100 to 600
Meter-in-control type	ASS110 ASS310

## Air Saving Valve

Pressure Valve Flow Valve : **ASR/ASQ**

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Series	Port size	Applicable tubing O.D.
Pressure valve	ASR	ø6 to ø12
Flow valve	ASQ	

## Clean Speed Controller

Clean Speed Controller with One-touch Fitting : **AS-FPQ, AS-FPG**

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Series	Port size	Applicable tubing O.D.
AS-FPQ	M5 x 0.8	ø4, ø6, ø8 ø10, ø12
AS-FPG	1/8, 1/4 3/8, 1/2	