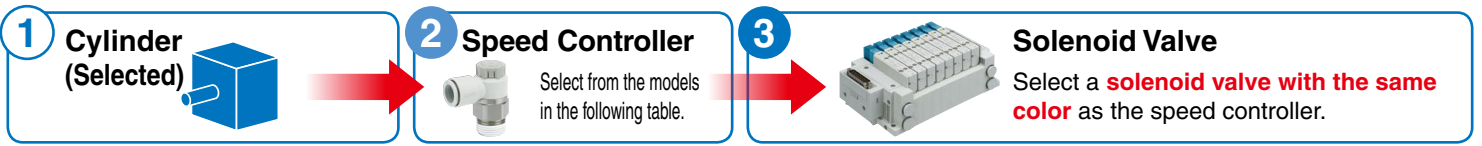


Speed Controller/ Solenoid Valve Quick Selection Table

Optimal selection of the speed controller/solenoid valve contributes to energy saving.



Type	1 Series	Bore size [mm]	Port size	2 Speed controller Model	Applicable tubing O.D. [mm]	3 Solenoid valve Series (Confirm the C value of each solenoid valve when selecting.)			
Shortened Overall Length	CQ2	12	M5	AS1201F-M5E-04A	4, 6	Plug-in SS5Y3 SY3□ ₃₀ SS5Y3 SY3□ ₄₀			
		16	M5						
		20	M5						
		25	M5	AS2201F-01-06SA*1		8	Plug-in SS5Y5-M□ SY3□ ₃₀ SS5Y5 SY5□ ₃₀ SS5Y5 SY5□ ₄₀		
		32	Rc1/8*1						
		40	Rc1/8						
		50	Rc1/4	AS2201F-02-08SA			10	Plug-in SS5Y7-M□ SY5□ ₃₀ SS5Y7 SY7□ ₃₀ SS5Y7 SY7□ ₄₀	
		63	Rc1/4						
		80	Rc3/8						
	100	Rc3/8	AS3201F-03-10SA	12	Plug-in SS5Y7-M□ SY5□ ₃₀ SS5Y7 SY7□ ₃₀ SS5Y9 SY9□ ₄₀				
	125	Rc3/8							
	140	Rc3/8							
	Round	CJ2	12		M5	AS1201F-M5E-04A		4, 6	Plug-in SS5Y3 SY3□ ₃₀ SS5Y3 SY3□ ₄₀
			16		M5				
20			M5						
CM2		20	Rc1/8		AS2201F-01-06SA				
		25	Rc1/8						
		32	Rc1/8						
		40	Rc1/4						
CG1		20	Rc1/8*2	AS2201F-01-06SA*2					
		25	Rc1/8*2						
		32	Rc1/8						
		40	Rc1/8						
		50	Rc1/4						
		63	Rc1/4						
		80	Rc3/8						
Square	CA2	40	Rc1/4	AS2201F-02-08SA					
		50	Rc3/8	AS3201F-03-10SA					
		63	Rc3/8	AS3201F-03-10SA					
		80	Rc1/2	AS4201F-04-12SA					
		100	Rc1/2	AS4201F-04-12SA					
	MB	32	Rc1/8	AS2201F-01-06SA					
		40	Rc1/4	AS2201F-02-08SA					
		50	Rc1/4	AS2201F-02-08SA					
		63	Rc3/8	AS3201F-03-10SA					
		80	Rc3/8	AS3201F-03-10SA					
Rectangle	CUJ	4	M3	AS1201F-M3-04					
		6	M3						
		8	M3						
		10	M3						
		12	M3						
		16	M3						
	CU/CUK	20	M5	AS1201F-M5E-04A					
		6	M5	AS1201F-M5E-04A					
		10	M5						
		16	M5						
		20	M5						
		25	M5						
		32	Rc1/8		AS2201F-01-06SA				
		25	M5		AS1201F-M5E-04A				
MU	32	Rc1/8	AS2201F-01-06SA						
	40	Rc1/8	AS2201F-01-06SA						
	50	Rc1/4	AS2201F-02-08SA						
	63	Rc1/4	AS2201F-02-08SA						

Cylinder Speed Guide (Unit: s)

Use SMC's model selection software for details on speeds. The speed guide is calculated by the C value, where the speed controller and piping are attached to the cylinder. ©When one of the following full stroke times is required, select a solenoid valve with a C value higher than the full stroke time.

Conditions P = 0.5 MPa, Piping length 1 m, Load factor 50%, Vertically upward

Series	Bore size [mm]	25 (Stroke)	50 (Stroke)		
CQ2	12	0.1	0.2		
	16	0.2	0.2		
	20	0.2	0.3		
	25	0.2	0.4		
	32	0.2	0.3		
	40	0.2	0.3		
	50	0.2	0.3		
	63	0.2	0.4		
	80	0.2	0.3		
	100	0.2	0.4		
CG1	125	0.3	0.5		
	140	0.4	0.6		
	Series	Bore size [mm]	100 (Stroke)	200 (Stroke)	300 (Stroke)
	CG1	20	0.3	0.4	0.5
		25	0.3	0.4	0.6
		32	0.3	0.6	0.8
		40	0.4	0.7	1.1
50		0.4	0.6	0.9	
63		0.5	1.0	1.4	
MB	80	0.4	0.8	1.1	
	100	0.4	0.8	1.1	
	32	0.3	0.6	0.8	
	40	0.3	0.5	0.7	
	50	0.4	0.6	0.9	
MB	63	0.3	0.5	0.8	
	80	0.5	0.8	1.1	
	100	0.5	0.8	1.1	
	125	0.6	1.2	1.7	

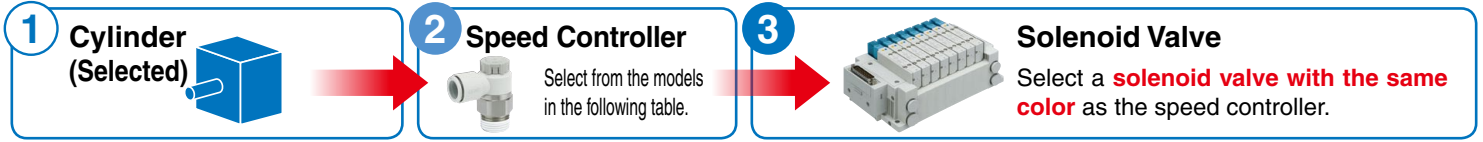
Applicable Tubing Models

Applicable tubing O.D.	Tubing model [20 m]
ø4	TU0425□-20
ø6	TU0604□-20
ø8	TU0805□-20
ø10	TU1065□-20
ø12	TU1208□-20

*1 When an auto switch is not in use and the stroke is 5 mm, the port size M5 applies. Select the AS1201F-M5E-04A speed controller.

*2 For a cylinder with an air cushion, the port size M5 applies. Select the AS1201F-M5E-04A speed controller.

The color symbol is indicated in the □. Refer to the Web Catalog for details.



*5 Size is indicated for rotary actuator.

Type	1 Series	Bore size [mm]	Port size	2 Speed controller Model
With Shaft Guide	MGP	12	M5	AS1201F-M5E-04A
		16	M5	
		20	Rc1/8	AS2201F-01-06SA
		25	Rc1/8	
		32	Rc1/8	
		40	Rc1/8	
		50	Rc1/4	AS2201F-02-08SA
		63	Rc1/4	
		80	Rc3/8	AS3201F-03-10SA
		100	Rc3/8	
	CXSJ	6	M3	AS1201F-M3-04
		10	M5	
		15	M5	AS1201F-M5E-04A
		20	M5	
	CXS	25	M5	
		32	Rc1/8	AS2201F-01-06SA
		6	M5	AS1201F-M5E-04A
		10	M5	
	MGG	15	M5	
		20	M5	AS2201F-01-06SA
25		Rc1/8		
32		Rc1/8	AS2201F-01-06SA	
20		Rc1/8		
25		Rc1/8	AS2201F-01-06SA	
32		Rc1/8		
40		Rc1/8	AS2201F-02-08SA	
MTS	50	Rc1/4	AS2201F-02-08SA	
	63	Rc1/4	AS3201F-03-10SA	
	80	Rc3/8	AS4201F-04-12SA	
	100	Rc1/2		
	8	M3	AS1201F-M3-04	
	12	M5	AS1201F-M5E-04A	
With Linear Guide	MXQ-Z	16	M5	AS1201F-M5E-04A
		20	M5	
		25	M5	
		6	M3	AS1201F-M3-04
		8	M5	
	MXP	10	M5	AS1201F-M5E-04A
		12	M5	
		16	M5	
	MXJ	4	M3	AS1201F-M3-04
		6	M3	
Rodless Cylinders Magnet Type	CY3B/R	8	M3	AS1201F-M3-04*3
		6	M3*3	AS1201F-M3-04*3
		10	M5	AS1201F-M5E-04A
	CY1□	15	M5	
		20	Rc1/8	AS2201F-01-06SA
		25	Rc1/8	
Rodless Cylinders Mechanical Joint Type	MY1/2/3*4	32	Rc1/8	AS2201F-01-06SA*4
		40	Rc1/4	AS2201F-02-08SA
		50	Rc3/8	AS3201F-03-10SA
		63	Rc3/8	
		80	Rc1/2	AS4201F-04-12SA*4
		10	M5	AS1201F-M5E-04A
		16	M5	
		20	M5	

*3 For the CY1L6, the port size M5 applies. Select the AS1201F-M5E-04A speed controller.

*4 When using the stroke adjustment unit of the MY3B/M, there are some restrictions on the speed controller. Please contact SMC separately.

Type	1 Series	Bore size*5 [mm]	Port size	2 Speed controller Model
Air Gripper Parallel Opening Square	MHZ2*6	6	M3	AS1211F-M3-04*6
		10	M3	
		16	M5	
		20	M5	AS1201F-M5E-04A*6
		25	M5	
	MHF2	8	M3	AS1201F-M3-04
		12	M5	
		16	M5	AS1201F-M5E-04A
		20	M5	
		25	M5	
Air Gripper Parallel Opening Round	MHL2	10	M5	AS1201F-M5E-04A
		16	M5	
		20	M5	
	MHS2/3/4	25	M5	AS1201F-M5E-04A
		32	M5	
		40	M5	
		50	M5	
Rotary Actuator Vane	CRB2	16	M3	AS1201F-M3-04
		20	M5	
		30	M5	AS1201F-M5E-04A
		40	M5	
		50	Rc1/8	AS2201F-01-06SA
	CRB1	63	Rc1/8	AS2201F-01-06SA
		80	Rc1/4	AS2201F-02-08SA
		100	Rc1/4	
		1	M3	AS1201F-M3-04
		3	M5*7	AS1201F-M5E-04A*7
Rack & Pinion	MSUB/A	7	M5	AS1201F-M5E-04A
		20	M5	
		05	M3	AS1201F-M3-04
		1	M3	AS1201F-M5E-04A
		30	M5	AS1201F-M5E-04A
	CRA1	50	Rc1/8	AS2201F-01-06SA
		63	Rc1/8	
		80	Rc1/4	AS2201F-02-08SA
		100	Rc3/8	AS3201F-03-10SA
		10	M5	AS1201F-M5E-04A
Table	CRQ2	15	M5	AS1201F-M5E-04A
		20	Rc1/8	AS2201F-01-06SA
		30	Rc1/8	
		40	Rc1/8	
		1	M3	AS1201F-M3-04
	MSQ	2	M3	AS1201F-M3-04
		3	M3	
		7	M5	AS1201F-M5E-04A
		10	M5	
		20	M5	
Table	MSQ	30	Rc1/8*8	AS2201F-01-06SA*8
		50	Rc1/8*8	
		70	Rc1/8*8	
		100	Rc1/8*8	
		200	Rc1/8*8	AS2201F-01-06SA*8

*6 For the axial ported type, please contact SMC separately.

*7 For the axial ported type, the port size M3 applies. Select the AS1201F-M3-04 speed controller.

*8 For the side port type, the port size M5 applies. Select the AS1201F-M5E-04A speed controller.

Applicable tubing O.D. [mm]	3 Solenoid valve Series (Confirm the C value of each solenoid valve when selecting.)
4, 6	Plug-in SS5Y3/SY3□□0 SS5Y3/SY3□□0
8	Plug-in SS5Y5-M□/SY3□□0 Plug-in SS5Y5/SY5□□0 SS5Y5/SY5□□0
10	Plug-in SS5Y7-M□/SY5□□0 Plug-in SS5Y7/SY7□□0 SS5Y7/SY7□□0
12	Plug-in SS5Y7-M□/SY5□□0 Plug-in SS5Y7/SY7□□0 SS5Y9/SY9□□0